

# VRV

Product catalogue 2022  
for professionals



VRV, Purpose-built to support the decarbonisation  
of commercial buildings

Check out  
our VRV 5 HR  
launch event!



# What's new?



## VRV 5 heat recovery

REYA-A

p. 34 **NEW** Our sustainable hero



- › Top sustainability over the entire lifecycle thanks to
  - lower GWP R-32 refrigerant
  - market-leading real life seasonal efficiency
  - high efficient 3-pipe heat recovery
- › Maximum design flexibility, thanks to Shīrudo Technology
- › Market-leading portfolio:
  - Widest range of dedicated R-32 indoor units with no less than 8 different models
  - integration of ventilation units to improve indoor air quality

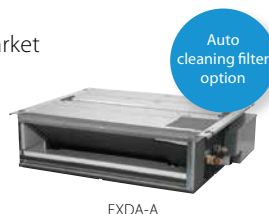
## Extension of VRV 5 indoor units

FXMA-A, FXHA-A, FXUA-A

p. 46 **NEW** Most complete range of specially designed indoor units for R-32 refrigerant



- › Extension with
  - FXMA-A, high ESP and large capacity concealed ceiling unit up to 31.5 kW in heating
  - FXHA-A, ceiling suspended unit, including new 50 class (5.6kW) model
  - FXUA-A, unique 4-way blow ceiling suspended unit, including new 50 class model and intelligent sensors
  - EKVDX-A, DX coil for post treatment of fresh air
- › Widest range of dedicated R-32 indoor units on the market



Indoor unit control via Onecta app



NEW 50 class + intelligent sensors





# Fresh Air Treatment Unit

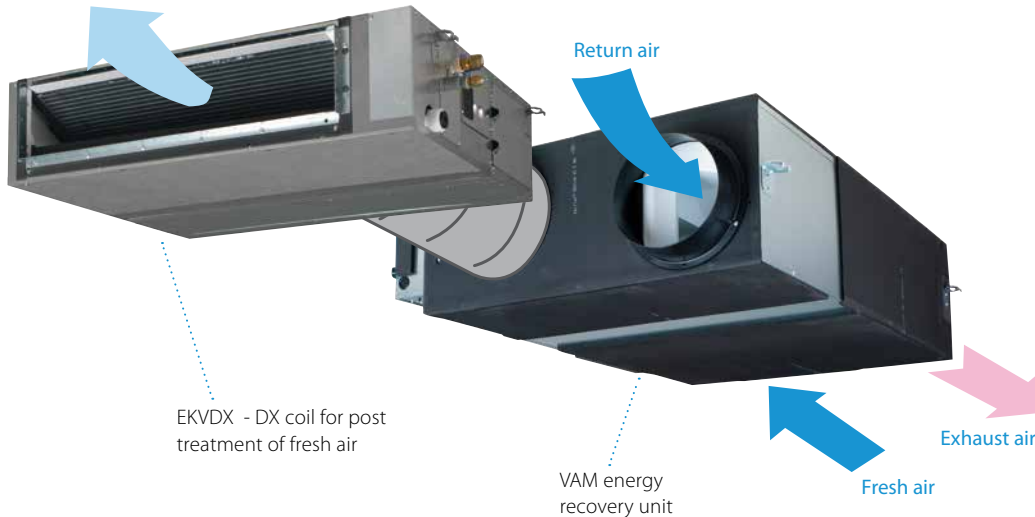
EKVDX-A

p. 172 **NEW** Post heating or cooling of fresh air to lower the load on the air conditioning system



- > Creates a high quality indoor environment by pre conditioning of incoming fresh air
- > Maximum installation flexibility thanks to separate DX coil
- > Fresh air flows from 500 up to 2,000 m<sup>3</sup>/h
- > High ESP up to 150 Pa
- > Can be integrated in both R-32/R-410A VRV systems
- > Replaces VKM-GB range, delivering increased capacity range and reduced sound levels

Supply air



# CO<sub>2</sub> concentration visualisation

p. 170 **NEW** Real time CO<sub>2</sub> visualisation on Madoka controller



- > For VAM-J8 units with optional BRYMA sensor connected



# Astropure 2000 - Air Purifier for Commercial Applications

BR00000554, BR00000676, BR00000678

p. 182 **NEW** Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces



- > For areas where additional, extra high, filtration performance is needed.
- > Airflow rate up to 2,000 m<sup>3</sup>/h
- > HEPA H14 filter in accordance with EN1822
- > Optional UV germicidal irradiation (UVGI)
- > Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
- > Easy installation, operation, and maintenance in a totally self-contained system
- > For commercial areas up to 200m<sup>2</sup>



# Meet our superhero: VRV 5 heat recovery



## Purpose-built to support the decarbonisation of commercial buildings

**Support your customers in future-proofing their buildings with  
a breakthrough solution for sustainable climate control.**

Now, more than ever, we all have a part to play in reducing our environmental impact. That's why Daikin is introducing the VRV 5 heat recovery unit with innovative new superpowers that make it a future-proof climate solution. Smarter and more responsive than ever – it offers you and your customers complete peace of mind.

The VRV 5 heat recovery unit is specifically designed for R-32 refrigerant. This reduces its CO<sub>2</sub> equivalent impact thanks to a lower GWP, lower refrigerant charge and higher efficiency compared to R-410A systems. It also has completely redesigned Branch Selector boxes that require less ceiling height and have Shîrudo Technology built in.

### **Pioneering technology meets seamless sustainability**

The good news for you as a Daikin partner? This all-in-one hero solution is as simple and flexible to install as any other VRV system, with all measures factory integrated. It's also easy to design and select, thanks to new software that ensures compliance with the latest product standards. What's more, you'll have access to an extensive network of expert support.

Help your customers reduce their CO<sub>2</sub> footprint now.  
Visit [www.daikin.eu/VRV5HR](http://www.daikin.eu/VRV5HR) to learn more  
about the VRV 5 heat recovery unit.

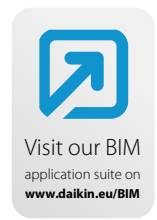


**VRV 5**

**BLUEVOLUTION**



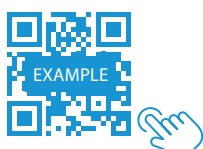
# VRV



Maximum flexibility, minimum concern; As it should be.

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# Building a sustainable legacy together

Air surrounds us all the time, and in fact our very existence depends on it. At Daikin, the future of the world's indoor air is our greatest concern.

**Daikin** envisions a world with healthier indoor air while reducing our environmental impact. Driven by a dedication to achieve net zero CO<sub>2</sub> emissions by 2050, we provide **safe, healthy and comfortable spaces** throughout the building life cycle using **world-leading technology**.

Building on our **long-term partnerships**, let's build together now to achieve our goals, protecting the health and wellbeing of every individual.

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## Supporting in decarbonization

We must act now to ensure we create a long-lasting legacy. As a company that values sustainability, we want to help to **decarbonize** buildings and create a **healthy** environment for generations to come.

Taking on the sustainable transformation, our solutions reduce the CO<sub>2</sub> footprint of buildings, whether they are new builds or renovations:

- Reducing CO<sub>2</sub> equivalents through **lower GWP refrigerants** such as R-32
- Maximizing sustainability over the entire life cycle, thanks to market-leading **real life seasonal efficiencies**
- Ensuring systems run efficiently 24/7 through **smart controls**
- **Safeguarding natural resources** - by reusing existing refrigerant through **L∞P by Daikin**, turning waste into an asset

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## Building for the future

As market leaders in total solutions, we are constantly innovating to offer you a **comfortable, healthy and safe** environment, meeting your needs. Reliability, support and precision are characteristics of our future-proof products and services. We offer:

- A **wide range** of next-generation heat pumps to meet complex demands, including **easy upgrading**
- Expert **indoor air quality solutions** through our ventilation and filtration systems to eliminate pollutants and balance humidity levels

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## A journey we take together

Together we take on the sustainability journey. We provide expert **support** throughout the building life cycle and give **peace of mind** by ensuring what we do is **future-proof** and is helping to build a better future.

- Our team of **experts**, go beyond product support. Together we reach your green objectives.
- We are there for you, **all the time**: via our local customer support teams and e-commerce solutions.
- We're in it for the **long term**. We deliver what we commit to providing clear and trustworthy data.



# 9 reasons why VRV is unique in the market

## 1 Leader in sustainability

- NEW** › VRV 5: Completely new and dedicated R-32 VRV design
- Less refrigerant charge
  - Higher efficiency
  - Lower CO<sub>2</sub> equivalent
- › L∞P by Daikin: the creation of a circular economy of refrigerants
- Saves over 400,000 kgs of virgin refrigerant being produced every year
  - For all VRV units produced and sold in Europe\*

\* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

**VRV 5**  
BLUEEVOLUTION



**LOOP**  
BY DAIKIN

## 2 Efficiency

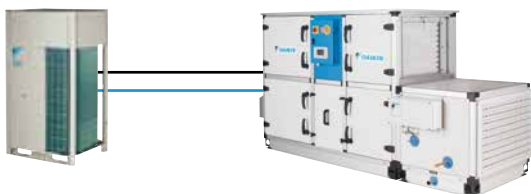
- › Variable Refrigerant Temperature for high seasonal efficiency
- › Round flow cassette and concealed ceiling units with auto cleaning filter
- › The best partner for your BREEAM, LEED or Well project

**BREEAM**<sup>®</sup>



## 3 Comfort

- › Provide high Indoor Air Quality through seamless integration of AHU's (For VRV IV models)
- › Variable Refrigerant Temperature preventing cold draughts in cooling thanks to high outblow temperatures
- › True continuous heating during defrost
- › Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
- › Auto cleaning filters to ensure optimum air quality



## 4 Reliability

- › Refrigerant cooled PCB
- › Most extensive testing before new units leave the factory
- › Widest sales network with all spare parts available in Europe
- › Preventive maintenance via Daikin Cloud Service
- › Auto cleaning filters to further enhance reliability thanks to clean air-filters
- › True technical cooling





## 5 Design

- › Widest ever range of cassette panels
  - Available in **white and black**
  - Sleek **designer panel** range
- › Daikin Emura, unique iconic design
- › Fully flat cassette, fully integrated in the ceiling



## 6 Controls

- NEW**
- › Voice control via Amazon Alexa and Google Assistant through BRP069C51 Onecta app (For VRV 5 models)
  - › Madoka: a sleek wired remote controller with intuitive touch button control
  - › Intelligent Touch manager: A cost-effective mini BMS integrating all Daikin products
  - › Easy integration in third party BMS via BACnet, LonWorks, Modbus, KNX
  - › Dedicated control solutions for applications such as technical cooling, shops, hotels, ...
  - › Daikin Cloud Service for online control, energy monitoring, comparison of multiple sites and predictive maintenance



## 7 Installation

- › Automatic refrigerant charge and refrigerant containment check
- › Unique 4-way blow ceiling suspended cassette (FXUQ)
- › Plug & play Daikin Air Handling Unit
- › VRV configurator software for the fastest commissioning, configuration and customisation
- › Outdoor unit display for quick on-site settings and detailed error readouts for improved customer support



## 8 Inventor of VRV with nearly 40 years of history

- › Market leader of VRV systems since 1982
- › Over 90 years of expertise in heat pump technology
- › Designed for and produced in Europe
- › Innovator setting the market standard with technologies such as Variable Refrigerant Temperature, continuous heating, Shirudo technology, ...



## 9 For every application a solution

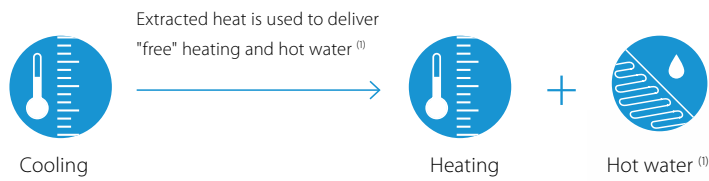
- › Heat recovery for simultaneous cooling and heating
- › Maximum flexibility for geothermal applications with water-cooled systems
- › Hot and cold climate solutions offering efficient cooling up to 52°C and heating down to -25°C
- › Space saving mini VRV solutions, offering the most compact VRV
- › The invisible VRV, a unique solution when the outdoor unit must be compact and completely invisible
- › Replacement solutions to replace existing systems in the most cost-effective way



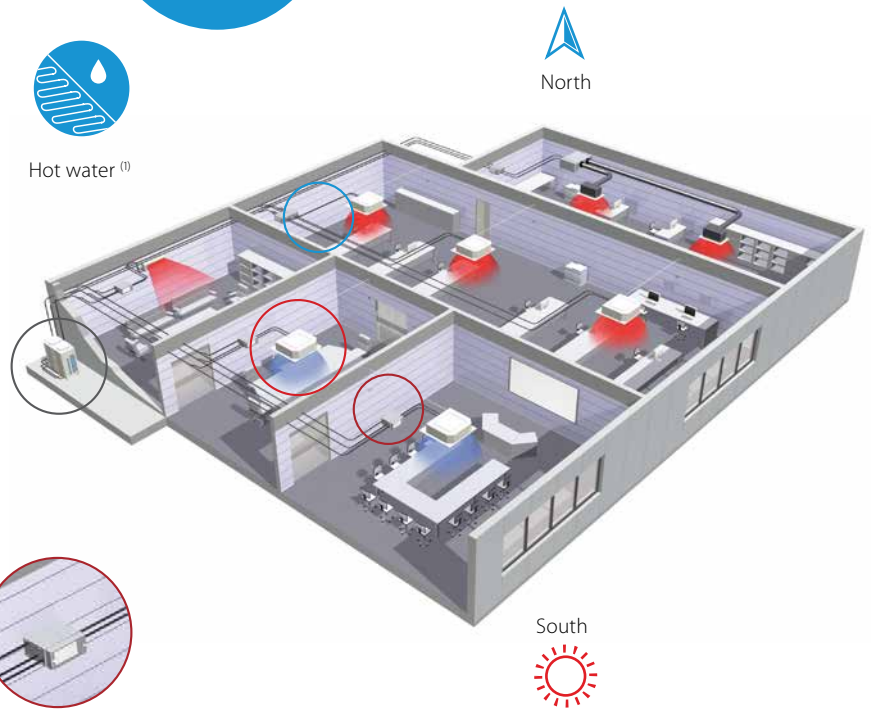
# Which VRV system offers me the best solution?

## Heat recovery or heat pump? VRV Heat recovery

Additional credits for green building certificate



- > Simultaneous heating **AND** cooling from one system
- > "Free" heating and hot water production <sup>(1)</sup> by transferring heat from areas requiring cooling
- > Maximum individual comfort in all areas
- > Technical cooling down to -20°C
- > Running costs of VRV heat recovery system can be 30 to 40% lower compared to water fan coil system <sup>(2)</sup>



### Components:

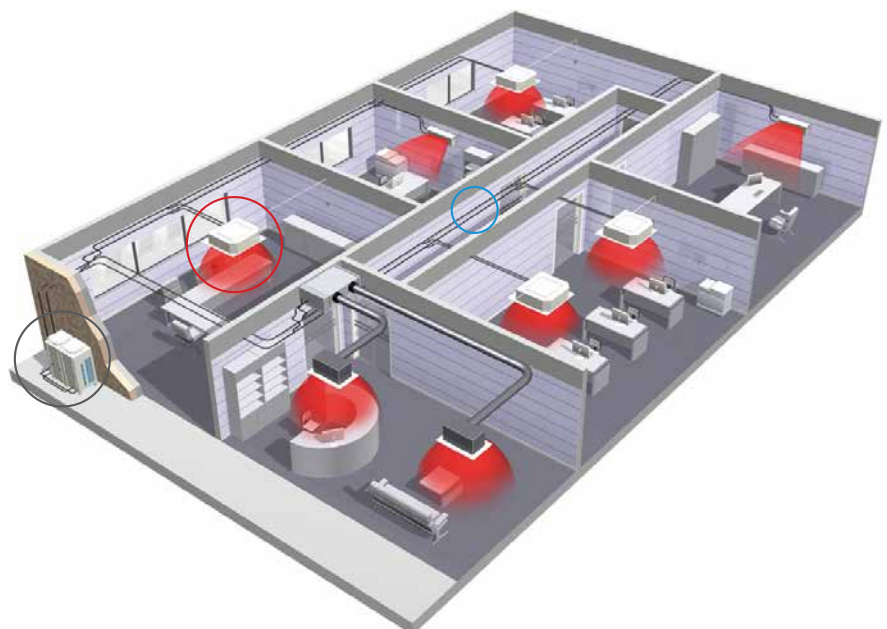
- Outdoor unit
- Indoor unit
- 3-pipe refrigerant piping
- BS boxes: allows the individual switching of indoor units between heating and cooling

## VRV Heat pump

- > For either heating **OR** cooling operation from one system

### Components:

- Outdoor unit
- Indoor unit
- 2-pipe refrigerant piping



(1) Hot water hydrobox connection only in combination with VRV IV+ heat recovery  
 (2) According to the Franklin + Andrews construction economics

## Air cooled or water cooled?

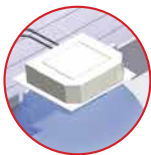
### Air Cooled

- › Fast and easy to install; no need for additional components
- › Low maintenance costs
- › Operation range from - 25°C~52°C
- › Can be installed both outdoors and indoors
- › Up to 54HP capacity for one system

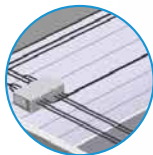
#### Components:



Outdoor unit



Indoor unit



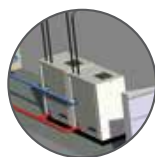
Refrigerant piping



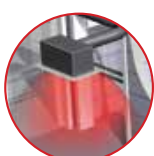
### Water Cooled

- › Suitable for high rise and large buildings because of the nearly unlimited possibilities of water piping
- › Not affected by outdoor temperature/climate conditions
- › Reduce CO<sub>2</sub> emissions thanks to the use of geothermal energy as a renewable energy source
- › Allows heat recovery in the entire building thanks to the storage of energy in the water circuit
- › Lower refrigerant levels thanks to the limited distance between outdoor and indoor units

#### Components:



Outdoor unit



Indoor unit



Refrigerant piping



(Geothermal) water loop

Additional credits for green building certificate





# VRV total solution

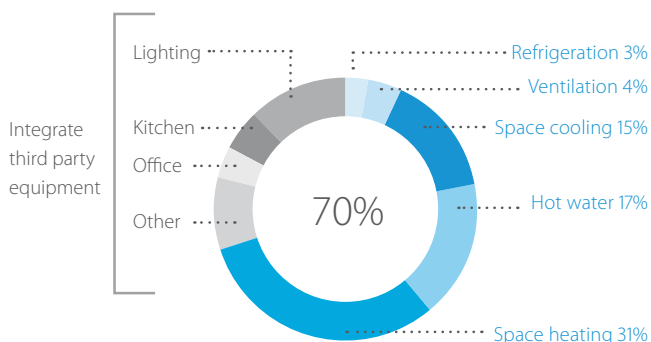
Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into

## a total solution

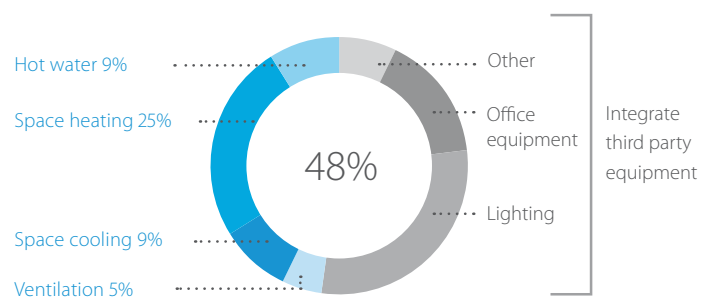
managing up to 70% of a buildings energy consumption giving large potential to cost saving

- › **Heating and cooling** for year round comfort
- › **Domestic Hot Water** produced in a efficient and environmental friendly way
- › **Underfloor heating /cooling** for efficient space heating/cooling
- › **Fresh air ventilation** for high quality environments
- › **Air curtains** for optimum air separation
- › **Controls** for maximum operating efficiency
- › **Cooling** for server rooms, telecom shelters, ... via VRV heat recovery or Sky Air units
- › **Refrigeration** via our VRV based refrigeration units

Average hotel energy consumption



Average office energy consumption



# Offices

Efficiency in the workplace

*"Modern design in harmony with the interior."*

Architect



# Hotel

Meet every guest's comfort expectations

*"With Daikin we could perfectly combine the authenticity of the hotel with the latest technology and comfort."*

Owner of a 5-star hotel

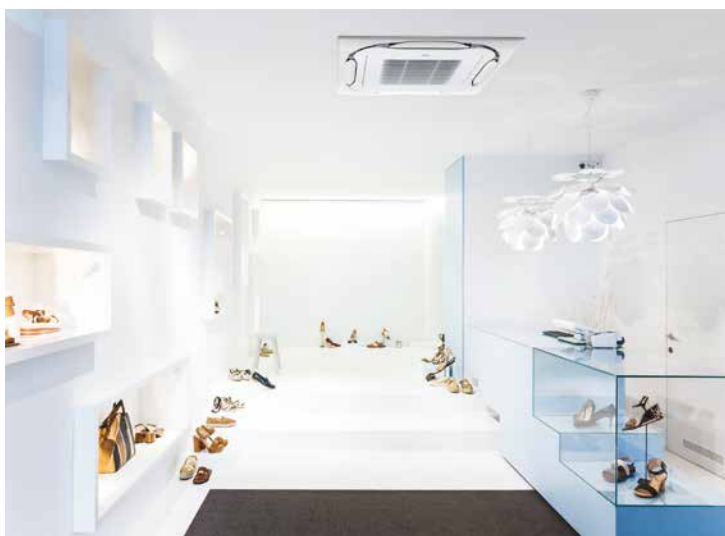


# Shops

Reducing retail costs

*"Together with Daikin's technical team we have optimised the design of our HVAC system, reducing investment resources and operational costs. Daikin has offered us access to the most up to date technology."*

Retail shop representative



# Residential

There is no place like home

*"Unparalleled comfort, with minimal energy consumption from the best heat pump technology."*





## VRV benefits & technologies

See how you can benefit from Daikin's highly flexible and efficiency product range



# VRV

## benefits & technologies

<b>VRV benefits</b>	<b>15</b>
Drastically reducing your running costs	16
Top reliability	20
Comfort guaranteed at all times	22
Great design flexibility	24
Fast installation and commissioning, easy servicing	26

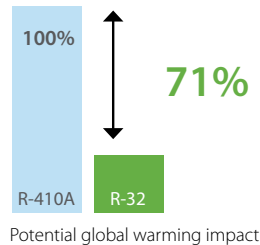
# Drastically reducing running costs

- ⊕ Innovative technologies to offer market-leading efficiencies
- ⊕ Flexibility to meet the building load at the highest efficiency

## BLUEVOLUTION

### Introducing R-32 refrigerant on VRV5

- > Lower Global Warming Potential (GWP): only 1/3rd of R-410A
- > Lower refrigerant charge: 15% less compared to R-410A
- > Higher energy efficiency
- > Single component refrigerant, easy to handle and recycle

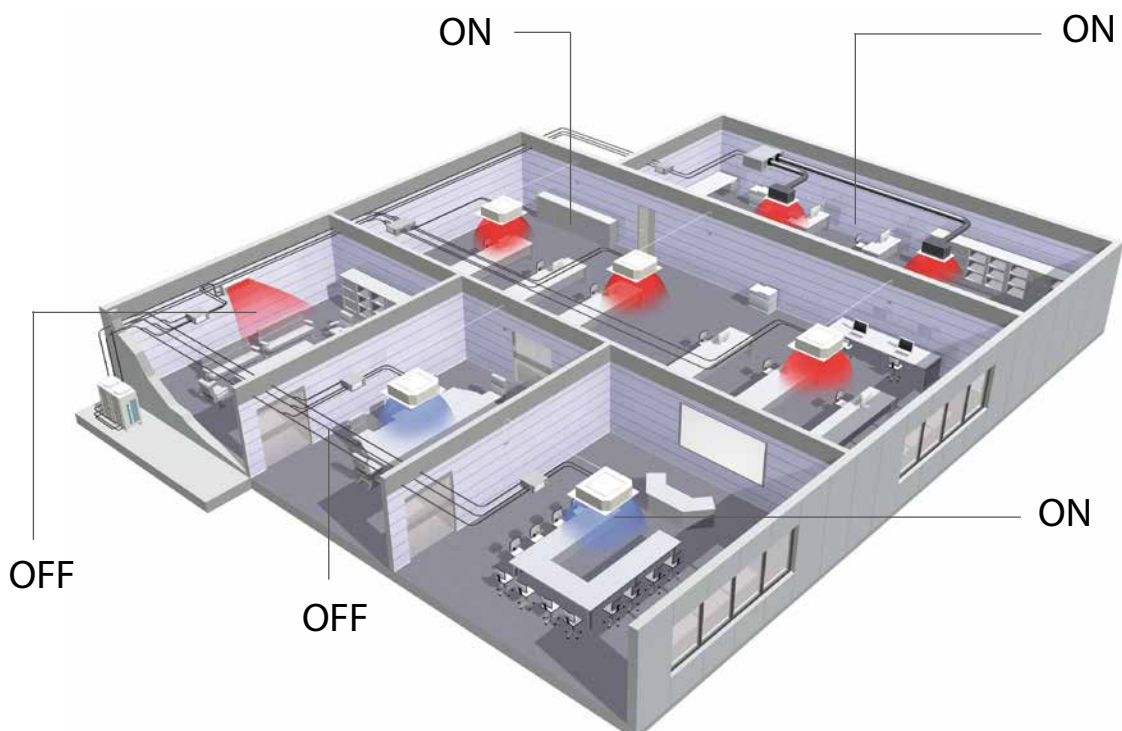


**-71%**  
potential global warming impact

### Precise zone control

VRV systems have low running costs because it permits each zone to be controlled individually.

That is, only those rooms that require air conditioning will be heated or cooled, while the system can be shut down completely in rooms where no air conditioning is required.



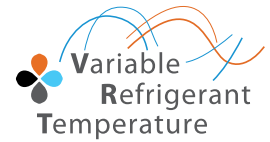


# Variable refrigerant temperature

## The biggest leap since the inverter compressor

Thanks to its revolutionary variable refrigerant temperature technology (VRT), VRV continuously adjusts both the inverter compressor speed and the refrigerant temperature in cooling AND heating, providing the necessary capacity to meet the building load with the highest efficiency at all times!

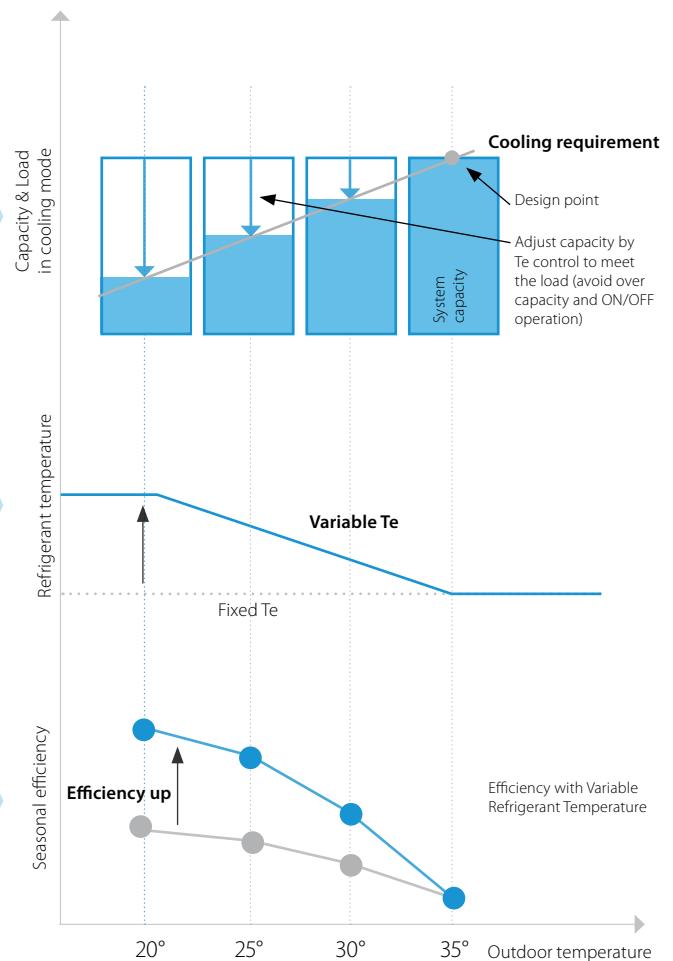
- › **Seasonal efficiency increased by 28%**
- › **The first *weather accommodating control* on the market**
- › **Customer comfort is assured thanks to higher outblow temperatures (preventing cold draughts)**



The colder it gets the lower the cooling need of the building

The lower the capacity need, the higher the refrigerant temperature can be

The higher the refrigerant temperature, the higher the efficiency



### How does it work?

#### VRF standard

Capacity is controlled only with the variation of the inverter compressor.

#### Daikin VRV

Variable Refrigerant Temperature control for energy saving in partial load condition.

The capacity is controlled by the inverter compressor and variation of the evaporating ( $T_e$ ) and condensing ( $T_c$ ) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

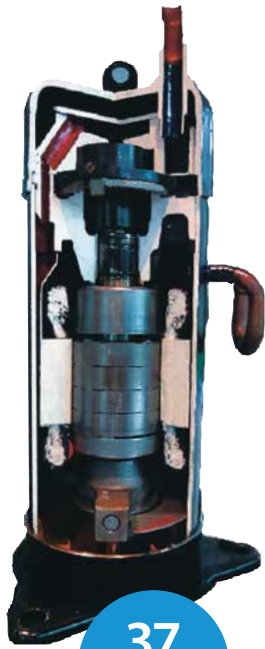
Evaporating temperature can vary between 3 and 16° which is the widest on the market.

### Success story

#### Real test: up to 46% less energy consumed

A field trial was carried out in a shop of a fashion chain in Germany and showed that the innovative Daikin VRV IV delivers dramatically better energy efficiency compared with previous models.

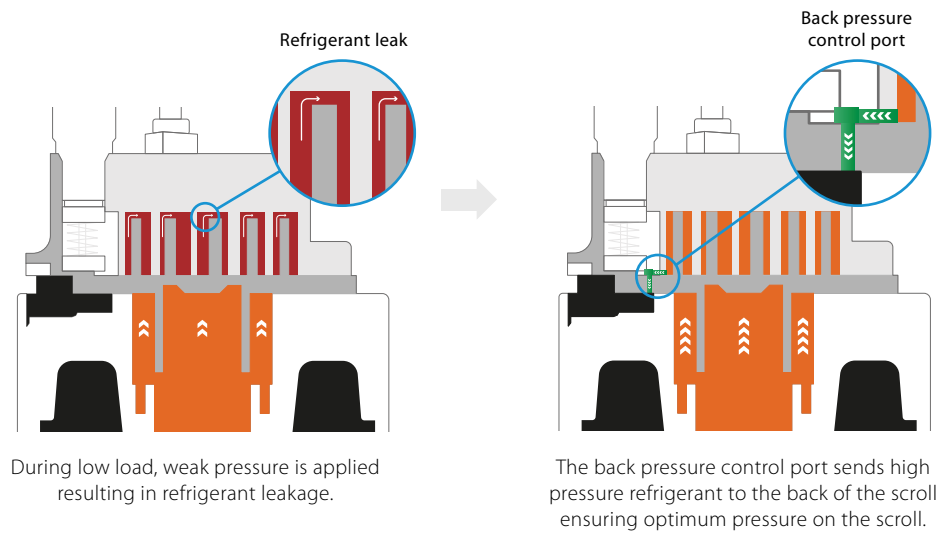
The trial results showed that the new VRV IV system consumed up to 60% less energy than the VRV III system, particularly during cooling. Overall energy savings during heating averaged 20%.



37 patents

## Inverter scroll compressor with back pressure control

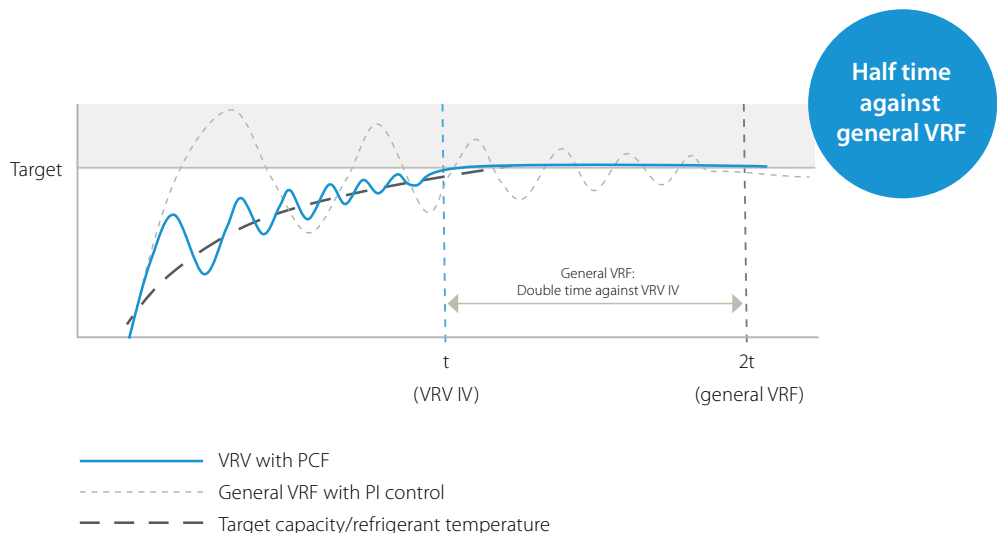
- › Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak from the high to low pressure side
- › Increased partial load efficiency



## Predictive Control Function (PCF)

- › Reaching targets faster
- › Reaching targets without overshooting, so there is no waste, resulting in improved efficiency

The large number of Daikin systems already in operation and which are monitored by our Daikin Cloud Service put us in the unique position of being able to analyse this data and develop the predictive control function.





# DC fan motor

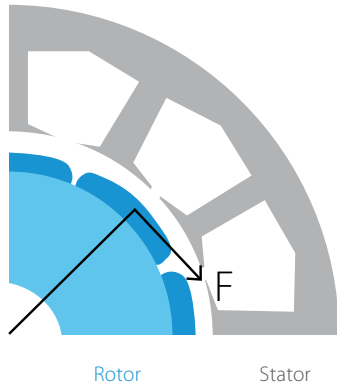
## Outer rotor DC motor for higher efficiency

- › Larger rotor diameter results in greater force for the same magnetic field, leading to better efficiency
- › Better control, resulting in more fan steps to match the actual capacity

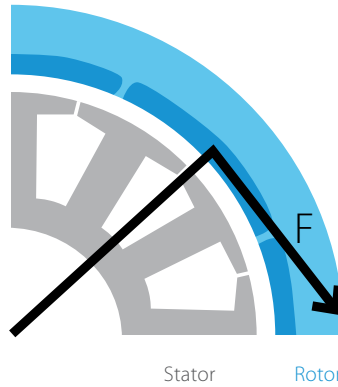
## Sine wave DC inverter

Optimizing the sine wave curve results in smoother motor rotation and improved motor efficiency.

Conventional motor with inner rotor



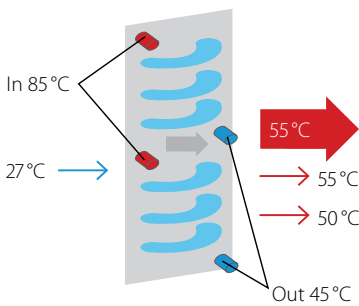
Daikin outer rotor



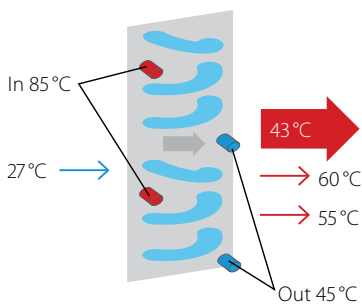
# E-Pass heat exchanger

Optimising the heat exchanger's path layout prevents heat being transferred from the overheated gas section to the sub-cooled liquid section which is a more efficient way to use the heat exchanger.

Standard heat exchanger

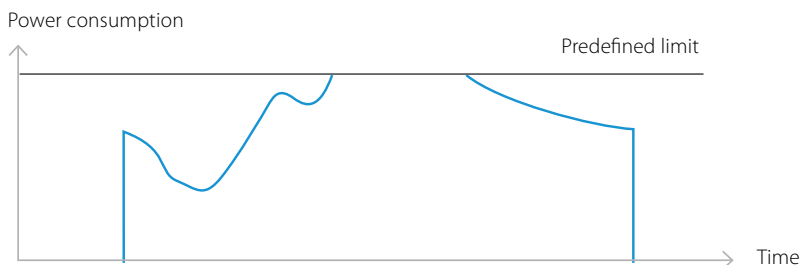


e-Pass heat exchanger



# I-demand function

Limit maximum power consumption. The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.



# Top reliability

- ⊕ Most extensive testing before new units leave the factory
- ⊕ Designed to perform

## Duty Cycling extends operation life

The cyclical start-up sequence of multiple outdoor units systems equalises compressor duty and extends operating life.



## Back-up function

In the event of a compressor malfunction another compressor or outdoor unit will take over in order to maintain 8 hour interim capacity, allowing time for maintenance or repair while comfort remains guaranteed.



Single outdoor unit with multiple compressors



Multi outdoor unit system

## Auto-cleaning filters

Auto cleaning filters enhance reliability thanks to clean air filters all the time.

Additionally clean filters reduce running costs and improve indoor air quality.



## Refrigerant-cooled PCB

- › Reliable cooling because it is not influenced by ambient air temperature
- › Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%



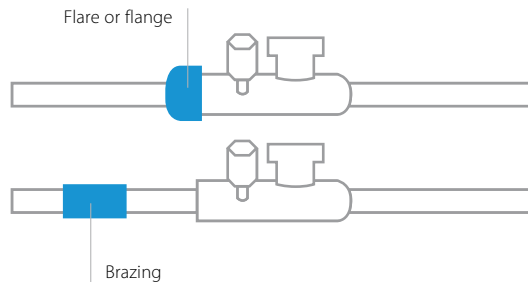
## Sequential Start

Up to 3 outdoor units can be connected to 1 power supply and can be turned on sequentially. This allows the number of breakers and their capacities to remain small and simplifies wiring (for models of 10HP or less).



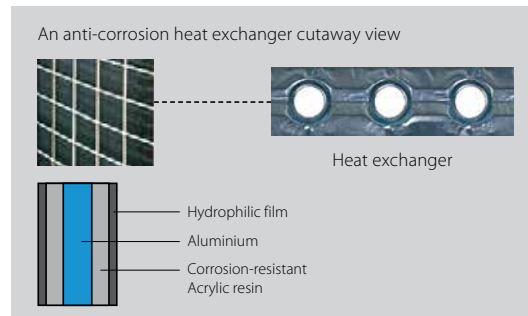
## Only brazed connections

All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment. Also the connection of the outdoor in the main pipe is brazed.



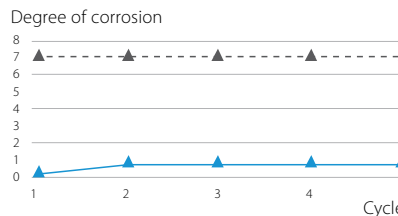
## Anti Corrosion Treatment

Special anti corrosion treatment of the heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion. The provision of rust proof steel sheet on the underside of the unit gives additional protection.



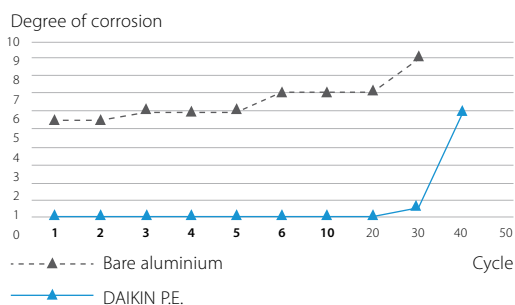
### Performed tests:

- › **VDA Wechseltest**
- › Contents of 1 cycle (7 days):
- › 24 hours salt spray test SS DIN 50021
- › 96 hours humidity cycle test KFW DIN 50017
- › 48 hours room temperature & room humidity testing period: 5 cycles



### Kesternich test (SO2)

- › contents of 1 cycle (48 hours) according to DIN50018 (0.21)
- › testing period : 40 cycles



# Comfort guaranteed at all times

## Continuous heating during defrost mode

VRV continues to provide heating even when in defrost mode, providing an answer to any perceived disadvantages of specifying a heat pump as a monovalent heating system.

- › Continuous indoor comfort ensured by the heat accumulating element and alternate defrost
- › An innovative alternative to traditional heating systems



### How does it work?

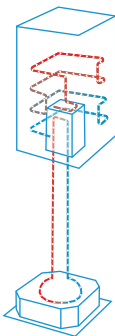
#### UNIQUE Heat accumulating element

For the VRV IV+ heat pump single unit systems a unique heat-accumulating element is used. This element, based upon phase change material, provides the energy to defrost the outdoor unit.

The outdoor unit coil is defrosted ...

... with the energy stored in the heat accumulating element ...

... so a comfortable temperature is maintained indoors.



Available on: RYYQ8-20U  
Water cooled VRV has no defrost cycles

### Alternate defrost

On all our multi unit systems only 1 outdoor coil is defrosted at a time, ensuring continuous comfort during the whole process.



the outdoor unit coil is defrosted ...

... one at the time ...

... so a comfortable temperature is maintained indoors

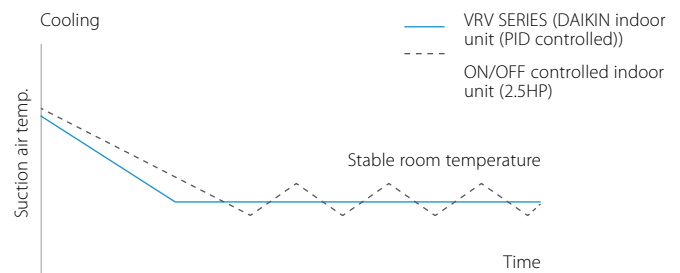
Available on: REYA10-28A, REYQ10-54U, RYYQ16-54U, RXYQQ16-42U and RQCEQ280-848P3

## Smart Control brings comfort

### Stable room temperature

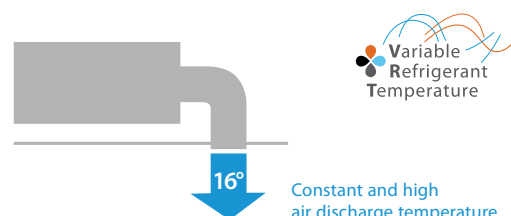
An electronic expansion valve continuously adjusts the refrigerant volume in respond to load variations of the indoor units. The VRV system thus maintains comfortable room temperatures at a virtually constant level, without the temperature variations typical of conventional ON/OFF control systems.

Note: the graph shows the data, measured in a test room assuming actual heating load. The thermostat can control stable room temperature at  $\pm 0.5^{\circ}\text{C}$  from set point.



### No more cold draught

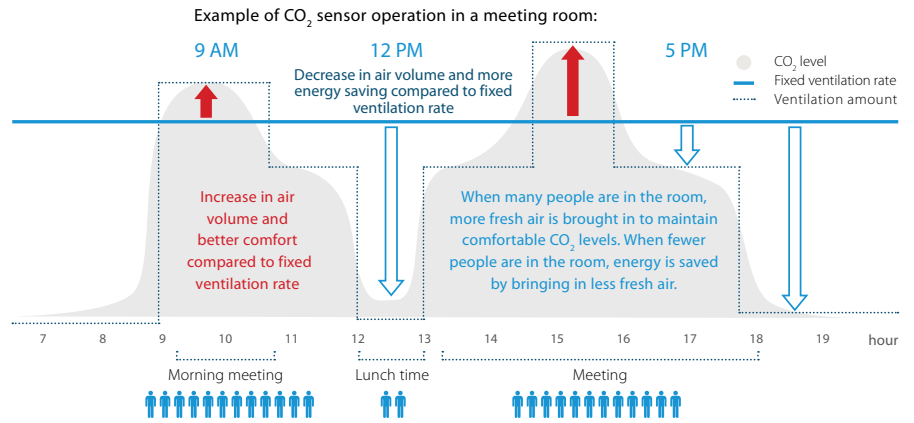
Automatic or manual adjustment of refrigerant temperature leads to higher outblow temperatures which avoid the cold draught coming from the indoor unit.





# Ensure optimal IAQ using CO<sub>2</sub> sensors

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO<sub>2</sub> sensor regulates the ventilation system to provide the needed fresh air to the room, avoiding over-ventilation and saving energy.



# Low operation sound level



## Whisper quiet indoor units

Daikin indoor units have very low sound operation levels, down to 19dB(A), making them ideal for sound sensitive areas as hotel bedrooms, etc.



Connectable to RYYQ-U, RXYQ-U, RXYSCQ-TV1, RXYSQ-TV9/TY9, RXYLQ-T, RWEYQ-T9

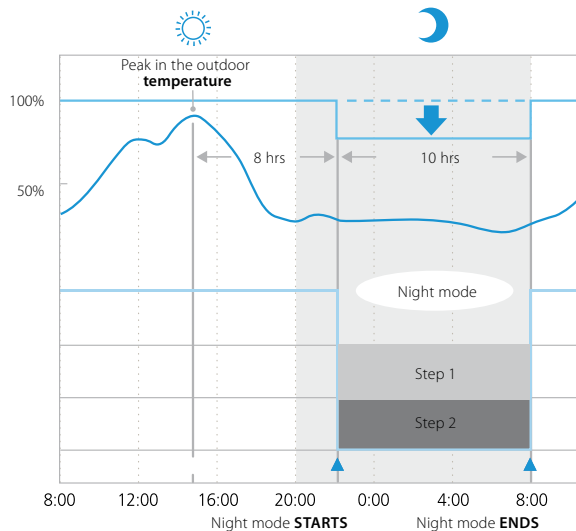
Connectable to all VRV heat pumps

# Outdoor unit sound reduction

For areas where there are stringent limitations to sound levels, the outdoor unit sound level can be automatically reduced to meet the requirement.

**To manually set the time for low noise operation you can use the external control adaptor DTA104A61/62/53.**

- Capacity\* %
- Load %
- Operation Sound dBA



Example for VRV IV heat pump, factory setting.

# Sound enclosure for VRV5

## EKLN140A

- > Sound reduction up to -10 dB(A) on Sound Power values
- > Dedicated Daikin option for VRV 5 RXYSA
- > Fully optimized and tested in Daikin Factory for guaranteed performance
- > Very low capacity and pressure drop thanks to separated air intake and discharge
- > Fast and easy installation & servicing

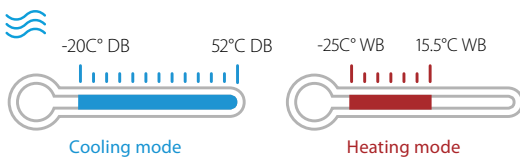


# Great design flexibility

## Wide operation range

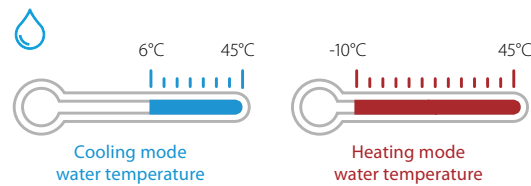
### Air cooled

The VRV system can be installed practically anywhere. VRV air cooled outdoor units can cool between -20°C DB and +52°C DB outdoor ambient and can be used as monovalent heating system between -25°C WB and +15.5°C WB.



### Water cooled

Standard water cooled outdoor units operation between 10°C and 45°C for both heating and cooling. In geothermal mode, the operation range is extended to -10°C\* during heating and 6°C during cooling. These units are not influenced by external conditions and function well in extreme climates.

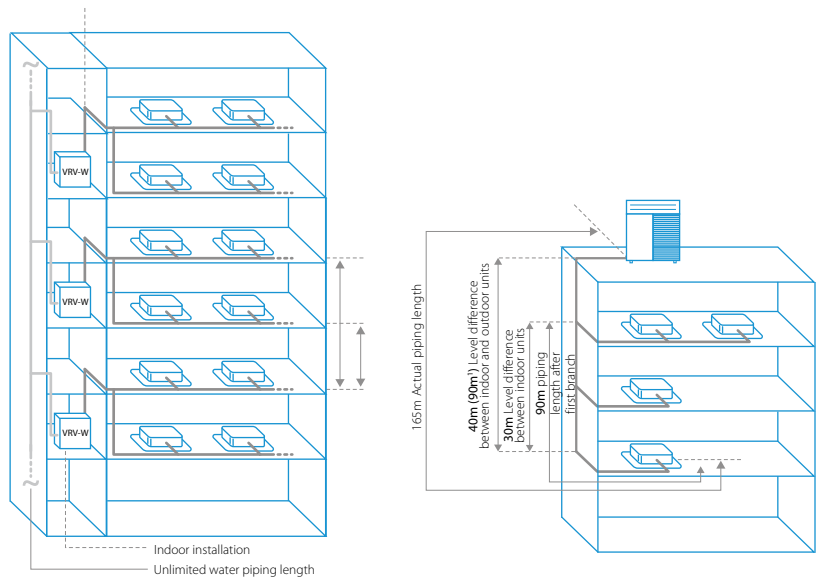


With the technical cooling function, the operation range in cooling of the VRV IV+ heat recovery system is extended from -5°C to -20°C, making it perfect for integrating server rooms.

\* Ethylene glycol should be added to the water when the water inlet temperature is below 5°C.

## Flexible piping design

The long piping lengths, high level differences and small refrigerant piping allows for a design with little limitations and leaving maximum space for lettable space.



### Example

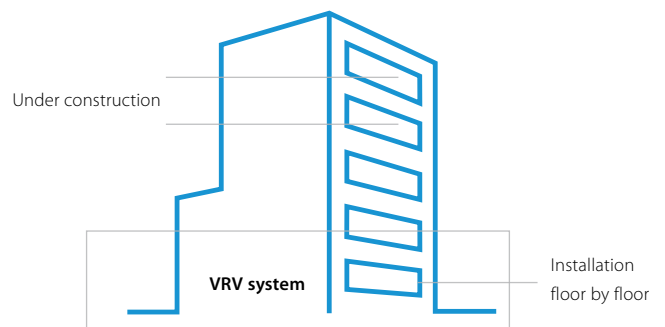
	Air cooled	Water cooled
Total piping length	1000 m	500 m
Longest length actual (Equivalent)	165 m (190 m) <sup>1</sup>	165 m (190 m)
Longest length after first branch	90 m <sup>2</sup>	40 m (90 m <sup>2</sup> )
Level difference between indoor and outdoor units	90 m <sup>1</sup>	50 m (40 m <sup>2</sup> )
Level difference between indoor units	30 m	30 m

<sup>1</sup> Contact your local dealer or consult technical literature for more information and restrictions

<sup>2</sup> In case outdoor unit is located below indoor units

## Phased installation

Installation of the VRV system can be implemented floor by floor, so that sections of the building can be put into use very quickly, or enabling the air conditioning system to be commissioned and operated in stages, rather than on final completion of the project.



# Indoor installation


## Air cooled

### Standard outdoor unit installed indoors

The VRV optimised fan blade shape increases output and reduces pressure loss. Together with the **high ESP setting (up to 78.4 Pa)**, it makes VRV outdoor units ideal for indoor installation using ducts.

### VRV IV i-series heat pump for indoor installation

The ultimate and unique solution from Daikin is to use the VRV IV i-series. This unit is optimised for indoor installation and is the most flexible solution, without the need for a large technical room to put the outdoor unit and it is complete invisible!

 [More details on page 90](#)

## Water cooled

- > Seamless integration in the surrounding architecture as you cannot see the unit
- > Highly suited for sound sensitive areas as there is no external operation sound
- > Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation



# Multiple tenants, one outdoor unit

The multi tenant function ensures that the entire VRV system does not shut down when the main power supply of an indoor is switched off.

This means that the indoor unit's main power supply can be turned off when a part of the building is closed or is being serviced without affecting the rest of the building.

## 2 solutions according to the needs:

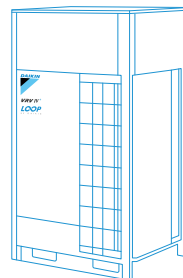
- > Service setting, without additional hardware: for service execution within 24 hours
- > PCB option: when tenants leave for a longer period (holiday) and the main power supply is shut down



# Compact and light

## No structural reinforcement necessary

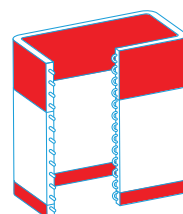
Thanks to the vibration-free and sufficient light construction of the outdoor units, floors do not need to be reinforced, reducing the overall cost of the building.



maximum  
**378 kg**  
for a 20HP unit

## 4-sided, 3-row heat exchanger

Thanks to the large surface of the heat exchanger (up to 235 m<sup>2</sup>) VRV units are compact, light and highly efficient.

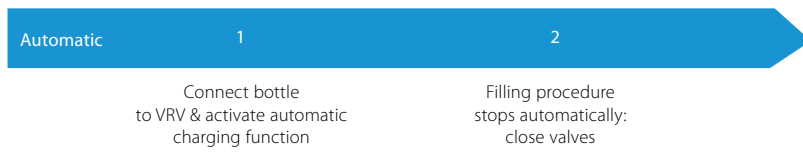


surface up to  
**235 m<sup>2</sup>**

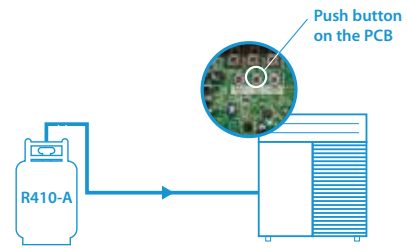
# Fast installation and commissioning

## Easy servicing

### Automatic charging & testing



After charging, pushing the test operation button initiates a check on the wiring, shut off valves, sensors and refrigerant volume.



If the temperature drops below 20°C\* manual charging is necessary.  
 \* 10°C for heat pump for cold regions  
 \* Available on REYQ-U, RYYQ-U, RXYQ-U, RQYQ-P, RXYQQ-U, RQCEQ-P3

### Did you know?

OPTIMAL CHARGE = OPTIMAL EFFICIENCY

<p><b>Planned installation</b> 64 m refrigerant piping</p> <p>↓</p> <p>calculation: <b>2.2 kg</b> extra refrigerant required</p>	<p>↔ 0.5 kg ↔</p>	<p><b>Real installation</b> 76 m refrigerant piping</p> <p>↓</p> <p><b>2.7 kg</b> extra refrigerant required in reality</p>
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10% undercharged

↓  
up to 25% capacity loss

↓  
33% more energy use

## Easy compliance to F-gas regulation

### No leak check requirement



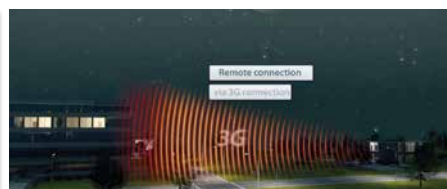
For the majority of VRV 5 S-series no leak check is needed as the total CO<sub>2</sub> eq. of the system is below 5 tonnes (total charge up to 7.4 kgs).

### Remote refrigerant containment check

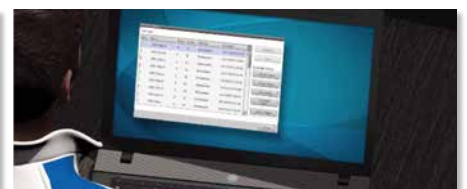
For systems with a total CO<sub>2</sub> eq. above 5 tonnes the refrigerant containment check can be done remotely via the intelligent Touch Manager.



Remotely set the time and start the refrigerant containment check when it is most convenient for you.



Connect to customer site via internet or 3G increasing customer satisfaction as there is no disruption to the air conditioning during business hours.



Check the report once the check has been done.

Available on REYQ-U, RYYQ-U, RXYQ-U. Next to remote checking, the function can also be activated on-site via a push button on the PCB.

When activating the refrigerant containment check, the unit switches into cooling mode and duplicates certain reference conditions based on memory data. The result indicates whether or not refrigerant leakage has occurred.

The refrigerant volume of the complete system is calculated based on the following data:

- > Outdoor temperature
- > Reference system temperatures
- > Reference system pressures
- > Refrigerant density
- > Types and number of indoor units



# 7-segment display

for quick and accurate error diagnosis

Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.

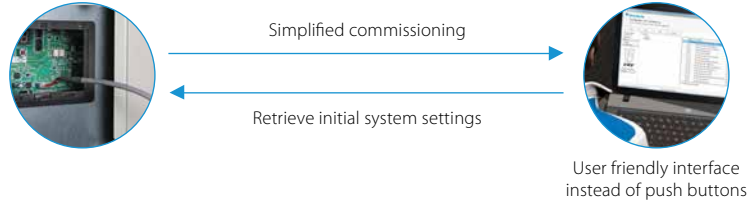


7 segment display and configurator available on: REYA-A, REYQ-U, RYYQ-U, RXYQ-U, RXYQQ-U.  
Only configurator available on: RXYSA-AV1/AY1, RXYSCQ-TV1, RXYSQ-TV9/TY9/TY1, SB.RKXYQ-T(8).

# VRV Configurator

Software for simplified commissioning, configuration and customisation

- > Graphical interface
- > Manage systems over multiple sites in exactly the same way
- > Retrieve initial settings



# Compact design

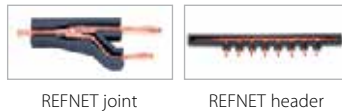
The compact design of the outdoor units is sufficient to allow them to be taken up to the top of a building in a commercial elevator, overcoming site transportation problem, particularly when outdoor units need to be installed on each floor.



# Daikin unified REFNET piping

The unified Daikin REFNET piping system is designed for simple installation.

Daikin Europe N.V. advises only to use Daikin REFNET piping system.



# Easy wiring - "Super Wiring" System

## Simplified wiring

- Shared use of wiring between indoor units, outdoor units and centralised remote control
- > Easy retrofit of centralised remote control
  - > Impossible to make incorrect connections thanks to non polarity wiring
  - > Sheathed wire can be used
  - > Unique total wiring length up to 2,000 m

## Cross wiring check

The cross wiring check function warns operatives of connection errors in inter unit wiring and piping.

## Auto Address Setting Function

Allows wiring between indoor and outdoor units, as well as group control wiring of multiple indoor units, to be performed without the bothersome task of manually setting each address.

\* auto address setting function is not available for centralized operation





# Continuing our path to lower CO<sub>2</sub> equivalent solutions



## BLUEVOLUTION

R-32

### Advantages of R-32

- › R-32 refrigerant has a lower Global Warming Potential and higher efficiency compared to R-410A, making it the most effective sustainable solution for VRF systems today, **greatly reducing the indirect CO<sub>2</sub> eq. impact and your ecological footprint.**
- › R-32 also has a 15% lower refrigerant charge than R-410A and being a **single component refrigerant it is easy to recover and reuse.**

## Support the decarbonisation of commercial buildings



Market-leading seasonal efficiency makes VRV5 more sustainable over its entire lifecycle, reducing the indirect CO<sub>2</sub> eq. impact



Specifically built for lower GWP R-32 refrigerant, greatly reducing the potential direct CO<sub>2</sub> impact with 71% compared to R-410A systems

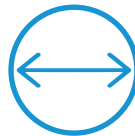


The perfect partner for BREEAM, LEED and other green building schemes

## Ultra-flexible climate control



Known R-410A piping flexibility to tackle any building



Widest range of dedicated R-32 indoor units on the market



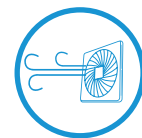
Integrates HRV ventilation units



Connectable to all known Daikin smart controls, including Onecta app



5 low sound steps





High ESP fans allowing concealed installation



## Shîrudo Technology truly sets VRV 5 apart

- › Complete peace of mind as Daikin ensures compliance to the IEC product standard for indoor units
- › Factory-integrated refrigerant control measures make the VRV 5 quick and flexible to design without the need for complex and time consuming calculations
- › For stress free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration

## VRV 5 outdoor unit overview

		Capacity class (kW)																														
Model	Product name	4	5	6	8	10	12	14	16	18	20	22	24	26	28	VRV indoor units	Residential indoor units	Hydrobox	HRV units VAM	HRV units EKVDX	AHU connection	Air curtains	Remarks									
Air-cooled heat recovery  <b>NEW &amp; UNIQUE VRV 5 heat recovery</b>	<ul style="list-style-type: none"> <li>Reduced CO<sub>2</sub> equivalent thanks to the use of lower GWP refrigerant R-32</li> <li>Top sustainability over the entire lifecycle</li> <li>'Free' heating through heat recovery</li> <li>Tackle small room applications thanks to Shirudo Technology</li> <li>The perfect personal comfort thanks to simultaneous cooling and heating</li> </ul>			●		●		●		●		●		●		○		○		○												
				REYA-A																												
Air-cooled heat pump  <b>UNIQUE VRV 5 S-series</b>	<ul style="list-style-type: none"> <li>Reduced CO<sub>2</sub> equivalent thanks to the use of lower GWP refrigerant R-32</li> <li>Top sustainability over the entire lifecycle</li> <li>Unique low-height single fan range</li> <li>Tackle small room applications thanks to Shirudo technology</li> </ul>			1~ ● ● ●																						○		○		○		<ul style="list-style-type: none"> <li>Standard total system connection ratio limit: 50 ~ 130%</li> </ul>
				RXYS-AV1 / AY1																						○		○		○		<ul style="list-style-type: none"> <li>Standard total system connection ratio limit: 50 ~ 130%</li> </ul>
<b>Cooling Capacity</b>				22.4 28.0 33.5 40.0 45.0 50.4 56.0 61.5 67.4 73.5 78.5																												
<b>Heating Capacity</b>				25.0 31.5 37.5 45.0 50.0 56.5 63.0 69.0 75.0 82.5 87.5																												

● Single unit, ● Multi combination


## Sound enclosure for VRV5 S-series

- ✓ Specially designed for VRV 5
- ✓ Fully optimized and tested in Daikin Factory
- ✓ Outdoor unit sound reduction up to -10 dB(A) on Sound Power values
- ✓ Very low capacity and pressure drop
- ✓ Fast & easy installation & servicing



 -10dB(A)!

## Branch selector (BS box) overview

		Capacity class (kW)						
Model	Product name	4	6	8	10	12		
Multi port BS box	<ul style="list-style-type: none"> <li>Unique range of Branch Selector boxes integrating Shirudo Technology</li> </ul>			● ● ● ● ●				
BS-A14AV1B								





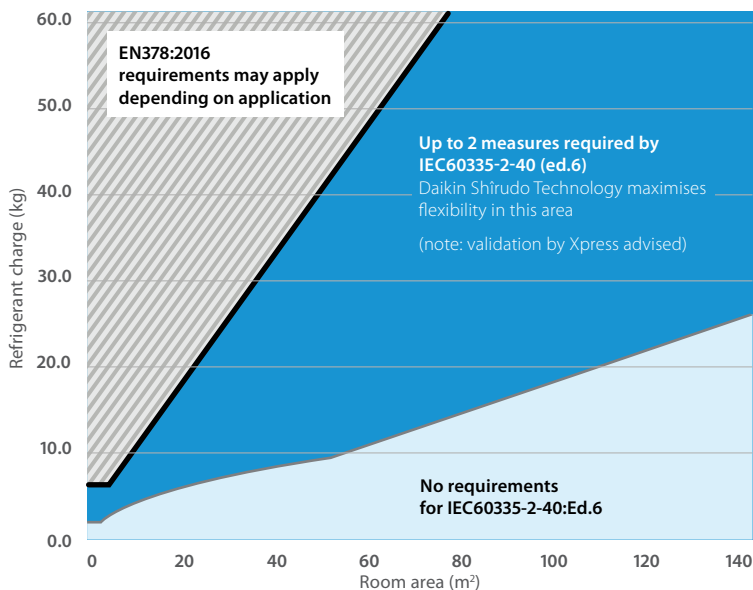
# Did you know ...

## different standards regarding safety exist?

Refrigerants can be classified according to 2 safety groups:

- › Flammability (1, 2L, 2, 3): covered by the specific heat pump standard **IEC60335-2-40 (Ed. 6)** as it prevails over EN378:2016
- › Toxicity (A or B): covered by the generic standard on refrigerants **EN378:2016**.

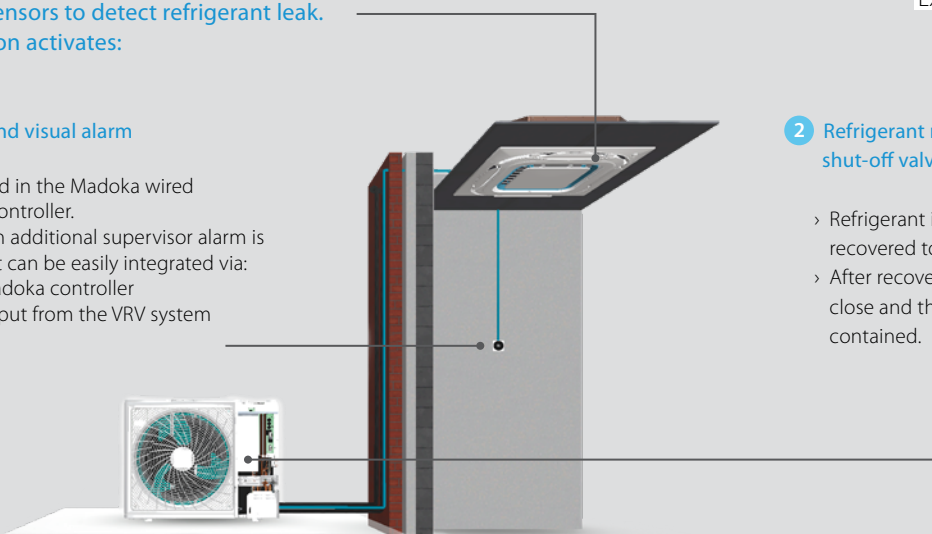
Shirudo Technology focuses on offering maximum flexibility within the IEC60335-2-40 (Ed.6) requirements as limitations for flammability of A2L refrigerants are stricter than the ones for toxicity.



### Integrated sensors to detect refrigerant leak. Leak detection activates:

#### 1 Audible and visual alarm

- › Integrated in the Madoka wired remote controller.
- › In case an additional supervisor alarm is needed it can be easily integrated via:
  - › The Madoka controller
  - › An output from the VRV system



#### 2 Refrigerant recovery and shut-off valves

- › Refrigerant is automatically recovered to the outdoor unit.
- › After recovery, shut-off valves close and the refrigerant is safely contained.

Example for VRV 5 S-series



# Peace of mind



With Shîrudo Technology, Daikin ensures compliance to the product standard IEC60335-2-40 (Ed. 6) for indoor units. With factory-integrated refrigerant control measures, these systems are also the quickest and most flexible to design.

There is **no need for complex and time consuming calculations**, even for small room applications. And BSSV boxes come with a ventilated enclosure for quick and simple integration of any potential additional measures – making installation in demanding spaces easier than ever.

For stress free design of any commercial building, validate your project in our Xpress software, featuring floor plan integration.

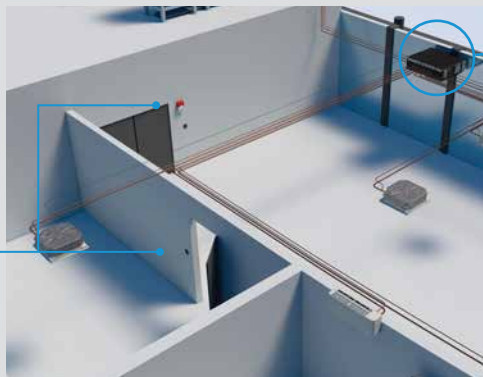
## Refrigerant control measures factory-integrated

Shîrudo Technology includes 2 factory measures and sensors built into a VRV 5 system.

Integrated sensors to detect refrigerant leak.  
Leak detection activates:

### 1 Audible and visual alarm

- › Integrated in the Madoka wired remote controller
- › In case an additional supervisor alarm is needed it can be easily integrated



Example for VRV 5 Heat Recovery

### 2 Refrigerant recovery and shut-off valves

- › Shut off valves of the affected refrigerant branch are closed, containing the leak
- › The rest of the system remains in operation

## Compliance taken care of

- › No study or calculations needed on where and how to install outdoor or indoor units.
- › No need for studies to decide if and what safety measures are required.
- › Third party CB certified by a notified body (SGS CEBEC).

## Automatic, real time leak detection and refrigerant containment controls

- › Fully compliant to product standard (IEC60335-2-40 (Ed.6)), reducing the risk of direct CO<sub>2</sub> eq. impact from a refrigerant leak.
- › Real time leak detection sensors, triggering refrigerant containment measures in the unlikely event of a leak.
- › No leak check requirement for majority of VRV 5 S-series installations (up to 7,4 kg of refrigerant charge) and reduced intervals of leak check for bigger installations.

(1) Refer to Xpress selection software to ensure compliance to specific product standard. Field supplied duct and fan may be required to install the BS box in very small spaces.

Check out the Shîrudo Technology video!



Purpose-built to support the decarbonisation of commercial buildings

**VRV 5**  
**BLUEVOLUTION**



Completely redeveloped BS box with  
 **SHIRUDO**  
TECHNOLOGY



Control all indoor units via app

**NEW**

**NEW**

**NEW**

+ 50 class model **NEW**

**NEW**

# VRV 5 Heat Recovery

## Greatly reducing the CO<sub>2</sub> footprint of buildings

- › Lower GWP R-32 refrigerant
- › Market-leading, real life seasonal efficiency
- › Highly efficient 3-pipe heat recovery

## Maximum design flexibility

- › Installation in rooms down to 10 m<sup>2</sup> without any additional measures thanks to **Shirudo technology**
- › Easy to select thanks to VRV Xpress floorplan support
- › Completely redesigned BSSV boxes for faster installation and easier servicing

## Market-leading portfolio

- › Widest range of dedicated R-32 VRV outdoor and indoor units in the market!
- › Control IAQ with integration of ventilation units

# Advantages

## of 3-pipe technology

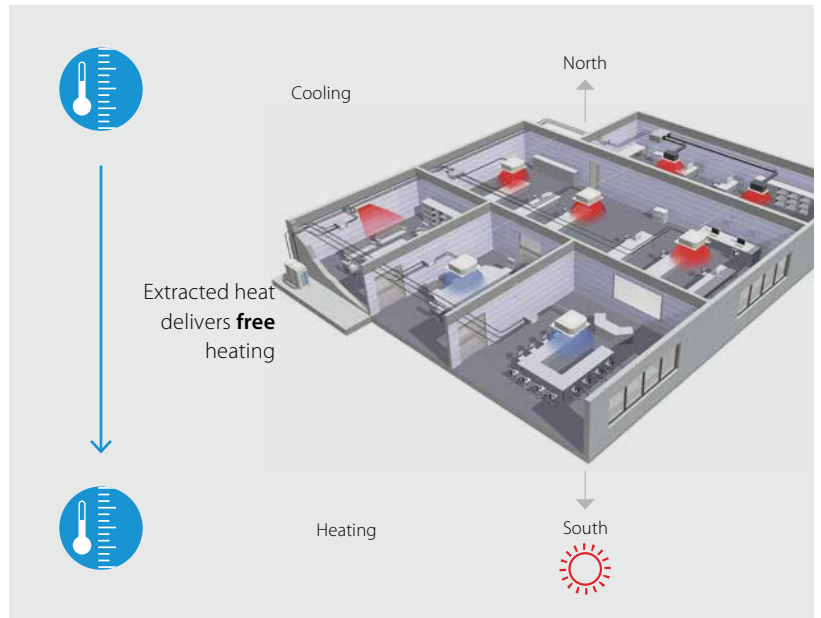
### “Free” heat available

An integrated heat recovery system reuses heat from offices and server rooms to warm other areas, minimizing heat waste

### Maximum comfort

A VRV heat recovery system allows simultaneous cooling and heating.

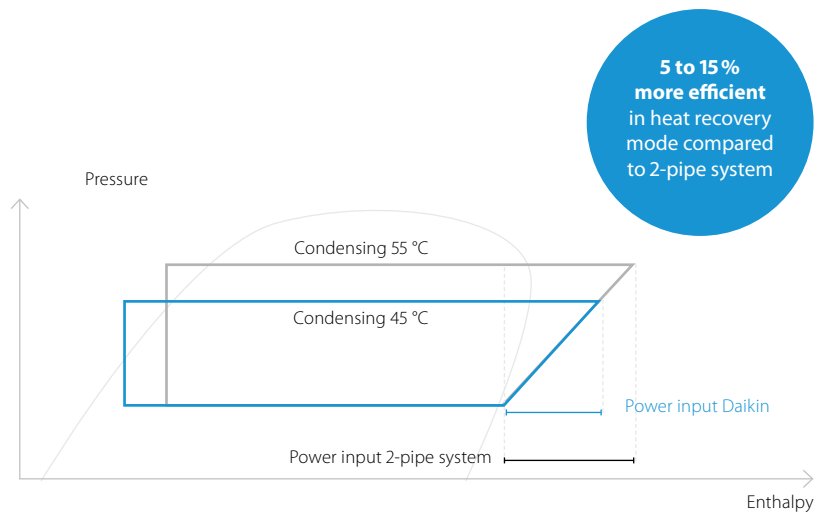
- › For hotel guests, this means they can freely choose between cooling or heating to create the perfect environment.
- › For offices, it means a perfect working indoor climate for both north and south-facing offices.



### More “free” heat

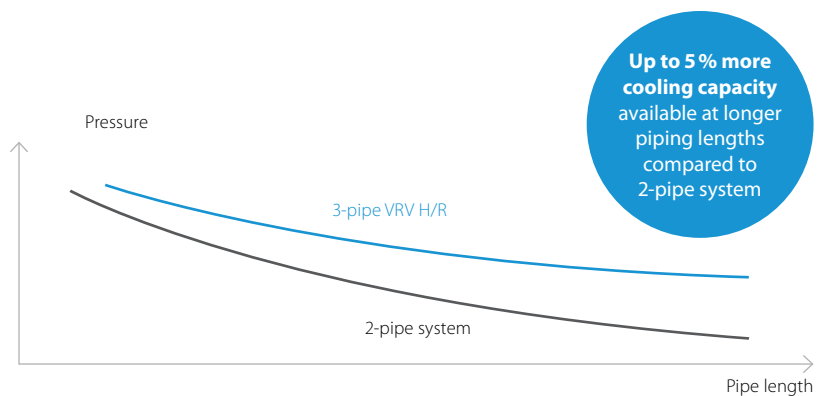
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

In a 2-pipe system, gas and liquid travel as a mixture so the condensing temperature needs to be higher in order to separate the mixed gas and liquid refrigerant. The higher condensing temperature means more energy is used to recover heat resulting in lower efficiency.



### Lower pressure drop means more efficiency

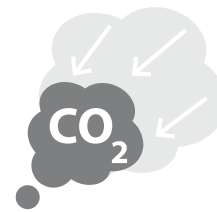
- › Smooth refrigerant flow in 3-pipe system thanks to 2 smaller gas pipes results in higher energy efficiency
- › Disturbed refrigerant flow in large gas pipe on 2-pipe system results in larger pressure drop



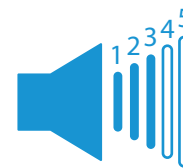
# VRV 5 Heat Recovery

Purpose-built to support the decarbonisation of commercial buildings

- › Reduced CO<sub>2</sub> equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- › Single component refrigerant, easy to re-use and recycle
- › Greatest sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency up to  $\eta_{s,c}$  cooling: 324,5%
- › "Free" heating through efficient 3-pipe heat recovery, transferring heat from areas requiring cooling to areas requiring heating
- › Tackle small room applications without any additional measures, thanks to Shīrudo Technology
- › Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- › Simultaneous cooling and heating for the perfect personal comfort of guests/tenants
- › Like for like R-410A installation flexibility with piping lengths up to 165 meters and a total length of 1,000 meters
- › Smaller piping diameters reducing raw material use and cost
- › Sound pressure down to 40 dB(A) thanks to 5 low sound steps
- › ESP up to 78 Pa to allow ducting
- › Wide operation range of up to +46°C in cooling and down to -20°C in heating



Lower CO<sub>2</sub> equivalents



5 low sound steps

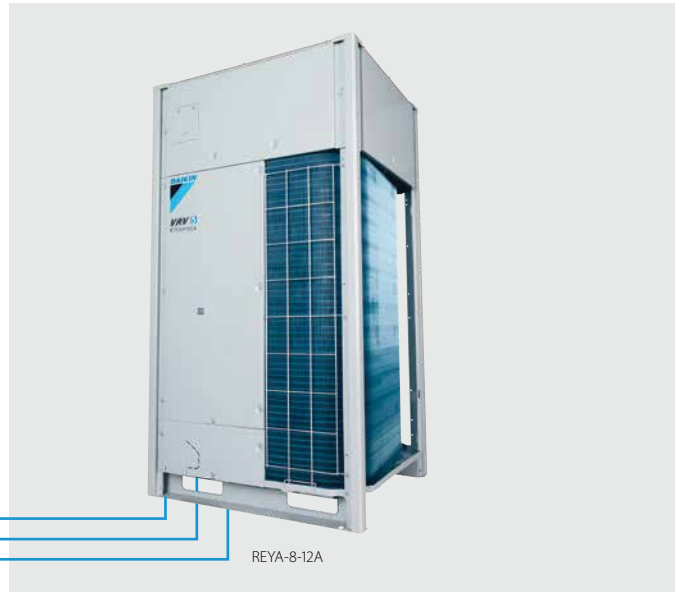
More details and final information can be found by scanning or clicking the QR codes.



REYA-A

Outdoor unit				REYA	8A	10A	12A	14A	16A	18A	20A	
Capacity range				HP	8	10	12	14	16	18	20	
Recommended combination					4 x FXSA50A2VEB	4 x FXSA63A2VEB	6 x FXSA50A2VEB	1 x FXSA50A2VEB + 5 x FXSA63A2VEB	4 x FXSA63A2VEB + 2 x FXSA80A2VEB	3 x FXSA50A2VEB + 5 x FXSA63A2VEB	2 x FXSA50A2VEB + 6 x FXSA63A2VEB	
Cooling capacity	Prated,c		kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0		
Heating capacity	Prated,h		kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0		
	Max.	6°CWB	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0		
$\eta_{s,c}$			%	279.6%	271.7%	273.2%	298.3%	277.4%	274.8%	259.6%		
$\eta_{s,h}$			%	161.1%	170.4%	170.9%	162.2%	162.1%	170.0%	161.4%		
SEER				7.1		6.9		7.5	7.0	6.9	6.6	
SCOP				4.1		4.3		4.1		4.3	4.1	
Maximum number of connectable indoor units									64			
Indoor index connection	Min.			100.0	125.0	150.0	175.0	200.0	225.0	250.0		
	Max.			260.0	325.0	390.0	455.0	520.0	585.0	650.0		
Dimensions	Unit	HeightxWidthxDepth	mm	1,685x930x765				1,685x1,240x765				
Weight	Unit		kg	230				314		317		
Sound power level	Cooling	Nom.	dBA	78.3	78.8	82.5	78.7	83.7	83.4	87.9		
	Heating	Prated h	dBA	79.4	80.7	83.3	82.9	86.3	85.1	89.6		
Sound pressure level	Cooling	Nom.	dBA	56.3	58.0	60.8	58.1	64.4	62.9	66.6		
Operation range	Cooling	Min.~Max.	°CDB					-5.0~+46.0				
	Heating	Min.~Max.	°CWB					-20.0~+15.5				
Refrigerant	Type/GWP							R32 / 675				
	Charge		kg/TCO2Eq	9.0 / 6.08				10.6 / 7.16				
Piping connections	Liquid	OD	mm	9.52				12.7				
	Gas	OD	mm	19.1				22.2				
	HP/LP gas	OD	mm	15.9				19.1				
	Total piping length	System Actual	m	1,000								
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)		A	-								





Completely redesigned BSSV boxes for faster installation and easier servicing (see page 466)



Widest R-32 VRV range in the market

Outdoor unit System			REYA	10A	13A	16A	18A	20A	22A	24A	26A	28A	
System	Outdoor unit module 1		REMA5A			REYA8A			REYA10A	REYA8A	REYA12A		
	Outdoor unit module 2		REMA5A	REYA8A		REYA10A	REYA12A		REYA16A	REYA14A	REYA16A		
Capacity range	HP		10	13	16	18	20	22	24	26	28		
Recommended combination			-										
Cooling capacity	Prated,c	kW	28	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5		
Heating capacity	Prated,h	kW	28	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5		
	Max.	6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5		
ηs,c			-										
ηs,h			-										
SEER			-										
SCOP			-										
Maximum number of connectable indoor units			64										
Indoor index connection	Min.		125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0		
	Max.		325.0	423.0	520.0	585.0	650.0	715.0	780.0	845.0	910.0		
Piping connections	Liquid	OD	mm	9.52									
	Gas	OD	mm	19.1	22.2			12.7			28.6		
	HP/LP gas	OD	mm	15.9	19.1					22.2			
	Total piping length	System Actual	m	1,000									
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/380-415									
Current – 50Hz	Maximum fuse amps (MFA)		A	-									
<b>Outdoor unit module</b>			<b>REMA</b>				<b>5A</b>						
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x930x765								
Weight	Unit		kg		230								
Sound power level	Cooling	Nom.	dBA		78.3								
	Heating	Prated h	dBA		79.4								
Sound pressure level	Cooling	Nom.	dBA		56.3								
Operation range	Cooling	Min.~Max.	°CDB		-5.0~46.0								
	Heating	Min.~Max.	°CWB		-20.0~15.5								
Refrigerant	Type/GWP				R32 / 675								
	Charge		kg/TCO2Eq		9.0 / 6.08								
Power supply	Phase/Frequency/Voltage		Hz/V		3N~/50/380-415								
Current – 50Hz	Maximum fuse amps (MFA)		A		-								

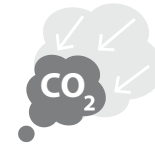
Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Contains fluorinated greenhouse gases | \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

\*Note: blue cells contain preliminary data

# Multi branch selector (BSSV) for VRV 5 Heat Recovery

Specifically developed for lower GWP R-32

- › **Reduced CO<sub>2</sub> equivalent** thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- › Unique range of multi BS boxes allowing **efficient 3-pipe** heat recovery
- › No limitation on room size, thanks to **Shîrudo Technology** (1)  
The integrated shut-off valves in the BSSV box ensure that in case of a refrigerant leak only the specific branch is closed off.



Reduced CO<sub>2</sub> equivalent

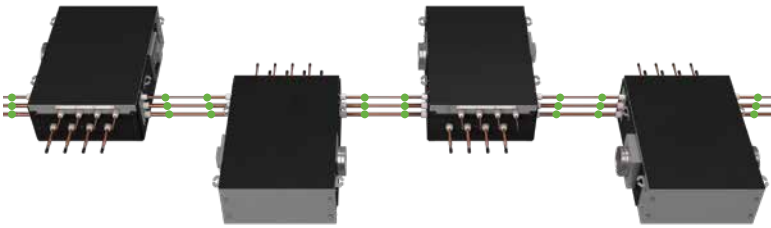


Flexibility to take care of every room

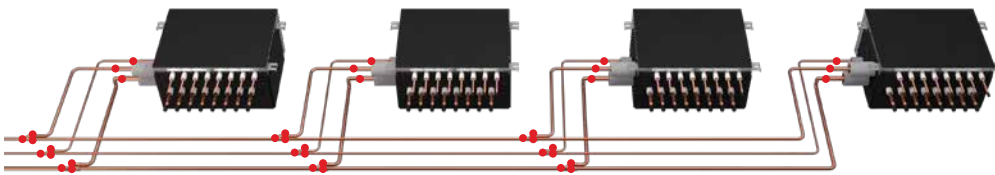
## Completely redesigned for faster installation and easier servicing

- › Faster installation thanks to **Refrigerant Flow Through** reducing the number of brazing points and joint kits

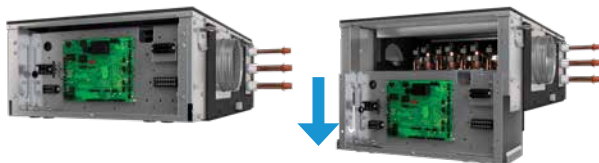
VRV 5: only 24 brazings point and no joint kits



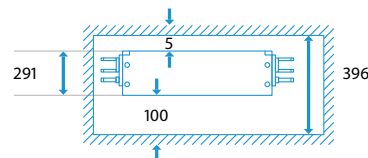
VRV 5: 39 brazing points and 3 joint kits



- › Easy servicing in false ceilings thanks to **sliding down PCB**

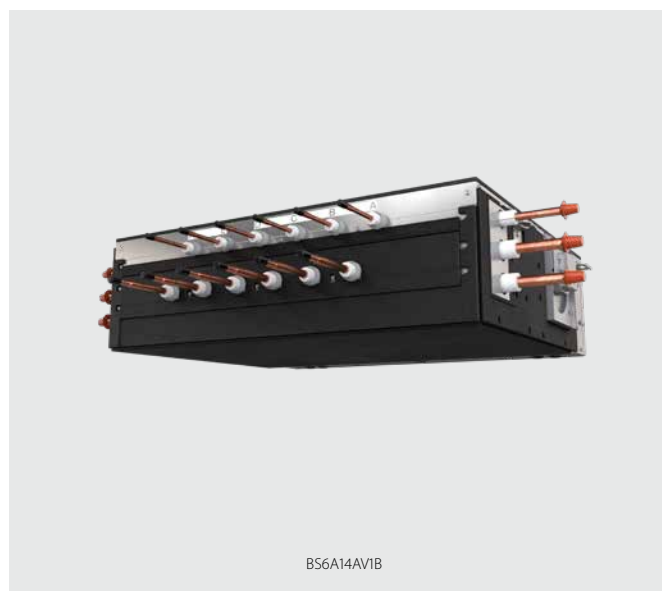


- › Limited ceiling void required as the box can be installed at just 5mm from the ceiling



(1) Refer to Xpress selection software to ensure compliance to specific product standard. Field supplied duct and fan might be required to install the BS box in very small spaces

- › Unique range of multi BS boxes allowing efficient 3-pipe heat recovery
- › **NEW** No limitation on room size, thanks to Shirudo Technology (1)
- › **NEW** Faster installation thanks to Refrigerant Flow Through reducing the number of brazing points and joint kits
- › **NEW** Easy servicing in false ceilings thanks to sliding down PCB
- › **NEW** Limited ceiling void required as the box can be installed at just 5mm from the ceiling
- › **NEW** Quick on-site settings, indication of service parameters and easy read out of errors thanks to 7 segment display
- › Up to 16kW capacity available per port
- › Connect up to 250 class unit (28kW) by combining 2 ports
- › No limit on unused ports allowing phased installation
- › Faster installation thanks to open port connection
- › Allows multi tenant applications
- › Connectable to REYA-A heat recovery units



More details and final information can be found by scanning or clicking the QR codes.



BS-A14AV1B

Branch selector		BS	4A14AV1B	6A14AV1B	8A14AV1B	10A14AV1B	12A14AV1B
Maximum number of connectable indoor units			20	30	40	50	60
Maximum number of connectable indoor units per branch					5		
Number of branches			4	6	8	10	12
Maximum capacity index of connectable indoor units			400	600		750	
Maximum capacity index of connectable indoor units per branch			140 (250 if 2 ports are combined)				
Dimensions	Unit	HeightxWidthxDepth	mm	275x600x843	275x1,000x843		275x1,400x843
Weight	Unit		kg	40	60	65	85
Casing	Material			Galvanised steel plate			
Piping connections	Outdoor unit	Liquid	OD	mm	15.9 (2)		
		Gas	OD	mm	22.2 (2)		
		Discharge gas	OD	mm	22.2 (2)		
	Indoor unit	Liquid	OD	mm	6.4 / 9.52 (3)		
		Gas	OD	mm	9.52 / 12.7 (3) / 15.9 (3)		
	Drain				VP20 (I.D. 20/O.D. 26)		
Sound absorbing thermal insulation				Urethane foam, polyethylene foam			
Power supply	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-440			
	Maximum fuse amps (MFA)		A	15			

Contains fluorinated greenhouse gases | (1) Refer to Xpress selection software to ensure compliance to specific product standard. Field supplied duct and fan might be required to install the BS box in very small spaces | (2) Accessory pipes will be added to allow connection of all possible piping diameters according to piping rules | (3) Can be used by cutting pipes

\*Note: blue cells contain preliminary data

# VRV 5 S-series heat pump

**VRV 5**  
BLUEEVOLUTION

Lower CO<sub>2</sub> equivalent and  
market-leading flexibility



Control systems



Indoor units  
VRV type indoor units



Ventilation  
Heat Reclaim ventilation  
ALB/VAM/VKM



RXYSA-AV1\_AY1

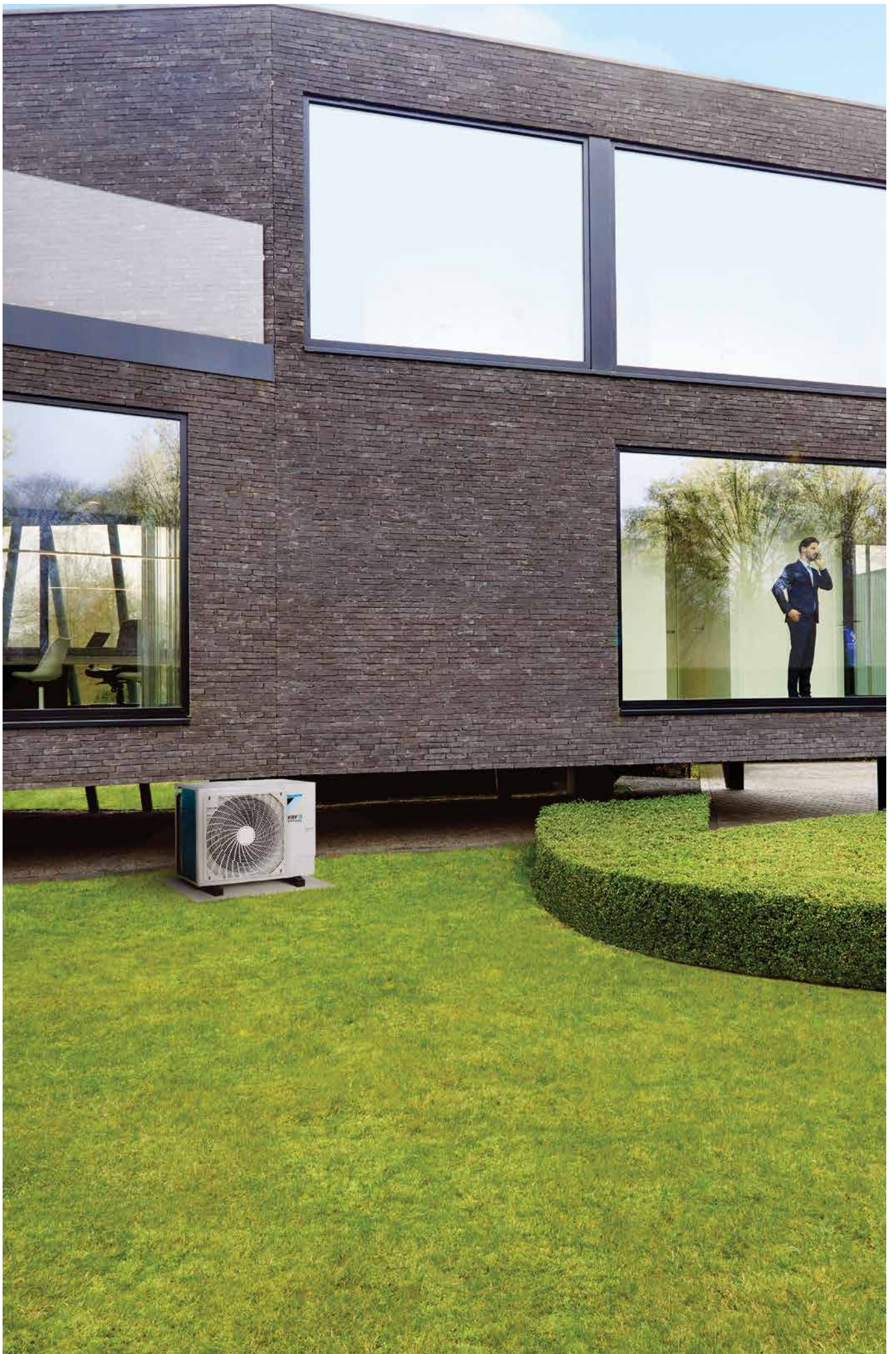
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## Life is more rewarding with the new VRV 5.

Our new all-round performer covers all of your mini VRV applications in Daikin's most sustainable solution.

- › **Maximum flexibility** allowing installation in rooms down to 10 m<sup>2</sup> thanks to Shirudo technology
- › **Top sustainability** over the entire lifecycle thanks to low GWP R-32 refrigerant and market-leading real life seasonal efficiency
- › **Ergonomic serviceability** and handling, thanks to wide access area to easily reach components within low-profile single fan casing
- › **Best-in-class design versatility** with five sound pressure levels down to 39 dB(A) and automatic ESP setting up to 45 Pa allowing ductwork
- › **Geared for comfort** with intuitive online and voice controls plus a new 10 class indoor unit for small rooms







# Next generation **VRV**

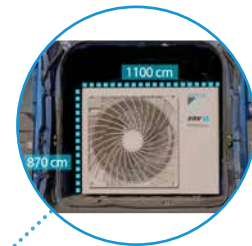


## New asymmetric fan design

- › Two high ESP settings
- › Low sound levels

## Compact dimensions

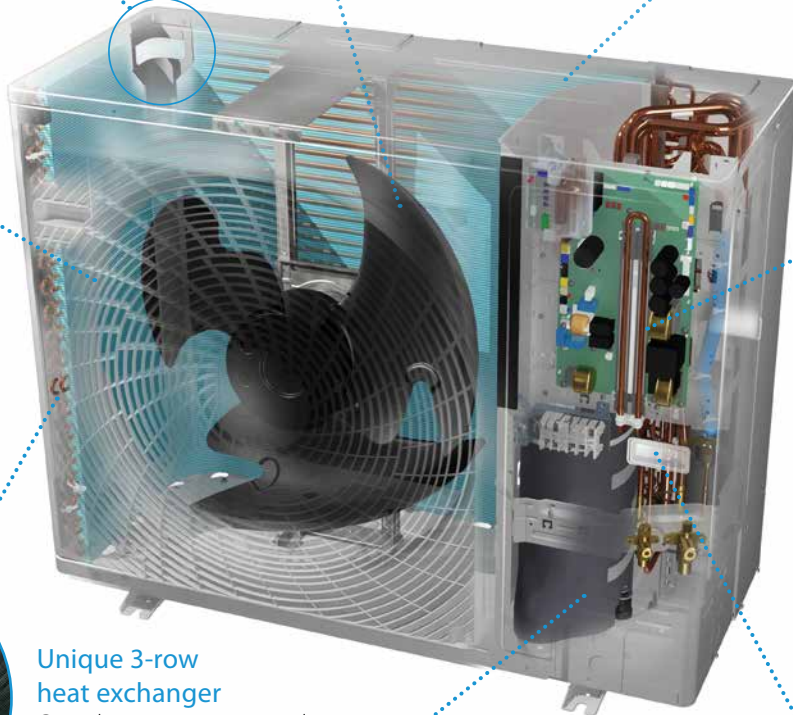
Easy to transport thanks to compact size and single-fan design



New casing design with 4 handles for easy carrying

## Specially designed grille

- › Low pressure drop
- › No risk for accidental reach of the fan



## Refrigerant cooled PCB

With integrated:

- › cool/heat selector input
- › 7-segment display for quicker and more precise error and setting reading

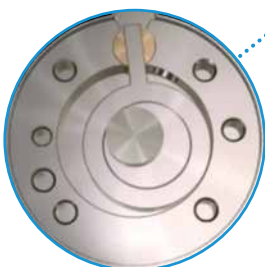
## New stop valves

- › Repositioned to allow front or side connection
- › Brazed for increased reliability



## Unique 3-row heat exchanger

Contributes to top seasonal efficiency



## Unique Daikin swing compressor

- › No abrasion possible
- › No refrigerant leak possible
- › High seasonal efficiencies



# VRV 5 S-series

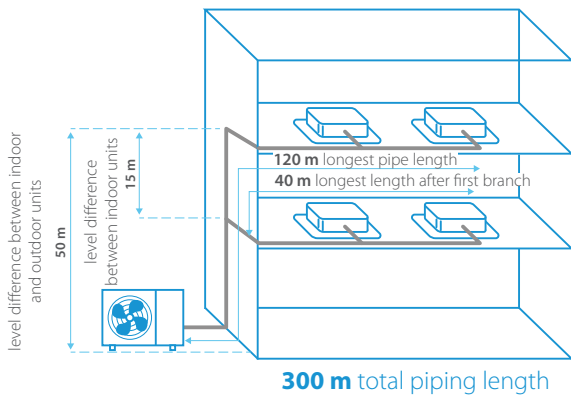
## Lower CO<sub>2</sub> equivalent and market-leading flexibility

- › Reduced CO<sub>2</sub> equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- › Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- › Low-height single fan range
- › Easy to transport thanks to lightweight and compact design
- › Wide access area to easily reach all key components
- › Tackle small room applications without any additional measures, thanks to Shirudo technology
- › Specially designed indoor units for R-32, ensuring low sound and maximum efficiency

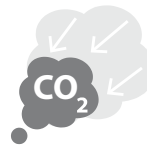


RXYS-AV1\_AY1

Only **869mm** high!



300 m total piping length



Reduced CO<sub>2</sub> equivalent



Flexibility to take care of every room



Already fully compliant to LOT 21 - Tier 2  
Published data with real-life indoor units

More details and final information can be found by scanning or clicking the QR codes.



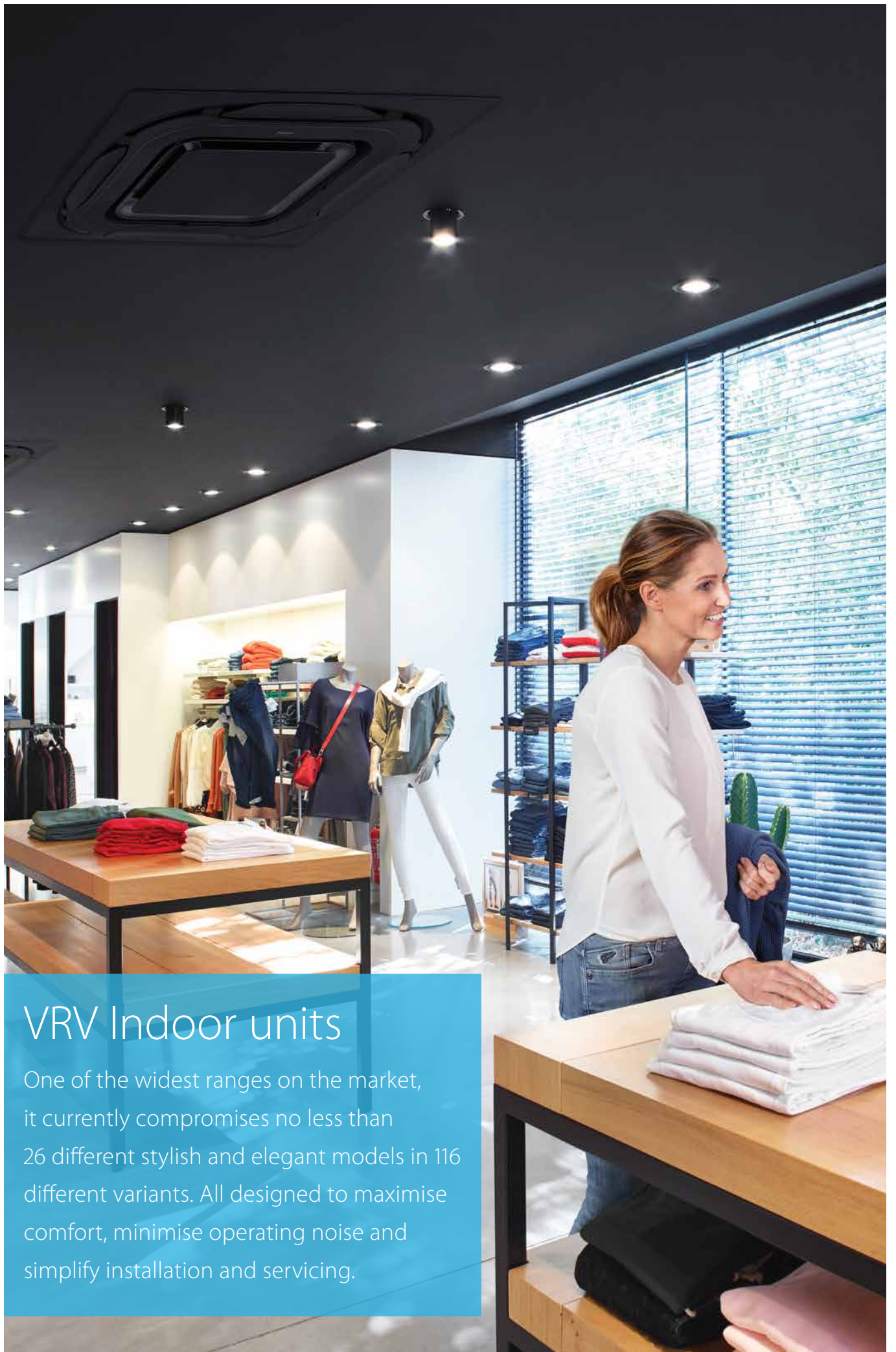
RXYS-AV1



RXYS-AY1

Outdoor unit		RXYS/RXYS	4AV1	5AV1	6AV1	4AY1	5AY1	6AY1	
Capacity range		HP	4	5	6	4	5	6	
Cooling capacity	Prated,c	kW	12.1	14.0	15.5	12.1	14.0	15.5	
Heating capacity	Prated,h	kW	12.1	14.0	15.5	12.1	14.0	15.5	
	Max. 6°CWB	kW	14.2	16.0	18.0	14.2	16.0	18.0	
Recommended combination			3 x FXSA25A2VEB + 1 x FXSA32A2VEB	4 x FXSA32A2VEB	2 x FXSA32A2VEB + 2 x FXSA40A2VEB	3 x FXSA25A2VEB + 1 x FXSA32A2VEB	4 x FXSA32A2VEB	2 x FXSA32A2VEB + 2 x FXSA40A2VEB	
ηs,c		%	324.5	306.1	301.0	312.5	294.8	289.9	
ηs,h		%	200.5	185.7	183.6	193.1	178.8	176.8	
SEER			8.2	7.7	7.6	7.9	7.4	7.3	
SCOP			5.1		4.7	4.9		4.5	
Maximum number of connectable indoor units			13 (1)	16 (1)	18 (1)	13 (1)	16 (1)	18 (1)	
Indoor index connection	Min.		50.0	62.5	70.0	50.0	62.5	70.0	
	Nom.		100	125	140	100	125	140	
	Max.		130.0	162.5	182.0	130.0	162.5	182.0	
Dimensions	Unit HeightxWidthxDepth	mm	869x1,100x460						
Weight	Unit	kg	102						
Sound power level	Cooling Nom.	dBA	67.0	68.1	69.0	67.0	68.1	69.0	
	Heating Prated,h	dBA	69.0	70.0	71.0	69.0	70.0	71.0	
Sound pressure level	Cooling Nom.	dBA	49.0	51.0		49.0	51.0		
Operation range	Cooling Min.~Max.	°CDB	-5~46						
	Heating Min.~Max.	°CWB	-20~16						
Refrigerant	Type/GWP		R-32/675.0						
	Charge	kg/TCO2Eq	3.40/2.30						
Piping connections	Liquid OD	mm	9.52						
	Gas OD	mm	15.9						
	Total piping length	System Actual	300						
	Height Difference	OU-IU Outdoor unit in highest position	m	50					
		Indoor unit in highest position	m	40					
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50 /220-240			3N~/50 /380-415			
Current - 50Hz	Maximum fuse amps (MFA)	A	32			16			

(1)The actual number of units depends on the connection ratio (CR) and the restrictions for the system.



## VRV Indoor units

One of the widest ranges on the market, it currently comprises no less than 26 different stylish and elegant models in 116 different variants. All designed to maximise comfort, minimise operating noise and simplify installation and servicing.

# VRV 5

## indoor units

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	Ceiling mounted cassette units	48
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<b>UNIQUE</b>	FXZA-A	50
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<b>NEW</b>	FXMA-A	55
	Wall mounted unit	56
	FXAA-A	56
	Ceiling suspended units	57
<b>NEW</b>	FXHA-A + new 50 class	57
<b>NEW</b>	FXUA-A + new 50 class and intelligent sensors	58
	<b>Options &amp; accessories</b>	<b>62</b>

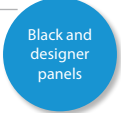




## VRV 5 indoor unit overview

Capacity class (kW)































Type	Model	Product name	10	15	20	25	32	40	50	63	71	80	100	125	140	200	250	
Ceiling mounted cassette	<b>UNIQUE</b> Round flow cassette	<ul style="list-style-type: none"> <li>360° air discharge for optimum efficiency and comfort</li> <li>Auto cleaning function ensures high efficiency</li> <li>Intelligent sensors save energy and maximize comfort</li> <li>Flexibility to suit every room layout</li> <li>Lowest installation height in the market!</li> <li>Widest choice ever in decoration panel designs and colors</li> </ul>																
	<b>UNIQUE</b> Fully flat cassette	<ul style="list-style-type: none"> <li>Unique design that integrates fully flat into the ceiling</li> <li>Perfect integration in standard architectural ceiling tiles</li> <li>Blend of iconic design and engineering excellence</li> <li>Intelligent sensors save energy and maximize comfort</li> <li>Small capacity unit developed for small or well-insulated rooms</li> <li>Flexibility to suit every room layout</li> </ul>																
Concealed ceiling	<b>Slim concealed ceiling unit</b>	<ul style="list-style-type: none"> <li>Slim design for flexible installation</li> <li>Compact dimensions enable installation in narrow ceiling voids</li> <li>Medium external static pressure up to 44Pa</li> <li>Only grilles are visible</li> <li>Small capacity unit developed for small or well-insulated rooms</li> <li>Reduced energy consumption thanks to DC fan motor</li> </ul>																
	<b>Concealed ceiling unit with medium ESP</b>	<ul style="list-style-type: none"> <li><b>Slimmest yet most powerful medium static pressure unit on the market!</b></li> <li>Slimmest unit in class, only 245mm</li> <li>Low operating sound level</li> <li>Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths</li> <li>Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort</li> </ul>																
	<b>NEW</b> <b>Concealed ceiling unit with high ESP</b>	<ul style="list-style-type: none"> <li><b>ESP up to 270 Pa, ideal for extra large sized spaces</b></li> <li>Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment</li> <li>Large capacity unit: up to 31.5 kW heating capacity</li> </ul>																
Wall mounted	<b>Wall mounted unit</b>	<ul style="list-style-type: none"> <li>For rooms with no false ceilings nor free floor space</li> <li>Flat, stylish front panel is more easy to clean</li> <li>Small capacity unit developed for small or well-insulated rooms</li> <li>Reduced energy consumption thanks to DC fan motor</li> <li>The air is comfortably spread up- and downwards thanks to 5 different discharge angles</li> </ul>																
Ceiling suspended	<b>NEW</b> <b>Ceiling suspended unit</b>	<ul style="list-style-type: none"> <li>For wide rooms with no false ceilings nor free floor space</li> <li>Ideal for comfortable air flow in wide rooms thanks to Coanda effect</li> <li>Rooms with ceilings up to 3.8m can be heated or cooled very easily!</li> <li>Can easily be installed in both new and refurbishment projects</li> <li>Can even be mounted in corners or narrow spaces without any problem</li> </ul>																
	<b>NEW &amp; UNIQUE</b> <b>4-way blow ceiling suspended unit</b>	<ul style="list-style-type: none"> <li><b>Unique Daikin unit for high rooms with no false ceilings nor free floor space</b></li> <li>Rooms with ceilings up to 3.5m can be heated up or cooled down very easily!</li> <li>Can easily be installed in both new and refurbishment projects</li> <li>Intelligent sensors save energy and maximise comfort</li> <li>Flexibility to suit every room layout</li> </ul>																
Cooling capacity (kW) <sup>1</sup>			1.1	1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0	
Heating capacity (kW) <sup>2</sup>			1.3	1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5	



(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m  
 (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



## VRV 5 indoor unit benefit overview

		Ceiling mounted cassette units	Concealed ceiling units				Wall mounted unit	Ceiling suspended units		
		FXFA-A	FXZA-A	FXDA-A	FXSA-A	NEW FXMA	FXAA-A	NEW FXHA-A	NEW FXUA-A	
										
We care	 Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy.	●	●	●	●	●	●	●	
	 Fan only	The unit can be used as fan, blowing air without heating or cooling.	●	●	●	●	●	●	●	
	 Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	○		○				○ NEW	
	 Floor and presence sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	○	○						
Comfort	 Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.	●	●					●	
	 Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neighbourhood.	●	●	●	●	●			
	 Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	●	●	●	●	●	●	●	
Air treatment	 Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)	● (2)	
Humidity control	 Dry programme	Allows humidity levels to be reduced without variations in room temperature.	●	●	●	●	●	●	●	
Air flow	 Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains.	●	●						
	 Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.	●	●			●	●	●	
	 Fan speed steps	Allows to select up to the given number of fan speed.	5 + auto	3 + auto	3	3 + auto	3 (50-125) 3 + auto (200-250)	3 + auto	3	3 + auto
	 Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.	●	●						●
Remote control & timer	 Onecta controller (BRP069C51)	Control your indoor climate from any location via smartphone or tablet.	○	○	○	○	○	○	○	
	 Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis.	○	○	○	○	○	○	○	
	 Infrared remote control	Starts, stops and regulates the air conditioner from a distance.	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	
	 Wired remote control	Starts, stops and regulates the air conditioner.	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	● (3)	
	 Centralised control	Starts, stops and regulates several air conditioners from one central point.	○	○	○	○	○	○	○	
Other functions	 Auto-restart	The unit restarts automatically at the original settings after power failure.	●	●	●	●	●	●	●	
	 Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.	●	●	●	●	●	●	●	
	 Drain pump kit	Facilitates condensation draining from the indoor unit.	●	●	●	●	●	○	●	
	 Multi tenant	The indoor unit's main power supply can be turned off when leaving the hotel or office building.	●	●	●	●		●		

● standard, ○ optional

(1) Must be combined with Madoka wired remote controller.

(2) Pre filter

(3) BRC1H52W/S/K is a required option

The most comfortable cassette  
just got better



## New round flow cassette



- › **Bigger louvers** and **new sensor logic** further improves equal air distribution in the room
- › **Widest ever choice in panels** for cassette units, with up to 8 different panels



Black auto cleaning panel



Black designer panel

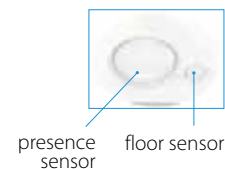


Full white standard panel

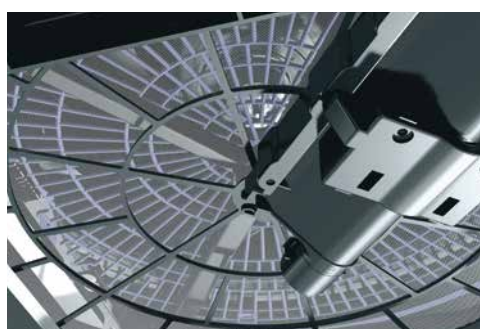


White designer panel

- › Comes with the known benefits: **360° air flow discharge** and **intelligent sensors**



- › **Auto cleaning** panels available in black and white



### Auto cleaning filter

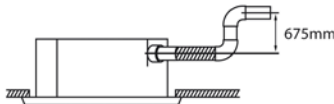
Dust can simply be removed using a vacuum cleaner without opening the unit.

\* Available as an option

# Round flow cassette

360° air discharge for optimum efficiency and comfort

- › Optimised design for R-32 refrigerant
- › Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- › Two optional intelligent sensors improve energy efficiency and comfort
- › Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- › Bigger flaps and unique swing pattern improve equal air distribution
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- › Lowest installation height in the market: 214mm for class 20-63
- › Optional fresh air intake
- › Standard drain pump with 675mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



Indoor Unit		FXFA	20A	25A	32A	40A	50A	63A	80A	100A	125A	
Cooling capacity	Total capacity		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	At high fan speed											
Heating capacity	Total capacity		kW	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
	At high fan speed											
Power input – 50Hz	Cooling		kW		0.017		0.018	0.023	0.028	0.045	0.078	0.103
	Heating		kW		0.017		0.018	0.023	0.028	0.045	0.078	0.103
Dimensions	Unit		mm	204x840x840					246x840x840		288x840x840	
Weight	Unit		kg	18		19		21		24		26
Casing	Material			Galvanised steel plate								
Decoration panel	Model			Standard panels: BYCQ140E – white with grey louvers / BYCQ140EW – full white / BYCQ140EB – black Auto cleaning panels: BYCQ140EGF – white / BYCQ140EGFB – black Designer panels: BYCQ140EP – white / BYCQ140EPB – black								
	Dimensions	HeightxWidthxDepth	mm	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950					Standard panels: 5.5 / Auto cleaning panels: 10.3 / Designer panels: 6.5			
Fan	Air flow rate – 50Hz	Cooling	H/MH/M/ML/L	m <sup>3</sup> /min	12.8/11.8/10.7/9.8/8.9		14.8/13.7/12.6/11.5/10.4	15.1/14.0/12.8/11.8/10.7	16.6/15.0/13.3/12.0/10.7	23.3/21.7/19.3/16.5/13.8	28.8/25.1/21.2/17.5/13.8	33.0/30.2/27.4/24.0/20.6
		Heating	H/MH/M/ML/L	m <sup>3</sup> /min	12.8/11.8/10.7/9.8/8.9		14.8/13.7/12.6/11.5/10.4	15.1/14.0/12.8/11.8/10.7	16.6/15.0/13.3/12.0/10.7	23.3/21.7/19.3/16.5/13.8	29.0/25.1/21.2/17.5/13.8	33.0/30.2/27.4/24.0/20.6
Air filter	Type			Resin net								
Sound power level	Cooling	At high fan speed	dBA	49.0 (4)			51.0 (4)		53.0 (4)	55.0 (4)	60.0 (4)	61.0 (4)
Sound pressure level	Cooling	H/MH/M/ML/L	dBA	31.0/30.0/29.0/29.5/28.0 (4)			33.0/32.0/31.0/30.0/29.0 (4)		35.0/34.0/33.0/32.0/30.0 (4)	38.0/36.0/34.0/32.0/30.0 (4)	43.0/41.0/37.0/34.0/30.0 (4)	45.0/43.0/41.0/39.0/36.0 (4)
	Heating	H/MH/M/ML/L	dBA	31.0/30.0/29.0/29.5/28.0 (4)			33.0/32.0/31.0/30.0/29.0 (4)		35.0/34.0/33.0/32.0/30.0 (4)	38.0/36.0/34.0/32.0/30.0 (4)	43.0/41.0/37.0/34.0/30.0 (4)	45.0/43.0/41.0/39.0/36.0 (4)
Refrigerant	Type/GWP			R-32/675.0								
Piping connections	Liquid	OD	mm	6.35					9.52			
	Gas	OD	mm	9.52			12.70			15.90		
	Drain			VP25 (O.D. 32 / I.D. 25)								
Power supply	Phase/Frequency/Voltage	Hz/V		1~50/60/220-240/220								
Current – 50Hz	Maximum fuse amps (MFA)	A		6								
Control systems	Infrared remote control			BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB (2)								
	Wired remote control			BRC1H52W/S/K								

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing | (2) Must be combined with Madoka wired remote controller. | (3) L/ML/M/MH/H are the different fan speeds available. L= low; ML= medium low; M= medium; MH= medium high; H= high | (4) Sound of designer panel: +3dB | Contains fluorinated greenhouse gases

# Fully Flat Cassette

Design & Genius in one



## Why choose fully flat cassette

- › Unique design in the market that integrates fully flat into the ceiling
- › Advanced technology and top efficiency combined
- › Most quiet cassette available on the market

## FXZQ-A



Choice between grey or white panel

## Benefits for the installer

- › Unique product in the market!
- › Most quiet unit (25dBA)
- › The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
- › Meeting European design taste.

## Benefits for the consultant

- › Unique product in the market!
- › Blends seamlessly in any modern office interior design
- › Ideal product to improve BREEAM score/EPBD in combination with Sky Air (FFA\*) or VRV IV heat pump units (FXZQ\*).

## Benefits for the end user

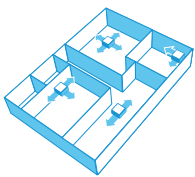
- › Engineering excellence and unique design in one
- › Most quiet unit (25dBA)
- › Perfect working conditions: no more cold draughts
- › Save up to 27% on your energy bill thanks to the optional sensors
- › Flexible usage of space and suits any room configuration thanks to individual flap control
- › User-friendly remote control, available in several languages.



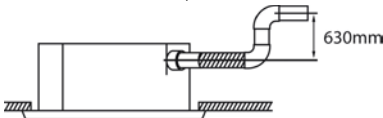
# Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

- › Optimised design for R-32 refrigerant
- › Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- › Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- › Two optional intelligent sensors improve energy efficiency and comfort
- › 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- › Optional fresh air intake
- › Standard drain pump with 630mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



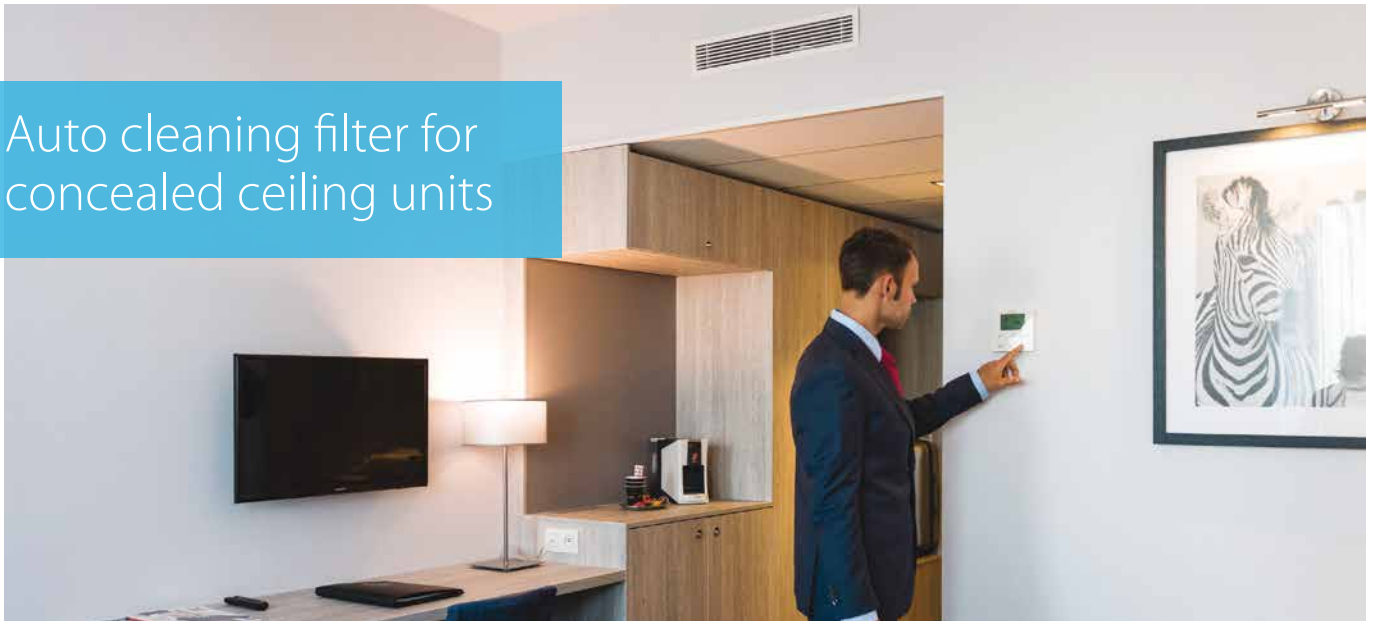
FXZA-A

Indoor Unit		FXZA		15A	20A	25A	32A	40A	50A	
Cooling capacity	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60
	Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00
Power input – 50Hz	Cooling	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
	Heating	At high fan speed		kW	0.018		0.020	0.019	0.029	0.048
Dimensions	Unit	HeightxWidthxDepth		mm	260 x575 x575					
Weight	Unit			kg	15.5		16.5		18.5	
Casing	Material	Galvanised steel plate								
Decoration panel	Model	BYFQ60C4W1W								
	Colour	White (N9.5)								
	Dimensions	HeightxWidthxDepth		mm	46 x620 x620					
	Weight			kg	2.8					
Decoration panel 2	Model	BYFQ60C4W1S								
	Colour	SILVER								
	Dimensions	HeightxWidthxDepth		mm	46 x620 x620					
	Weight			kg	2.8					
Decoration panel 3	Model	BYFQ60B3W1 + wire harness EKRS23								
	Colour	WHITE (RAL9010)								
	Dimensions	HeightxWidthxDepth		mm	55 x700 x700					
	Weight			kg	2.7					
Fan	Air flow rate – 50Hz	Cooling	At high/medium/low fan speed	m³/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
		Heating	At high/medium/low fan speed	m³/min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.0/12.5/10.0
Air filter	Type	Resin net								
Sound power level	Cooling	At high fan speed		dB(A)	49		50	51	54	60
		At high/medium/low fan speed	dB(A)	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0	
Sound pressure level	Heating	At high/medium/low fan speed		dB(A)	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Refrigerant	Type/GWP	R-32/675.0								
Piping connections	Liquid	OD	mm		6.35					
	Gas	OD	mm		9.52		12.70			
	Drain				VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220					
Current – 50Hz	Maximum fuse amps (MFA)			A	6					
Control systems	Infrared remote control	BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530W (standard panel) (1)								
Control systems	Wired remote control	BRC1H52W/S/K								

Dimensions do not include control box | (1) Must be combined with Madoka wired remote controller\* feature | Contains fluorinated greenhouse gases



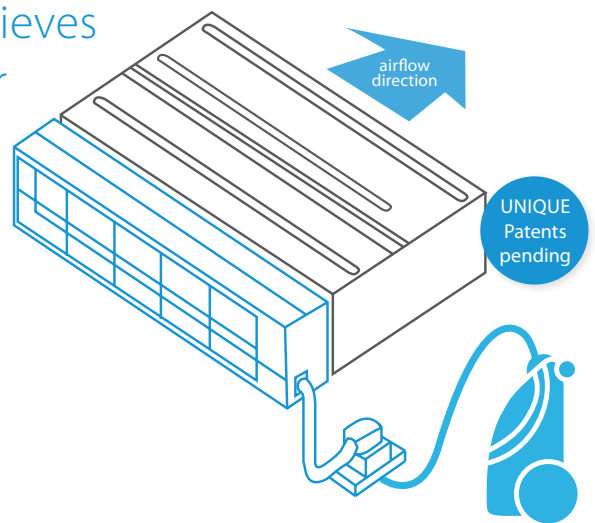
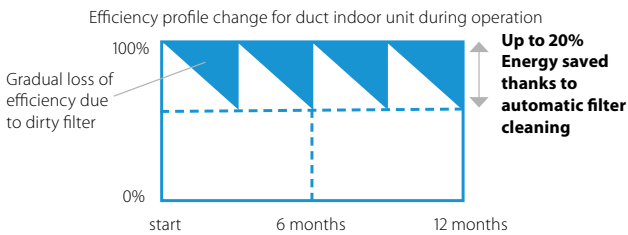
# Auto cleaning filter for concealed ceiling units



The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs

### Reduce running costs

- › Automatic filter cleaning ensures low maintenance costs because the filter is always clean



### Minimal time required for filter cleaning

- › The dust box can be emptied with a vacuum cleaner for fast and easy cleaning
- › No more dirty ceilings

### Improved indoor air quality

- › Optimum airflow eliminates draft and insulates sound

### Superb reliability

- › Prevents clogged filters for seamless operation

### Unique technology

- › Unique and innovative filter technology inspired by the Daikin auto cleaning cassette



## How does it work?

- 1 Scheduled automatic filter cleaning
- 2 Dust collects in a dust box that's integrated into the unit
- 3 The dust can easily be removed with a vacuum cleaner



### Combination table

	Split / Sky Air				VRV						
	FDXM-F9				FXDA-A/FXDQ-A3						
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

### Specifications

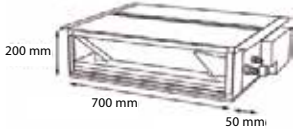
	BAE20A62	BAE20A82	BAE20A102
Height (mm)	210		
Width (mm)	830	1,030	1,230
Depth (mm)	188		

# Slim concealed ceiling unit

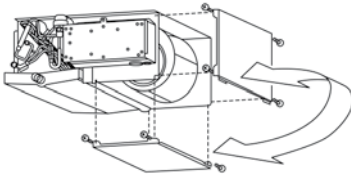
## Slim design for flexible installation

- > Optimised design for R-32 refrigerant
- > 10 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Compact dimensions, can easily be mounted in a ceiling void of only 240mm

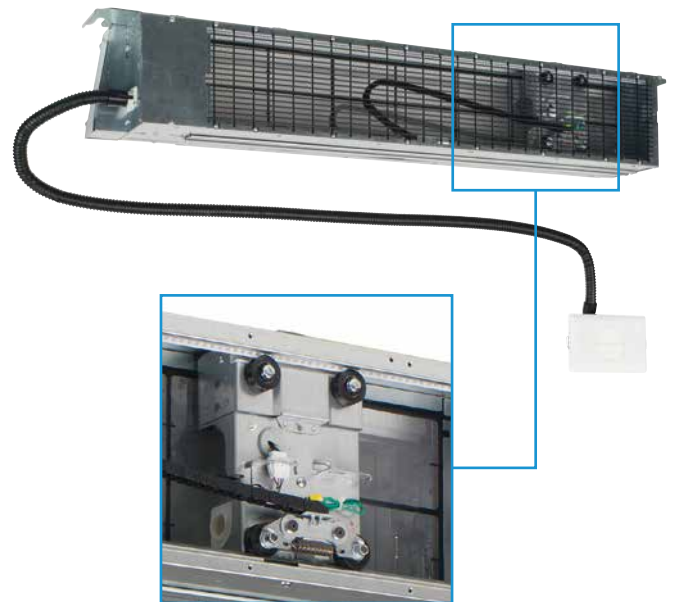
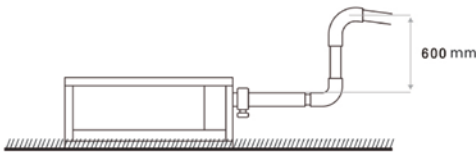
SERIE A (15, 20, 25, 32)



- > Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Optional auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



- > Standard drain pump with 600mm lift increases flexibility and installation speed



Auto cleaning filter option

More details and final information can be found by scanning or clicking the QR codes.



Indoor Unit				FXDA	10A	15A	20A	25A	32A	40A	50A	63A	
Cooling capacity	Total capacity	At high fan speed	kW	1.10	1.70	2.20	2.80	3.60	4.50	5.60	7.10		
	Heating capacity	Total capacity	At high fan speed	kW	1.30	1.90	2.50	3.20	4.00	5.00	6.30	8.00	
Power input – 50Hz	Cooling	At high fan speed	kW	0.026	0.035	0.030		0.035	0.038	0.049	0.058		
	Heating	At high fan speed	kW	0.026	0.035	0.030		0.035	0.038	0.049	0.058		
Required ceiling void >				mm	240								
Dimensions	Unit	HeightxWidthxDepth	mm	200x750x620					200x950x620		200x1,150x620		
Weight	Unit			kg	22.0			23.0		26.5		30.5	
Casing	Material	Galvanised steel											
Fan	Air flow rate – 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	5.2/4.9/4.7	6.5/6.2/5.8	8.0/7.2/6.4		10.5/9.5/8.5		12.5/11.0/10.0	16.5/14.5/13.0	
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	5.2/4.9/4.7	6.5/6.2/5.8	8.0/7.2/6.4		10.5/9.5/8.5		12.5/11.0/10.0	16.5/14.5/13.0	
	External static pressure - 50Hz	Factory set / High	Pa	10/30				15/44					
Air filter	Type	Removable / washable											
Sound power level	Cooling	At high fan speed	dBA	48	50	51			52	53	54		
	Sound pressure level	Cooling	At high/medium/low fan speed	dBA	29.0/28.0/26.0	32.0/31.0/27.0	33.0/31.0/27.0		34.0/32.0/28.0		35.0/33.0/29.0	36.0/34.0/30.0	
	Heating	At high/medium/low fan speed	dBA	29.0/28.0/26.0	32.0/31.0/27.0	33.0/31.0/27.0		34.0/32.0/28.0		35.0/33.0/29.0	36.0/34.0/30.0		
Refrigerant	Type/GWP	R-32/675.0											
Piping connections	Liquid	OD	mm	6.35									
	Gas	OD	mm	9.52					12.70				
	Drain	VP20 (I.D. 20/O.D. 26)											
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current – 50Hz	Maximum fuse amps (MFA)			A	6								
Control systems	Infrared remote control	BRC4C65 / BRC4C66 (1)											
	Wired remote control	BRC1H52W/S/K											

(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

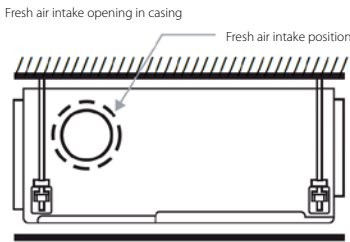
# Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

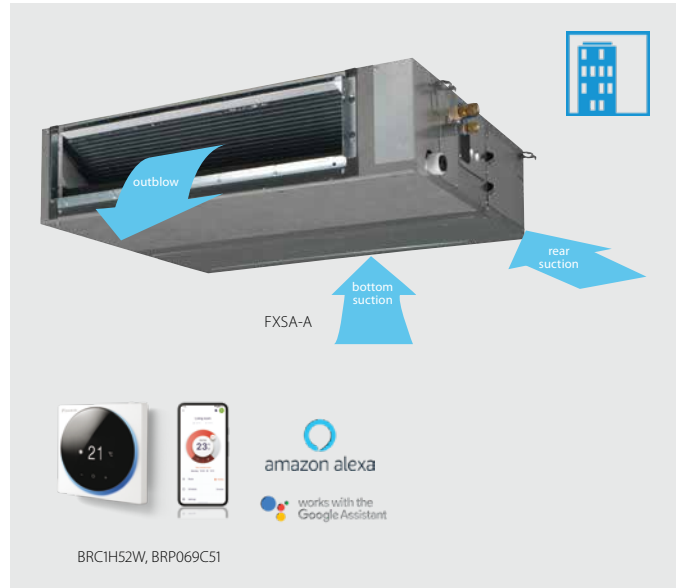
- Optimised design for R-32 refrigerant
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



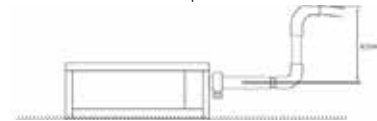
- Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Optional fresh air intake
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required



\* Brings in up to 10% of fresh air into the room



- Standard built-in drain pump with 625mm lift increases flexibility and installation speed

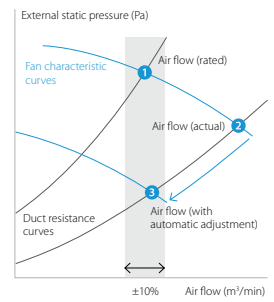


### Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

#### Why?

- After installation the real ducting will frequently differ from the initially calculated air flow resistance
- \* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
- Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



More details and final information can be found by scanning or clicking the QR codes.



FXSA-A

Indoor Unit		FXSA	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A								
Cooling capacity	Total capacity	At high fan speed		kW																	
	At high fan speed	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00									
Heating capacity	Total capacity	At high fan speed		kW																	
	At high fan speed	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00	18.00									
Power input – 50Hz	Cooling	At high fan speed		kW																	
	At high fan speed			0.046	0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272									
Heating	At high fan speed		kW																		
	At high fan speed				0.046	0.049	0.094	0.096	0.106	0.143	0.176	0.216	0.272								
Dimensions	Unit	HeightxWidthxDepth		mm																	
Weight	Unit			23.5		24.0		28.5		29.0		36.5		46.0		47.0		51.0			
Casing	Material		Galvanised steel plate																		
Fan	Air flow rate – 50Hz	Cooling	At high/medium/low fan speed		m <sup>3</sup> /min																
		At high/medium/low fan speed	8.7/7.5/6.5		9.0/7.5/6.5		9.5/8.0/7.0		15.0/12.5/11.0		15.2/12.5/11.0		21.0/18.0/15.0		23.0/19.5/16.0		32.0/27.0/23.0		36.0/31.5/26.0		39.0/34.0/28.0
	Heating	At high/medium/low fan speed		m <sup>3</sup> /min																	
At high/medium/low fan speed		8.7/7.5/6.5		9.0/7.5/6.5		9.5/8.0/7.0		15.0/12.5/11.0		15.2/12.5/11.0		21.0/18.0/15.0		23.0/19.5/16.0		32.0/27.0/23.0		36.0/31.5/26.0		42.5/34.0/28.0	
External static pressure - 50Hz	Factory set / High		Pa		30/150				40/150				50/150								
Air filter	Type		Resin net																		
Sound power level	Cooling	At high fan speed		dBA																	
	At high fan speed		54		55		60		59		61		64								
Sound pressure level	Cooling	At high/medium/low fan speed		dBA																	
	At high/medium/low fan speed		29.5/28.0/25.0		30.0/28.0/25.0		31.0/29.0/26.0		35.0/32.0/29.0		33.0/30.0/27.0		35.0/32.0/29.0		36.0/34.0/31.0		39.0/36.0/33.0		41.5/38.0/34.0		
Heating	At high/medium/low fan speed		dBA																		
	At high/medium/low fan speed		31.5/29.0/26.0		32.0/29.0/26.0		33.0/30.0/27.0		37.0/34.0/29.0		35.0/32.0/28.0		37.0/34.0/30.0		37.0/34.0/31.0		40.0/37.0/33.0		42.0/38.5/34.0		
Refrigerant	Type/GWP		R-32/675.0																		
Piping connections	Liquid	OD	mm		6.35								9.52								
	Gas	OD	mm		9.52		12.70				15.90										
	Drain			VP20 (I.D. 20/O.D. 26), drain height 625 mm																	
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/60/220-240/220																
Current – 50Hz	Maximum fuse amps (MFA)		A		6																
Control systems	Infrared remote control		BRC4C65 / BRC4C66 (1)																		
	Wired remote control		BRC1H52W/S/K																		

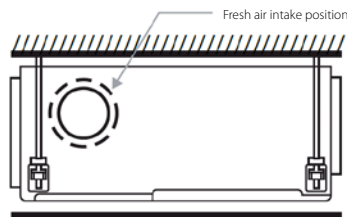
(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases

# Concealed ceiling unit with high ESP

Ideal for large sized spaces ESP up to 270 Pa

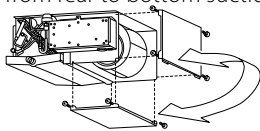
- › Optimised for R-32 refrigerant
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › High external static pressure up to 270Pa facilitates extensive duct and grille network
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required (50-125 class)

Fresh air intake opening in casing

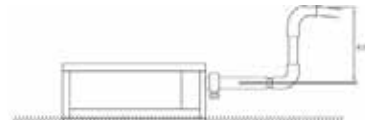


\* Brings in up to 10% of fresh air into the room

- › Flexible installation, as the air suction direction can be altered from rear to bottom suction (50-125 class)



- › Standard built-in drain pump with 625mm lift increases flexibility and installation speed (optional for 200-250)



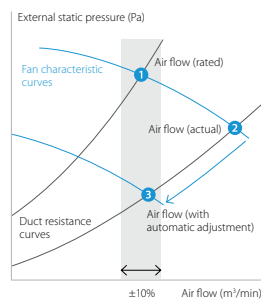
- › High external static pressure up to 270Pa facilitates extensive duct and grille network
- › Large capacity unit: up to 31.5 kW heating capacity

## Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

### Why?

- After installation the real ducting will frequently differ from the initially calculated air flow resistance
- \* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature
- Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



More details and final information can be found by scanning or clicking the QR codes.



FXMA-A

Indoor Unit		FXMA	50A	63A	80A	100A	125A	200A	250A	
Cooling capacity	Total capacity		5.6	7.1	9.0	11.2	14.0	22.4	28.0	
	At high fan speed									
Heating capacity	Total capacity		6.3	8.0	10.0	12.5	16.0	25.0	31.5	
	At high fan speed									
Power input – 50Hz	Cooling		0.121	0.132	0.198	0.214	0.254	0.895	1.185	
	Heating									
Required ceiling void >			350							
Dimensions	Unit	HeightxWidthxDepth	300x1,000x700			300x1,400x700		470x1,380x1,100		
Weight	Unit		35			46		132		
Fan	Air flow rate – 50Hz	Cooling	18.0/16.5/15.0	19.5/17.5/16.0	25.0/22.5/20.0	32.0/27.5/23.0	36/30/26	58/-/50	72/-/62	
		Heating								
		H/M/L fan speed								
	External static pressure - 50Hz	Factory set / High	100/200				160/270		170/270	
Air filter	Type		Resin net							
Sound power level	Cooling	H/M/L fan speed	61.0/-/-	64.0/-/-	67.0/-/-	65.0/-/-	70.0/-/-	75	76	
	Heating	H/M/L fan speed	41.0/-/37.0	42.0/-/38.0	43.0/-/39.0	44.0/-/40.0	48/-/45			
Sound pressure level	Cooling	H/M/L fan speed	41.0/-/37.0	42.0/-/38.0	43.0/-/39.0	44.0/-/40.0				
	Heating	H/M/L fan speed								
Refrigerant	Type/GWP		R-32/675							
Piping connections	Liquid	OD	6.35			9.52				
	Gas	OD	12.7			15.9		19.1	22.2	
	Drain		VP25 (I.D. 25/O.D. 32)				PS1B			
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/60/220-240/220						1~/50 /220-240	
Current – 50Hz	Maximum fuse amps (MFA)	A	16							
Control systems	Infrared remote control		BRC4C65							
	Wired remote control		BRC1H52W/S/K							

Contains fluorinated greenhouse gases

\*Note: blue cells contain preliminary data

# Wall mounted unit

For rooms with no false ceilings nor free floor space

- › Optimised design for R-32 refrigerant
- › Flat, stylish front panel blends easily within any interior décor and is easier to clean
- › Can easily be installed in both new and refurbishment projects
- › The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- › Maintenance operations can be performed easily from the front of the unit



More details and final information can be found by scanning or clicking the QR codes.



FXAA-A

Indoor Unit				FXAA	15A	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating capacity	Total capacity	At high fan speed	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0
Power input – 50Hz	Cooling	At high fan speed	kW	0.017	0.019	0.028	0.030	0.025	0.033	0.050	
	Heating	At high fan speed	kW	0.025	0.029	0.034	0.035	0.030	0.039	0.060	
Dimensions	Unit	HeightxWidthxDepth	mm	290x795x266					290x1,050x269		
Weight	Unit		kg	12					15		
Fan	Air flow rate – 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	7.1/6.8/6.5	7.9/7.2/6.5	8.3/7.4/6.5	9.4/8.0/6.5	12.2/11.0/9.8	14.2/12.6/10.9	18.2/15.5/12.9
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	7.8/7.1/6.5	8.6/7.5/6.5	9.0/7.7/6.5	9.9/8.2/6.5	12.2/11.0/9.8	15.2/13.7/12.1	18.7/16.4/14.1
Air filter	Type			Removable / washable							
Sound power level	Cooling	At high fan speed	dB(A)	51.0	52.0	53.0	55.0		58.0	63.0	
	Sound pressure level	Cooling	At high/medium/low fan speed	dB(A)	32.0/30.5/28.5	33.0/31.0/28.5	35.0/32.0/28.5	37.5/33.0/28.5	37.0/35.5/33.5	41.0/38.5/35.5	46.5/42.5/38.5
Refrigerant	Heating	At high/medium/low fan speed	dB(A)	33.0/31.0/28.5	34.0/31.5/28.5	36.0/32.5/28.5	38.5/33.5/28.5	38.0/36.0/33.5	42.0/39.0/35.5	47.0/43.0/38.5	
	Type/GWP			R-32/675.0							
Piping connections	Liquid	OD	mm	6.35				12.70			
	Gas	OD	mm	9.52				12.70			
	Drain			VP13 (I.D. 15/O.D. 18)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50 /220-240							
Current – 50Hz	Maximum fuse amps (MFA)		A	6							
Control systems	Infrared remote control			BRC7EA630 (1)							
	Wired remote control			BRC1H52W/S/K							

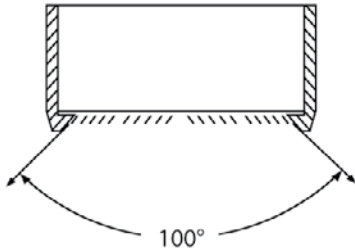
(1) Must be combined with Madoka wired remote controller | Contains fluorinated greenhouse gases



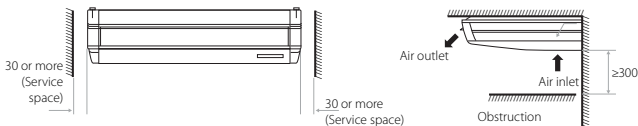
# Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- › Optimised for R-32 refrigerant
- › Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



- › Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- › Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space

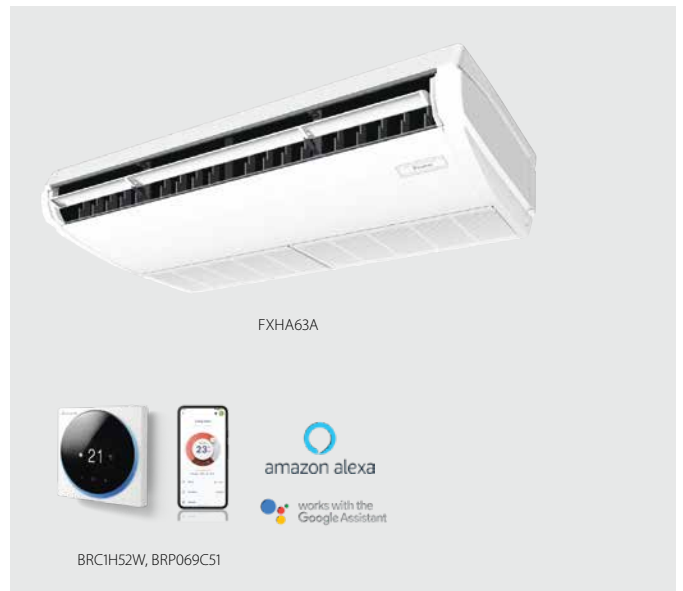


- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- Fresh air intake opening in casing



\* Brings in up to 10% of fresh air into the room

- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



More details and final information can be found by scanning or clicking the QR codes.



FXHA-A

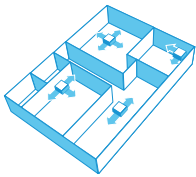
				NEW capacity range				
Indoor Unit		FXHA	32A	50A	63A	100A		
Cooling capacity	Total capacity	At high fan speed	kW	3.6	5.6	7.1	11.2	
	Nom.			4.0	6.3	8.0	12.5	
Heating capacity	Total capacity	At high fan speed	kW	4.0	6.3	8.0	12.5	
	Nom.			4.0	6.3	8.0	12.5	
Power input – 50Hz	Cooling	At high fan speed	kW	0.033	0.037	0.051	0.086	
	Heating	At high fan speed	kW	0.033	0.037	0.051	0.086	
Dimensions	Unit	HeightxWidthxDepth	mm	235x1,270x690		235x1,590x690		
Weight	Unit		kg	28	36	43		
Casing	Material	Resin, sheet metal						
Fan	Air flow rate – 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	12.5/11.0/10.0	16.0/14.0/12.5	17.5/15.0/13.0	27.0/22.0/19.0
Air filter	Type	Resin net with mold resistance						
Sound power level	Cooling	At high/medium/low fan speed	dBA	54.0/52.0/49.0	54.0/52.0/50.0	55.0/53.0/52.0	62.0/55.0/52.0	
	Heating	At high/medium/low fan speed	dBA	54.0/52.0/49.0	54.0/52.0/50.0	55.0/53.0/52.0	62.0/55.0/52.0	
Sound pressure level	Cooling	At high/medium/low fan speed	dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0	
	Heating	At high/medium/low fan speed	dBA	36.0/34.0/31.0	36.5/34.5/33.0	37.0/35.0/34.0	44.0/37.0/34.0	
Refrigerant	Type/GWP	R-32/675						
Piping connections	Liquid	OD	mm	6.4		9.52		
	Gas	OD	mm	9.52	12.7		15.9	
	Drain			VP20				
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/60/220-240/220					
Current – 50Hz	Maximum fuse amps (MFA)	A	6					
Control systems	Infrared remote control	BRC7GA53-9						
	Wired remote control	BRC1H52W/S/K						

Contains fluorinated greenhouse gases

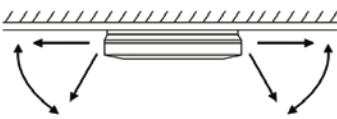
# 4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

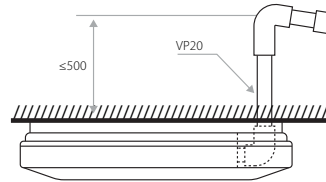
- › Optimised for R-32 refrigerant
- › Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- NEW › Two optional intelligent sensors improve energy efficiency and comfort
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- › Optimum comfort guaranteed with automatic air flow adjustment to the required load
- › 5 different discharge angles between 0 and 60° can be programmed via the remote control



- › Standard drain pump with 720mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



				NEW capacity range								
Indoor Unit		FXUA		50A		71A		100A				
Cooling capacity	Total capacity	At high fan speed		kW		5.6		8.0		11.2		
Heating capacity	Total capacity	At high fan speed		kW		6.3		9.0		12.5		
Power input – 50Hz	Cooling	At high fan speed		kW		0.029		0.055		0.117		
	Heating	At high fan speed		kW		0.029		0.055		0.117		
Dimensions	Unit	HeightxWidthxDepth		mm		198x950x950						
Weight	Unit			kg		27				28		
Casing	Material						Resin					
Fan	Type						Turbo fan					
	Quantity						1					
	Air flow rate – 50Hz	Cooling	At high/medium/low fan speed		m³/min		17.0/14.5/13.0		22.5/18.5/16.0		31.0/25.5/21.0	
	Heating	At high/medium/low fan speed		m³/min		17.0/14.5/13.0		22.5/18.5/16.0		31.0/25.5/21.0		
Air filter	Type						Resin net					
Sound power level	Cooling	At high/medium/low fan speed		dBA		55.0/53.0/51.0		58.0/56.0/54.0		65.0/62.0/58.0		
	Heating	At high/medium/low fan speed		dBA		55.0/53.0/51.0		58.0/56.0/54.0		65.0/62.0/58.0		
Sound pressure level	Cooling	At high/medium/low fan speed		dBA		37.0/35.0/33.0		40.0/38.0/36.0		47.0/44.0/40.0		
	Heating	At high/medium/low fan speed		dBA		37.0/35.0/33.0		40.0/38.0/36.0		47.0/44.0/40.0		
Refrigerant	Type/GWP						R-32/675					
Piping connections	Liquid	OD			mm		6.4				9.52	
	Gas	OD			mm		12.7				15.9	
	Drain							VP20				
Power supply	Phase/Frequency/Voltage				Hz/V		1~/50/60/220-240/220					
Current – 50Hz	Maximum fuse amps (MFA)				A		6					
Control systems	Infrared remote control						BRC7CB58 / BRC7CB59					
	Wired remote control						BRC1H52W/S/K					

Contains fluorinated greenhouse gases



	VRV 5 heat recovery		VRV 5-series	
	REYA8-20 REMA5	2 module systems	RXYS-A-AV1/AY1	
<b>Kits</b>	<b>Multi-module connection kit (obligatory)</b> - Connects multiple modules into a single refrigerant system		BHFQ23P907	
	<b>Extended level difference kit</b> - Allows outdoor unit to be more than 50m above indoor units			
	<b>Central drain pan kit</b> - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.			
	<b>Heater tape kit</b> - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	5/8-12: EKBP012T 14-20: EKBP020T		EKBP0250D
<b>Adapters</b>	<b>External control adapter for outdoor unit</b> - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.		DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mounting plate is required. See Options & Accessories of indoor units	
	<b>KRC19-26</b> Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.			•
	Cool/heat selector PCB (required to connect KRC19-26)			Standard on unit
	<b>KKSB26B1*</b> Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
<b>Others</b>	<b>KJB111A</b> Installation box for remote cool/heat selector KRC19-26			•
	<b>EKCHSC</b> - Cool/heat selector cable			
	<b>EKPCCAB4</b> VRV configurator			•
	<b>KKSB26B1*</b> Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			
	<b>DTA109A51</b> DIII-net expander adapter			
	<b>BPMKS967A2/A3</b> Branch provider (for connection of 2/3 RA indoor units)			
	<b>EKD04</b> Drain plug kit			
	<b>EKLN140A</b> Sound enclosure			•

\*Note: blue cells contain preliminary data

## Refnets & branch selector boxes

		Refnet Joints				Heat Recovery Branch Selector Boxes (BS-boxes) R-32
		Capacity index	Capacity index	Capacity index	Capacity index	4 to 12 ports R-32
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640	BS-A14AV1B
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20TA	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	
	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	<b>EKBSVQLNP</b> Sound reduction kit (sound insulation)					
	<b>KHFP26A100C</b> Closed pipe kit					
	Joint kit for branch selector (BS) boxes: To couple 2 BS box branches to connect larger capacity indoor units					EKBSJK
	Quiet kit					
	<b>K-KDU303KVE</b> Drain pump kit					•
	<b>EKBSDCK</b> Duct connection: To connect extraction of BSSV boxes in serial					•

(1) For metric size connections, contact your local sales responsible



		Ceiling mounted cassette units	
		Round flow (800x800)	4-way (600x600)
		FXFA-A	FXZA-A
Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	R-32 model: BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)
	Panel spacer for reducing required installation height		KDBQ44B60 (Standard panel)
	Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)
	Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel) BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	R-32 models: BRYQ60A3W (white) BRYQ60A3S (grey)
Individual control systems	Infrared remote control (incl. receiver)		BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)
	BRP069C51 – Onecta app Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	● (mandatory)	● (mandatory)
Centralised control systems	DCC601A51 – intelligent Tablet Controller	●	●
	DCS601C51 (12) – intelligent Touch Controller DCS302C51 (12) – Central remote controller DCS301B51 (12) (13) – Unified ON/OFF controller	● ● ●	● ● ●
Building Management System & Standard protocol interfaces for central control	RTD-NET – Modbus interface for monitoring and control	●	●
	RTD-10 – Modbus interface for infrastructure cooling	●	●
	RTD-20 – Modbus interface for retail	●	●
	RTD-HO – Modbus interface for hotel	●	●
	KLIC-DI – KNX Interface	●	●
	DCM601A51 – intelligent Touch Manager	●	●
	EKMBDXB – Modbus interface	●	●
	DCM010A51 – Daikin PMS interface	●	●
	DMS502A51 – BACnet Interface	●	●
	DMS504B51 – LonWorks Interface	●	●
Filters	Replacement long life filter, non-woven type	KAF551D160	KAF441C60
	Auto cleaning filter	see decoration panel	
Wiring and sensors	KRCS – External wired temperature sensor	KRCS01-7B	KRCS01-8B
	K.RSS – External wireless temperature sensor	SB.K.RSS_RFC (EKEWTSC-2 + K.RSS)	SB.K.RSS_FDA (EKEWTSC-1 + K.RSS)
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)	KRP1BA58 (2)(7)	ERP02A50 (2)
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C12 (2)(7)	EKRP1C14 (2)
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 (2)(7)	KRP4A53 (2)
	Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52
	Adapter for keycard and/or window contact connection (2)(11)	BRP7A53	BRP7A53 (2)
	External control adapter for outdoor unit (installation on indoor unit)		
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98A (7) KRP1BC101	KRP1BB101 KRP1BC101
	Wiring kit for Remote ON/OFF or Forced OFF Relay PCB for output signal of refrigerant sensor	Standard ERP01A51 (2)	Standard ERP01A50 (2)
Others	Drain pump kit	Standard	Standard
	Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60
	Air discharge adapter for round duct		
	L-type piping kit		

- (1) Pump station is necessary for this option  
(2) Installation box is necessary for these adapters  
(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt\*  
(4) Not recommended because of the limitation of the functions

- (5) To be able to control the BYCQ140EGF(B) the controller BRC1E or BRC1H\* is needed  
(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units  
(7) Option not available in combination with BYCQ140EGF(B)  
(8) Both parts of the fresh air intake are needed for each unit  
(9) Cannot be combined with sensor kit  
(10) Independently controllable flaps function not available



## The most extensive VRV range on the market



VRV i-series



VRV S-series



VRV W-series



Heat recovery,  
heat pump and  
replacement series

### Supporting a circular economy of refrigerants



#### Towards a circular economy of refrigerants

With L∞P by Daikin we want to step away from producing more waste. Instead we will reuse what is already available, in a qualitative way.

#### For units produced and sold in Europe

- › Exclusive to Daikin reclaimed gas is now used in our units
- › Administratively allocated to VRV and chillers produced and sold in Europe

In this way **we use reclaimed refrigerant and avoid already 400,000 kg of virgin gas being produced each year!**

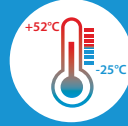
## For every application, a solution



Heat recovery with unique 3-pipe technology



Heat pump models with unique continuous heating during defrost



Dedicated **hot and cold climate** heat pumps offering efficient cooling up to 52°C and heating down to -25°C



Space saving mini VRV solutions, offering the most compact VRV



The **invisible VRV**, a unique solution when the outdoor unit must be compact and completely invisible



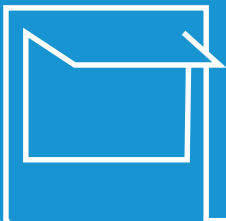
Replacement solutions to replace existing systems in **the most cost-effective way**



**Water-cooled** heat recovery and heat pump units, ideal for high rise buildings using water as heat source

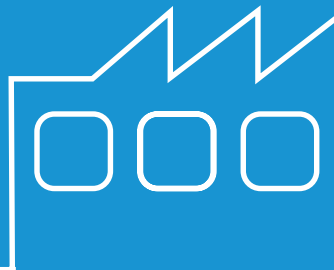


A **complete total** solution integrating a wide range of indoor units, air curtains, hot water **hydroboxes** and **ventilation** units including air handling units



## Recover

We recover your **old refrigerant** for you from any unit and any brand.



## Reclaim

The refrigerant is reclaimed in Europe, meaning regenerated in a **high-quality** way, in line with F-gas regulation definition.



## Reuse

The reclaimed refrigerant is mixed with virgin refrigerant. The refrigerant's quality is **certified** by an independent laboratory. It meets AHRI 700 certified standards.

# Products overview **VRV IV**

**LOOP** <sup>(1)</sup>  
BY DAIKIN

**R-410A**

Model	Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30		
Air cooled - heat recovery	<b>UNIQUE</b> <i>Best efficiency &amp; comfort solution</i> > Fully integrated solution with heat recovery for maximum efficiency > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains > "Free" heating and hot water through heat recovery > The perfect personal comfort for guests/tenants via simultaneous cooling and heating > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating > Allows technical cooling > Widest range of BS boxes on the market VRV IV heat recovery	REYQ-U <b>VRV IV<sup>+</sup></b>																	
	Daikin's optimum solution with top comfort > Continuous heating during defrost > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains > Connectable to stylish indoor units (Daikin Emura, Stylish,...) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating VRV IV heat pump with continuous heating	RYYQ-U <b>VRV IV<sup>+</sup></b>																	
	Daikin's solution for comfort & low energy consumption > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains > Connectable to stylish indoor units (Daikin Emura, Stylish,...) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature VRV IV heat pump without continuous heating	RXYQ-U <b>VRV IV<sup>+</sup></b>																	
Air cooled - heat pump	The most compact VRV > Compact and lightweight single fan design saves space and is easy to install > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,...) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature VRV IV S-series Compact	RXYSCQ-TV1 <b>VRV IV S-series Compact</b>																	
	<b>UNIQUE</b> <i>Space saving solution without compromising on efficiency</i> > Space saving trunk design for flexible installation > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,...) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature VRV IV S-series	RXYSQ-TV9/ TY9/TY1 <b>VRV IV S-series</b>		TV9															
	The invisible VRV > Unique VRV heat pump for indoor installation > Total flexibility for any shop location and building type as the outdoor unit is invisible and split up in 2 parts > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature > Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation and Biddle air curtains VRV IV heat pump for indoor installation	SB.RKXYQ-T(8) <b>VRV IV i-series</b>																	
VRV IV heat pump, optimised for cold climates Where heating is priority without compromising on efficiency > Suitable for single source heating > Extended operation range down to -25°C in heating > Stable heating capacity without any capacity loss down to -15°C > Very economical solution as a smaller outdoor unit model can be used compared to the standard series VRV IV heat pump, optimised for cold climates	RXYLQ-T <b>VRV IV C<sup>+</sup> series</b>																		
Replacement	Quick & quality replacement for R-22 and R-407C systems > Cost-effective and fast replacement through re-use of existing piping > Drastically improve your comfort, efficiency and reliability > No interruption of daily business while replacing your system > Replace Daikin and other manufacturers systems safely heat recovery	RQCEQ-P3 <b>VRV III Q</b>																	
	Quick & quality replacement for R-22 and R-407C systems > Cost-effective and fast replacement through re-use of existing piping > Drastically improve your comfort, efficiency and reliability > No interruption of daily business while replacing your system > Replace Daikin and other manufacturers systems safely > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature heat pump	RXYQQ-U <b>VRV IV Q<sup>+</sup> series</b>																	
Water cooled	Ideal for high rise buildings, using water as heat source > Reduced CO <sub>2</sub> emissions thanks to the use of geothermal energy as a renewable energy source > No need for an external heating or cooling source when used in geothermal mode > Compact & lightweight design can be stacked for maximum space saving > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature > Variable Water Flow control option increases flexibility and control > Mixed connection of HT hydroboxes and VRV indoor units > Either connect VRV of stylish indoor units (Daikin Emura, Stylish,...) > 2 analogue input signals allowing external control Water cooled VRV IV	RWEYQ-T9* <b>VRV IV W<sup>+</sup> series</b>																	

Ranges marked with "\*" are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme (1) LOOP by Daikin is applicable for VRV units produced and sold in Europe (EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland). RXYSCQ-TV1, RXYSQ8-10-12TY1 and RQCEQ-P3 are not part of the LOOP by Daikin programme.

● Single unit  
● Multi combination



Capacity (HP)													Description / Combination	VRV indoor units	Residential indoor units	LT Hydrobox HXY-A	HT Hydrobox HXHD-A	HRV units VAM-, VKM-	AHU connection EKEXV + EKEQMCBA	AHU connection EKEXV + EKEQFCBA	Air curtains CYV-DK	Remarks
32	34	36	38	40	42	44	46	48	50	52	54											
													<b>VRV IV* Heat Recovery REYQ</b>	○		○	○	○	○	○	○	> Standard total system connection ratio limit: 50 ~ 130%
													with only VRV indoor units	✓								
													with LT/HT Hydroboxes	✓		✓	✓	✓				> Max 32 indoor units, even on 16HP and larger systems > Total system connection ratio with HT hydroboxes up to 200% possible
													HRV units VAM-, VKM-	✓		✓	✓	✓	✓			> Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is always necessary
													AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	
													Biddle air curtain CYV-DK-	✓				✓	✓		✓	> Total system connection ratio with AHU is 50 ~ 110%
													<b>VRV IV* Heat Pump (RYYQ/RXYQ)</b>	○	○	○		○	○	○	○	> Standard total system connection ratio limit: 50 ~ 130%
													with only VRV indoor units	✓								> 200% total system connection ratio possible under special circumstances
													with residential indoor units	✓	✓			✓				> Only single-module systems (RYYQ 8~20 T / RXYQ 8~20 T) > Max 32 indoor units, even on 16HP, 18HP and 20HP systems > Connection ratio: 80 ~ 130%
													with LT Hydroboxes	✓		✓		✓				> Max 32 indoor units, even on 16HP and larger systems > Contact Daikin in case of multi-module systems (>20HP)
													HRV units VAM-, VKM-	✓	✓	✓		✓	✓		✓	
													AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	
													AHU connection EKEXV + EKEQFCBA							✓		> Total system connection ratio with AHU is 50 ~ 110%
													Biddle air curtain CYV-DK-	✓				✓	✓		✓	
													<b>VRV IV-S RXYSQ-/RXYSCQ-</b>	○	○			○	○		○	> Standard total system connection ratio limit: 50 ~ 130%
													with VRV indoor units only	✓				✓	✓		✓	
													with residential indoor units only		✓							> With residential indoor: connection ratio limit: 80 ~ 130%
													<b>VRV IV i series SB.RKXYQ</b>	✓				✓	✓		✓	> Standard total system connection ratio limit: 50 ~ 130%
													<b>VRV IV-C* series RXYLQ</b>	○	○	○		○	○	○	○	> Standard total system connection ratio limit: 70 ~ 130%
													with VRV indoor units only	✓				✓			✓	
													with residential indoor units only		✓							> With residential indoor: connection ratio limit: 80 ~ 130%
													with LT hydroboxes	✓		✓		✓				> Max. 32 indoor units, contact Daikin in case of multi-module systems (> 14HP)
													AHU connection EKEXV + EKEQMCBA	✓				✓	✓		✓	> Total system connection ratio is 70~110%
													AHU connection EKEXV + EKEQFCBA	✓						✓		> With AHU only connection ratio is 90~110%
													<b>VRV III-Q* series Replacement H/R RQCEQ</b>	✓				✓				> Standard total system connection ratio limit: 50 ~ 130%
													<b>VRV IV-Q Replacement H/P RXYQQ</b>	✓				✓	✓		✓	> Standard total system connection ratio limit: 50 ~ 130%
													<b>VRV IV-W* series Water-cooled VRV RWEYQ</b>	○	○		○	○	○	○	○	> Standard total system connection ratio limit: 50 ~ 130%
													with VRV indoor units	✓			✓	✓	✓	✓	✓	
													with split indoor units	✓	✓			✓				> Only single-module systems (RWEYQ8-14T9) > Max 32 indoor units > Connection ratio: 80 ~ 130% > only in heat pump version
													with HT hydrobox	✓		✓						
													AHU connection	✓					✓			> Total system connection ratio with AHU + X indoor is 50 ~ 110% > Total system connection ratio with AHU only is 90~110%

○ ... connection of indoor unit possible, but not necessarily simultaneously with other allowed indoor units  
 ✓ ... connection of indoor unit possible even simultaneously with other checked units in the same row  
 × ... connection of indoor not possible on this outdoor unit system



LOOP BY DAIKIN VRV IV+ HEAT RECOVERY



PARK PHI  
BREAM EXCELLENT OFFICE BUILDING  
WATERCOOLED VRV



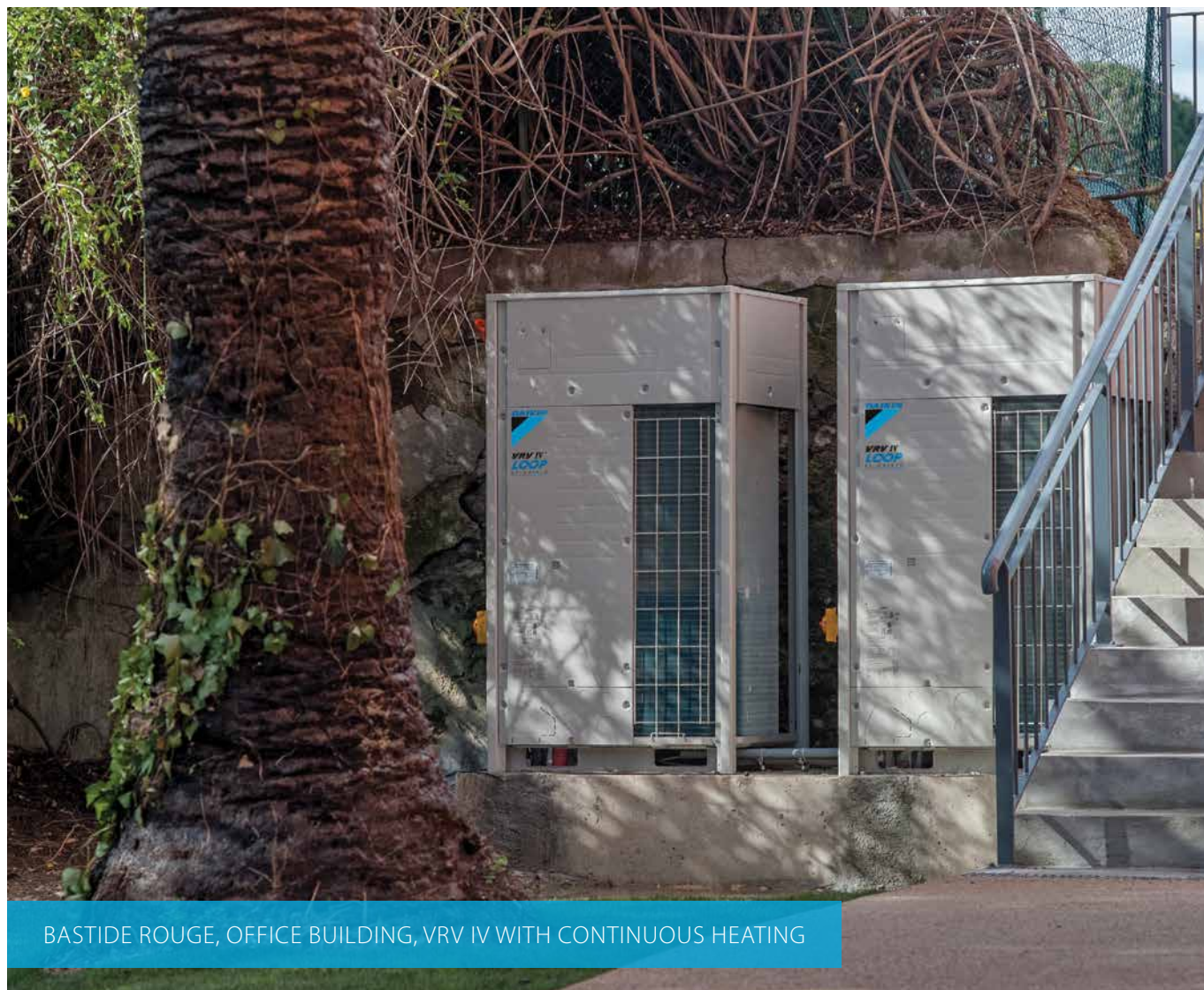
VRV IV i-SERIES VRV IV HEAT PUMP  
FOR INDOOR INSTALLATION



HOTEL LE PIGONNET, 8 REPLACEMENT VRV



L∞P BY DAIKIN  
VRV IV S-SERIES

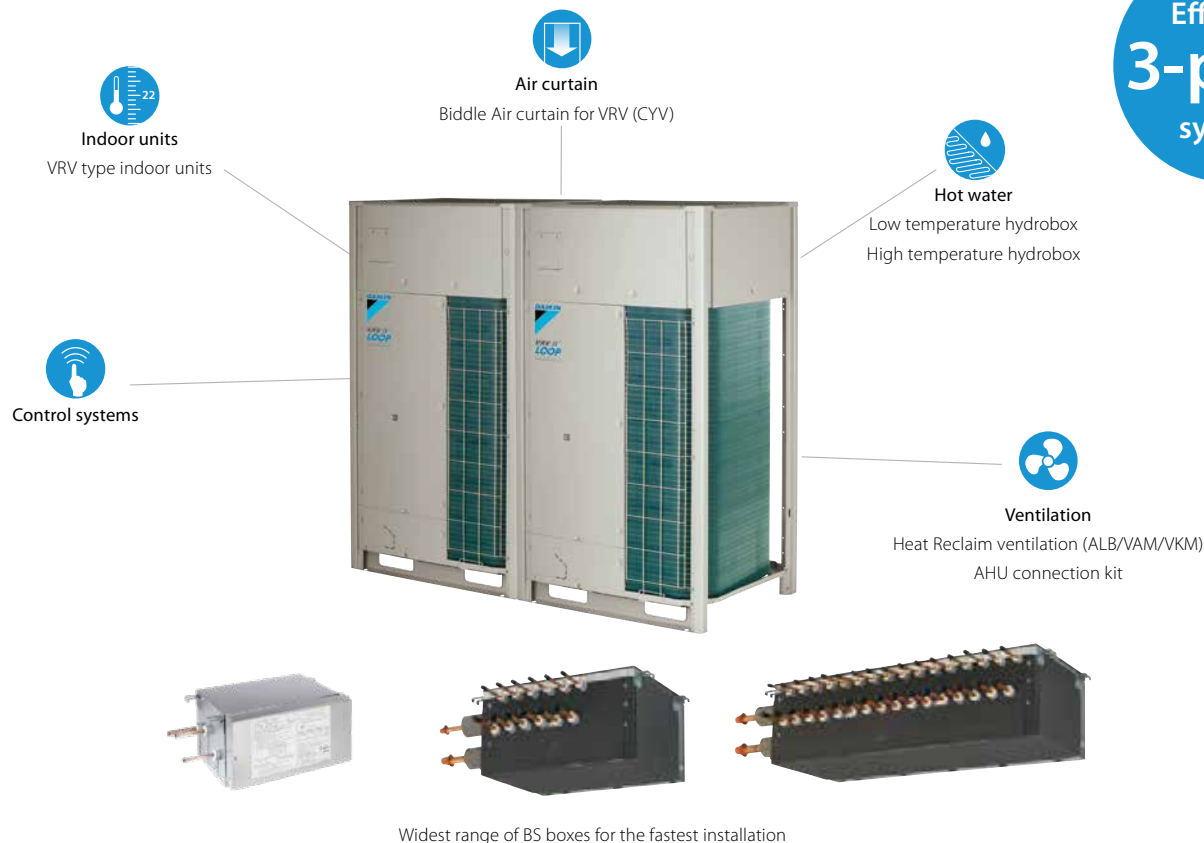


BASTIDE ROUGE, OFFICE BUILDING, VRV IV WITH CONTINUOUS HEATING

# VRV IV<sup>+</sup> heat recovery

## Best efficiency and comfort solution

Efficient  
**3-pipe**  
system



**LOOP**  
BY DAIKIN

## VRV IV standards:

### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

### Continuous heating

The new standard in heating comfort

### VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to LT hydrobox for hot water
- > Connectable to HT hydrobox for hot water
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function



# VRV IV BS boxes

## Maximum design flexibility and installation speed

- › Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- › A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- › Free combination of single and multi BS boxes

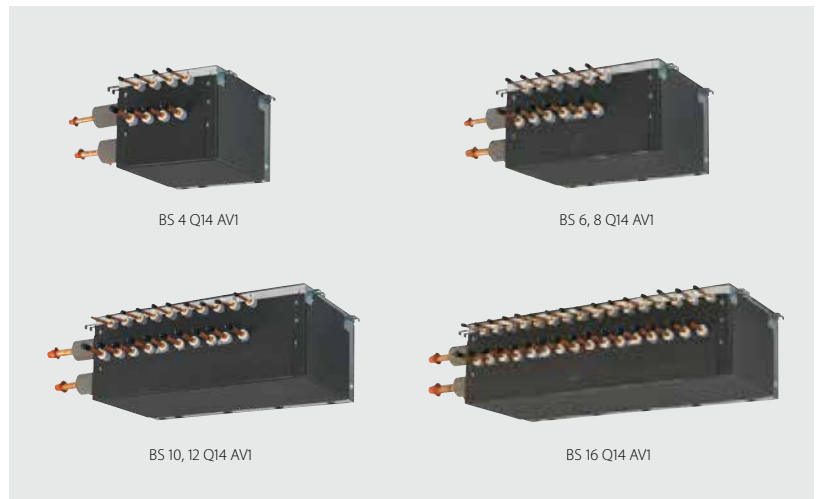
### Single port

- › Unique to the market
- › Compact and light to install
- › No drain piping needed
- › Ideal for remote rooms
- › Technical cooling function
- › Connect up to 250 class unit (28 kW)
- › Allows multi-tenant applications



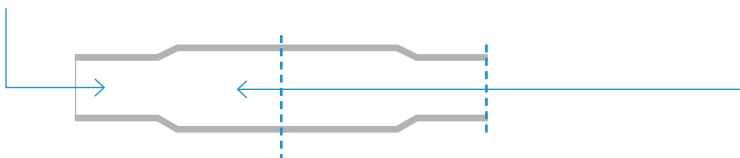
### Multi port: 4 – 6 – 8 – 10 – 12 – 16

- › Up to 55% smaller and 41% lighter than previous range
- › Faster installation thanks to a reduced number of brazing points and wiring
- › All indoor units connectable to one BS box
- › Fewer inspection ports needed
- › Up to 16 kW capacity available per port
- › Connect up to 250 class unit (28kW) by combining 2 ports
- › No limit on unused ports, permitting phased installation
- › Allows multi-tenant applications



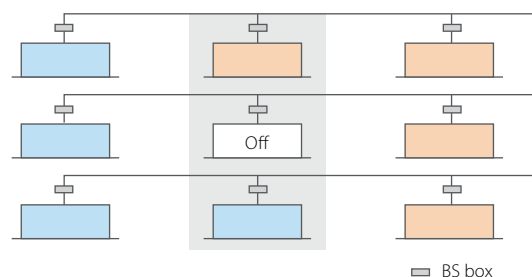
### Faster installation thanks to open connection

- › No need to cut the pipe before brazing – for indoor units smaller or equal to 5.6 kW (50 class)
- › Cut and braise the pipe – for indoor units bigger or equal to 7.1 kW (63 class)



## Maximum comfort at all times

With the VRV BS box, any indoor unit not being used to switch between heating and cooling maintains the constant desired temperature. This is because our heat recovery system does not need to equalise pressure over the entire system after a change-over.





# VRV IV+ heat recovery

## Best efficiency & comfort solution

- › Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8 !
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- › „Free“ heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- › The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- › Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- › Free combination of outdoor units to meet installation space or efficiency requirements
- › Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- › Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- › Contains all standard VRV features



BYDAIKIN

For units made and sold in Europe\*



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

Outdoor unit		REYQ	8U	10U	12U	14U	16U	18U	20U	
Capacity range	HP		8	10	12	14	16	18	20	
Cooling capacity	Prated,c	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0	
Heating capacity	Prated,h	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	
	Max. 6°CWB	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	
Recommended combination			4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB	
ηs,c	%		286.1	264.8	257.0	255.8	243.1	250.6	246.7	
ηs,h	%		165.1	169.7	183.8	168.3	167.5	172.5	162.7	
SEER			7.2	6.7	6.5		6.2	6.3	6.2	
SCOP			4.2	4.3	4.7		4.3	4.4	4.1	
Maximum number of connectable indoor units						64 (1)				
Indoor index connection	Min.		100.0	125.0	150.0	175.0	200.0	225.0	250.0	
	Max.		260.0	325.0	390.0	455.0	520.0	585.0	650.0	
Dimensions	Unit HeightxWidthxDepth	mm	1,685x930x765			1,685x1,240x765				
Weight	Unit	kg	230			314		317		
Sound power level	Cooling	Nom.	dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
	Heating	Prated,h	dBA	79.6	80.9	83.5	83.9	86.9	85.3	89.8
Sound pressure level	Cooling	Nom.	dBA	57.0		61.0	60.0	63.0	62.0	65.0
Operation range	Cooling	Min.-Max.	°CDB						-5.0 ~43.0	
	Heating	Min.-Max.	°CWB						-20.0 ~15.5	
Refrigerant	Type/GWP								R-410A/2,087.5	
	Charge	kg/TCO2eq	9.7 /20.2	9.8 /20.5	9.9 /20.7			11.8 /24.6		
Piping connections	Liquid	OD	mm	9.5		12.7		15.9		
	Gas	OD	mm	19.1	22.2			28.6		
	HP/LP gas	OD	mm	15.9	19.1		22.2		28.6	
	Total piping length	System Actual	m	1,000						
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415							
Current - 50Hz	Maximum fuse amps (MFA)	A	20	25	32	40		50		

Outdoor unit system		REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	30U	32U
System	Outdoor unit module 1		REMQ5U		REYQ8U		REYQ10U		REYQ8U	REYQ12U		REYQ16U	
	Outdoor unit module 2		REMQ5U	REYQ8U		REYQ10U	REYQ12U		REYQ16U	REYQ14U	REYQ16U	REYQ18U	REYQ16U
Capacity range	HP		10	13	16	18	20	22	24	26	28	30	32
Cooling capacity	Prated,c	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
Heating capacity	Prated,h	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
	Max. 6°CWB	kW	32.0	41.0	50.0	56.5	62.5	69.0	75.0	82.5	87.5	94.0	100.0
Recommended combination			4 x FXFQ63AVEB	3 x FXFQ50AVEB + 3 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB	10 x FXFQ50AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	7 x FXFQ50AVEB + 5 x FXFQ63AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 5 x FXFQ63AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB
ηs,c	%		275.1	301.3	288.6	272.9	266.0	260.4	257.7	257.5	251.9	266.8	243.1
ηs,h	%		158.8	160.6	168.2	167.9	175.7	178.5	167.6	175.5	174.8	179.4	169.1
SEER			7.0	7.6	7.3	6.9	6.7	6.6	6.5		6.4	6.7	6.2
SCOP			4.0	4.1		4.3		4.5	4.3	4.5	4.4	4.6	4.3
Maximum number of connectable indoor units			64 (1)										
Indoor index connection	Min.		125.0	163.0	200.0	225.0	250.0	275.0	300.0	325.0	350.0	375.0	400.0
	Max.		325.0	423.0	520.0	585.0	650.0	715.0	780.0	845.0	910.0	975.0	1,040.0
Piping connections	Liquid	OD	mm	9.5	12.7		15.9			19.1			
	Gas	OD	mm	22.2	28.6			34.9					
	HP/LP gas	OD	mm	19.1	22.2		28.6						
	Total piping length	System Actual	m	500				1,000					
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415										
Current - 50Hz	Maximum fuse amps (MFA)	A	40			50		63			80		



More details and final information can be found by scanning or clicking the QR codes.



Outdoor unit system		REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U		
System	Outdoor unit module 1		REYQ16U		REYQ8U	REYQ10U		REYQ12U	REYQ14U	REYQ16U		REYQ18U	REYQ18U		
	Outdoor unit module 2		REYQ18U		REYQ20U	REYQ12U		REYQ16U		REYQ16U		REYQ18U			
	Outdoor unit module 3		-		REYQ18U		REYQ16U		REYQ16U		REYQ18U		REYQ18U		
Capacity range		HP	34	36	38	40	42	44	46	48	50	52	54		
Cooling capacity	Prated,c	kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2		
Heating capacity	Prated,h	kW	95.4	97.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2		
	Max. 6°CWB	kW	106.5	113.0	119.0	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5		
Recommended combination			3x FXFQ50AVEB + 2x FXFQ30AVEB + 9x FXFQ63AVEB + 2x FXFQ80AVEB		2x FXFQ50AVEB + 10x FXFQ63AVEB + 2x FXFQ80AVEB		6x FXFQ50AVEB + 9x FXFQ63AVEB + 9x FXFQ80AVEB		12x FXFQ63AVEB + 4x FXFQ80AVEB		6x FXFQ50AVEB + 1x FXFQ30AVEB + 12x FXFQ63AVEB + 6x FXFQ80AVEB		3x FXFQ50AVEB + 6x FXFQ30AVEB + 13x FXFQ63AVEB + 4x FXFQ80AVEB + 2x FXFQ80AVEB		
η <sub>s,c</sub>	%		259.2	255.3	269.2	259.6	250.2	249.3	246.8	243.1	254.4	265.7	275.2		
η <sub>s,h</sub>	%		172.0	166.3	176.0	176.1	167.8	171.9	168.8	168.5	170.3	171.7	173.3		
SEER			6.6	6.5	6.8	6.6		6.3		6.2	6.4	6.7	7.0		
SCOP			4.4	4.2		4.5	4.3	4.4		4.3			4.4		
Maximum number of connectable indoor units			64 (1)												
Indoor index connection	Min.		425.0	450.0	475.0	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0		
	Max.		1,105.0	1,170.0	1,235.0	1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0		
Piping connections	Liquid OD	mm	19.1												
	Gas OD	mm	34.9		41.3										
	HP/LP gas OD	mm	28.6		34.9										
	Total piping System length	m	1,000												
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415												
Current - 50Hz	Maximum fuse amps (MFA)	A	80		100						125				
Outdoor unit module		REMQR	5U												
Dimensions	Unit HeightxWidthxDepth	mm	1,685x930 x765												
Weight	Unit	kg	230												
Fan	External static pressure	Pa	78												
Sound power level	Cooling Nom.	dBA	78.0												
	Heating Prated,h	dBA	79.6												
Sound pressure level	Cooling Nom.	dBA	57.0												
Operation range	Cooling Min.~Max.	°CDB	-5.0 ~43.0												
	Heating Min.~Max.	°CWB	-20.0 ~15.5												
Refrigerant	Type/GWP		R-410A/2,087.5												
	Charge	kg/TCO <sub>2</sub> Eq	9.7/20.2												
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415												
Current - 50Hz	Maximum fuse amps (MFA)	A	20												

Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system (50% ≤ CR ≤ 120%) | Contains fluorinated greenhouse gases  
 \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

## Individual branch selector for VRV IV heat recovery

- › Unique range of single and multi BS boxes for flexible and fast design
- › Compact & light to install
- › Ideal for remote rooms as no drain piping is needed
- › Allows integration of server rooms into the heat recovery solution thanks to technical cooling function
- › Connect up to 250 class unit (28kW)
- › **UNIQUE** Faster installation thanks to open port connection
- › Allows multi tenant applications
- › Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T9 heat recovery units



BS1Q-A

More details and final information can be found by scanning or clicking the QR codes.



BS1Q-A

Indoor unit		BS		1Q10A	1Q16A	1Q25A
Power input	Cooling	Nom.	kW	0.005		
	Heating	Nom.	kW	0.005		
Maximum number of connectable indoor units				6	8	
Maximum capacity index of connectable indoor units				15 < x ≤ 100	100 < x ≤ 160	160 < x ≤ 250
Dimensions	Unit	HeightxWidthxDepth		mm		
				207x388x326		
Weight	Unit			12	15	
Casing	Material		Galvanised steel plate			
Piping connections	Outdoor unit	Liquid	OD	mm		
		Gas	OD	mm		
		Discharge gas	OD	mm		
	Indoor unit	Liquid	OD	mm		
		Gas	OD	mm		
Sound absorbing thermal insulation				Foamed polyurethane Flame-resistant needle felt		
Power supply	Phase		1~			
	Frequency		Hz			
	Voltage		V			
	Maximum fuse amps (MFA)		A			

# Multi branch selector for VRV IV heat recovery

- › Unique range of single and multi BS boxes for flexible and fast design
- › Major reduction in installation time thanks to wide range, compact size and light weight multi BS boxes
- › Up to 70% smaller and 66% lighter than previous series
- › Faster installation thanks to a reduced number of brazing points and wiring
- › All indoor units connectable to one BS box
- › Less inspection ports needed compared to installing single BS boxes
- › Up to 16kW capacity available per port
- › Connect up to 250 class unit (28kW) by combining 2 ports
- › No limit on unused ports allowing phased installation
- › **UNIQUE** Faster installation thanks to open port connection
- › **UNIQUE** Refrigerant filters for high reliability
- › Allows multi tenant applications
- › Connectable to REYQ-T, RQCEQ-P3 and RWEYQ-T9 heat recovery units



BS6,8Q14AV1B

More details and final information can be found by scanning or clicking the QR codes.



BS-Q14AV1B

Indoor unit		BS		4Q14AV1B	6Q14AV1B	8Q14AV1B	10Q14AV1B	12Q14AV1B	16Q14AV1B		
Power input	Cooling	Nom.	kW	0.043	0.064	0.086	0.107	0.129	0.172		
	Heating	Nom.	kW	0.043	0.064	0.086	0.107	0.129	0.172		
Maximum number of connectable indoor units				20	30	40	50	60	64		
Maximum number of connectable indoor units per branch				5							
Number of branches				4	6	8	10	12	16		
Maximum capacity index of connectable indoor units				400	600	750					
Maximum capacity index of connectable indoor units per branch				140							
Dimensions	Unit	HeightxWidthxDepth		mm	298x370x430	298x580x430		298x820x430		298x1,060x430	
Weight	Unit			kg	17	24	26	35	38	50	
Casing	Material		Galvanised steel plate								
Piping connections	Outdoor unit	Liquid	OD	mm	9.5	12.7	12.7 / 15.9	15.9	15.9 / 19.1		19.1
		Gas	OD	mm	22.2 / 19.1	28.6 / 22.2	28.6		28.6 / 34.9		34.9
		Discharge gas	OD	mm	19.1 / 15.9	19.1 / 22.2	19.1 / 22.2 / 28.6		28.6		
	Indoor unit	Liquid	OD	mm	9.5 / 6.4						
		Gas	OD	mm	15.9 / 12.7						
Drain				VP20 (I.D. 20/O.D. 26)							
Sound absorbing thermal insulation				Urethane foam, polyethylene foam							
Power supply	Phase		1~								
	Frequency		Hz								50
	Voltage		V								220-440
	Maximum fuse amps (MFA)		A								15

# VRV IV<sup>+</sup> heat pump

## Daikin's optimum solution with top comfort



**LOOP**  
BY DAIKIN

## VRV IV standards:

### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

### Continuous heating

The new standard in heating comfort

### VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units (Only for single modules)
- > Connectable to LT hydrobox (1)
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

(1) Special order unit needed to connect LT hydroboxes with multi outdoor unit systems  
For detailed explanation of these functions refer to vrv iv technologies tab

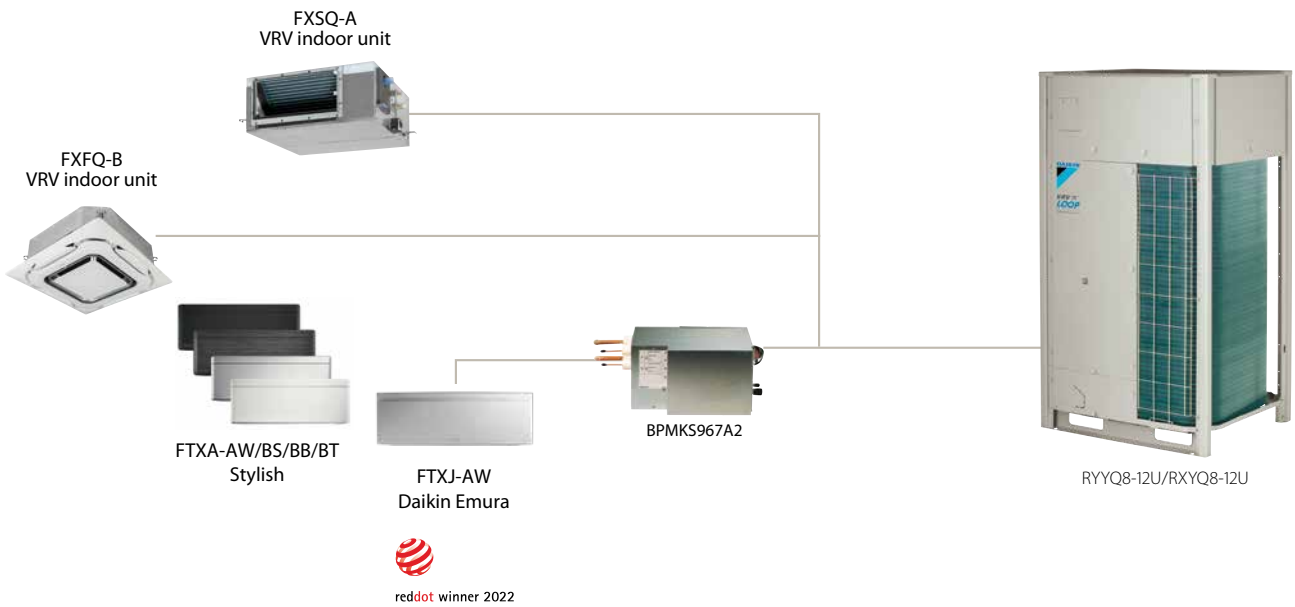




Mix of  
RA units &  
VRV units

## Wide range of indoor units

Freely combine VRV indoor units with stylish indoor units (Daikin Emura, ...)



## Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•		•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•		•		

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

# VRV IV

# proven in practice: 40% more efficient

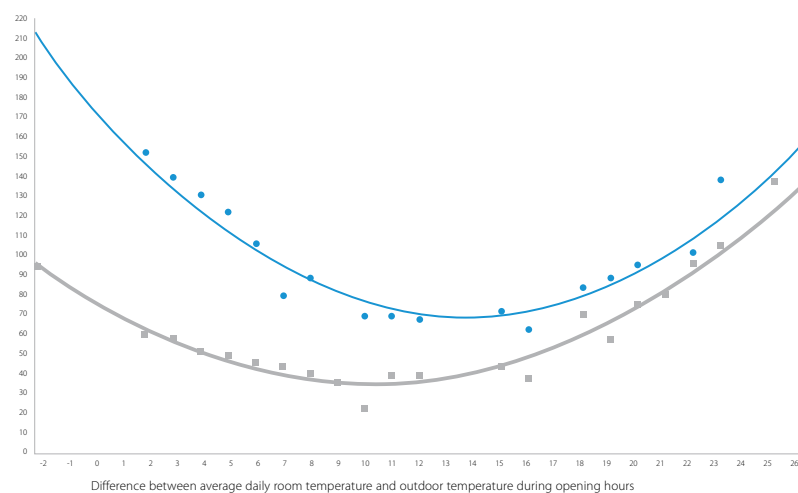
A field trial at a German fashion chain store demonstrated how the innovative features of VRV IV have improved energy efficiency dramatically over previous models.

## Results: up to 60% less energy consumed

The results of the trial showed that the new VRV IV system consumed much less energy, particularly when cooling, compared with the VRV III system – in some cases up to 60% less. When heating, savings were an average of 20%.

The Unterhaching trial demonstrates how VRV IV heat pump technology uses a renewable energy source – air – to provide a complete and environmentally sustainable solution for heating, cooling, and ventilation in commercial environments. The trial also shows that businesses can only identify and control energy wastage through careful and intelligent monitoring of climate control systems, a service which Daikin can offer.

Average daily consumption during working hours in kWh



- Energy use VRV III in 2012 in kWh
- Energy use VRV IV in 2013 in kWh
- Trendline energy use VRV III
- Trendline energy use VRV IV

	VRV III 20HP (2 modules)	VRV IV 18HP (1 module)
<b>Period</b>	March 2012 - February 2013	March 2013 - February 2014
<b>Avg (kWh/Month)</b>	2.797	1.502
<b>Total (KWh)</b>	33.562	18.023
<b>Total (€)</b>	6.041	3.244
<b>Yearly (operation cost/m<sup>2</sup> (€/m<sup>2</sup>))</b>	<b>9,9</b>	<b>5,3</b>
<b>46% savings = € 2.797</b>		

## Measured data

### Fashion store Unterhaching (Germany)

- > Floor space: 607m<sup>2</sup>
- > Energy cost: 0,18 €/kWh
- > System taken into account for consumption:
  - VRV IV heat pump with continuous heating
  - Round flow cassettes (without auto cleaning panel)
  - VAM for ventilation (2x VAM2000)
  - Biddle Air curtain.



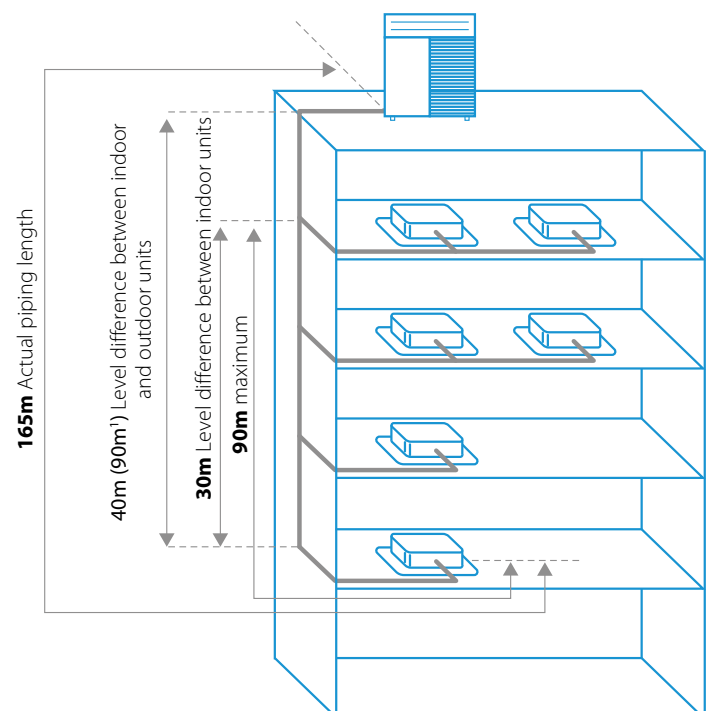
## Free combination of outdoor units

Freely combine outdoor units to optimise for small footprint, continuous heating, highest efficiency or any other combination

## Flexible piping design

Total piping length	1000m
Longest length actual (Equivalent)	165m (190m)
Longest length after first branch	90m <sup>1</sup>
Level difference between indoor and outdoor units	90m <sup>1</sup>
Level difference between indoor units	30m

1 Contact your local dealer for more information and restrictions  
 2 in case outdoor unit is located below indoor units



# VRV IV+ heat pump

## Daikin's optimum solution with top comfort

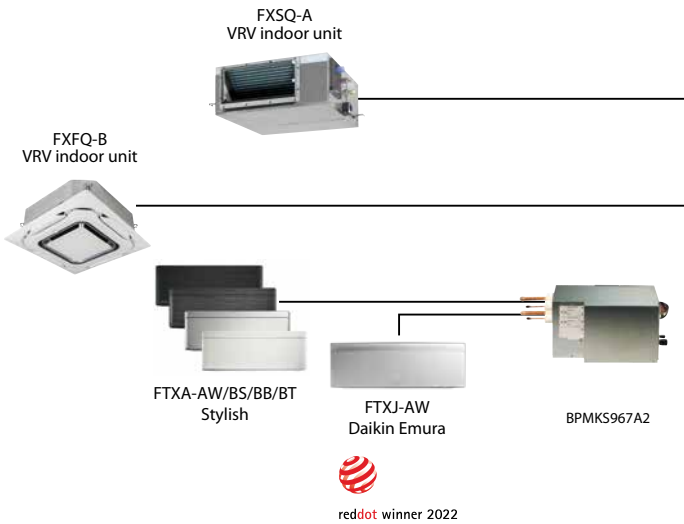
- › By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit [www.daikin.eu/loop-bydaikin](http://www.daikin.eu/loop-bydaikin)
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains
- › Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor
- › Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- › Free combination of outdoor units to meet installation space or efficiency requirements
- › Available as heating only by irreversible field setting
- › Contains all standard VRV features



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

Outdoor unit		RYYQ/RXYQ	8U	10U	12U	14U	16U	18U	20U		
Capacity range		HP	8	10	12	14	16	18	20		
Cooling capacity	Prated,c	kW	22.4	28.0	33.5	40.0	45.0	50.4	52.0		
Heating capacity	Prated,h	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0		
	Max. 6°CWB	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0		
Recommended combination			4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB		
ηs,c		%	302.4	267.6	247.8	250.7	236.5	238.3	233.7		
ηs,h		%	167.9	168.2	161.4	155.4	157.8	163.1	156.6		
SEER			7.6	6.8	6.3		6.0		5.9		
SCOP			4.3		4.1	4.0		4.2	4.0		
Maximum number of connectable indoor units			64 (1)								
Indoor index connection	Min.		100.0	125.0	150.0	175.0	200.0	225.0	250.0		
	Max.		260.0	325.0	390.0	455.0	520.0	585.0	650.0		
Dimensions	Unit	HeightxWidthxDepth	mm			mm					
			1,685x930x765			1,685x1,240x765					
Weight	Unit		kg			319		378			
Sound power level	Cooling	Nom.	dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9	
	Heating	Prated,h	dBA	79.6	80.9	83.5	83.1	86.5	85.3	89.8	
Sound pressure level	Cooling	Nom.	dBA	57.0		61.0	60.0	63.0	62.0	65.0	
Operation range	Cooling	Min.-Max.	°CDB	-5.0 ~43.0							
	Heating	Min.-Max.	°CWB	-20.0 ~15.5							
Refrigerant	Type/GWP		R-410A/2,087.5								
	Charge	kg/TCO2Eq	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	10.4/21.7	11.7/24.4	11.8/24.6		
Piping connections	Liquid	OD	mm	9.52		12.7		15.9			
	Gas	OD	mm	19.1	22.2	28.6					
	Total piping length	System	Actual	m							
				1,000							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415								
Current - 50Hz	Maximum fuse amps (MFA)	A	20	25	32		40		50		
Outdoor unit system		RYYQ/RXYQ	22U	24U	26U	28U	30U	32U	34U	36U	38U
System	Outdoor unit module 1		10	8	12			16		8	
	Outdoor unit module 2		12	16	14	16	18	16	18	20	10
	Outdoor unit module 3		20								
Capacity range		HP	22	24	26	28	30	32	34	36	38
Cooling capacity	Prated,c	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4
Heating capacity	Prated,h	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	106.4
	Max. 6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5
Recommended combination			6 x FXFQ50AVEB + 4 x FXFQ63AVEB	4 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	7 x FXFQ50AVEB + 5 x FXFQ63AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 5 x FXFQ63AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB	3 x FXFQ50AVEB + 9 x FXFQ63AVEB + 2 x FXFQ80AVEB	2 x FXFQ50AVEB + 10 x FXFQ63AVEB + 2 x FXFQ80AVEB	6 x FXFQ50AVEB + 10 x FXFQ63AVEB
ηs,c		%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4
ηs,h		%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5
SEER			6.9	6.8	6.7	6.5		6.4		6.3	6.9
SCOP			4.4	4.3	4.2		4.3	4.2		4.1	4.3
Maximum number of connectable indoor units			64 (1)								
Indoor index connection	Min.		275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0
	Max.		715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0
Piping connections	Liquid	OD	mm	15.9			19.1			41.3	
	Gas	OD	mm	28.6	34.9				41.3		
	Total piping length	System	Actual	m							
				1,000							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415								
Current - 50Hz	Maximum fuse amps (MFA)	A	63			80			100		



RYYQ8-12U

Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB	●	●	●		●		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	●	●	●	●	●		
Perfera wall mounted	NEW	FTXM-R	●	●	●	●		●	●
Perfera floor standing	NEW	FVXM-R	●	●	●		●		
Floor standing unit		FVXM-A		●	●		●		

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

More details and final information can be found by scanning or clicking the QR codes.



RYYQ-U



RXYQ-U

Outdoor unit system		RYYQ/RXYQ	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor unit module 1		10		12	14		16		18
	Outdoor unit module 2		12		16				18	
	Outdoor unit module 3		18		16			18		
Capacity range	HP		40	42	44	46	48	50	52	54
Cooling capacity	Prated,c	kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Prated,h	kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
	Max. 6°CWB	kW	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Recommended combination			9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 8 x FXFQ63AVEB + 4 x FXFQ80AVEB	1 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	12 x FXFQ63AVEB + 6 x FXFQ80AVEB	3 x FXFQ50AVEB + 13 x FXFQ63AVEB + 4 x FXFQ80AVEB	6 x FXFQ50AVEB + 14 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 15 x FXFQ63AVEB
ηs,c	%		263.5	261.2	255.9	254.9	251.7	252.8	253.7	254.1
ηs,h	%		170.0	165.5	164.5	162.0	162.8	165.2	167.2	169.4
SEER			6.7	6.6	6.5			6.4		
SCOP			4.3	4.2		4.1		4.2	4.3	
Maximum number of connectable indoor units			64 (1)							
Indoor index connection	Min.		500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
	Max.		1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Piping connections	Liquid	OD							19.1	
	Gas	OD							41.3	
	Total piping length	System Actual							1,000	
Power supply	Phase/Frequency/Voltage	Hz/V				3N~/50/380-415				
Current - 50Hz	Maximum fuse amps (MFA)	A	100					125		
Outdoor unit module		RYMQ	8U	10U	12U	14U	16U	18U	20U	
Dimensions	Unit HeightxWidthxDepth	mm	1,685 x930 x765			1,685 x1,240 x765				
Weight	Unit	kg	198			275		308		
Fan	External static Max. pressure	Pa				78				
Sound power level	Cooling	Nom.	78.0	79.1	83.4	80.9	85.6	83.8	87.9	
	Heating	Prated,h	79.6	80.9	83.5	83.1	86.5	85.3	89.8	
Sound pressure level	Cooling	Nom.	57.0		61.0	60.0	63.0	62.0	65.0	
Operation range	Cooling	Min.~Max.				-5.0 ~43.0				
	Heating	Min.~Max.				-20.0 ~15.5				
Refrigerant	Type/GWP					R-410A/2,087.5				
	Charge	kg/TCO2Eq	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	11.3/23.6	11.7/24.4	11.8/24.6	
Power supply	Phase/Frequency/Voltage	Hz/V				3N~/50/380-415				
Current - 50Hz	Maximum fuse amps (MFA)	A	20	25	32			40	50	

(1)Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% <= CR <= 130%) | Contains fluorinated greenhouse gases

\* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



# VRV IV S-series heat pump

## The most compact VRV

Most compact unit on the market  
823mm high & 94kg



Control systems



Indoor units

VRV type indoor units  
Residential type indoor units  
(such as Daikin Emura)



Air curtain

Biddle Air curtain for VRV (CYV)



Ventilation

Heat Reclaim ventilation  
ALB/VAM/VKM AHU  
connection kit



RXYSQ4,5,6TV1

RXYSQ4,5,6TV9/TY9

RXYSQ8, 10, 12TY1

## LOOP

BY DAIKIN

for RXYSQ4,5,6TV9/TY9 units

## VRV IV standards:

### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

### VRV configurator

Software for simplified commissioning, configuration and customisation

- › Refrigerant containment check
- › Night quiet mode
- › Low noise function
- › Connectable to stylish indoor units
- › Full inverter compressors
- › Refrigerant cooled PCB (not available on RXYSQ4,5,6,8 TY9/TY1)
- › Reluctance brushless DC compressor
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function

For detailed explanation of these functions refer to vrv iv technologies tab

## Widest range of front blow units on the market



## Lowest height on the market

### Ideal for roof installations

› The low height mini VRV can be hidden in many places where a twin fan unit cannot due to its height.

### Ideal to install below a window on a Balcony

› Daikin VRV IV S-series compact can be installed discretely on a balcony thanks to its compact dimensions, offering you air conditioning while being almost unnoticeable.



Unnoticeable for parapet installation

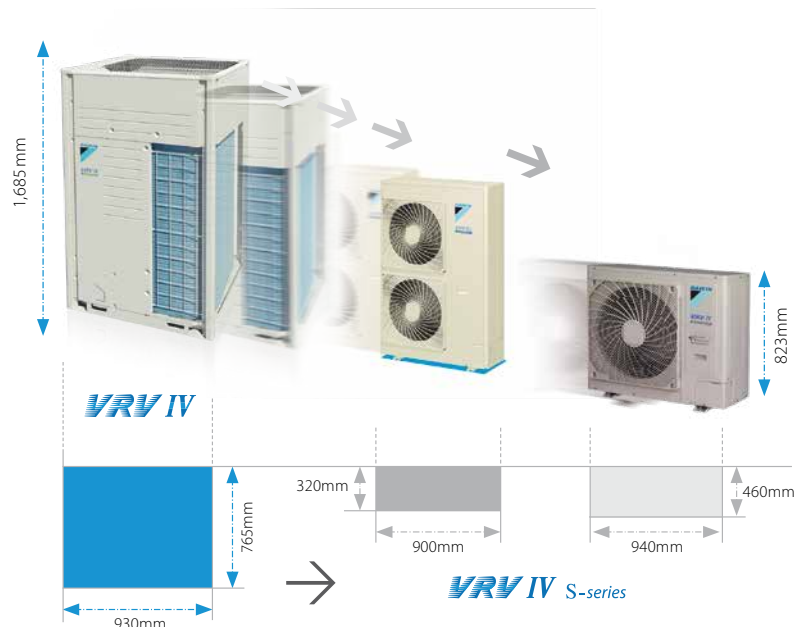


Low height make the unit invisible from inside and unnoticeable from the outside



## Space saving design

The VRV S-series is slimmer and more compact, resulting in significant savings in installation space.



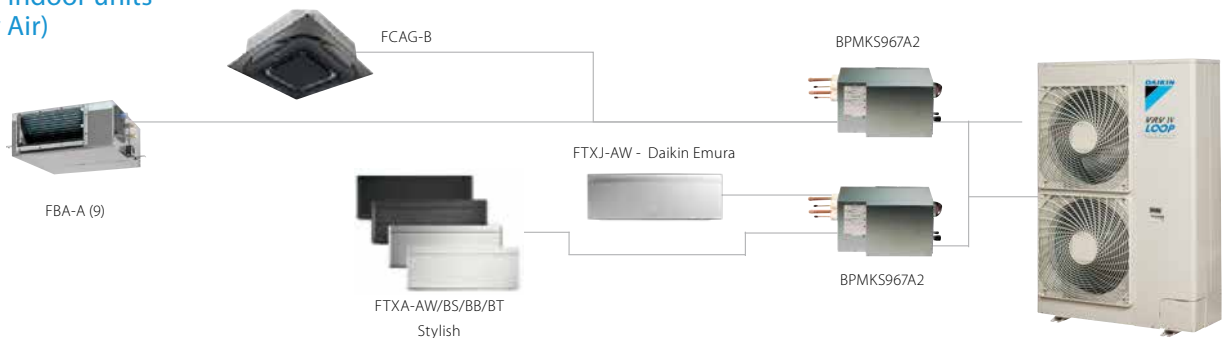


## Wide range of indoor units

Connect VRV units...



... or stylish indoor units (RA and Sky Air)



## Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	<b>NEW</b> FTXJ-AW/AS/AB		•	•	•		•		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		•	•	•	•	•		
Perfera wall mounted	<b>NEW</b> FTXM-R	•	•	•	•	•		•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	•
Perfera floor standing	<b>NEW</b> FVXM-A		•	•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Concealed floors tanding unit	FNA-A9			•	•		•	•	

For more info about Daikins stylish indoor units, please check our indoor unit-portfolio

\* VRV indoor units and stylish indoor units cannot be combined.

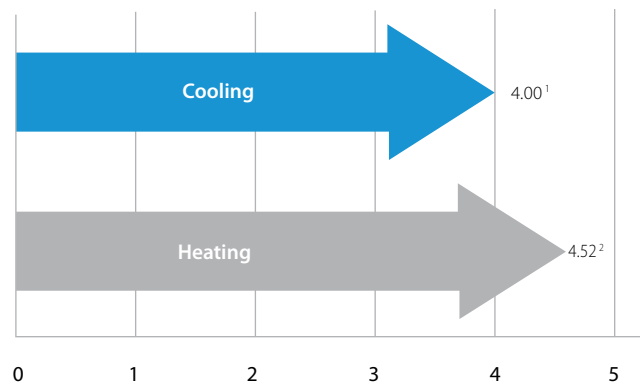
\* To connect stylish indoor units a BPMKS unit is needed



## High COP values

A major feature of VRV IV S-series is its exceptional energy efficiency. The system achieves high COPs during both cooling and heating operation by the use of refined components and functions.

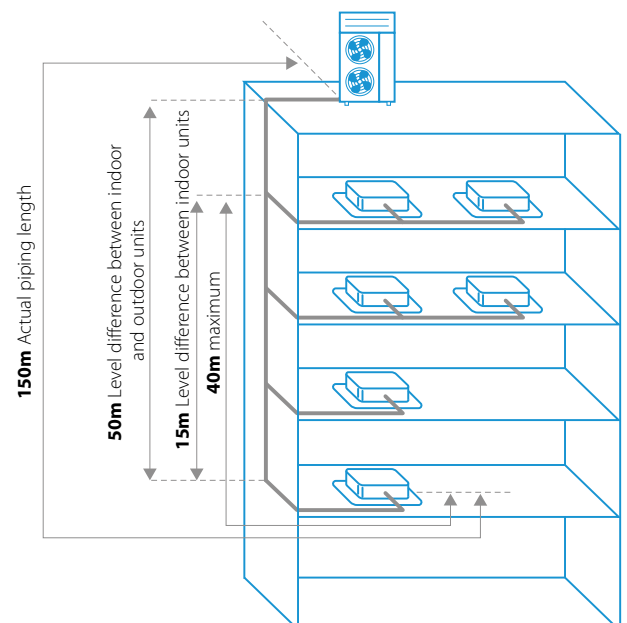
- <sup>1</sup> Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.
- <sup>2</sup> Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m



## Flexible piping design

	VRV indoors connected	Stylish indoors connected
Total piping length	300m	140m
Longest length actual	120m (4-8HP)/ 150m (10-12HP)	
Minimum length between outdoor unit and first branch	-	5m
Minimum piping length between BP and indoor unit	-	2m
Maximum piping length between BP and indoor unit	-	15m
Longest length after first branch	40m	40m
Level difference between indoor and outdoor units	50m (40m <sup>1</sup> )	30m
Level difference between indoor units	15m	15m

<sup>1</sup> Outdoor unit in lowest position





# VRV IV S-series technologies

## Super aero grille

The spiral shaped ribs are aligned with the direction of discharge flow in order to minimise turbulence and reduce noise.

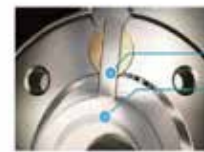
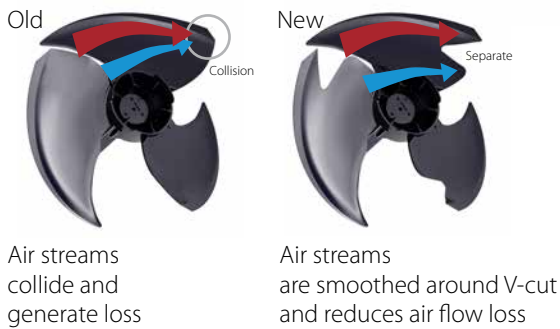


## Refrigerant-cooled PCB

- > Reliable cooling because it is not influenced by ambient air temperature
- > Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%



## Improved fan blades



Vane fixed to rotor  
Rotor

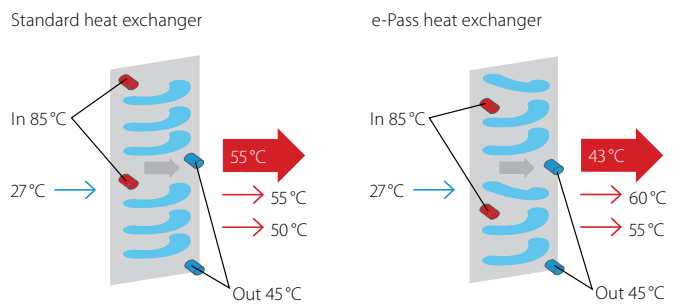
## Compressor

Swing type > **no oil separator**  
Vane & rotor are unified resulting in:

- > Reduced noise level
- > Longer compressor life
- > Higher efficiency thanks to the absence of internal refrigerant leakage between high and low pressure side

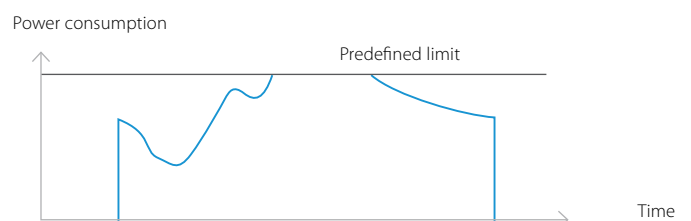
## E-Pass heat exchanger

Optimising the heat exchanger's path layout prevents heat being transferred from the overheated gas section to the sub-cooled liquid section which is a more efficient way to use the heat exchanger.

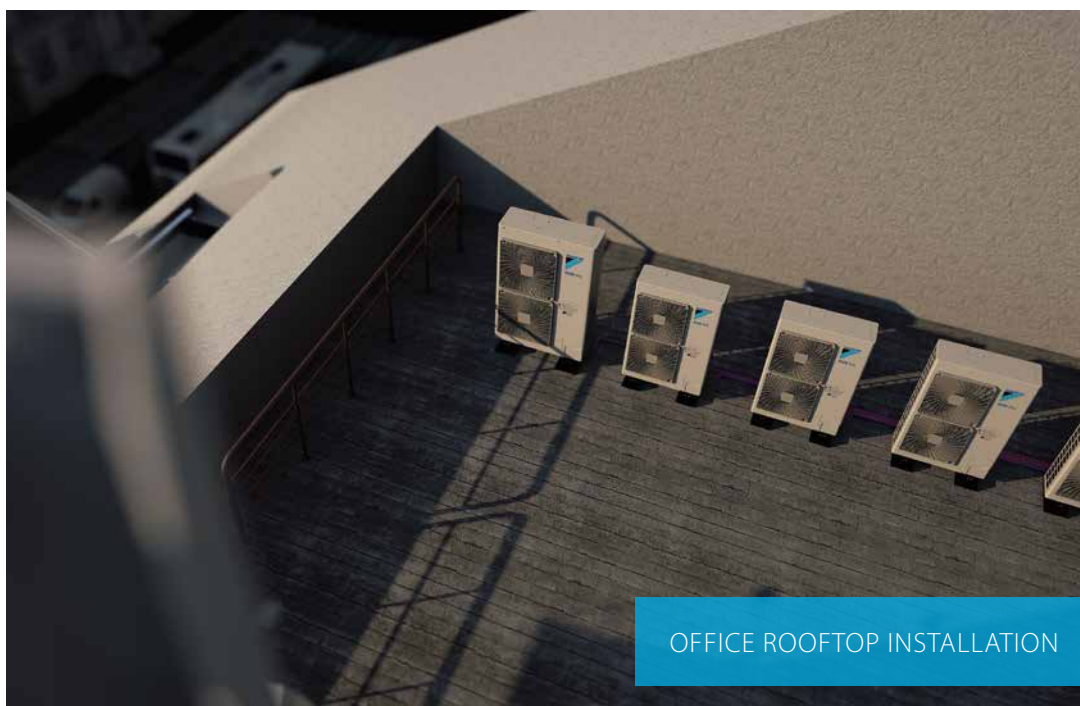
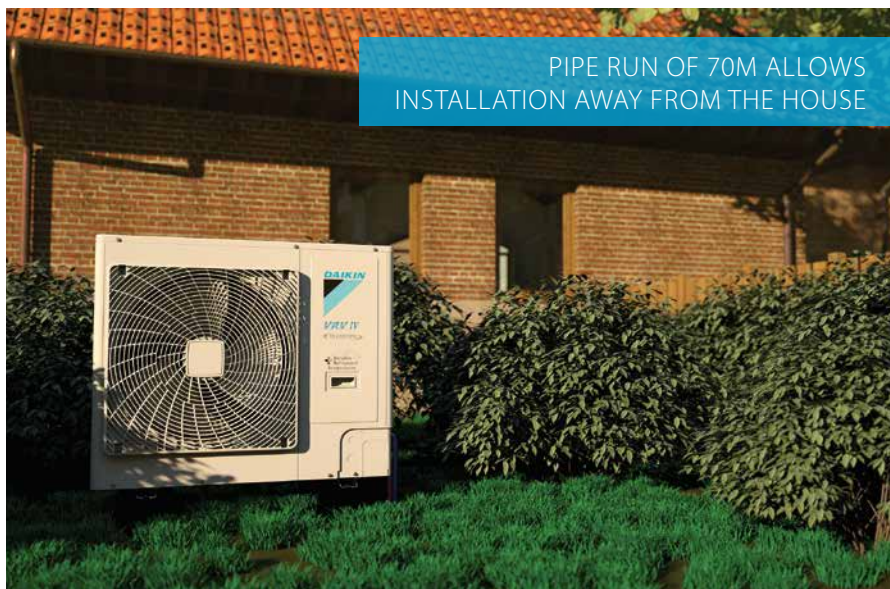


## I-demand function

Limit maximum power consumption. The newly introduced current sensor minimizes the difference between the actual power consumption and the predefined power consumption.







# VRV IV S-series compact heat pump

## The most compact VRV

- › Compact & lightweight single fan design makes the unit almost unnoticeable
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- › Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera ...
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- › Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- › Night quiet mode reduces sound pressure with up to 8dBa
- › Contains all standard VRV features



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

## Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	NEW FTXJ-AW/AS/AB		•	•	•		•		
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		•	•	•	•	•		
Perfera wall mounted	NEW FTXM-R	•	•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	•
Perfera floor standing	NEW FVXM-A		•	•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Concealed floors tanding unit	FNA-A9			•	•		•	•	

More details and final information can be found by scanning or clicking the QR codes.



RXYSQ-TV1

Outdoor unit		RXYSQ	4TV1	5TV1	6TV1	
Capacity range		HP	4	5	6	
Cooling capacity	Prated,c	kW	12.1	14.0	15.5	
Heating capacity	Prated,h	kW	12.1	14.0	15.5	
	Max. 6°CWB	kW	14.2	16.0	18.0	
Recommended combination			3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB	
ηs,c		%	322.8	303.4	281.3	
ηs,h		%	182.3	185.1	186.0	
SEER			8.1	7.7	7.1	
SCOP			4.6		4.7	
Maximum number of connectable indoor units				64 (1)		
Indoor index connection	Min.		50.0	62.5	70.0	
	Max.		130.0	162.5	182.0	
Dimensions	Unit	HeightxWidthxDpeth	mm			
Weight	Unit		kg			
Sound power level	Cooling	Nom.	dBA	68.0	69.0	70.0
	Heating	Prated,h	dBA	69.0	70.0	71.0
Sound pressure level	Cooling	Nom.	dBA	51.0	52.0	53.0
Operation range	Cooling	Min.~Max.	°CDB	-5.0 ~46.0		
	Heating	Min.~Max.	°CWB	-20.0 ~15.5		
Refrigerant	Type/GWP		R-410A/2,087.5			
	Charge	kg/TCO2eq	3.7/7.7			
Piping connections	Liquid	OD	mm			
	Gas	OD	mm		19.1	
	Total piping System	Actual length	m			
			300			
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50 /220-240			
Current - 50Hz	Maximum fuse amps (MFA)	A	32			

(1)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). | Contains fluorinated greenhouse gases

# VRV IV S-series heat pump

## Space saving solution without compromising on efficiency

- › By choosing this product with Certified Reclaimed Refrigerant Allocation you support the reuse of refrigerant
- › Space saving trunk design for flexible installation
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- › Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera ...
- › Wide range of units (4 to 12HP) suitable for projects up to 200m<sup>2</sup> with space limitations
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- › Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- › Contains all standard VRV features



For units made and sold in Europe\*



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

## Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	NEW FTXJ-AW/AS/AB		•	•	•		•	•	
Stylish - Wall mounted unit	FTXA-AW/BS/BB/BT		•	•	•	•	•		
Perfera wall mounted	NEW FTXM-R	•	•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)			•	•		•	•	•
Perfera floors tanding	NEW FVXM-A		•	•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Concealed floor standing unit	FNA-A9			•	•		•	•	

More details and final information can be found by scanning or clicking the QR codes.



RXYSQ-TV9



RXYSQ-TY9



RXYSQ-TY1

Outdoor unit		RXYSQ	4TV9	5TV9	6TV9	4TY9	5TY9	6TY9	8TY1	10TY1	12TY1	
Capacity range	HP		4	5	6	4	5	6	8	10	12	
Cooling capacity	Prated,c	kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5	
Heating capacity	Prated,h	kW	12.1	14.0	15.5	12.1	14.0	15.5	22.4	28.0	33.5	
	Max. 6°CWB	kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5	
Recommended combination			3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB	3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB	4 x FXSQ50A2VEB	4 x FXSQ63A2VEB	6 x FXSQ50A2VEB	
ηs,c	%		278.9	270.1	278.0	269.2	260.5	268.3	237.8	247.4	248.6	
ηs,h	%		171.6	182.9	192.8	154.4	164.5	174.1	163.4	162.2	167.0	
SEER			7.0	6.8	7.0	6.8	6.6	6.8	6.0	6.3	6.3	
SCOP			4.4	4.6	4.9	3.9	4.2	4.4	4.2	4.1	4.3	
Maximum number of connectable indoor units			64 (1)									
Indoor index connection	Min.		50.0	62.5	70.0	50.0	62.5	70.0	100.0	125.0	150.0	
	Max.		130.0	162.5	182.0	130.0	162.5	182.0	260.0	325.0	390.0	
Dimensions	Unit	HeightxWidthxDepth	mm						1,430x940x320		1,615x940x460	
Weight	Unit		kg						144	175	180	
Sound power level	Cooling	Nom.	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0	
	Heating	Prated,h	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0	
Sound pressure level	Cooling	Nom.	50.0	51.0		50.0	51.0		55.0			
Operation range	Cooling	Min.~Max.	°CDB						-5.0 ~52.0			
	Heating	Min.~Max.	°CWB						-20.0 ~15.5			
Refrigerant	Type/GWP		R-410A/2,087.5									
	Charge	kg/TCO2Eq	3.6/7.5						5.5/11.5	7.0/14.6	8.0/16.7	
Piping connections	Liquid	OD	mm						9.52		12.70	
	Gas	OD	15.9		19.1		15.9		19.1		22.2	
	Total piping length	System Actual	m						300			
Power supply	Phase/Frequency/Voltage	Hz/V	1N~/50 /220-240				3N~/50 /380-415					
Current - 50Hz	Maximum fuse amps (MFA)	A	32			16			25		32	

(1)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). | Contains fluorinated greenhouse gases \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



# VRV IV i-series heat pump for indoor installation



**LOOP**  
BY DAIKIN

## VRV IV standards:

### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

### VRV configurator

Software for simplified commissioning, configuration and customisation

- › Night quiet mode
- › Full inverter compressors
- › Low noise function
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function

For detailed explanation of these functions refer to VRV iv technologies tab

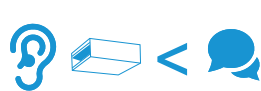
## Invisible

- › Consider a wider range of properties because outdoor installation is not a factor
- › Open for business sooner because getting building permits is simplified
- › Seamless integration into the surroundings as only the grille is visible
- › No need for a roof installation or back alley installation

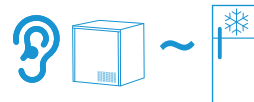


## Quiet

- › Highly suited to densely populated areas such as city centres thanks to their low operating sound
- › Dedicated modes reduce sound further to comply with inner-city noise regulations



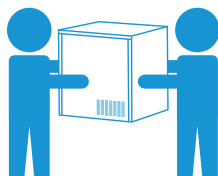
Heat exchanger sound not louder than a normal conversation



Compressor sound not louder than a refrigerator

## Lightweight parts

- › can be installed by two people



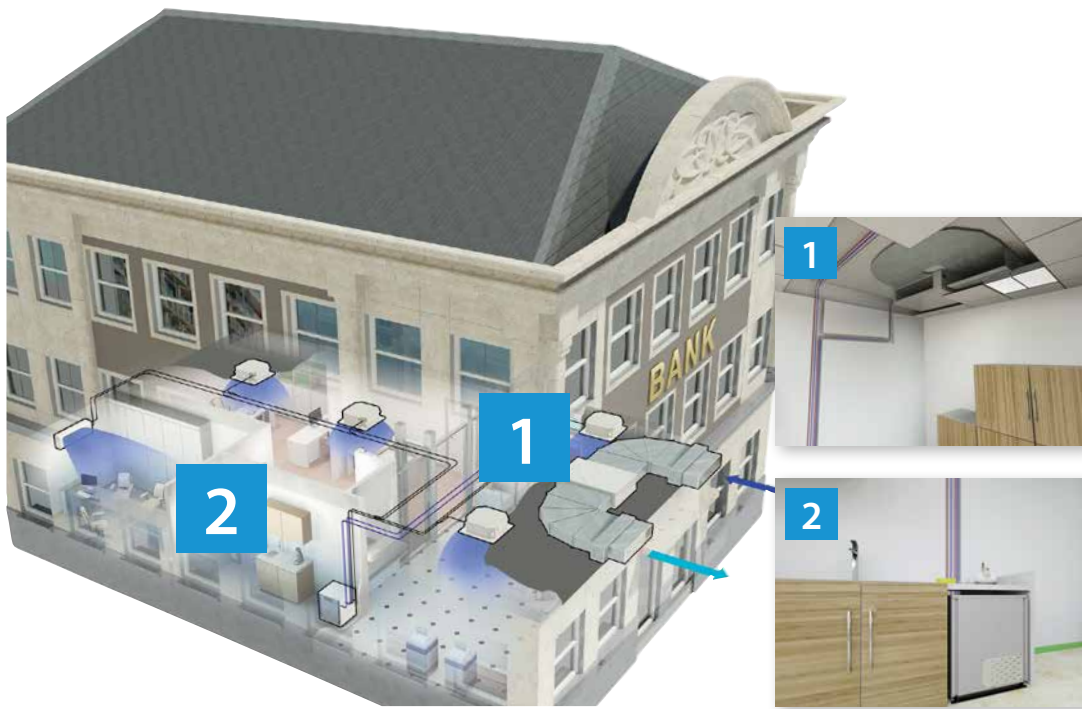


# Unique split outdoor unit for indoor installation

Compact and easy to hide, the compressor can be installed at floor level, in a back office, storage room, technical area or in a kitchen, while the

heat exchanger can be installed in a false ceiling space. This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.

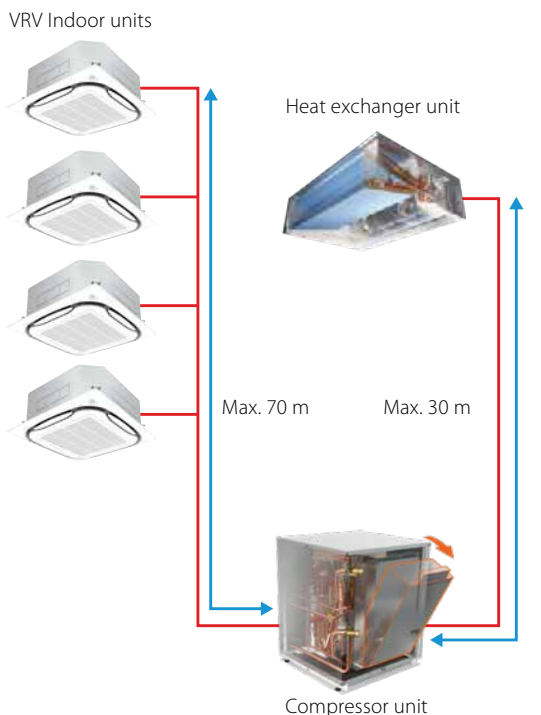
## Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



**1.** The heat exchanger can be installed in a false ceiling space.

**2.** The compressor is compact and easy to hide, this element can be installed at floor level, in a back office, storage room, technical area or in a kitchen.

**This means that the air conditioning system is completely invisible and does not take up expensive commercial floor space.**



Max. total piping length: 140m (5HP) / 300m (8HP)

A photograph of a building entrance with a blue text overlay. The building features a classical architectural style with a stone facade and a decorative balcony above the entrance. The entrance is flanked by two large stone columns and has a set of steps leading up to it. Two women are walking down the steps. The text "Invisible air suction and air discharge" is overlaid on a blue rectangular background across the middle of the image.

# Invisible air suction and air discharge



# The problem solver

## for many installation issues

### Example 1

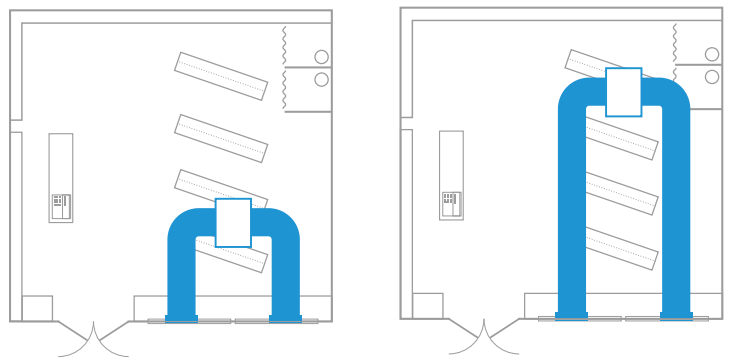
### High flexibility

The other way around: install the modules where it fits your customer, not where it is the best fit for the outdoor unit

If there is no flat roof or backgarden available for installation of the outdoor unit, VRV IV i-series offers the solution.

The suction and exhaust can be installed at the façade or at the rear of the building as the inverter fans allows ESP to be adjusted to the length of the ductwork.

The compressor module can be installed up to 30 m from the heat exchanger unit in a storage room, ....



Flexible installation thanks to inverter fans



### Example 2

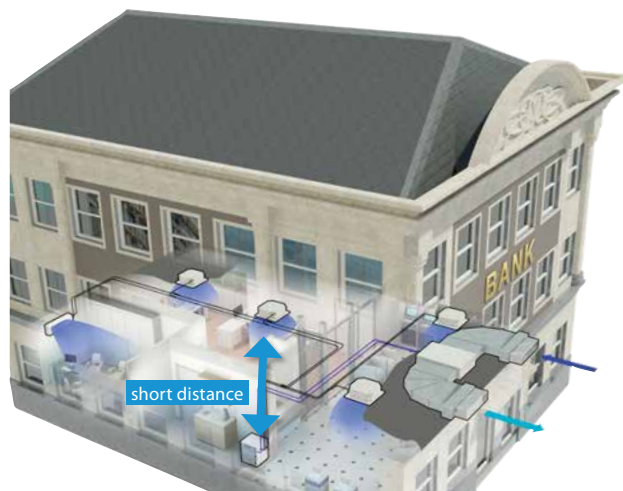
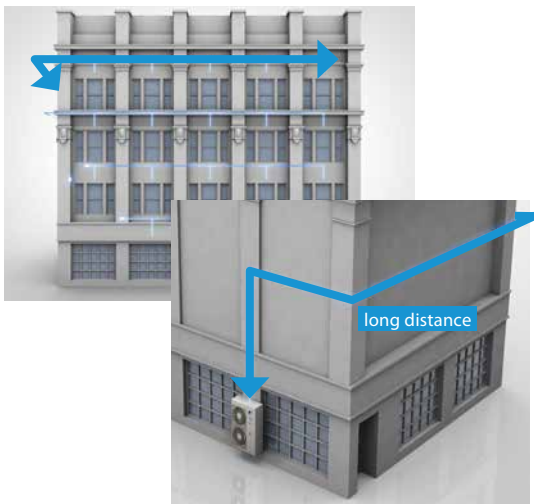
Shorter pipe runs to the indoor units reduces installation costs compared to rooftop or back alley installation

#### Back alley or rooftop needs very long piping lengths

- › Long installation time
- › Additional cost
- › Capacity loss

#### VRV IV i-series can be installed close to the indoor units

- › Quicker installation
- › Lower cost
- › No capacity loss



### Example 3

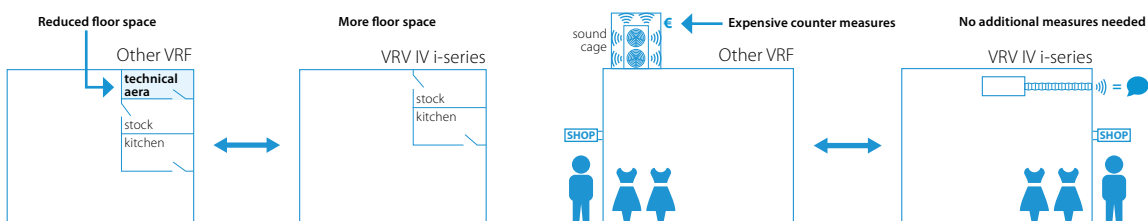
No need for bulky and expensive sound countermeasures

#### To comply with city regulation countermeasures are needed for standard units

- › Expensive sound cages might be needed to reduce sound (standard outdoor unit sound = 50~60 dBA)
- › Inside installation using expensive floor space

#### With VRV IV i-series you easily comply with city regulation without additional measures

- › Operation sound 47 dBA for 5HP model (flexible to install in corridor, shop area, ...) or lower with attenuator
- › No floor space is used as units can be installed in false ceiling, against the wall, ...



# Patented V-shape heat exchanger

for best surface to volume ratio

8  
patents

## Optimised air flow and temperature distribution

- › Best performance for defrost (tested in high humidity down to -20°C).

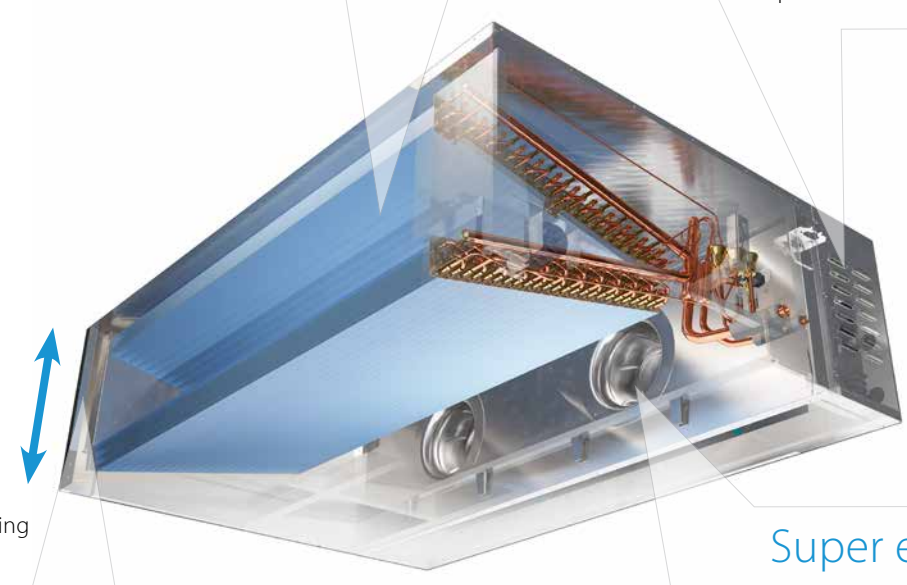
## Patented perforated and insulated partition plate

- › Reduces conductivity and prevents cold bridges



Only  
400mm  
high

- › Fits easily in any false ceiling



## Standard delivered filter

- › with the unit to prevent dirt from entering the heat exchanger



## Super efficient centrifugal fans

- › Over 50% efficiency increase compared to sirocco fan
- › Patented backward-curved blade technology
- › More pressure increase





# Compressor unit with rotating switchbox

Flexible and easy to install

Flexibility by back and top refrigerant connection possibility

Rotating switchbox

- › For easy access to all compressor parts

Only  
**77 kg**  
(5HP)

Tube-in-tube subcool heat exchanger

- › This patented heat exchanger increases the capacity of the system by ensuring optimal state of refrigerant in the heat exchanger module. This in turn increases overall efficiency.

No drain connection needed

- › Thanks to natural evaporation
- › Minimized cold surface to reduce dew formation
- › Fast and easy installation

Non welded bottom casing

- › Avoids any corrosion risk

Small footprint

- › Maximizes useable floor space (600 x 554 mm for 5HP)
- › Can easily be mounted in a storage room, back office, ...

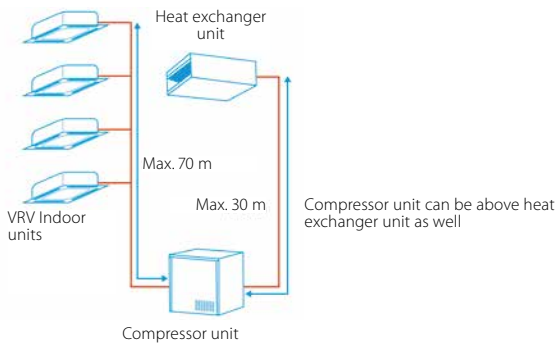
# VRV IV heat pump for indoor installation

## The invisible VRV

› Unique VRV heat pump for indoor installation



› Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor

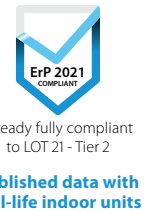


- › Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains

More details and final information can be found by scanning or clicking the QR codes.



- › Lightweight units (max. 105kg) can be installed by two people
- › Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- › Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- › Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- › Connectable to all VRV control systems



SB.RKXYQ-T



SB.RKXYQ-T8

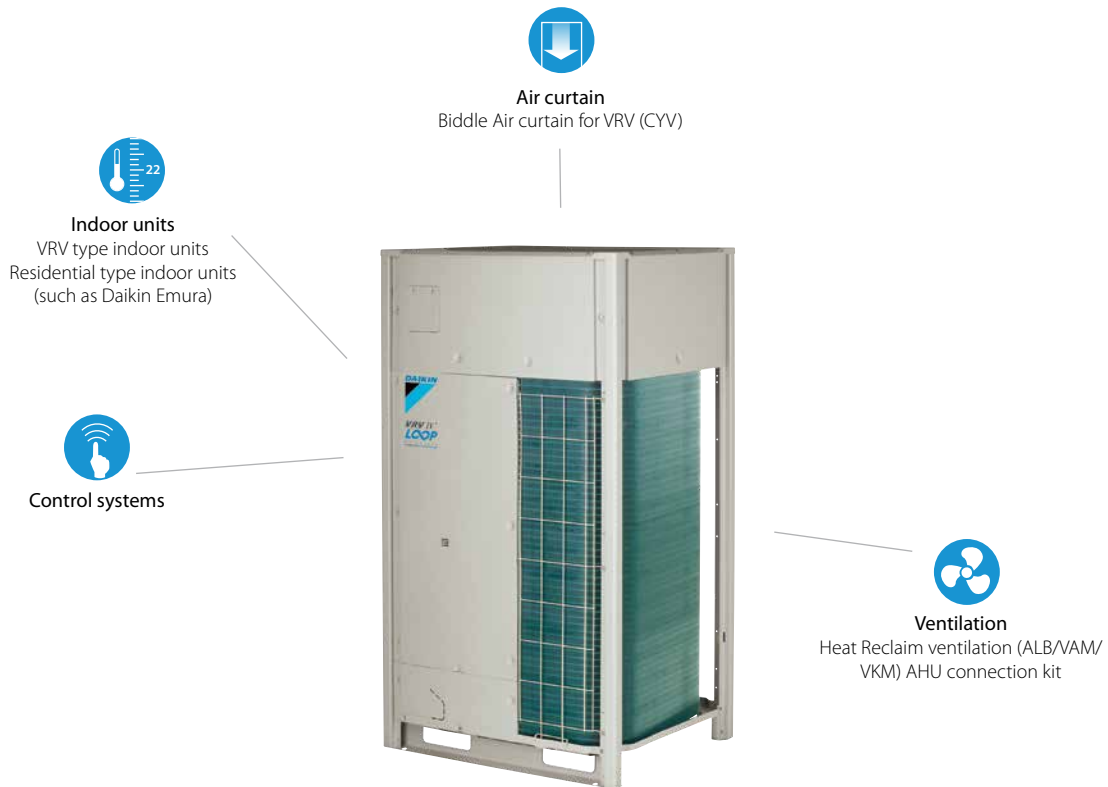
Outdoor unit system		SB.RKXYQ			5T8			8T		
System	Heat exchanger unit				RDXYQ5T8			RDXYQ8T		
	Compressor unit				RKXYQ5T8			RKXYQ8T		
Capacity range					5			8		
Cooling capacity	Prated,c		HP		14.0			22.4		
Heating capacity	Prated,h		kW		10.4			12.9		
	Max.		6°CWB		16.0			25.0		
Recommended combination				4 x FXSQ32A2VEB			4 x FXSQ50A2VEB			
ηs,c			%		200.1			190.2		
ηs,h			%		149.3			137.4		
SEER					5.1			4.8		
SCOP					3.8			3.5		
Maximum number of connectable indoor units					10 (1)			17 (1)		
Indoor index connection	Min.				62.5			100.0		
	Max.				162.5			260.0		
Piping connections	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	OD	mm	12.7					
		Gas	OD	mm	19.1			22.2		
	Between Compressor module (CM) and indoor units (IU)	Liquid	OD	mm	9.52					
		Gas	OD	mm	15.9			19.1		
Total piping length	System	Actual	m	140			300			

Outdoor unit module		Heat exchanger module - RDXYQ			Compressor module - RKXYQ					
		5T8			8T					
Dimensions	Unit	HeightxWidthxDepth	mm	397x1,456x1,044			701x600x554			
Weight	Unit		kg	95			103			
Sound power level	Cooling	Nom.	dBA	77.0			81.0			
Sound pressure level	Cooling	Nom.	dBA	47.0			54.0			
Refrigerant	Type/GWP				R-410A/-			R-410A/2,087.5		
	Charge		kg/TCO2Eq	-/-			2.00 /4.20			
Power supply	Phase/Frequency/Voltage		Hz/V	1N~/50 /220-240			3N~/50 /380-415			
Current - 50Hz	Maximum fuse amps (MFA)		A	10			16			
							20			

(1)Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%).

# VRV IV C<sup>+</sup> series

Where heating is priority without compromising on efficiency



## VRV IV standards:

### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

### VRV configurator

Software for simplified commissioning, configuration and customisation

- > 7 segment display
- > Automatic refrigerant charge
- > Refrigerant containment check
- > Night quiet mode
- > Low noise function
- > Connectable to stylish indoor units (Only for single modules)
- > Full inverter compressors
- > Gas cooled PCB
- > 4 side heat exchanger
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function



VRV IV+ heat pump, optimised for cold climates

## RXYLQ-T

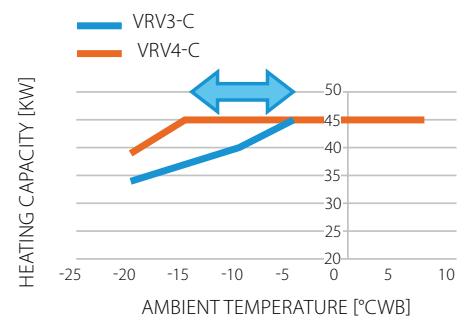


Where heating is priority without compromising on efficiency



### High heating capacity at low ambient temperatures

- › Stable heating capacity available down to -15°C WB!



### High partial load efficiency

- › New vapour injection scroll compressor optimised for low load
  - UNIQUE back-pressure control: Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak and increasing efficiency
  - UNIQUE Injection structure with check valve: Prevents volume backflow during low load operation typically occurring with standard vapour injection compressors
- › Variable Refrigerant Temperature adjusts refrigerant temperature to match the load



### High reliability down to -25°C WB

- › Hot gas bypass prevents ice buildup at the bottom of the heat exchanger







Already fully compliant to LOT 21 - Tier 2

### High seasonal efficiency

- > **Measured with indoor units for real applications!**
- > ALL information for indoor units used available on our eco-design website: Already fully compliant [https://energylabel.daikin.eu/eu/en\\_US/lot21.html](https://energylabel.daikin.eu/eu/en_US/lot21.html)



### The known VRV IV standards

- Variable Refrigerant Temperature
- VRV configurator

### Total solution



Daikin Emura  
Wall mounted unit



Fully flat cassette



Biddle air curtain



Intelligent Manager touch



Air handling unit for ventilation



Low temperature hydrobox

# VRV IV heat pump, optimised for heating

Where heating is priority without compromising on efficiency

- › By choosing this product with Certified Reclaimed Refrigerant Allocation you support the reuse of refrigerant
- › Specifically developed for heating operation in low ambient conditions, making it suitable for single source heating
- › Stable heating capacity down to -15°C, thanks to vapour injection compressor
- › Extended operation range down to -25°C in heating
- › High reliability in severe conditions, thanks to hot gas bypass circuit in the heat exchanger
- › 15% increased heating capacity at high relative humidity (2°CDB/1°CWB and RH=83%) vs previous model
- › Shorter defrost and heat up time, compared to standard VRV heat pump
- › Very economical solution as a smaller outdoor unit model can be used compared to the standard series
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains

- › Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor, ...
- › Free combination of outdoor units to meet installation space or efficiency requirements
- › Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 500m
- › Less installation time and smaller footprint compared to previous model thanks to removal of function unit



For units made and sold in Europe\*

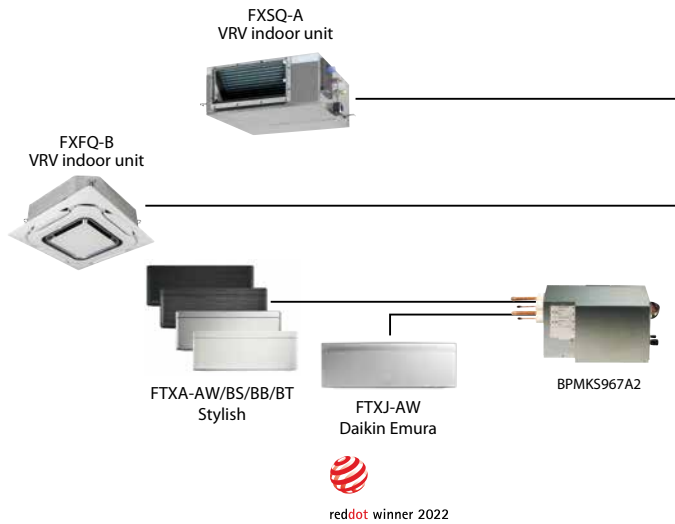


Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

Outdoor unit		RXYLQ	10T	12T	14T
Capacity range		HP	10	12	14
Cooling capacity	Prated,c	kW	28.0	33.5	40.0
Heating capacity	Prated,h	kW	28.0	33.5	40.0
	Max. 6°CWB	kW	31.5	37.5	45.0
Recommended combination			4 x FXSQ63P7VEB	6 x FXSQ50P7VEB	1 x FXSQ50P7VEB + 5 x FXSQ63P7VEB
ηs,c		%	251.4	267.0	270.2
ηs,h		%	144.20		137.0
SEER			6.4		6.8
SCOP			3.7		3.5
Maximum number of connectable indoor units				64 (1)	
Indoor index connection	Min.		175	210	245
	Nom.		250	300	350
	Max.		325	390	455
Dimensions	Unit HeightxWidthxDepth	mm	1,685x1,240x765		
Weight	Unit	kg	302		
Sound power level	Cooling Nom.	dBA	75	77	81
Sound pressure level	Cooling Nom.	dBA	55	56	59
Operation range	Cooling Min.-Max.	°CDB	-5 ~43		
	Heating Min.-Max.	°CWB	-25 ~16		
Refrigerant	Type/GWP		R-410A/2,087.5		
	Charge	kg/TCO2Eq	11.8/24.6		
Piping connections	Liquid OD	mm	9.52		12.7
	Gas OD	mm	22.2		28.6
	Total piping System Actual length	m	500		
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A	25		32

Outdoor unit system		RXYLQ	16T	18T	20T	22T	24T	26T	28T
System	Outdoor unit module 1		RXMLQ8T		RXYLQ10T		RXYLQ12T		RXYLQ14T
	Outdoor unit module 2		RXMLQ8T			RXYLQ12T			RXYLQ14T
Capacity range		HP	16	18	20	22	24	26	28
Cooling capacity	Prated,c	kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0
Heating capacity	Prated,h	kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0
	Max. 6°CWB	kW	50.0	56.5	63.0	69.0	75.0	82.5	90.0
Recommended combination			4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 6 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB
ηs,c		%	261.8	255.7	251.4	263.0	274.4	270.8	270.1
ηs,h		%	138.0	140.5	144.3	140.3	137.6	137.1	
SEER			6.62	6.47	6.36	6.65	6.93	6.84	6.83
SCOP			3.52	3.59	3.68	3.58	3.51	3.50	
Maximum number of connectable indoor units			64 (1)						
Indoor index connection	Min.		280	315	350	385	420	455	490
	Nom.		400	450	500	550	600	650	700
	Max.		520	585	650	715	780	845	910
Piping connections	Liquid OD	mm	12.7		15.9				19.1
	Gas OD	mm	28.6					34.9	
	Total piping System Actual length	m	500						
Current - 50Hz	Maximum fuse amps (MFA)	A	40	45	50		60		



Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-AW/AS/AB	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•	•	•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•		•		

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

More details and final information can be found by scanning or clicking the QR codes.



Outdoor unit system		RXYLQ-T	30T	32T	34T	36T	38T	40T	42T
System	Outdoor unit module 1		RXYLQ10T				RXYLQ12T		RXYLQ14T
	Outdoor unit module 2		RXYLQ10T			RXYLQ12T		RXYLQ14T	
	Outdoor unit module 3		RXYLQ10T		RXYLQ12T			RXYLQ14T	
Capacity range	HP	30	32	34	36	38	40	42	
Cooling capacity	Prated,c	kW	84.0	89.5	95.0	100.5	107.0	113.5	120.0
	Prated,h	kW	94.5	101	107	113	120	128	135
Heating capacity	Max.	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0
	6°CWB								
Recommended combination		9 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 9 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	6 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	9 x FXMQ50P7VEB + 9 x FXMQ63P7VEB	12 x FXMQ63P7VEB + 4 x FXMQ80P7VEB	
ηs,c	%	251.4	259.1	266.8	274.4	271.6	270.3	270.1	
ηs,h	%	144.3	141.6	139.2	137.6	137.1	137.1	137.1	
SEER		6.36	6.55	6.74	6.93	6.86	6.83	6.83	
SCOP		3.68	3.61	3.56	3.51	3.51	3.50	3.50	
Maximum number of connectable indoor units					64 (1)				
Indoor index connection	Min.		525	560	595	630	665	700	735
	Nom.		750	800	850	900	950	1,000	1,050
	Max.		975	1,040	1,105	1,170	1,235	1,300	1,365
Piping connections	Liquid	OD				19.1			
	Gas	OD	34.9					41.3	
	Total piping length	System Actual				500			
Current - 50Hz	Maximum fuse amps (MFA)	A	80					90	
Outdoor unit module		RXMLQ-T	8T						
Dimensions	Unit HeightxWidthxDepth	mm	1,685 x1,240 x765						
Weight	Unit	kg	302						
Fan	External static pressure	Max.	Pa						
			78						
Sound power level	Cooling Nom.	dB(A)	75.0						
Sound pressure level	Cooling Nom.	dB(A)	55.0						
Operation range	Cooling Min.~Max.	°CDB	-5 ~43						
	Heating Min.~Max.	°CWB	-25 ~16						
Refrigerant	Type/GWP		R-410A/2,087.5						
	Charge	kg/TCO2Eq	11.8 /24.6						
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415						
Current - 50Hz	Maximum fuse amps (MFA)	A	20						

(1) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (70% <= CR <= 130%) | Contains fluorinated greenhouse gases

\* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland

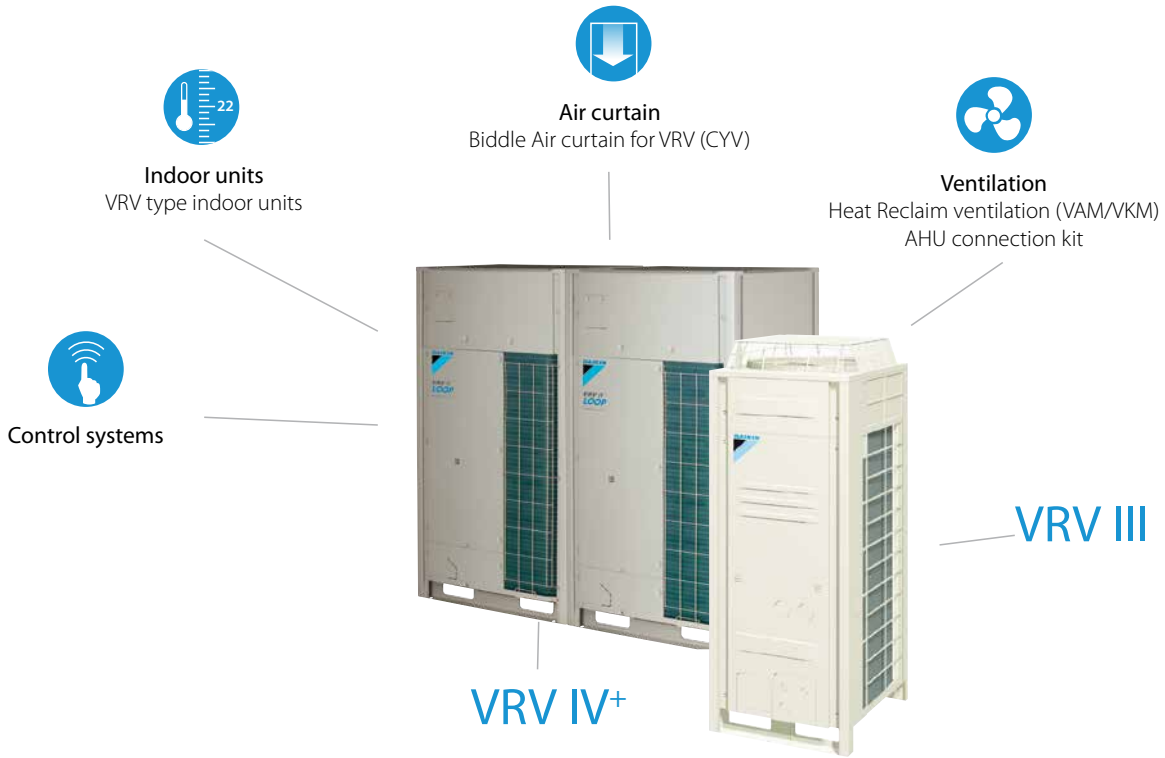


The Post, 5-star hotel,  
VRV IV



# Replacement VRV

Quick & quality replacement  
for R-22 and R-407C systems



**LOOP**  
BY DAIKIN

## VRV IV Q<sup>+</sup> series

Heat pump

## Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

## VRV configurator

Software for simplified commissioning, configuration and customisation

For more information on these features refer to the VRV IV technologies tab

- › 7 segment display
- › Automatic refrigerant charge
- › Night quiet mode
- › Low noise function
- › Full inverter compressors
- › Gas cooled PCB
- › 4 side heat exchanger
- › Reluctance brushless DC compressor
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function

## VRV III-Q

Heat pump & Heat recovery

- › Automatic refrigerant charge
- › Night quiet mode
- › Low noise function
- › Full inverter compressors
- › Reluctance brushless DC compressor
- › Sine wave DC inverter
- › DC fan motor
- › E-pass heat exchanger
- › I demand function
- › Manual demand function

# Replacement technology



## The quick and quality way of upgrading R-22, R-407C and R-410A systems

These benefits will convince your customer:  
Drastically improve your efficiency, comfort and reliability

### No disturbance of daily operations

- › Reuse of existing pipework results in fast installation
- › Plan phases to avoid loss of business
- › Replace any VRF system

### Lower installation costs

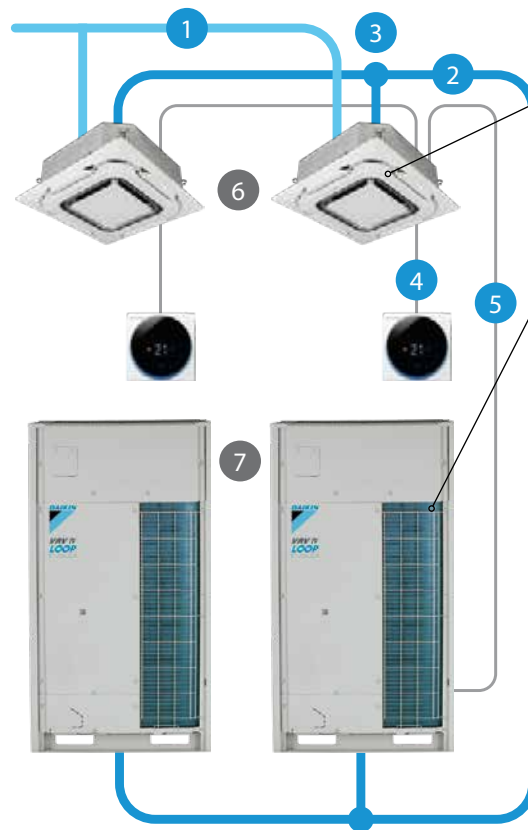
- › Shorter installation time
- › Use of existing piping and wiring
- › Reuse of materials

### Lower investment and reduced running costs

- › CAPEX: Lower initial investment
- › OPEX: Lower energy consumption and maintenance costs
- › Keep your business running seamlessly

### Higher property value

- › Higher property value
- › Improved facilities
  - Subsidies
  - Certifications (BREEAM, LEED and WELL)

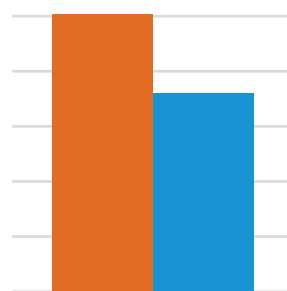


The Daikin upgrade solution:

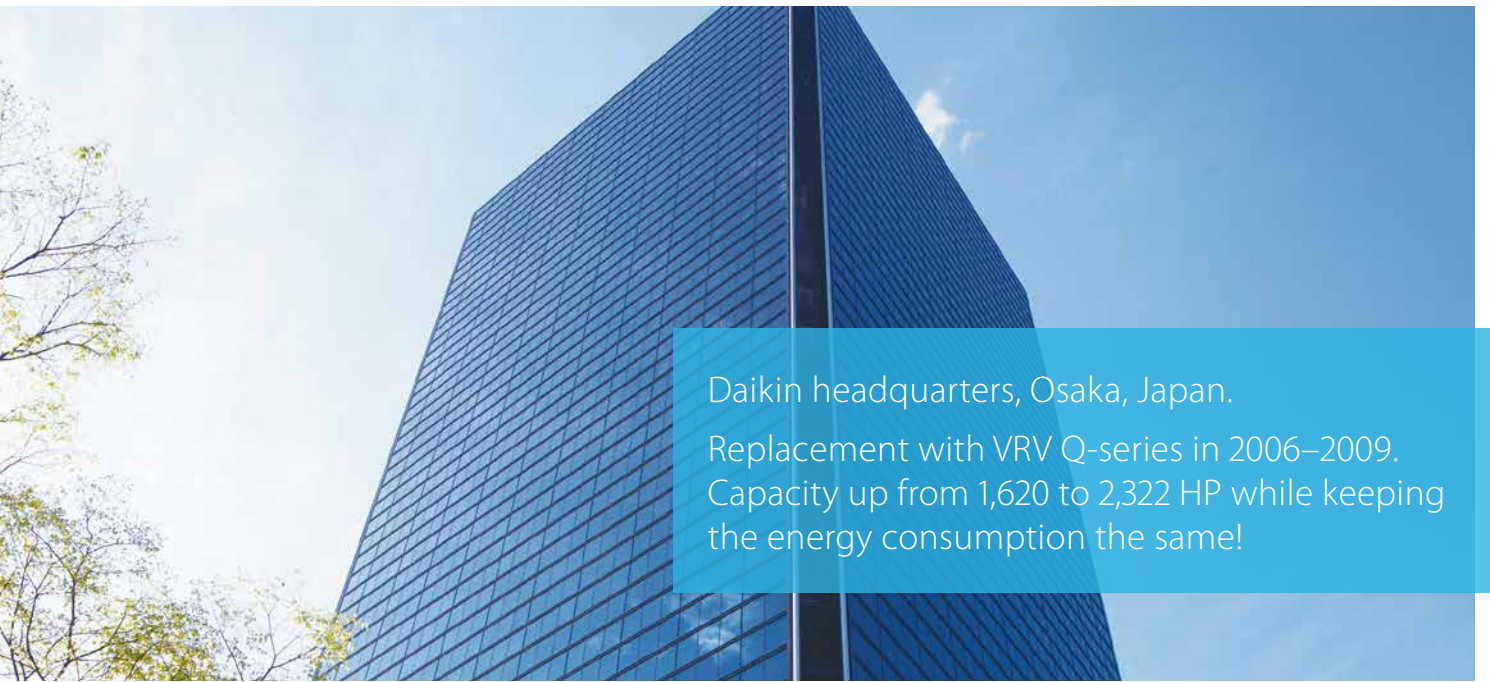
### Replace indoor units (optional)

- › Depending on model type and condition the indoor units can be kept.

### Replace outdoor units



∨ 31 %  
(VRV II) (VRV IV)  
31 % less energy used



Daikin headquarters, Osaka, Japan.  
 Replacement with VRV Q-series in 2006–2009.  
 Capacity up from 1,620 to 2,322 HP while keeping  
 the energy consumption the same!

## VRV-Q benefits to increase your profit:

### Optimise your business

#### Less installation time

Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

#### Lower installation costs

Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

#### Replace non-Daikin systems

**NON DAIKIN** → **DAIKIN**

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

#### Easy as one-two-three

A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody wins.

Watch our online seminar  
 on replacement VRV now!



	VRV-Q, keeping indoor units	VRV-Q, replacing indoor units	Completely new installation with standard VRV
Remove outdoor unit	21 %	21 %	21 %
Install new outdoor unit	14 %	14 %	14 %
Clean cooling circuit and leak test	14 %	14 %	14 %
Remove indoor units	–	8 %	8 %
Remove refrigerant pipes and other tasks	–	–	8 %
Install new refrigerant pipes	–	–	14 %
Install new indoor units and other tasks	–	21 %	21 %
<b>Total installation time</b>	<b>49 %</b>	<b>78 %</b>	<b>100 %</b>

## Technology insight – Pipe cleaning and automatic refrigerant charging

Pipe cleaning and automatic refrigerant charging ensures a trouble-free operation.

Thanks to the pipe cleaning, possible contamination in the pipes is collected ensuring a trouble-free operation as with a completely new system.

The automatic charging ensures the correct amount of refrigerant is charged, so knowledge of the exact piping layout is not needed!

#### One touch convenience:

- › Measure and charge refrigerant
- › Test operation





# Replacement VRV, heat recovery

## Quick & quality replacement for R-22 and R-407C systems

- › Cost effective and fast replacement as only the outdoor and indoor unit needs to be replaced, meaning almost no work has to be carried out inside the building
- › Efficiency gains of more than 40% can be realized, thanks to technological developments in heat pump technology and the more efficient R-410A refrigerant
- › Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- › Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- › Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- › Possibility to add indoor units and increase capacity without changing the refrigerant piping
- › Possibility to spread the various stages of replacement thanks to the modular design of the VRV system
- › Accurate temperature control, fresh air provision, air handling units and Biddle air curtains all integrated in a single system requiring only one single point of contact (RXYQQ-U only)
- › Incorporates VRV IV standards & technologies: Variable Refrigerant
- › Temperature and full inverter compressors (RXYQQ-U only)
- › Free combination of outdoor units to meet installation space or efficiency requirements (RXYQQ-U only)



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

More details and final information can be found by scanning or clicking the QR codes.



RQCEQ-P3

Outdoor unit system		RQCEQ	280P3	460P3	500P3	540P3	712P3	744P3	816P3	
System	Outdoor unit module 1		RQEQ140P3			RQEQ180P3	RQEQ140P3		RQEQ180P3	
	Outdoor unit module 2		RQEQ140P3		RQEQ180P3				RQEQ212P3	
	Outdoor unit module 3		-	RQEQ180P3				RQEQ212P3		
	Outdoor unit module 4		-						RQEQ212P3	
Capacity range		HP	10	16	18	20	24	26	28	
Cooling capacity	Prated,c	kW	28.0	46.0	50.0	54.0	70.0	72.0	78.0	
Heating capacity	Prated,h	kW	32.0	52.0	56.0	60.0	78.4	80.8	87.2	
Recommended combination			4 x FXMQ63P7VEB	4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	4 x FXSQ32A2VEB + 8 x FXSQ40A2VEB	12 x FXSQ40A2VEB	4 x FXSQ32A2VEB + 9 x FXSQ40A2VEB + 3 x FXSQ50A2VEB	4 x FXSQ32A2VEB + 6 x FXSQ40A2VEB + 6 x FXSQ50A2VEB	7 x FXSQ40A2VEB + 9 x FXSQ50A2VEB	
ηs,c		%	200	191	201	198	194		204	
ηs,h		%	159	161	150	148	153	155		
Maximum number of connectable indoor units			21	34	39	43	52	56	60	
Indoor index connection	Min.		140	230	250	270	356	372	408	
	Nom.		280	500		540	712	744	816	
	Max.		364	598	650	702	926	967.0	1,061	
Piping connections	Liquid OD	mm	9.52	12.70	15.90			19.10		
	Gas OD	mm	22.2	28.6					34.9	
	Total piping System Actual length	m	300							
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50 /400							
Current - 50Hz	Maximum fuse amps (MFA)	A	30	50	60		80		90	

Outdoor unit module		RQEQ-P3	140P3	180P3	212P3
Dimensions	Unit HeightxWidthxDepth	mm	1,680x635x765		
Weight	Unit	kg	175		179
Fan	Air flow rate	Cooling Nom. m <sup>3</sup> /min	95		110
	Type		Propeller fan		
Sound power level	Cooling Nom.	dB(A)	79		87
	Heating According to ENER LOT21	dB(A)	79		84
Sound pressure level	Cooling Nom.	dB(A)	-		
Operation range	Cooling Min.~Max.	°CDB	-5 ~43		
	Heating Min.~Max.	°CWB	-20 ~15.5		
Refrigerant	Type/GWP		R-410A/2,087.5		
	Charge	kg/TCO2Eq	10.3/21.5		11.2/23.4
Power supply	Phase/Frequency/Voltage	Hz/V	3~/50 /380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A	15		22.5

Contains fluorinated greenhouse gases



# Replacement VRV, heat pump



For units made and sold in Europe\*

More details and final information can be found by scanning or clicking the QR codes.



RQYQ-P



RXYQQ-U



RXYQQ8-12U

Outdoor unit		RXYQQ/RQYQ-P	140P	8U	10U	12U	14U	16U	18U	20U		
Capacity range		HP	5	8	10	12	14	16	18	20		
Cooling capacity	Prated,c	kW	14.0	22.4	28.0	33.5	40.0	45.0	50.4	52.0		
Heating capacity	Prated,h	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.4	56.0		
	Max. 6°CWB	kW	-	25.0	31.5	37.5	45.0	50.0	56.5	63.0		
Recommended combination			4 x FXSQ32A2VEB	4 x FXFQ50AVEB	4 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB + 5 x FXFQ63AVEB	4 x FXFQ63AVEB + 2 x FXFQ80AVEB	3 x FXFQ50AVEB + 5 x FXFQ63AVEB	2 x FXFQ50AVEB + 6 x FXFQ63AVEB		
ηs,c		%	194	302.4	267.6	247.8	250.7	236.5	238.3	233.7		
ηs,h		%	137	167.9	168.2	161.4	155.4	157.8	163.1	156.6		
SEER			-	7.6	6.8		6.3		6.0	5.9		
SCOP			-		4.3	4.1		4.0		4.2		
Maximum number of connectable indoor units			10				64 (1)					
Indoor index connection	Min.		62.5	100.0	125.0	150.0	175.0	200.0	225.0	250.0		
	Nom.		125									
	Max.		162.5	260.0	325.0	390.0	455.0	520.0	585.0	650.0		
Dimensions	Unit	HeightxWidthxDepth	mm			mm			mm			
			1,680x635x765			1,685x930x765			1,685x1,240x765			
Weight	Unit		kg			kg			kg			
			175			198			275			
Fan	Air flow rate	Cooling	Nom.	m <sup>3</sup> /min		m <sup>3</sup> /min		m <sup>3</sup> /min		m <sup>3</sup> /min		
					95							308
Sound power level	Cooling	Nom.	dBA		dBA		dBA		dBA			
				79	78.0	79.1	83.4	80.9	85.6	83.8	87.9	
Sound pressure level	Heating	Prated, h	dBA		dBA		dBA		dBA			
				79	79.6	80.9	83.5	83.1	86.5	85.3	89.8	
Operation range	Cooling	Min.~Max.	°CDB		°CDB		°CDB		°CDB			
				-5~43								
Refrigerant	Heating	Min.~Max.	°CWB		°CWB		°CWB		°CWB			
				-20~15.5								
Type/GWP		R-410A/2,0875										
Charge		kg/TCO2Eq		kg/TCO2Eq		kg/TCO2Eq		kg/TCO2Eq		kg/TCO2Eq		
		11.1/23.2		5.9/12.3		6.0/12.5		6.3/13.2		10.3/21.5		
Piping connections	Liquid	OD	mm		mm		mm		mm		mm	
				15.9	19.1	22.2		28.6				
	Gas	OD	mm		mm		mm		mm		mm	
		28.6		34.9		300		41.3				
Total piping length		m		m		m		m		m		
		300		300		300		300		300		
Power supply	Phase/Frequency/Voltage	Hz/V		Hz/V		Hz/V		Hz/V		Hz/V		
		3~/50/380-415		3~/50/380-415		3~/50/380-415		3~/50/380-415		3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A		A		A		A		A		
		15		20		25		32		40		

Outdoor unit system		RXYQQ	22U	24U	26U	28U	30U	32U	34U	36U	38U	40U	42U	
System	Outdoor unit module 1	RXYQQ10U	RXYQQ8U	RXYQQ12U			RXYQQ16U			RXYQQ8U	RXYQQ10U			
	Outdoor unit module 2	RXYQQ12U	RXYQQ16U	RXYQQ14U	RXYQQ16U	RXYQQ18U	RXYQQ16U	RXYQQ18U	RXYQQ20U	RXYQQ10U	RXYQQ12U	RXYQQ16U		
	Outdoor unit module 3									RXYQQ20U	RXYQQ18U	RXYQQ16U		
Capacity range		HP	22	24	26	28	30	32	34	36	38	40	42	
Cooling capacity	Prated,c	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	111.9	118.0	118.0	
Heating capacity	Prated,h	kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	101.0	111.9	118.0	62.4	
	Max. 6°CWB	kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	125.5	131.5	131.5	
Recommended combination			6 x FXFQ50AVEB + 4 x FXFQ63AVEB	4 x FXFQ50AVEB + 5 x FXFQ63AVEB	7 x FXFQ50AVEB + 6 x FXFQ63AVEB	6 x FXFQ50AVEB + 4 x FXFQ63AVEB + 2 x FXFQ80AVEB	9 x FXFQ50AVEB + 5 x FXFQ63AVEB	8 x FXFQ63AVEB + 4 x FXFQ80AVEB	3 x FXFQ50AVEB + 9 x FXFQ63AVEB + 2 x FXFQ80AVEB	2 x FXFQ50AVEB + 10 x FXFQ63AVEB + 2 x FXFQ80AVEB	6 x FXFQ50AVEB + 10 x FXFQ63AVEB	9 x FXFQ50AVEB + 9 x FXFQ63AVEB	12 x FXFQ63AVEB + 4 x FXFQ80AVEB	
ηs,c		%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4	263.5	261.2	
ηs,h		%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	170.0	165.5	
SEER			6.9	6.8	6.7		6.5		6.4	6.3	6.9	6.7	6.6	
SCOP			4.4	4.3		4.2	4.3		4.2	4.1	4.3	4.3	4.2	
Maximum number of connectable indoor units			64 (1)											
Indoor index connection	Min.		275.0	300.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0	525.0	
	Max.		715.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0	1,365.0	
Piping connections	Liquid	OD	mm		mm		mm		mm		mm		mm	
				15.9										
	Gas	OD	mm		mm		mm		mm		mm		mm	
		28.6		34.9		300		41.3						
Total piping length		m		m		m		m		m		m		
		300		300		300		300		300		300		
Power supply	Phase/Frequency/Voltage	Hz/V		Hz/V		Hz/V		Hz/V		Hz/V		Hz/V		
		3~/50/380-415		3~/50/380-415		3~/50/380-415		3~/50/380-415		3~/50/380-415		3~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA)	A		A		A		A		A		A		
		63		80		100								

(1) Actual number of connectable indoor units depends on the indoor unit type (VRV indoor, Hydrobox, RA indoor, etc.) and the connection ratio restriction for the system (50% ≤ CR ≤ 130%) | Contains fluorinated greenhouse gases

\* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland



# Water cooled VRV IV W<sup>+</sup> series

Ideal for high rise buildings,  
using water as heat source

Unified range  
for **heat pump  
& heat recovery**  
and **standard  
& geothermal**  
series



#### Indoor units

VRV type indoor units OR  
Residential type indoor units  
(such as Daikin Emura, ...)



#### Control systems



#### Air curtain

Biddle Air curtain for VRV (CYV)



#### Ventilation

Heat Reclaim ventilation (ALB/VAM/  
VKM) AHU connection kit



Widest range of BS boxes for the fastest installation

## LOOP

BY DAIKIN

## VRV IV standards:

### Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

### VRV configurator

Software for simplified commissioning, configuration and customisation

For more information on these features refer to the VRV IV technologies tab

- › 7 segment display
- › Full inverter compressors
- › Connectable to stylish indoor units
- › Connectable to LT hydrobox
- › Connectable to HT hydrobox
- › Reluctance brushless DC compressor
- › Sine wave DC inverter
- › Manual demand function



## Water-to-air heat pump

### Welcome a new range of features

#### More flexibility

- › Mixed connection of HT hydroboxes and VRV indoor units
- › Connects to stylish indoor units such as Daikin Emura, Nexura, ... (no mixed connection with other indoors possible)
- › Extension of the range: 8-10-12-14HP, combinable up to 42HP while keeping the most compact casing in the market
- › Extended piping length up 165m (actual)
- › Extended indoor unit height difference to 30m

#### More capacity

- › Up to 72% increased capacity (!) per model thanks to new compressor and larger heat exchanger

#### Easier commissioning & customisation

- › 7 segment display
- › 2 analogue input signals allowing external control of
  - ON-OFF (e.g. compressor)
  - Operation mode (cooling / heating)
  - Limit of capacity
  - Error signal

#### Most compact casing in the market!



8 to 14 HP

16 to 28 HP

30 to 42 HP

#### Unique zero heat dissipation principle



- › No need for ventilation or cooling in the technical room
- › Control heat dissipation to achieve maximum efficiency: set target technical room temperature and unit regulates actual heat dissipation

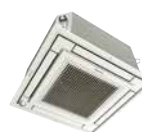
#### Total solution



Daikin Emura wall mounted unit



FTXA-AW/BS/BB/BT Stylish



Fully flat cassette



Intelligent Manager



Biddle air curtain



Air handling unit for ventilation



Low temperature hydrobox



High temperature hydrobox

# With all existing standard functions



**VRV IV W<sup>+</sup> series**

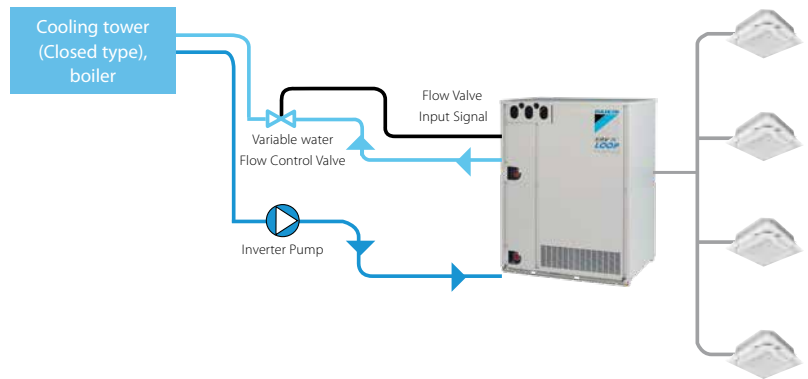
## Indoor installation makes unit invisible from the outside

- › Seamless integration in the surrounding architecture as you cannot see the unit
- › Highly suited for sound sensitive areas as there is no external operation sound
- › Very flexible indoor installation as there is no heat dissipation
- › Superior efficiency, even in the most extreme outside conditions, especially in geothermal operation



## Variable water flow control

- › The variable water flow control option reduces excessive energy use by the circulation pump.
- › By controlling a variable water valve, the water flow is reduced when possible, saving energy.
- › Via 0~10 volt



## Lower refrigerant concentration levels

Water-cooled VRV systems typically have less refrigerant per system making it ideal to comply with the EN378 legislation limiting the amount of refrigerant in hospitals and hotels.

### The refrigerant levels remain limited thanks to:

- › limited distance between outdoor and indoor unit
- › modularity: enabling small systems per floor instead of one big system. Thanks to the water circuit heat recovery is still possible in the entire building

## Maximum design flexibility and installation speed

- › Quickly and flexibly design your system with a unique range of single and multi BS boxes.
- › A wide variety of compact and lightweight multi BS boxes greatly reduces installation time.
- › Free combination of single and multi BS boxes

### Single port



BS1Q 10,16,25A

### Multi port: 4 – 6 – 8 – 10 – 12 – 16



BS 4 Q14 A



BS 6, 8 Q14 A

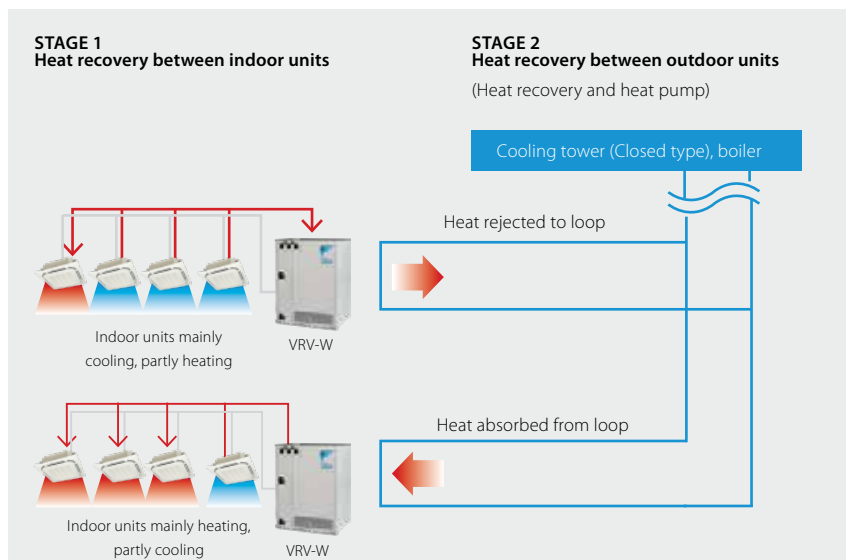


BS 10, 12 Q14 A



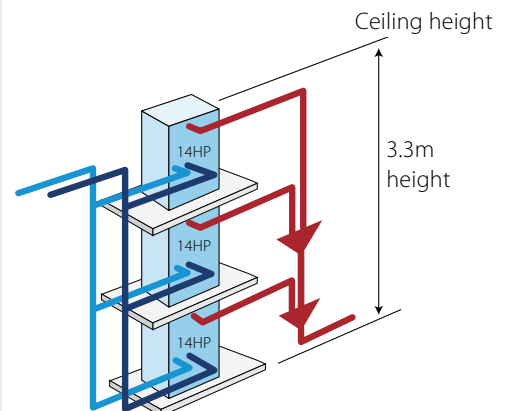
BS 16 Q14 A

## 2-stage heat recovery



## Stacked configuration

- Water piping
- Refrigerant piping





# Crystal Tower

BREEAM Design Phase: Excellent rating



## A great and well-known example of a Daikin Total Solution leading to high energy-efficient HVAC consumption

- › A combination of VRV, Sky Air and Applied systems ensuring all offices and common areas are fully air conditioned.
- › Water-cooled VRV as the main contributor to total HVAC energy efficiency due to its two-stage heat recovery system.
- › Flexibility: individual thermal control and comfort with VRV on each floor and space.
- › Problem-free connection between Daikin units and the LonWorks BMS system ensures the building's total energy consumption is properly monitored and controlled.

### Location

48 Lancu de Hunedoara Boulevard  
Bucharest Romania

### Building details

Built-up area: 24,728 m<sup>2</sup>  
Total usable area: 20,020 m<sup>2</sup>  
Floors: 4 basements, 15 floors, technical floor  
Building height: 72 m  
Office space per level: approx. 1,000 m<sup>2</sup>

### Daikin systems installed

- › 67 x VRV water-cooled units
- › 2 x VRV outdoor heat pump units
- › 289 VRV indoor units (265 ducts, 24 x cassettes)
- › 5 x Sky Air with Roundflow Cassettes
- › 4 x air-cooled water chillers
- › 11 x DMS504B51 (LonWorks gateway)

### Awards

- › Green Building of the Year 2012 (ROGBC)
- › Environmental Social & Sustainability award (ESSA)

# Innovations

for maximum flexibility and ease of installation

Horizontal or vertical piping connection

Highly improved efficiency thanks to enlarged heat exchanger

Easy access to components

Easy front plate removal

Rotating switchbox

step 1

step 2

980mm

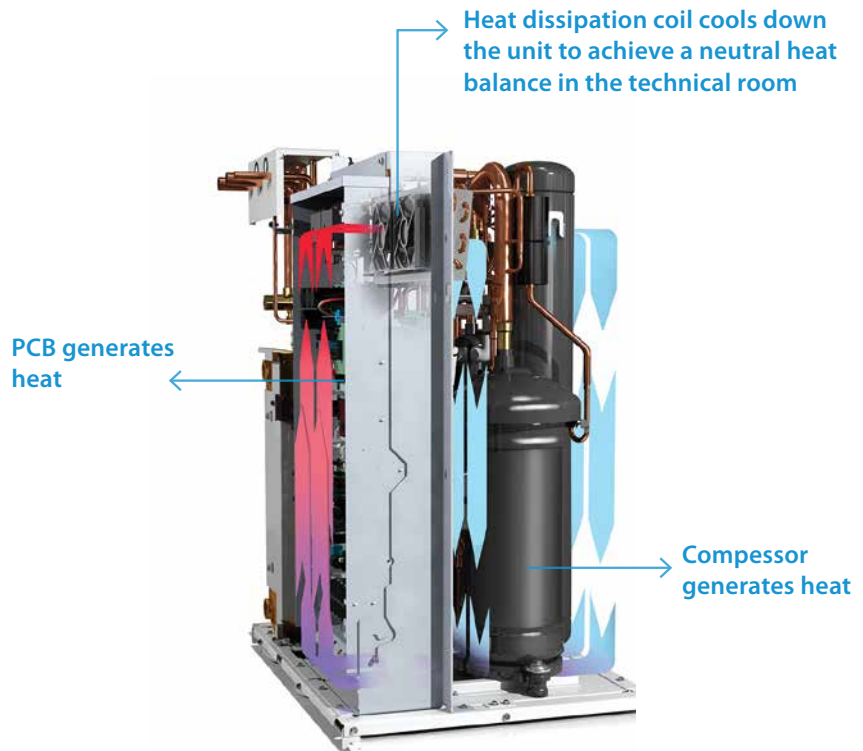
767mm

560mm

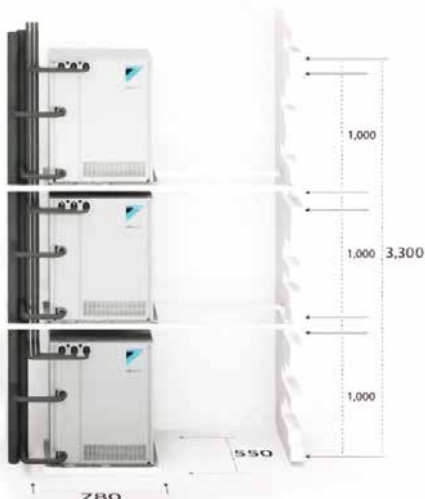


## Zero heat dissipation principle

- › No need for ventilation or cooling of the technical room
- › Enhancing installation flexibility and reliability of parts



Minimal technical room space required.



**VRV IV** technology

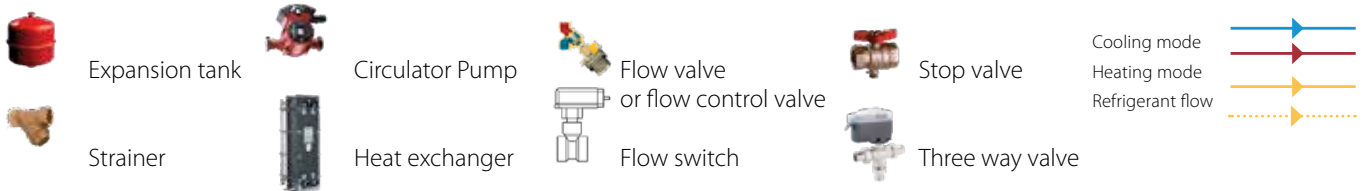
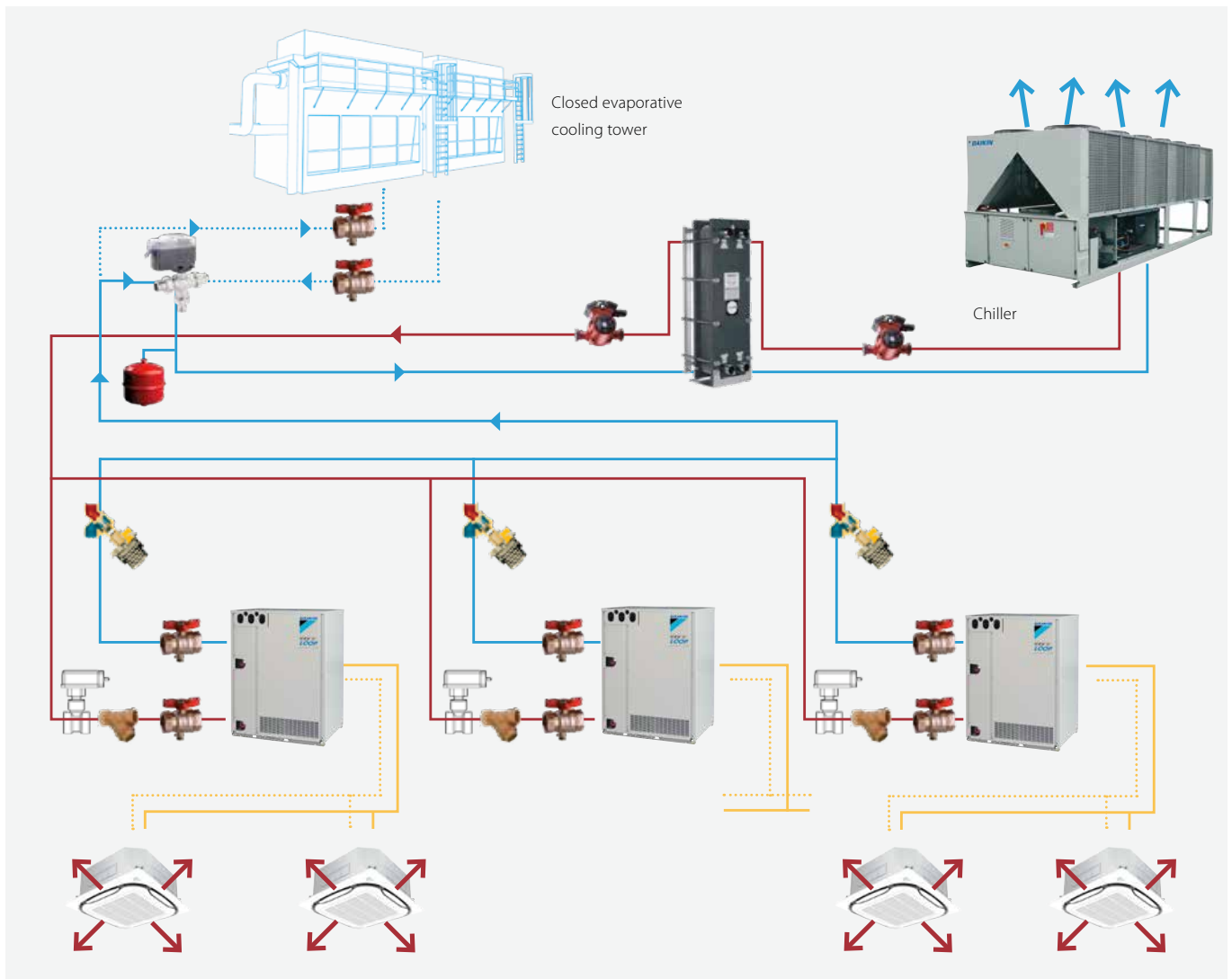


- › VRV configurator
- › 7 segment display

# Application

## example

Closed evaporative cooling tower used for cooling,  
Chiller used for heating



### Benefits of this setup

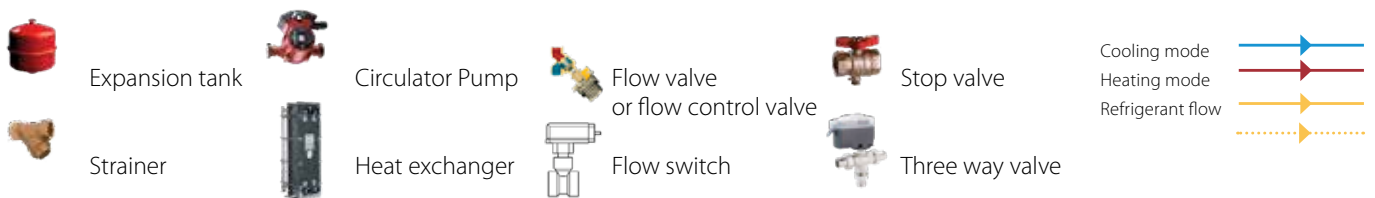
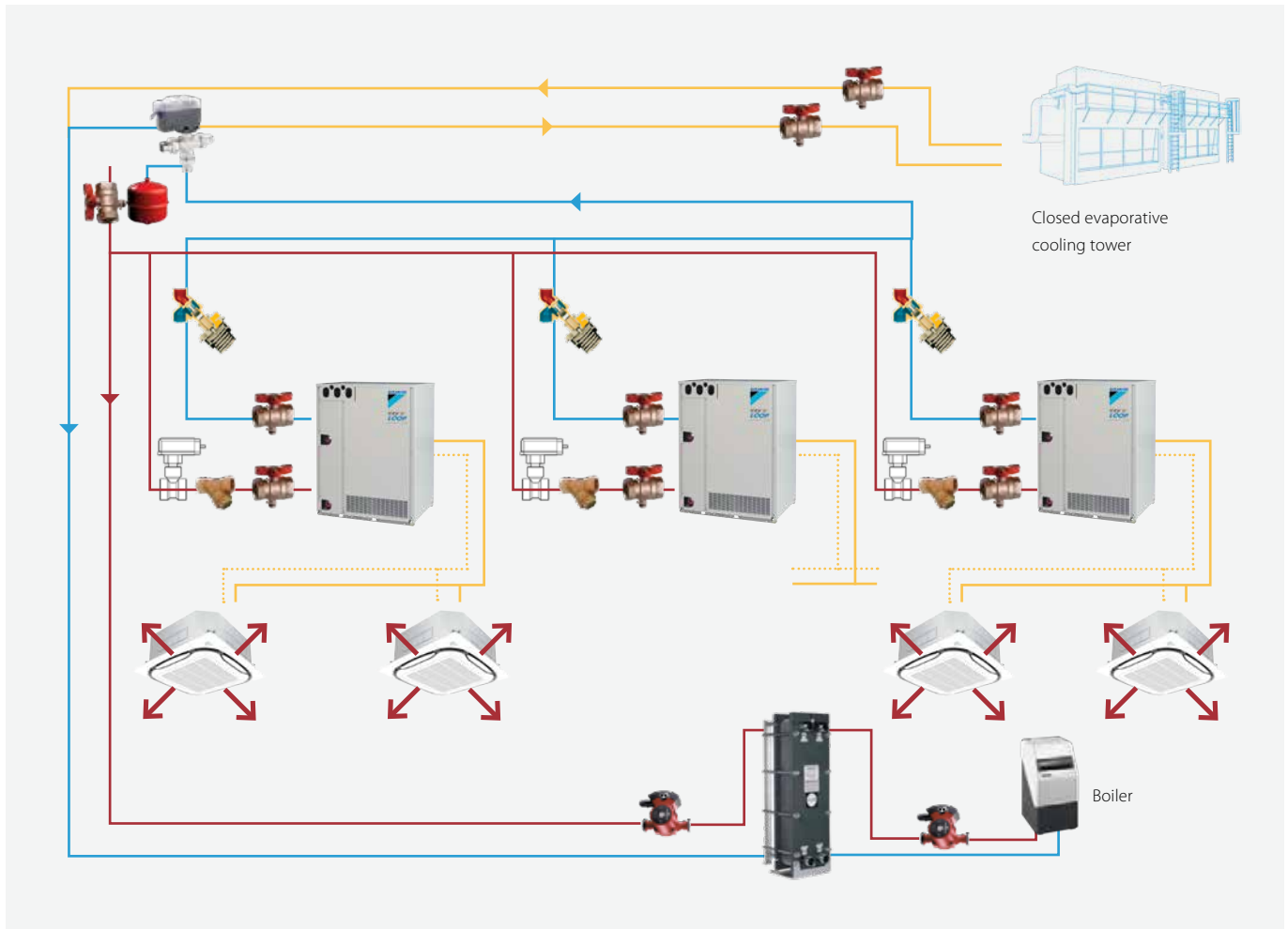
- › Chiller is only used when cooling tower capacity is not enough and/or when cooling and heating load of VRV is unbalanced → very energy efficient installation
- › In case the chiller is operating, a renewable heat source (air) is used, contributing to BREEAM score.
- › It is possible to downsize the cooling tower, making the installation more compact

### When to use?

- › When there is anyway a chiller used for other purposes in the building
- › When space for outdoor installation is limited
- › Efficiency / green building certification schemes oriented projects

# Application example

Dry cooler used for cooling, boiler used for heating



## Benefits of this setup

- › Simple, cost efficient. Good option to use VRV technology in high-rise building
- › Does not make any special demand to the building/project/installation location
- › Provides high efficiency as for hotel application it is usual to have simultaneous cooling and heating load.

- › Heat recovery process in the water loop often allows the water temperature to stay within acceptable range even without using drycooler and boiler.

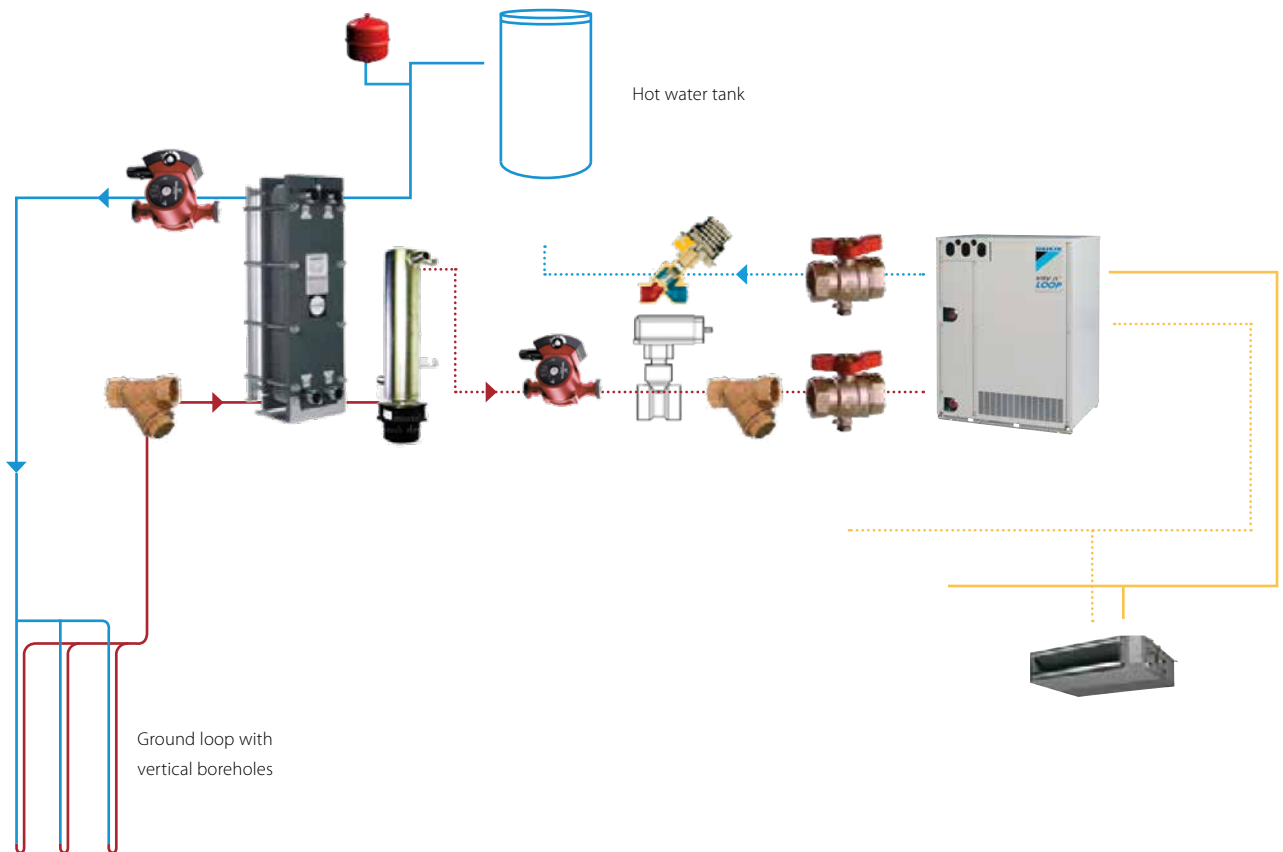
## When to use?

- › For high-rise buildings or other places where VRV Water Cooled is preferable because of installation conditions

# Application

## example

### Geothermal operation



Expansion tank



Circulator Pump



Heat exchanger



Flow switch

Cooling mode



Liquid heater



Buffer tank



Flow valve  
or flow control valve



Stop valve

Heating mode



Strainer



Buffer tank



Flow valve  
or flow control valve



Three way valve

Refrigerant flow

#### Benefits of this setup

- > Very energy efficient
- > Ground loop can be in service for a very long time, so future equipment upgrades/replacements are easy
- > Vertical boreholes provide more stable water temperature (= Constant high efficiency) and do not occupy a lot of ground space.

#### When to use?

- > When the soil is suitable for geothermal loops and there is availability of geothermal installation expertise locally
- > For the projects with high requirements to energy efficiency, green building certification oriented

# Ground loop

## Examples

### Open system

Uses water from a well or surface water (river, lake). The water is pumped back to a second well or surface water



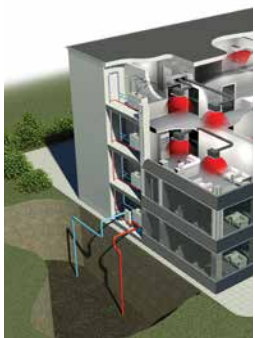
#### Conditions:

- › At 20 m depth water has a constant temperature of 10°C through the year
- › Surface water cools down to 5°C during winter

- ✓ Can be the most economical type of geothermal system
- ✓ Constant ground water temperature has positive impact on heat pump efficiency
- ✗ Risk to damage system components because of water quality → a secondary loop might be required to protect the heat exchanger
- ✗ Water should be tested for acidity, mineral content, organic content and corrosiveness:
- ✗ In many areas open systems are prohibited due to environmental concerns

### Closed system

Uses water pipes that are buried in the ground and exchange heat with the ground



#### Vertical system conditions

- › Typical depth: 30-140 m. Below 15 m, the temperature of the ground is constant around 10°C

- ✓ Less surface space required
- ✓ Very constant ground temperature
- ✗ Expensive due to drilling cost

For smaller applications also horizontal loops can be used



#### Horizontal loop system

- › Typical trench depth: 1 – 2 m. The ground temperature varies, but always above 5°C (Exception: in cold areas)
- › Slinky loop: the plastic geothermal loop pipe is coiled in overlapped circles and flattened (Installed where there is not enough space for closed horizontal)

- ✓ Installation is easier and less expensive than vertical closed loops.
- ✗ Mainly for small applications as the property land should be large enough
- ✗ You cannot plant trees or build constructions over the land containing the loop.
- ✗ Glycol is needed to prevent freezing of the water.

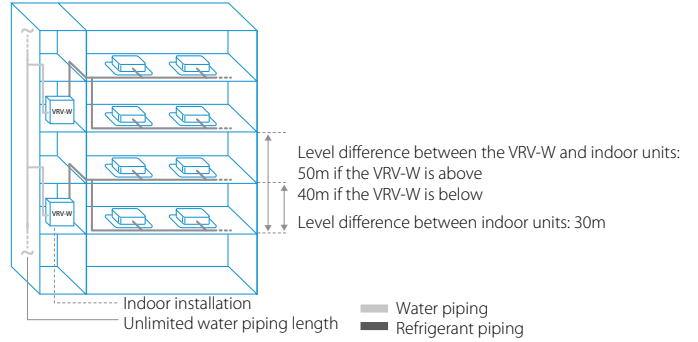


# VRV IV water cooled+ series

## Ideal for high rise buildings, using water as heat source

- › Environmental conscious solution: reduced CO<sub>2</sub> emissions thanks to the use of geothermal energy as a renewable energy source and typical lower refrigerant levels making it ideal to comply with EN378
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units, Biddle air curtains and hot water
- › Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexibility
- › Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Perfera)
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7-segment display and full inverter compressors
- › Developed for easy installation and servicing: choice between top or front connection for refrigerant piping and rotating switch box for easy access to serviceable parts
- › Compact & lightweight design can be stacked for maximum space saving: 42HP can be installed in less than 0,5m<sup>2</sup> floorspace
- › 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit

- › Unified model for heat pump and heat recovery version and geothermal and standard operation
- › Variable Water Flow control option increases flexibility and control
- › 2 analogue input signals allowing external control of ON-OFF, operation mode, error signal, ...
- › Contains all standard VRV features



Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units



For units made and sold in Europe\*

## Connectable stylish indoor units

			20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	NEW	FTXJ-MW/MS	•	•	•		•		
Stylish - Wall mounted unit		FTXA-AW/BS/BB/BT	•	•	•	•	•		
Perfera wall mounted	NEW	FTXM-R	•	•	•	•		•	•
Perfera floor standing	NEW	FVXM-A	•	•	•		•		
Floor standing unit		FVXM-F		•	•		•		

BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

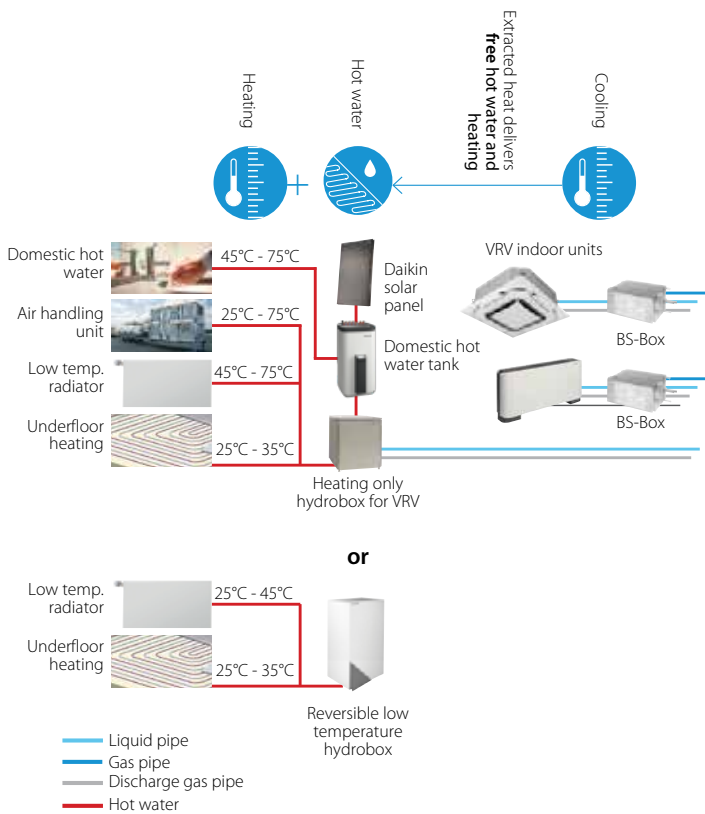
More details and final information can be found by scanning or clicking the QR codes.



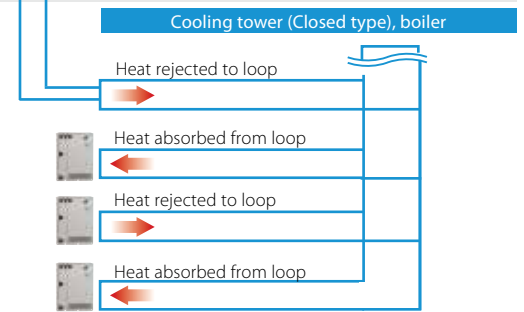
RWEYQ-T9

Outdoor unit		RWEYQ	8T9	10T9	12T9	14T9
Capacity range		HP	8	10	12	14
Cooling capacity	Prated,c	kW	22.4	28.0	33.5	40.0
Heating capacity	Prated,h	kW	25.0	31.5	37.5	45.0
	Max. 6°CWB	kW	25.0	31.5	37.5	45.0
Recommended combination			4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VEB
ηs,c		%	326.8	307.8	359.0	330.7
ηs,h		%	524.3	465.9	436.0	397.1
SEER			8.4	7.9	9.2	8.5
SCOP			13.3	11.8	11.1	10.1
Maximum number of connectable indoor units			64 (1)			
Indoor index connection	Min.		100.0	125.0	150.0	175.0
	Max.		300.0	375.0	450.0	525.0
Dimensions	Unit	HeightxWidthxDepth	mm			
Weight	Unit		kg			
			195			
Sound power level	Cooling	Nom.	dBA			
			65.0			
Sound pressure level	Cooling	Nom.	dBA			
			48.0			
Operation range	Inlet water temperature	Cooling	Min.~Max.		°CDB	
		Heating	Min.~Max.		°CWB	
	Temperature around casing	Max.			°CDB	
			40			
	Humidity around casing	Cooling~Heating	Max.		%	
			80 ~80			
Refrigerant	Type/GWP		R-410A/2,087.5			
	Charge	kg/TCO2eq	7.9/16.5		9.6/20.0	
Piping connections	Liquid OD	mm	9.52		12.7	
	Gas OD	mm	19.1		28.6	
	HP/LP gas OD	mm	15.9/19.1		22.2/28.6	
	Drain Size		14mm OD/ 10mm ID			
	Water Inlet/Outlet	Size	ISO 228-G1 1/4 B/ISO 228-G1 1/4 B			
	Total piping length	System Actual	m			
			500			
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415			
Current - 50Hz	Maximum fuse amps (MFA)	A	20		25	

Stage 1 heat recovery between indoor units



Stage 2 heat recovery between outdoor units

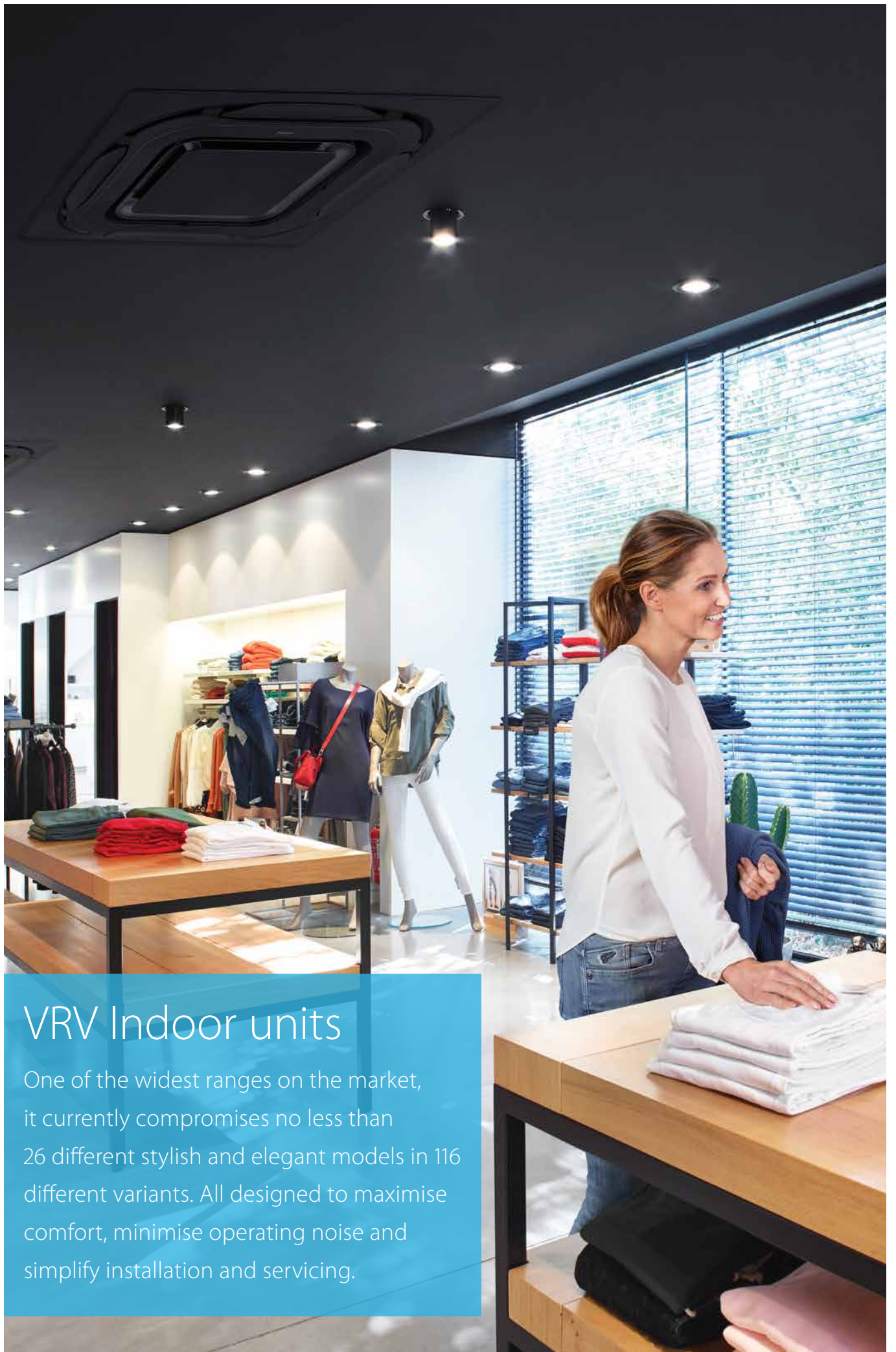


\* Above system configuration are for illustration purpose only.

Outdoor unit system		RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9	
System	Outdoor unit module 1		RWEYQ8T		RWEYQ10T		RWEYQ12T		RWEYQ14T	
	Outdoor unit module 2		RWEYQ8T	RWEYQ10T	RWEYQ10T	RWEYQ12T	RWEYQ12T	RWEYQ14T	RWEYQ14T	
Capacity range		HP	16	18	20	22	24	26	28	
Cooling capacity	Prated,c	kW	44.8	50.4	56.0	61.5	67.0	73.5	80.0	
Heating capacity	Prated,h	kW	50.0	56.5	62.5	69.0	75.0	82.5	90.0	
	Max. 6°CWB	kW	50.0	56.5	62.5	69.0	75.0	82.5	90.0	
Recommended combination			4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	8 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	12 x FXMQ50P7VEB	7 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	
ηs,c		%	307.6	308.7	298.1	311.3	342.6	322.5	306.1	
ηs,h		%	459.2	491.1	466.8	447.9	434.5	406.9	387.9	
SEER			7.9		7.7	8.0	8.8	8.3	7.9	
SCOP			11.7	12.5	11.9	11.4	11.1	10.4	9.9	
Maximum number of connectable indoor units			64 (1)							
Indoor index connection	Min.		200.0	225.0	250.0	275.0	300.0	325.0	350.0	
	Max.		600.0	675.0	750.0	825.0	900.0	975.0	1,050.0	
Piping connections	Liquid OD	mm	12.7		15.9		19.1			
	Gas OD	mm			28.6		34.9			
	HP/LP gas OD	mm	22.2 / 28.6		28.6 / 28.6		28.6 / 34.9			
	Total piping System Actual length	m	500							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415							
Current - 50Hz	Maximum fuse amps (MFA)	A	32		35	40		50		

Outdoor unit system		RWEYQ	30T9	32T9	34T9	36T9	38T9	40T9	42T9	
System	Outdoor unit module 1		RWEYQ10T		RWEYQ12T		RWEYQ14T			
	Outdoor unit module 2		RWEYQ10T	RWEYQ10T	RWEYQ12T	RWEYQ12T	RWEYQ14T	RWEYQ14T		
	Outdoor unit module 3		RWEYQ10T	RWEYQ12T	RWEYQ12T	RWEYQ14T	RWEYQ14T	RWEYQ14T		
Capacity range		HP	30	32	34	36	38	40	42	
Cooling capacity	Prated,c	kW	84.0	89.5	95.0	100.5	107.0	113.5	120.0	
Heating capacity	Prated,h	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0	
	Max. 6°CWB	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0	
Recommended combination			12 x FXMQ63P7VEB	6 x FXMQ50P7VEB + 8 x FXMQ63P7VEB	12 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	18 x FXMQ50P7VEB	13 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	8 x FXMQ50P7VEB + 10 x FXMQ63P7VEB	3 x FXMQ50P7VEB + 15 x FXMQ63P7VEB	
ηs,c		%	308.3	318.2	342.5	352.3	338.8	341.4	332.9	
ηs,h		%	467.2	456.1	447.0	438.5	419.4	404.4	391.2	
SEER			7.9	8.2	8.8	9.0	8.7		8.5	
SCOP			11.9	11.6	11.4	11.2	10.7	10.3	10.0	
Maximum number of connectable indoor units			64 (1)							
Indoor index connection	Min.		375.0	400.0	425.0	450.0	475.0	500.0	525.0	
	Max.		1,125.0	1,200.0	1,275.0	1,350.0	1,425.0	1,500.0	1,575.0	
Piping connections	Liquid OD	mm			19.1		41.3			
	Gas OD	mm			34.9		41.3			
	HP/LP gas OD	mm	28.6 / 34.9		28.6 / 41.3		41.3 / 34.9			
	Total piping System Actual length	m	500							
Power supply	Phase/Frequency/Voltage	Hz/V	3N~/50 /380-415							
Current - 50Hz	Maximum fuse amps (MFA)	A	50		63		80			

(1) Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%). | Contains fluorinated greenhouse gases \* EU member states, UK, Bosnia-Herzegovina, Serbia, Montenegro, Kosovo, Albania, North Macedonia, Iceland, Norway, Switzerland




## VRV Indoor units

One of the widest ranges on the market, it currently comprises no less than 26 different stylish and elegant models in 116 different variants. All designed to maximise comfort, minimise operating noise and simplify installation and servicing.

# VRV IV

## indoor units

<b>VRV indoor units</b>	<b>123</b>	<b>Hot water</b>	<b>150</b>
Ceiling mounted cassette units	130	Low temperature hydrobox	150
<b>UNIQUE</b> FXFQ-B	130	HXY-A8	150
<b>UNIQUE</b> FXZQ-A	131	High temperature hydrobox	151
FXCQ-A	132	HXHD-A8	151
<b>UNIQUE</b> FXKQ-MA	133	Accessories for hot water	152
Concealed ceiling units	134	<b>Biddle Air Curtains</b>	<b>154</b>
Multi zoning kit	134	CYVS/M/L-DK-F/C/R	155
FXDQ-A3	135	<b>Options &amp; accessories</b>	<b>156</b>
<b>SLIMMEST IN CLASS</b> FXSQ-A	136		
FXMQ-P7 / FXMQ-MB	137		
Wall mounted unit	139		
FXAQ-A	139		
Ceiling suspended units	140		
FXHQ-A	140		
<b>UNIQUE</b> FXUQ-A	141		
Floor standing units	142		
<b>SLIMMEST IN CLASS</b> FXNQ-A	142		
FXLQ-P	143		
<b>Stylish indoor units</b>	<b>144</b>		
BPMKS	144		
Accessory to connect stylish indoor units	144		
Wall mounted	145		
 FTXJ-AW/AS/AB	145		
<i>stylish</i> C/FTXA-AW/BS/BT/BB	146		
<i>perfera</i> CTXM-R/FTXM-R	147		
Floor standing	148		
<i>perfera</i> C/FVXM-A	148		
FVXM-F	149		





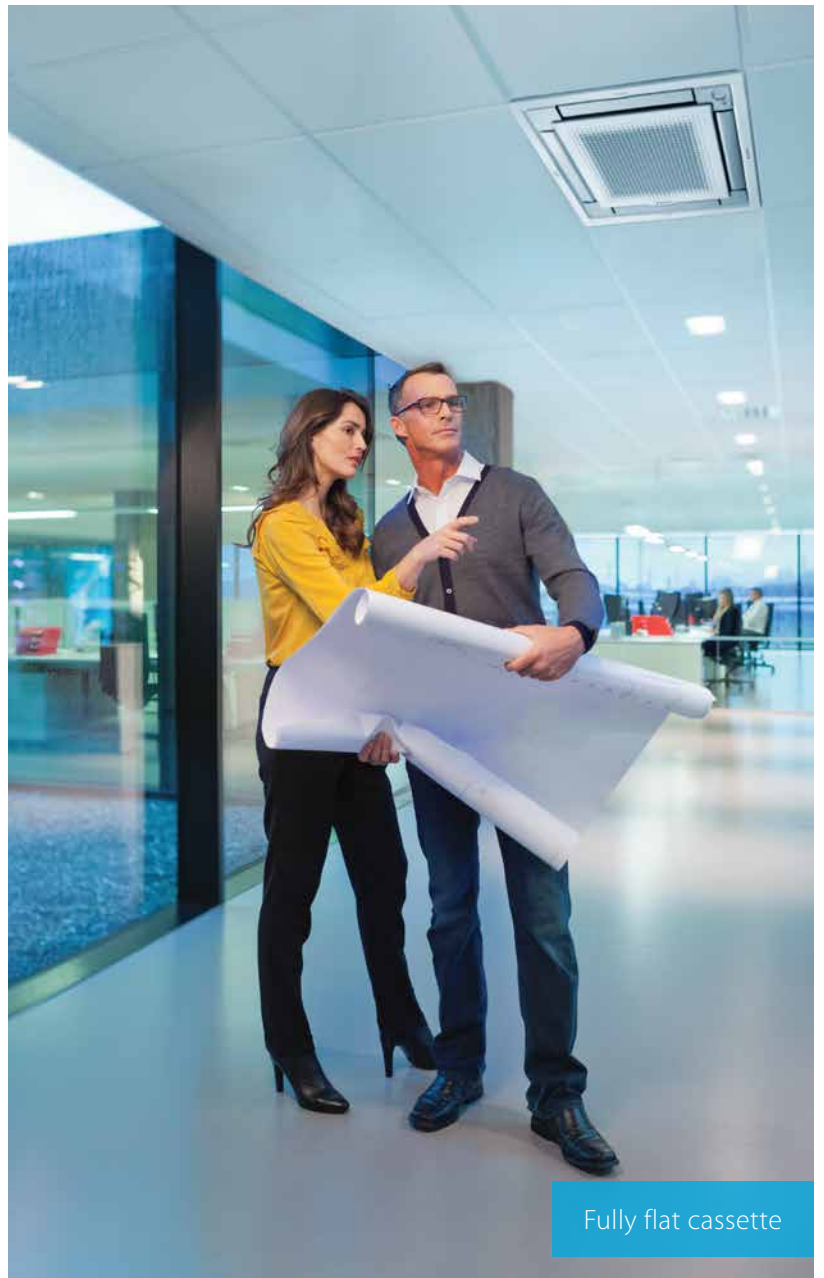




Concealed floor standing unit

















Hot water production



Fully flat cassette

# Products overview **VRV IV**

Capacity class (kW)


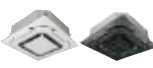











Type	Model	Product name	15	20	25	32	40	50	63	71	80	100	125	140	200	250			
Ceiling mounted cassette	<p><b>UNIQUE</b> Round flow cassette</p> <p>360° air discharge for optimum efficiency and comfort</p> <ul style="list-style-type: none"> <li>Auto cleaning function ensures high efficiency</li> <li>Intelligent sensors save energy and maximize comfort</li> <li>Flexibility to suit every room layout</li> <li>Lowest installation height in the market!</li> <li>Widest choice ever in decoration panel designs and colors</li> </ul>	 <p>FXFQ-B</p> 		•	•	•	•	•	•		•	•	•						
	<p><b>UNIQUE</b> Fully flat cassette</p> <p>Unique design that integrates fully flat into the ceiling</p> <ul style="list-style-type: none"> <li>Perfect integration in standard architectural ceiling tiles</li> <li>Blend of iconic design and engineering excellence</li> <li>Intelligent sensors save energy and maximize comfort</li> <li>Small capacity unit developed for small or well-insulated rooms</li> <li>Flexibility to suit every room layout</li> </ul>	<p>FXZQ-A</p> 	•	•	•	•	•	•											
	<p>2-way blow ceiling mounted cassette</p> <p>Thin, lightweight design installs easily in narrow ceiling spaces</p> <ul style="list-style-type: none"> <li>Depth of all units is 620mm, ideal for narrow ceiling spaces</li> <li>Flexibility to suit every room layout</li> <li>Reduced energy consumption thanks to DC fan motor</li> <li>The flaps close entirely when the unit is not operating</li> <li>Optimum comfort with automatic air flow adjustment to the required load</li> </ul>	<p>FXCQ-A</p> 		•	•	•	•	•	•		•		•						
	<p>Ceiling mounted corner cassette</p> <p>1-way blow unit for corner installation</p> <ul style="list-style-type: none"> <li>Compact dimensions enable installation in narrow ceiling voids</li> <li>Flexible installation thanks to different air discharge options</li> </ul>	<p>FXKQ-MA</p> 			•	•	•		•										
Concealed ceiling	<p>Slim concealed ceiling unit</p> <p>Slim design for flexible installation</p> <ul style="list-style-type: none"> <li>Compact dimensions enable installation in narrow ceiling voids</li> <li>Medium external static pressure up to 44Pa</li> <li>Only grilles are visible</li> <li>Small capacity unit developed for small of well-insulated rooms</li> <li>Reduced energy consumption thanks to DC fan motor</li> </ul>	<p>FXDQ-A3</p> 	•	•	•	•	•	•										Auto cleaning filter option	Multi zoning option
	<p>Concealed ceiling unit with medium ESP</p> <p>Slimmest yet most powerful medium static pressure unit on the market!</p> <ul style="list-style-type: none"> <li>Slimmest unit in class, only 245mm</li> <li>Low operating sound level</li> <li>Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths</li> <li>Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort</li> </ul>	<p>FXSQ-A</p> 	•	•	•	•	•	•			•	•	•	•					Multi zoning option
	<p>Concealed ceiling unit with high ESP</p> <p>ESP up to 200, ideal for large sized spaces</p> <ul style="list-style-type: none"> <li>Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment</li> <li>Reduced energy consumption thanks to DC fan motor</li> <li>Flexible installation as the air suction direction can be altered from rear to bottom suction</li> </ul>	<p>FXMQ-P7</p> 							•	•		•	•						
	<p>Concealed ceiling unit with high ESP</p> <p>ESP up to 270, ideal for extra large sized spaces</p> <ul style="list-style-type: none"> <li>Only grilles are visible</li> <li>Large capacity unit: up to 31.5 kW heating capacity</li> </ul>	<p>FXMQ-MB</p> 														•	•		
Wall mounted	<p>Wall mounted unit</p> <p>For rooms with no false ceilings nor free floor space</p> <ul style="list-style-type: none"> <li>Flat, stylish front panel is more easy to clean</li> <li>Small capacity unit developed for small of well-insulated rooms</li> <li>Reduced energy consumption thanks to DC fan motor</li> <li>The air is comfortably spread up- and downwards thanks to 5 different discharge angles</li> </ul>	<p>FXAQ-A</p> 	•	•	•	•	•	•											
Ceiling suspended	<p>Ceiling suspended unit</p> <p>For wide rooms with no false ceilings nor free floor space</p> <ul style="list-style-type: none"> <li>Ideal for comfortable air flow in wide rooms thanks to Coanda effect</li> <li>Rooms with ceilings up to 3.8m can be heated or cooled very easily!</li> <li>Can easily be installed in both new and refurbishment projects</li> <li>Can even be mounted in corners or narrow spaces without any problem</li> <li>Reduced energy consumption thanks to DC fan motor</li> </ul>	<p>FXHQ-A</p> 				•					•								
	<p><b>UNIQUE</b> 4-way blow ceiling suspended unit</p> <p>Unique Daikin unit for high rooms with no false ceilings nor free floor space</p> <ul style="list-style-type: none"> <li>Rooms with ceilings up to 3.5m can be heated up or cooled down very easily!</li> <li>Can easily be installed in both new and refurbishment projects</li> <li>Flexibility to suit every room layout</li> <li>Reduced energy consumption thanks to DC fan motor</li> </ul>	<p>FXUQ-A</p> 									•		•						
Floor standing	<p>Floor standing unit</p> <p>For perimeter zone air conditioning</p> <ul style="list-style-type: none"> <li>Can be installed in front of glass walls or free standing as both the front and the back are finished</li> <li>Ideal for installation beneath a window</li> <li>Requires very little installation space</li> <li>Wall mounted installation facilitates cleaning beneath the unit</li> </ul>	<p>FXLQ-P</p> 		•	•	•	•	•	•										
	<p>Concealed floor standing unit</p> <p>Ideal for installation in offices, hotels and residential applications</p> <ul style="list-style-type: none"> <li>Discretely concealed in the wall, leaving only the suction and discharge grilles visible</li> <li>Can even be installed underneath a window</li> <li>Requires very little installation space as the depth is only 200mm</li> <li>High ESP allows flexible installation</li> </ul>	<p>FXNQ-A</p> 		•	•	•	•	•	•										
Cooling capacity (kW) <sup>1</sup>				1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0		
Heating capacity (kW) <sup>2</sup>				1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5		

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m

# Products overview Stylish indoor units

Depending on the application, Split and Sky Air indoor units can be connected to our VRV IV and VRV IV S-series outdoor units. Refer to the **outdoor unit portfolio** for combination restrictions.

Type	Model	Product name	Capacity class (kW)							Connectable outdoor unit					
			15	20	25	35	42	50	60	71	RYYQ-U	RXYQ-U	RXYSCQ-TV1 <sup>3</sup> RXY5Q-TV9 <sup>3</sup> RXY5Q-TV9/TV1 <sup>4</sup>	RWEYQ-T9 <sup>4</sup>	RXYLQ-T
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function <sup>1</sup> ) 	FCAG-B 				●			●	●			✓		
	Fully flat cassette	FFA-A9 			●	●			●	●			✓		
Concealed ceiling	Slim concealed ceiling unit	FDXM-F9 			●	●			●	●			✓		
	Concealed ceiling unit with inverter-driven fan	FBA-A(9) 				●			●	●		Auto cleaning filter option	✓		
Wall mounted	Daikin Emura Wall mounted unit 	FTXJ-AW/AS/AB 		●	●	●			●			✓	✓	✓	✓
	Stylish Wall mounted unit	FTXA-AW/BS/BB/BT 		●	●	●		●	●			✓	✓	✓	✓
	Perfera Wall mounted unit	CTXM-R/FTXM-R 	● RXYSCQ only	●	●	●		●	●	●		✓	✓	✓	✓
Ceiling suspended	Ceiling suspended unit	FHA-A(9) 				●			●	●			✓		
Floor standing	Perfera Floor standing unit	FVXM-A 		●	●	●			●			✓	✓	✓	✓
	Floor standing unit	C/FVXM-F 			●	●			●			✓	✓	✓	✓
	Concealed floor standing unit	FNA-A9 			●	●			●	●			✓		

<sup>1</sup> Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E\* or BRC1H\* needed



<sup>2</sup> To connect stylish indoor units a BPMKS unit is needed

<sup>3</sup> A mix of RA indoor units and VRV indoor units is not allowed.























<sup>4</sup> Only in heat pump operation






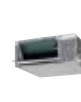







## Hydrobox range

Capacity class (kW)

Type	Product name	Model	80	125	200	Leaving water temperature range
Low temperature hydrobox	HXY-A8 	For high efficiency space heating and cooling > Ideal for hot or cold water in underfloor, air handling units, low temperature radiators ... > Hot/cold water from 5° to 45°C > Large operation range (down to -20°C and up to 43°C) > Fully integrated water-side components save time on system design > Space saving contemporary wall hung design	●	●		5 °C - 45 °C
High temperature hydrobox	HXHD-A8 	For efficient hot water production and space heating > Ideal for hot water in bathrooms, sinks and for underfloor heating, radiators, air handling units, ... > Hot water from 25 to 80°C > "Free" heating and hot water through heat recovery > Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler > Possibility to connect thermal solar collectors		●	●	25 °C - 80 °C

# Benefits overview **VRV IV**

We care		Home leave operation	Maintains the indoor temperature at your specified comfort level during absence, thus saving energy
		Fan only	The unit can be used as fan, blowing air without heating or cooling
		Auto cleaning filter	The filter automatically cleans itself. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance
		Presence & floor sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor
Comfort		Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired
		Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neighbourhood
		Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature
Air treatment		Air filter	Removes airborne dust particles to ensure a steady supply of clean air
Humidity control		Dry programme	Allows humidity levels to be reduced without variations in room temperature
Air flow		Ceiling soiling prevention	Prevents air from blowing out too long in horizontal position, to prevent ceiling stains
		Vertical auto swing	Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room
		Fan speed steps	Allows to select up to the given number of fan speed
		Individual flap control	Individual flap control via the wired remote controller enables you to easily fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well
Remote control & timer		Weekly timer	Can be set to start heating or cooling anytime on a daily or weekly basis
		Infrared remote control	Starts, stops and regulates the air conditioner from a distance
		Wired remote control	Starts, stops and regulates the air conditioner
		Centralised control	Starts, stops and regulates several air conditioners from one central point
		Multi zoning	Allows up to 6 individual climate zones with one indoor unit
Other functions		Auto-restart	The unit restarts automatically at the original settings after power failure
		Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies
		Drain pump kit	Facilitates condensation draining from the indoor unit
		Multi tenant	The indoor unit's main power supply can be turned off when leaving the hotel or office building

Ceiling mounted cassette units				Concealed ceiling units				Wall mounted unit	Ceiling suspended units			Floor standing units	
FXFQ-B	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXAQ-A	FXHQ-A	FXUQ-A	FXNQ-A	FXLQ-P	
													
●	●	●	●	●	●	●	●	●	●	●	●	●	
●	●	●	●	●	●	●	●	●	●	●	●	●	
○													
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●	●		●							●			
●	●	●		●	●			●					
●	●	●	●	●	●	●	●	●	●	●	●	●	
●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	●(1)	
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3 + auto	3 + auto	3 + auto	2	3	3 + auto	3	2	2	3	3 + auto	2	3	
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● standard, ○ optional

(1) Pre filter

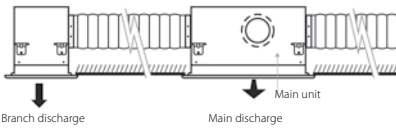




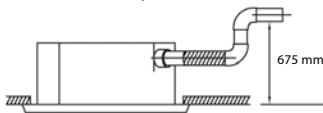
# Round flow cassette

360° air discharge for optimum efficiency and comfort

- › Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- › Two optional intelligent sensors improve energy efficiency and comfort
- › Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- › Bigger flaps and unique swing pattern improve equal air distribution
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- › Lowest installation height in the market: 214mm for class 20-63
- › Optional fresh air intake
- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



- › Standard drain pump with 675mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



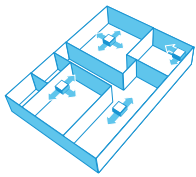
Indoor Unit		FXFQ	20B	25B	32B	40B	50B	63B	80B	100B	125B		
Cooling capacity	Total capacity	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00		
	At high fan speed	kW											
Heating capacity	Total capacity	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0		
	At high fan speed	kW											
Power input - 50Hz	Cooling	kW		0.017		0.018	0.023	0.028	0.045	0.071	0.103		
	Heating	kW		0.017		0.018	0.023	0.028	0.045	0.071	0.103		
Dimensions	Unit	HeightxWidthxDensity	204x840x840						246x840x840		288x840x840		
Weight	Unit	kg	18.0			19.0		21.0		24.0		26.0	
Casing	Material		Galvanised steel plate										
Decoration panel	Model		Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - black Auto cleaning panels: BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black										
	Dimensions	HeightxWidthxDensity	Standard panels: 65x950x950 / Auto cleaning panels: 148x950x950 / Designer panels: 106x950x950										
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed			m³/min	12.8/10.7/8.9	14.8/12.6/10.4	15.1/12.9/10.7	16.6/13.4/10.7	23.3/19.2/13.5	27.8/20.4/13.0	31.6/26.0/19.8
		Heating	At high/medium/low fan speed			m³/min	12.8/10.7/8.9	14.8/12.6/10.4	15.1/12.9/10.7	16.6/13.4/10.7	22.5/18.5/13.0	27.8/20.4/13.0	30.3/24.9/18.9
Air filter	Type		Resin net										
Sound power level	Cooling	At high fan speed	49.0			51.0		53.0	55.0	60.0	61.0		
	Heating	At high/medium/low fan speed	31.0/29.0/28.0			33.0/31.0/29.0		35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0		
Sound pressure level	Cooling	At high/medium/low fan speed	31.0/29.0/28.0			33.0/31.0/29.0		35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0		
	Heating	At high/medium/low fan speed	31.0/29.0/28.0			33.0/31.0/29.0		35.0/33.0/30.0	38.0/34.0/30.0	43.0/37.0/30.0	45.0/41.0/36.0		
Refrigerant	Type/GWP		R-410A/2,0875										
Piping connections	Liquid	OD	6.35							9.52			
	Gas	OD	12.7							15.9			
	Drain		VP25 (O.D. 32 / I.D. 25)										
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/60/220-240/220										
Control systems	Infrared remote control		BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB										
	Wired remote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52										

Contains fluorinated greenhouse gases

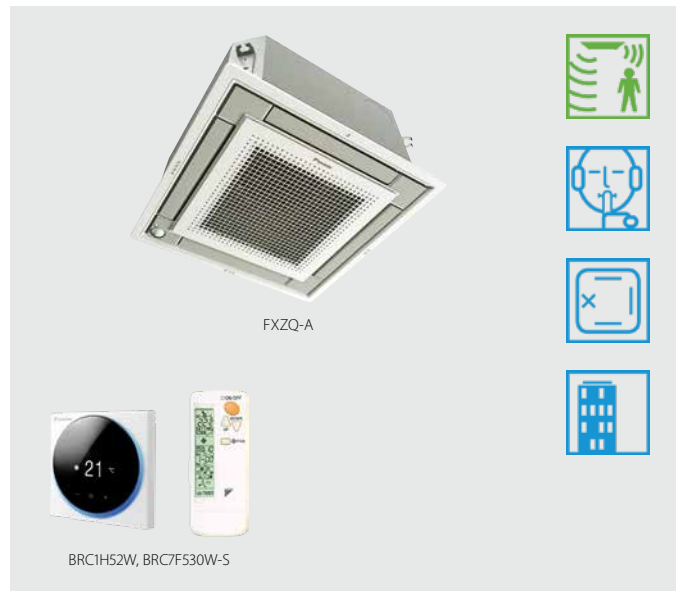
# Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

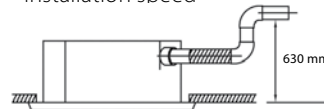
- › Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- › Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- › Two optional intelligent sensors improve energy efficiency and comfort
- › 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- › Optional fresh air intake



- › Standard drain pump with 630mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



FXZQ-A

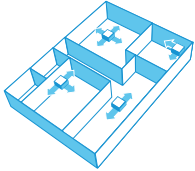
Indoor Unit				FXZQ	15A	20A	25A	32A	40A	50A
Cooling capacity	Total capacity	At high fan speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	
	Heating capacity	Total capacity	At high fan speed	kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan speed	kW		0.018	0.020	0.019	0.029	0.048	
	Heating	At high fan speed	kW		0.018	0.020	0.019	0.029	0.048	
Dimensions	Unit	HeightxWidthxDepth	mm	260x575x575						
Weight	Unit		kg	15.5			16.5		18.5	
Casing	Material	Galvanised steel plate								
Decoration panel	Model	BYFQ60C2W1W								
	Colour	White (N9.5)								
	Dimensions	HeightxWidthxDepth	mm	46x620x620						
	Weight		kg	2.8						
Decoration panel 2	Model	BYFQ60C2W1S								
	Colour	SILVER								
	Dimensions	HeightxWidthxDepth	mm	46x620x620						
	Weight		kg	2.8						
Decoration panel 3	Model	BYFQ60B2W1								
	Colour	White (RAL9010)								
	Dimensions	HeightxWidthxDepth	mm	55x700x700						
	Weight		kg	2.7						
Decoration panel 4	Model	BYFQ60B3W1								
	Colour	WHITE (RAL9010)								
	Dimensions	HeightxWidthxDepth	mm	55x700x700						
	Weight		kg	2.7						
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	8.5/7.00/6.5	8.7/7.50/6.5	9.0/8.00/6.5	10.0/8.50/7.0	11.5/9.50/8.0	14.5/12.5/10.0
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	8.5/7.0/6.5	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
Air filter	Type	Resin net								
Sound power level	Cooling	At high fan speed	dBA	49			50	51	54	60
		At high/medium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0	
Sound pressure level	Heating	At high/medium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0	
		At high/medium/low fan speed	dBA	31.5/28.0/25.5	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0	
Refrigerant	Type/GWP	R-410A/2,087.5								
Piping connections	Liquid	OD	mm	6.35						
	Gas	OD	mm	12.7						
	Drain			VP20 (I.D. 20/O.D. 26)						
Power supply	Phase/Frequency/Voltage	Hz/V								
Current - 50Hz	Maximum fuse amps (MFA)	A								
Control systems	Infrared remote control	BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)								
Control systems	Wired remote control	BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52								

Contains fluorinated greenhouse gases

# 2-way blow ceiling mounted cassette

Thin, lightweight design installs easily in narrow corridors

- › Depth of all units is 620mm, ideal for narrow spaces
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!



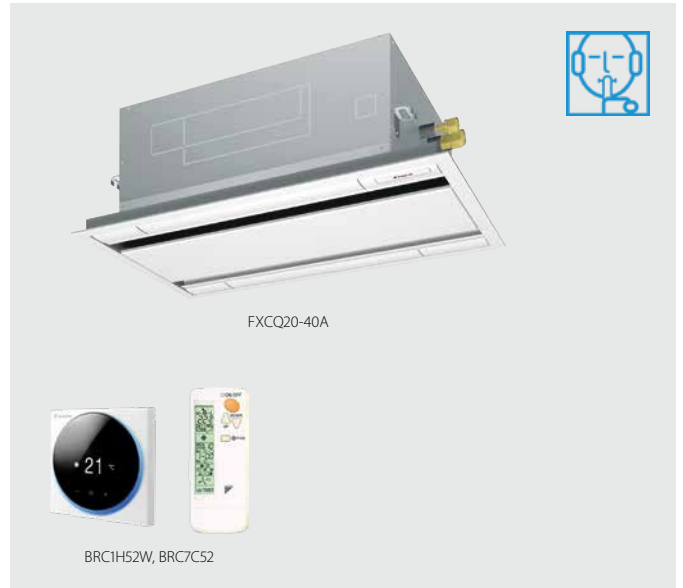
- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing

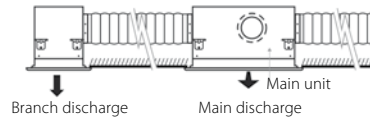


\* Brings in up to 10% of fresh air into the room

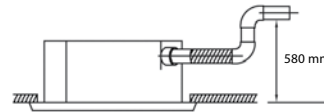
- › Optimum comfort guaranteed with automatic air flow adjustment to the required load
- › Maintenance operations can be performed by removing the front panel



- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



- › Standard drain pump with 580mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



FXCQ-A

Indoor Unit			FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Total capacity	At high fan speed	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Total capacity	At high fan speed	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power input - 50Hz	Cooling	At high fan speed	kW	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating	At high fan speed	kW	0.028	0.035		0.037	0.056	0.060	0.086	0.146
Dimensions	Unit	HeightxWidthxDepth	mm	305x775x620				305x990x620		305x1,445x620	
Weight	Unit		kg	19			22	25	33	38	
Casing	Material			Galvanised steel plate							
Decoration panel	Model			BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1	
	Colour			Fresh white (6.5Y 9.5/0.5)							
	Dimensions	HeightxWidthxDepth	mm	55x1,070x700				55x1,285x700		55x1,740x700	
	Weight		kg	10			11		13		
Fan	Air flow rate - 50Hz	Cooling	m <sup>3</sup> /min	10.5/9/7.5	11.5/9.5/8		12/10.5/8.5	15/13/10.5	16/14/11.5	26/22.5/18.5	32/27.5/22.5
		At high/medium/low fan speed									
Air filter	Type			Resin net with mold resistance							
Sound power level	Cooling	At high fan speed / At medium fan speed / At low fan speed	dB(A)	48/46/44	50/47/45	50/48/46	52/49/47	53/51/47	55/53/48	58/54/49	62/58/54
		At high fan speed / At medium fan speed / At low fan speed	dB(A)	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
Sound pressure level	Heating	At high fan speed / At medium fan speed / At low fan speed	dB(A)	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
		At high fan speed / At medium fan speed / At low fan speed	dB(A)	32.0/30.0/28.0	34.0/31.0/29.0	34.0/32.0/30.0	36.0/33.0/31.0	37.0/35.0/31.0	39.0/37.0/32.0	42.0/38.0/33.0	46.0/42.0/38.0
Refrigerant	Type/GWP			R-410A/2,087.5							
Piping connections	Liquid	OD	mm	6.35				9.52		15.9	
	Gas	OD	mm	12.7							
	Drain			VP25 (O.D. 32 / I.D. 25)							
Power supply	Phase/Frequency/Voltage	Hz/V		1~/50 /220-240							
Current - 50Hz	Maximum fuse amps (MFA)	A		16							
Control systems	Infrared remote control			BRC7C52							
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

Contains fluorinated greenhouse gases

# Ceiling mounted corner cassette

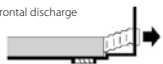
## 1-way blow unit for corner installation

- › Compact dimensions, can easily be mounted in a narrow ceiling void (only 220mm ceiling space required, 195 with panel spacer, available as accessory)
- › Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both

Downward discharge

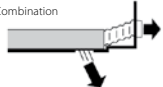


Frontal discharge

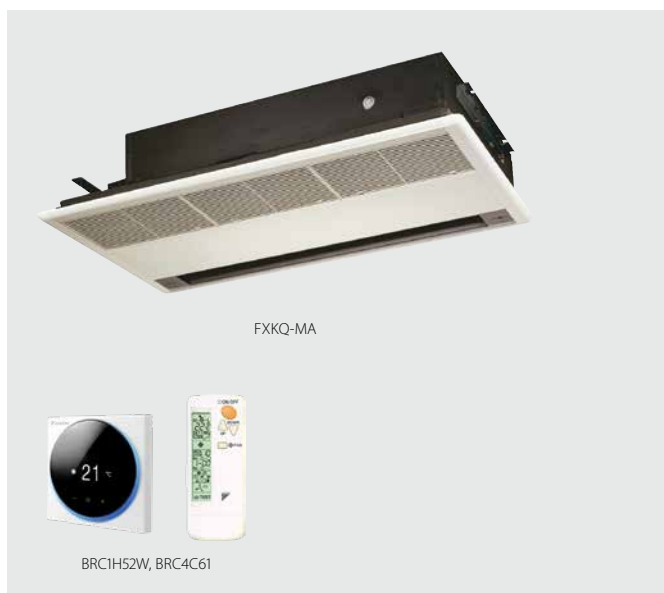
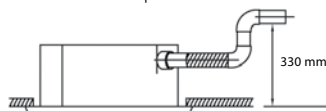


Closed decoration panel

Combination



- › Maintenance operations can be performed by removing the front panel
- › Standard drain pump with 330mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



FXKQ-MA

Indoor Unit		FXKQ	25MA	32MA	40MA	63MA
Cooling capacity	Total capacity		2.8	3.6	4.5	7.10
	At high fan speed					
Heating capacity	Total capacity		3.2	4.0	5.0	8.00
	At high fan speed					
Power input - 50Hz	Cooling			0.066	0.076	0.105
	At high fan speed					
	Heating		0.046		0.056	0.085
	At high fan speed					
Dimensions	Unit	HeightxWidthxDepth	215x1,110x710			215x1,310x710
Weight	Unit	kg	31			34
Casing	Material	Galvanised steel plate				
Decoration panel	Model	BYK45FJW1				BYK71FJW1
	Colour	White				
	Dimensions	HeightxWidthxDepth	70x1,240x800			70x1,440x800
	Weight	kg	8.5			9.5
Fan	Air flow	Cooling	11/9		13/10	18/15
	At high fan speed/ At low fan speed	At high fan speed/ At low fan speed				
Air filter	Type	Resin net with mold resistance				
Sound power level	Cooling	At high fan speed/ At low fan speed	54/49		56/50	58/53
	At high fan speed/ At low fan speed	At high fan speed/ At low fan speed				
Sound pressure level	Cooling	At high fan speed/ At low fan speed	38.0/33.0		40.0/34.0	42.0/37.0
	At high fan speed/ At low fan speed	At high fan speed/ At low fan speed				
Refrigerant	Type/GWP	R-410A/2,087.5				
Piping connections	Liquid	OD	6.4			9.5
	Gas	OD	12.7			15.9
	Drain		VP25 (O.D. 32 / I.D. 25)			
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)	A	15			
Control systems	Infrared remote control	BRC4C61				
	Wired remote control	BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52				

Contains fluorinated greenhouse gases

# Multi zoning kit for concealed ceiling units



The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones via a centralised thermostat located in the main room and individual thermostats for each of the zones.

## Benefits

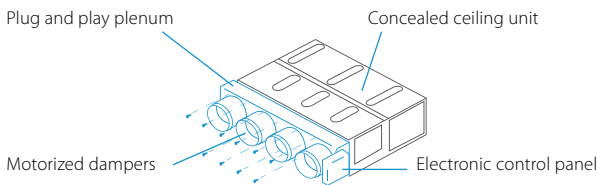
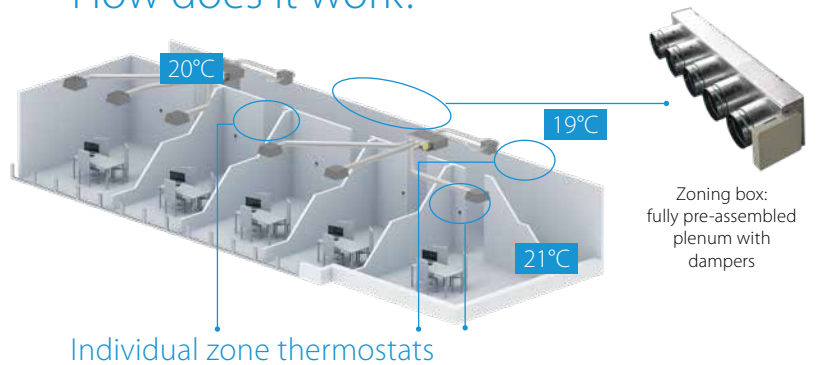
### Increased comfort

- › Increases comfort levels by allowing more individual zone control
  - Up to 8 individual zones can be served thanks to separate modulating dampers
  - Individual thermostat for room-by-room or zone-by-zone control

### Easy to install

- › Automatic air flow adjustment according to the demand
- › Easy to install, integrates with the Daikin indoor units and system controls
- › Time saving as plenum comes fully pre-assembled with dampers, and control boards
- › Reduces the amount of refrigerant required in the installation

## How does it work?



### Blueface - Airzone Main Thermostat

- › Color graphic interface for controlling zones



AZCE6BLUEZEROCB (Wired)

### Airzone Zone Thermostat

- › Graphic interface with low-energy e-ink screen for controlling zones



AZCE6THINKCB (Wired)  
AZCE6THINKRB (Wireless)

### Airzone Zone Thermostat

- › Thermostat with buttons for controlling the temperature



AZCE6LITECB (Wired)  
AZCE6LITERB (Wireless)

## Compatibility

Number of motorised dampers	Reference	Dimensions H x W x D (mm)	SkyAir												VRV																
			FDXM-F9				FBA-A(9)				ADEA-A				FXDQ-A3				FXSQ-A												
			25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	63	71	80	100	125	140		
Standard Ceiling Void	AZEZ6DAIST07XS2	300 x 930 x 454																													
	AZEZ6DAIST07S2																														
	AZEZ6DAIST07XS3	300 x 930 x 454																													
	AZEZ6DAIST07S3																														
	AZEZ6DAIST07S4	300 x 930 x 454																													
	AZEZ6DAIST07M4	300 x 1,140 x 454																													
	AZEZ6DAIST07M5	300 x 1,425 x 454																													
	AZEZ6DAIST07L5																														
	AZEZ6DAIST07M6	300 x 1,638 x 454																													
	AZEZ6DAIST07L6																														
AZEZ6DAIST07L7	515 x 1,425 x 454																														
AZEZ6DAIST07XL7	515 x 1,425 x 454																														
AZEZ6DAIST07L8																															
AZEZ6DAIST07XL8																															
Compact Ceiling Void	AZEZ6DAISL01S2	210 x 720 x 444																													
	AZEZ6DAISL01S3	210 x 720 x 444																													
	AZEZ6DAISL01M4	210 x 930 x 444																													
	AZEZ6DAISL01L5	210 x 1,140 x 444																													
	AZEZ6DAISL01S5																														

For more information on options refer to page 196



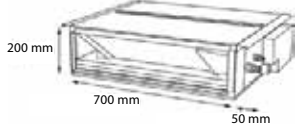


# Slim concealed ceiling unit

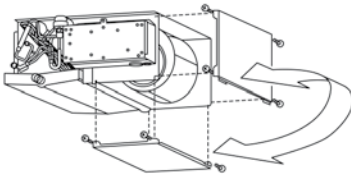
## Slim design for flexible installation

- > Compact dimensions, can easily be mounted in a ceiling void of only 240mm

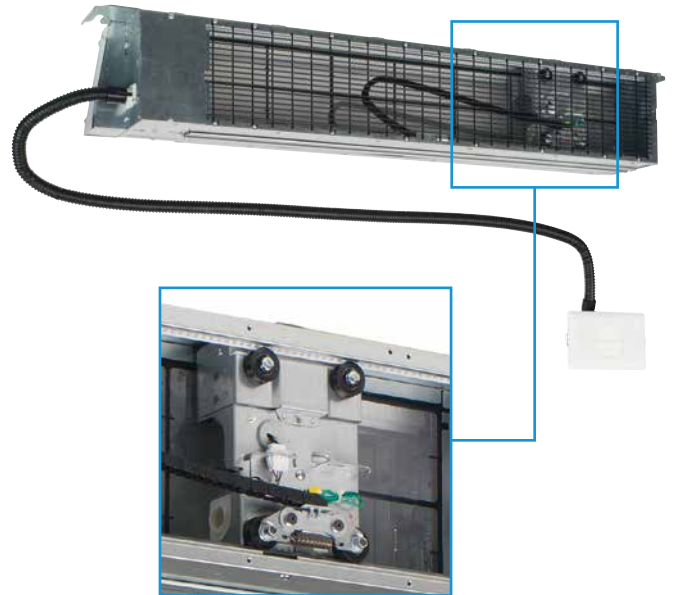
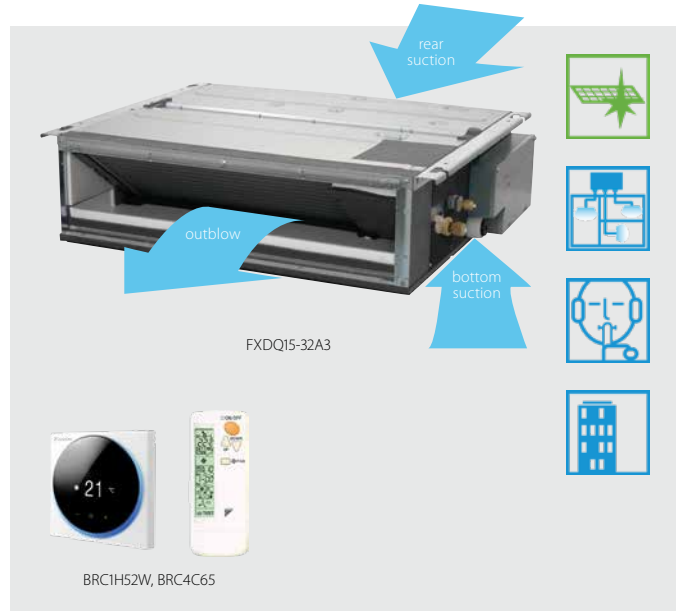
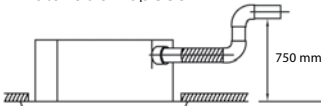
SERIE A (15, 20, 25, 32)



- > Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- > Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



- > Standard drain pump with 600mm lift increases flexibility and installation speed



Auto cleaning filter option

More details and final information can be found by scanning or clicking the QR codes.



FXDQ-A3

Indoor Unit		FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3		
Cooling capacity	Total capacity		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	
	At high fan speed										
Heating capacity	Total capacity		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	
	At high fan speed										
Power input - 50Hz	Cooling						0.036	0.041	0.042	0.053	0.062
	At high fan speed										
Heating	At high fan speed						0.036	0.041	0.042	0.053	0.062
	At high fan speed										
Required ceiling void >			mm	240							
Dimensions	Unit	HeightxWidthxDPTH	mm	200x750x620			200x950x620		200x1,150x620		
Weight	Unit		kg	22.0			26.0		29.0		
Casing	Material			Galvanised steel							
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	7.5/7.00/6.4	8.0/7.20/6.4		10.5/9.50/8.5	12.5/11.0/10.0	16.5/14.5/13.0	
	External static pressure - 50Hz	Factory set / High		Pa	10/30.0			15/44.0			
Air filter	Type			Removable/washable							
Sound power level	Cooling	At high fan speed	dBA	50	51		52	53	54		
	At high/medium/low fan speed										
Sound pressure level	Cooling	At high/medium/low fan speed	dBA	32.0/31.0/27.0	33.0/31.0/27.0		34.0/32.0/28.0	35.0/33.0/29.0	36.0/34.0/30.0		
	At high/medium/low fan speed										
Refrigerant	Type/GWP			R-410A/2,087.5							
Piping connections	Liquid	OD	mm	6.35			9.52				
	Gas	OD	mm	12.7			15.9				
	Drain			VP20 (I.D. 20/O.D. 26)							
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220							
Current - 50Hz	Maximum fuse amps (MFA)		A	16							
Control systems	Infrared remote control			BRC4C65 / BRC4C66							
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

Contains fluorinated greenhouse gases

# Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- › Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge



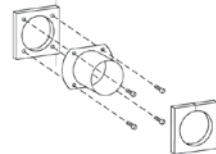
- › Quiet operation: down to 25dBA sound pressure level
- › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- › Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- › Optional fresh air intake

Fresh air intake opening in casing

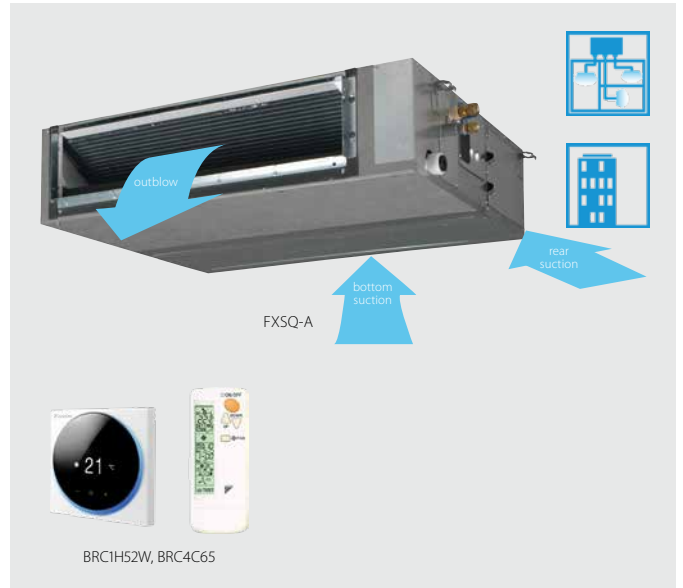


\* Brings in up to 10% of fresh air into the room

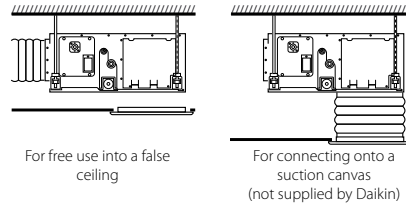
Optional fresh air intake kit



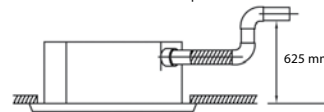
\* Allow larger quantities of fresh air to be brought in



- › Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles



- › Standard built-in drain pump with 625mm lift increases flexibility and installation speed

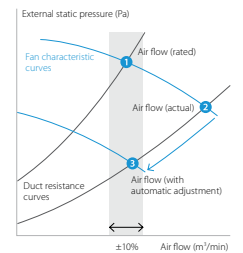


### Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

#### Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature. Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster.



More details and final information can be found by scanning or clicking the QR codes.



FXSQ-A

Indoor Unit		FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A		
Cooling capacity	Total capacity		1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00		
	At high fan speed														
Heating capacity	Total capacity		1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0		
	At high fan speed														
Power input - 50Hz	Cooling			0.041		0.045	0.087	0.089	0.101	0.135	0.173	0.237	0.247		
	Heating			0.041		0.045	0.087	0.089	0.101	0.135	0.173	0.237	0.247		
Dimensions	Unit	HeightxWidthxDepth	mm		245x550x800			245x700x800		245x1,000x800		245x1,400x800		245x1,550x800	
Weight	Unit		kg		23.5		24.0	28.5	29.0	35.5	46.0	47.0	51.0		
Casing	Material		Galvanised steel plate												
Fan	Air flow	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	8.7/7.50/6.5	9.0/7.50/6.5	9.5/8.00/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0	
	rate - 50Hz	Heating	At high/medium/low fan speed	m <sup>3</sup> /min	8.7/7.5/6.5	9.0/7.5/6.5	9.5/8.0/7.0	15.0/12.5/11.0	15.2/12.5/11.0	21.0/18.0/15.0	23.0/19.5/16.0	32.0/27.0/23.0	36.0/31.5/26.0	39.0/34.0/28.0	
	External static pressure - 50Hz	Factory set / High		Pa	30/150					40/150		50/150			
Air filter	Type		Resin net												
Sound power level	Cooling	At high fan speed		dBA		54		55	60	59	61		64		
	At high/medium/low fan speed			dBA		29.5/28.0/25.0		30.0/28.0/25.0		31.0/29.0/26.0		35.0/32.0/29.0		33.0/30.0/27.0	
Sound pressure level	Heating	At high/medium/low fan speed		dBA		31.5/29.0/26.0		32.0/29.0/26.0		33.0/30.0/27.0		37.0/34.0/29.0		35.0/32.0/28.0	
				dBA		37.0/34.0/30.0		37.0/34.0/31.0		40.0/37.0/33.0		42.0/38.5/34.0			
Refrigerant	Type/GWP		R-410A/2,087.5												
Piping connections	Liquid/Gas OD		mm		6.35/12.7				9.52/15.9						
	Drain		VP20 (I.D. 20/O.D. 26), drain height 625 mm												
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/60/220-240/220										
Current - 50Hz	Maximum fuse amps (MFA)		A		16										
Control systems	Infrared remote control		BRC4C65												
	Wired remote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52												

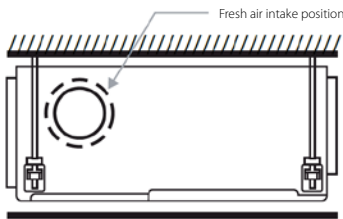
Contains fluorinated greenhouse gases

# Concealed ceiling unit with high ESP

Ideal for large sized spaces FXMQ-P7: ESP up to 200 Pa

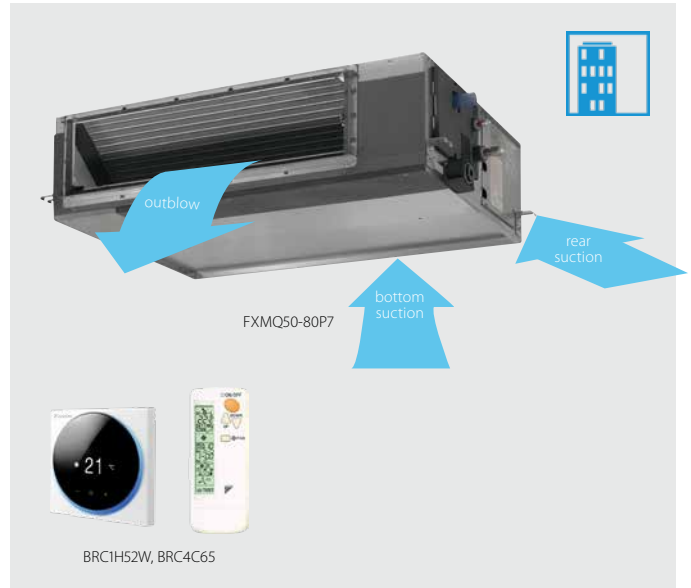
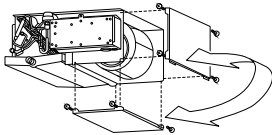
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › High external static pressure up to 200Pa facilitates extensive duct and grille network
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Fresh air intake opening in casing

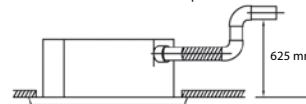


\* Brings in up to 10% of fresh air into the room

- › Flexible installation, as the air suction direction can be altered from rear to bottom suction



- › Standard built-in drain pump with 625mm lift increases flexibility and installation speed



FXMQ-MB: ESP up to 270 Pa

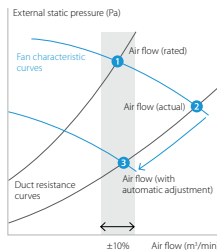
- › High external static pressure up to 270Pa facilitates extensive duct and grille network
- › Large capacity unit: up to 31.5 kW heating capacity

## Automatic Airflow Adjustment function

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

### Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \* the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature. Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster.



More details and final information can be found by scanning or clicking the QR codes.



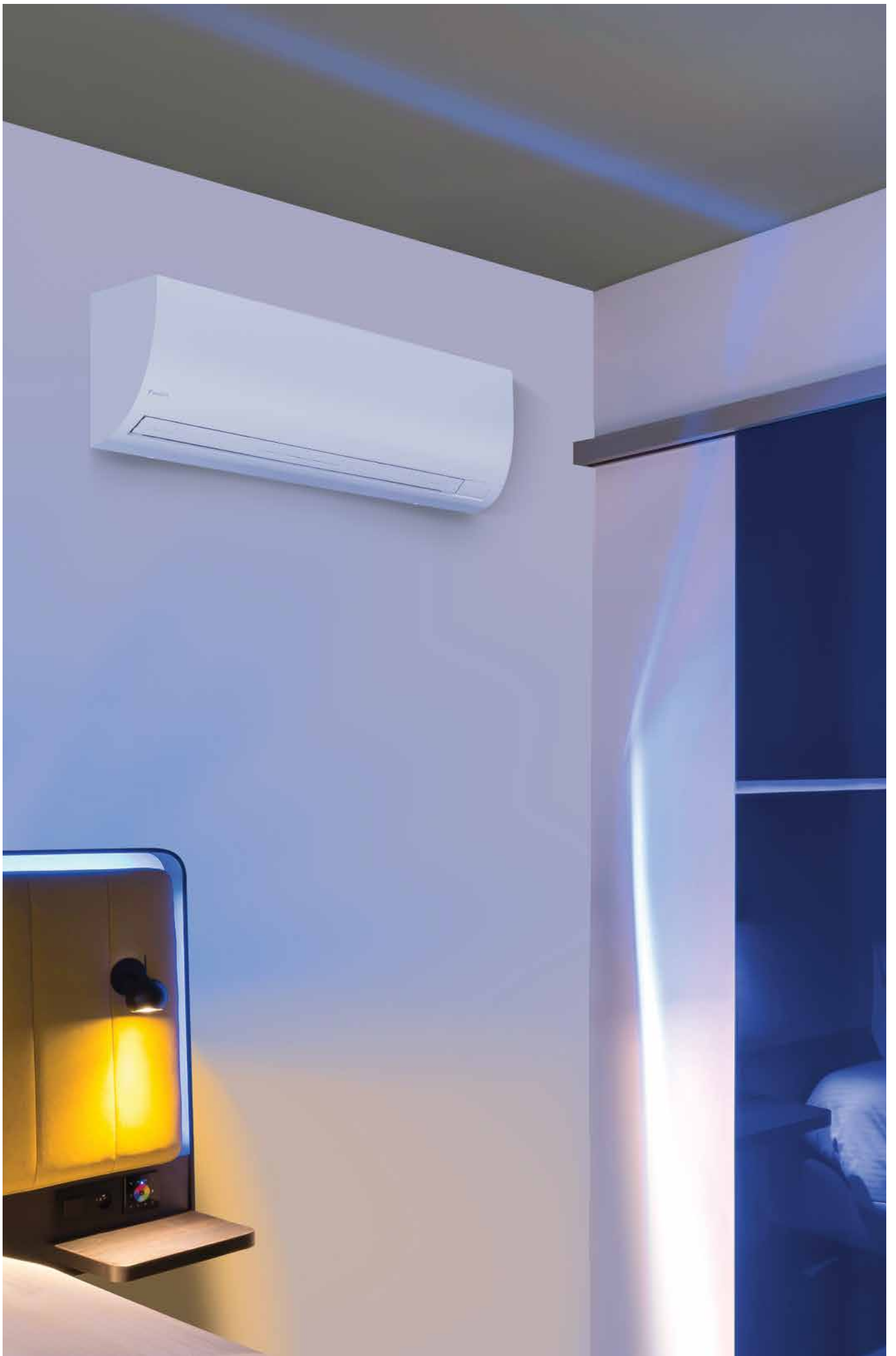
FXMQ-P7



FXMQ-MB

Indoor Unit		FXMQ	50P7	63P7	80P7	100P7	125P7	200MB	250MB	
Cooling capacity	Total capacity At high fan speed	kW			-			22.4	28.0	
	Nom.		5.6	7.1	9.0	11.2	14.0			
Heating capacity	Total capacity At high fan speed	kW			-			25.0	31.5	
	Nom.		6.3	8.0	10.0	12.5	16.0			
Power input - 50Hz	Cooling At high fan speed	kW	0.110	0.120	0.171	0.176	0.241	0.895	1.185	
	Heating At high fan speed	kW	0.098	0.108	0.159	0.164	0.229	0.895	1.185	
Required ceiling void >		mm	350							
Dimensions	Unit	HeightxWidthxDepth	300x1,000x700			300x1,400x700		470x1,380x1,100		
Weight	Unit	kg	35			46		132		
Fan	Air flow rate - 50Hz	Cooling At high/medium/low fan speed	m <sup>3</sup> /min	18.0/16.5/15.0	19.5/17.8/16.0	25.0/22.5/20.0	32.0/27.5/23.0	39.0/33.5/28.0	58/54.0/50	72/67.0/62
		Heating At high/medium/low fan speed	m <sup>3</sup> /min	18.0/16.5/15.0	19.5/17.8/16.0	25.0/22.5/20.0	32.0/27.5/23.0	39.0/33.5/28.0	-/-/-	-/-/-
		External static pressure - 50Hz	Factory set / High	Pa	100/200					160/270
Air filter	Type		Resin net							
Sound power level	Cooling At high/medium/low fan speed	dBA	61.0/-/-	64.0/-/-	67.0/-/-	65.0/-/-	70.0/-/-	76/75/73		
	Sound pressure level	Cooling At high/medium/low fan speed	dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0		48/-/45
	Heating At high/medium/low fan speed	dBA	41.0/39.0/37.0	42.0/40.0/38.0	43.0/41.0/39.0		44.0/42.0/40.0		-/-/-	
Refrigerant	Type/GWP		R-410A/-						R-410A/2,087.5	
Piping connections	Liquid OD	mm	6.35				9.52			
	Gas OD	mm	12.7				15.9		19.1	22.2
	Drain		VP25 (I.D. 25/O.D. 32)						PS1B	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/60/220-240/220 +/-10%						1~/50 /220-240	
Current - 50Hz	Maximum fuse amps (MFA)	A	16							
Control systems	Infrared remote control		BRC4C65							
	Wired remote control		BRC1H52W/S/K/BRC1E53A/BRC1E53B/BRC1E53C/BRC1D52							

Contains fluorinated greenhouse gases



# Wall mounted unit

For rooms with no false ceilings nor free floor space

- › Flat, stylish front panel blends easily within any interior décor and is easier to clean
- › Can easily be installed in both new and refurbishment projects
- › The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- › Maintenance operations can be performed easily from the front of the unit



More details and final information can be found by scanning or clicking the QR codes.



FXAQ-A

Indoor Unit		FXAQ	15A	20A	25A	32A	40A	50A	63A	
Cooling capacity	Total capacity	kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	
	At high fan speed									
Heating capacity	Total capacity	kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	
	At high fan speed									
Power input - 50Hz	Cooling	kW	0.02		0.03		0.02	0.03	0.05	
	At high fan speed									
Dimensions	Unit	mm	290x795x266				290x1,050x269			
	HeightxWidthxDPTH									
Weight	Unit	kg	12				15			
Fan	Air flow rate - 50Hz	m <sup>3</sup> /min	8.4/7.0	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	14.4/11.5	18.3/13.5	
	Cooling	At high fan speed/ At low fan speed								
Air filter	Type		Washable resin net							
Sound power level	Cooling	dBA	51.0	52.0	53.0	55.0		58.0	63.0	
	At high fan speed									
Sound pressure level	Cooling	dBA	32.0/28.5	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5	
	At high fan speed/ At low fan speed									
	Heating	dBA	33.0/28.5	34.0/28.5	36.0/28.5	38.5/28.5	38.0/33.5	42.0/35.5	47.0/38.5	
	At high fan speed/ At low fan speed									
Refrigerant	Type/GWP		R-410A/2,087.5							
Piping connections	Liquid	mm	6.35						9.52	
	Gas	mm	12.7						15.9	
	Drain		VP13 (I.D. 15/O.D. 18)							
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50 /220-240							
Current - 50Hz	Maximum fuse amps (MFA)	A	16							
Control systems	Infrared remote control		BRC7EA628 / BRC7EA629							
	Wired remote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

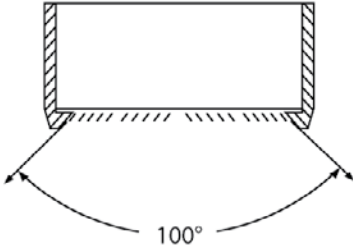
Contains fluorinated greenhouse gases



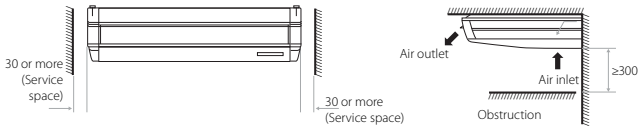
# Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- › Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle



- › Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- › Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- Fresh air intake opening in casing



\* Brings in up to 10% of fresh air into the room

- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible



More details and final information can be found by scanning or clicking the QR codes.



FXHQ-A

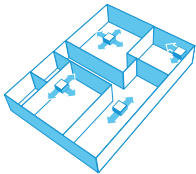
Indoor Unit		FXHQ		32A	63A	100A	
Cooling capacity	Total capacity	At high fan speed	kW	3.6	7.1	11.2	
	Unit	At high fan speed	kW	4.0	8.0	12.5	
Heating capacity	Total capacity	At high fan speed	kW	0.107	0.111	0.237	
	Unit	At high fan speed	kW	0.107	0.111	0.237	
Power input - 50Hz	Cooling	At high fan speed	kW	235x960x690	235x1,270x690	235x1,590x690	
	Heating	At high fan speed	kW	24	33	39	
Dimensions	Unit	HeightxWidthxDepth	mm		Resin		
Weight	Unit		kg				
Casing	Material						
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	14.0/12.0/10.0	20.0/17.0/14.0	29.5/24.0/19.0
Air filter	Type			Resin net with mold resistance			
Sound power level	Cooling	At high/medium/low fan speed	dB(A)	54/52/49	55/53/52	62/55/52	
		At high/medium/low fan speed	dB(A)	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0	
Sound pressure level	Heating	At high/medium/low fan speed	dB(A)	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0	
		At high/medium/low fan speed	dB(A)	36.0/34.0/31.0	37.0/35.0/34.0	44.0/37.0/34.0	
Refrigerant	Type/GWP			R-410A/2,087.5			
Piping connections	Liquid	OD	mm	6.4		9.5	
	Gas	OD	mm	12.7		15.9	
	Drain				VP20 (I.D. 20/O.D. 26)		
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220			
Current - 50Hz	Maximum fuse amps (MFA)		A	16			
Control systems	Infrared remote control			BRC7C58			
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52			

Contains fluorinated greenhouse gases

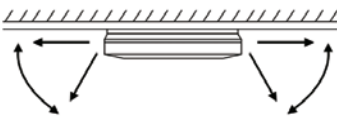
# 4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

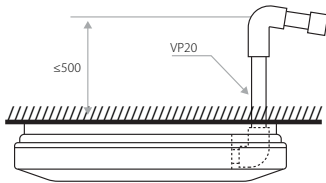
- › Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- › Optimum comfort guaranteed with automatic air flow adjustment to the required load
- › 5 different discharge angles between 0 and 60° can be programmed via the remote control



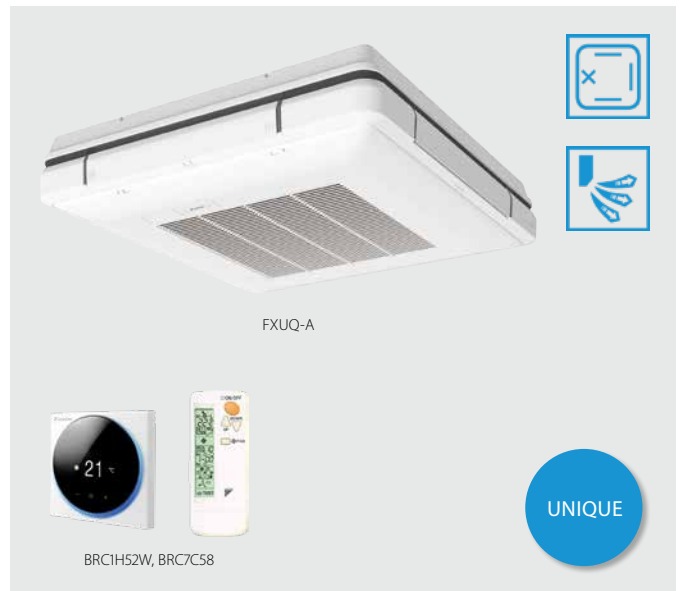
- › Standard drain pump with 720mm lift increases flexibility and installation speed



More details and final information can be found by scanning or clicking the QR codes.



FXUQ-A



Indoor Unit		FXUQ		71A	100A
Cooling capacity	Total capacity	At high fan speed	kW	8.0	11.2
	At high fan speed				
Heating capacity	Total capacity	At high fan speed	kW	9.0	12.5
	At high fan speed				
Power input - 50Hz	Cooling	At high fan speed	kW	0.090	0.200
	Heating	At high fan speed	kW	0.073	0.179
Dimensions	Unit	HeightxWidthxDepth	mm	198x950x950	
Weight	Unit		kg	26	27
Casing	Material			Resin	
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	22.5/19.5/16.0
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	22.5/19.5/16.0
Air filter	Type			Resin net with mold resistance	
Sound power level	Cooling	At high/medium/low fan speed	dBA	58/56/54	65/62/58
		At high/medium/low fan speed	dBA	40.0/38.0/36.0	47.0/44.0/40.0
Sound pressure level	Heating	At high/medium/low fan speed	dBA	40.0/38.0/36.0	47.0/44.0/40.0
		At high/medium/low fan speed	dBA	40.0/38.0/36.0	47.0/44.0/40.0
Refrigerant	Type/GWP			R-410A/2,087.5	
Piping connections	Liquid	OD	mm	9.5	
	Gas	OD	mm	15.9	
	Drain			I.D. 20/O.D. 26	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220-230	
Current - 50Hz	Maximum fuse amps (MFA)		A	16	
Control systems	Infrared remote control			BRC7C58	
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	

Contains fluorinated greenhouse gases

# Concealed floor standing unit

Designed to be concealed in walls

- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Requires very little installation space as the depth is only 200mm



- › Its low height (620 mm) enables the unit to fit perfectly beneath a window
- › High ESP allows flexible installation

More details and final information can be found by scanning or clicking the QR codes.



FXNQ-A

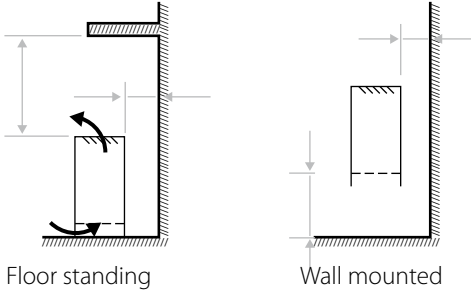
Indoor Unit				FXNQ	20A	25A	32A	40A	50A	63A
Cooling capacity	Total capacity	At high fan speed	kW	2.20	2.80	3.60	4.50	5.60	7.10	
		At high fan speed	kW	2.50	3.20	4.00	5.00	6.30	8.00	
Power input - 50Hz	Cooling	At high fan speed	kW	0.071			0.078	0.099	0.110	
		At high fan speed	kW	0.068			0.075	0.096	0.107	
Dimensions	Unit	HeightxWidthxDepth	mm	620/720x790x200			620/720x990x200		620/720x1,190x200	
		Unit	kg	23.5			27.5		32.0	
Casing	Material		Galvanised steel plate							
Fan	Air flow rate - 50Hz	Cooling	At high/medium/low fan speed	m <sup>3</sup> /min	8.0/7.20/6.4		10.5/9.50/8.5	12.5/11.0/10.0	16.5/14.5/13.0	
		Heating	At high/medium/low fan speed	m <sup>3</sup> /min	8.0/7.2/6.4		10.5/9.5/8.5	12.5/11.0/10.0	16.5/14.5/13.0	
	External static pressure - 50Hz	Factory set / High	Pa	10/41.0	10/42.0	15/52.0	15/59.0	15/55.0		
Air filter	Type		Resin net							
Sound power level	Cooling	At high fan speed	dBA	51			52	53	54	
		At high/medium/low fan speed	dBA	30.0/28.5/27.0			32.0/30.0/28.0	33.0/31.0/29.0	35.0/33.0/32.0	
Sound pressure level	Heating	At high/medium/low fan speed	dBA	30.0/28.5/27.0			32.0/30.0/28.0	33.0/31.0/29.0	35.0/33.0/32.0	
		Type/GWP	R-410A/2,087.5							
Piping connections	Liquid	OD	mm	6.35			9.52			
	Gas	OD	mm	12.7			15.9			
	Drain	VP20 (I.D. 20/O.D. 26)								
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220						
Current - 50Hz	Maximum fuse amps (MFA)		A	16						
Control systems	Infrared remote control		BRC4C65							
	Wired remote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

Contains fluorinated greenhouse gases

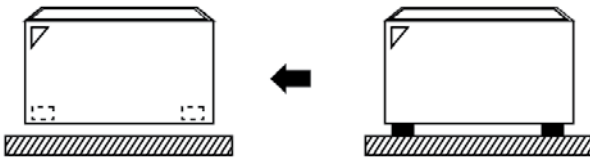
# Floor standing unit

## For perimeter zone air conditioning

- › Unit can be installed as free standing model by use of optional back plate
- › Its low height enables the unit to fit perfectly beneath a window
- › Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7012) blends easily with any interior
- › Requires very little installation space



- › Wall mounted installation facilitates cleaning beneath the unit where dust tends to accumulate



- › Wired remote control can easily be integrated in the unit

More details and final information can be found by scanning or clicking the QR codes.



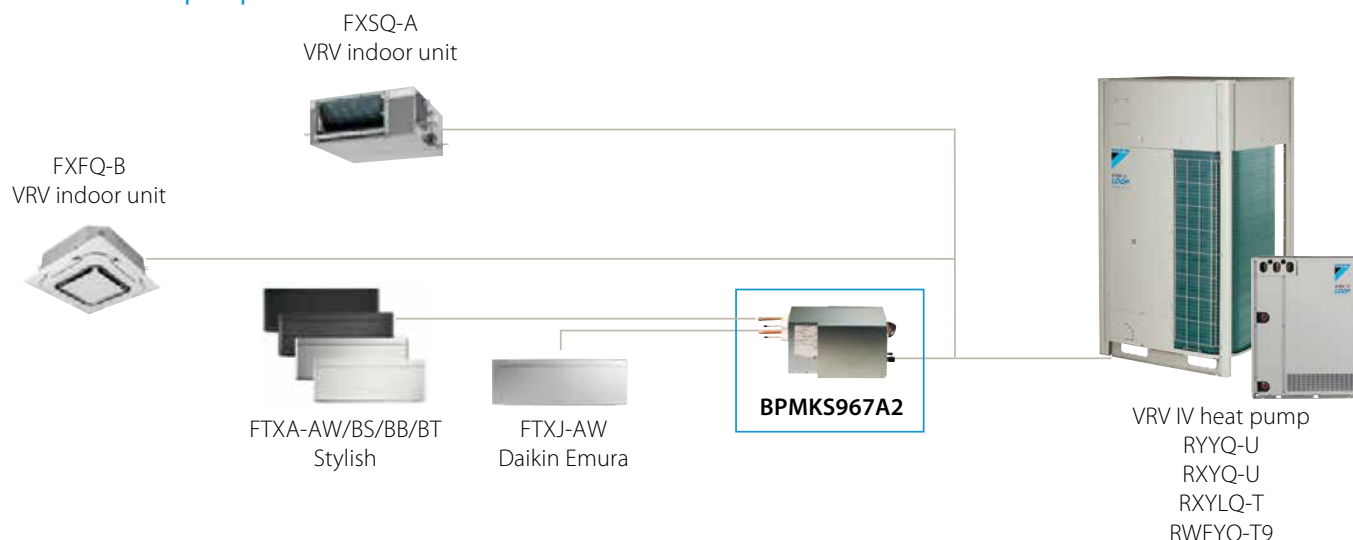
Indoor Unit			FXLQ	20P	25P	32P	40P	50P	63P	
Cooling capacity	Total capacity	At high fan speed	kW	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating capacity	At high fan speed	kW	2.5	3.2	4.0	5.0	6.3	8.0	
Power input - 50Hz	Cooling	At high fan speed	kW	0.05		0.09		0.11		
	Heating	At high fan speed	kW	0.05		0.09		0.11		
Dimensions	Unit	HeightxWidthxDepth	mm	600x1,000x232		600x1,140x232		600x1,420x232		
Weight	Unit		kg	27		32		38		
Fan	Air flow rate - 50Hz	Cooling	At high fan speed/ m <sup>3</sup> /min	7/6.0		8/6.0	11/8.5	14/11.0	16/12.0	
		At low fan speed								
Air filter	Type		Resin net							
Sound power level	Cooling	At high fan speed	dBA	54			57	58	59	
		At high fan speed/ At low fan speed	dBA	35/32			38/33	39/34	40/35	
Sound pressure level	Heating	At high fan speed/ At low fan speed	dBA	35/32			38/33	39/34	40/35	
Refrigerant	Type/GWP		R-410A/2,087.5							
Piping connections	Liquid	OD	mm	6.35						
	Gas	OD	mm	12.7						15.9
	Drain			O.D. 21 (Vinyl chloride)						
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220						
Current - 50Hz	Maximum fuse amps (MFA)		A	15						
Control systems	Infrared remote control			BRC4C65						
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						

Contains fluorinated greenhouse gases

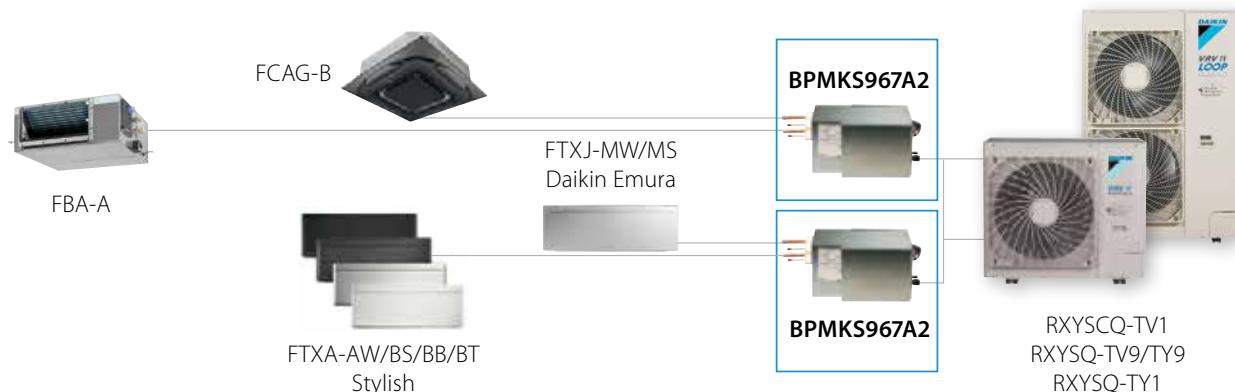
# VRV heatpump combined with stylish indoor units

Combine VRV indoor units with stylish indoor units

on a VRV IV heat pump



Connect only stylish indoor units to VRV IV S-series or VRV IV W-series outdoor units



\* Special order unit, contact your local sales representative for more information

## BPMKS967A

### Branch provider

To connect Split and Sky Air indoor units to VRV outdoor units



Branch provider		BPMKS967A2	FBPMKS967A2
Connectable indoor units		1~2	1~3
Max. indoor unit connectable capacity			
Max. connectable combination			
Dimensions	Height x Width x Depth mm	180x294x350	
Weight	kg		





# Wall mounted unit

## Design that speaks for itself

- › Remarkable blend of iconic design and engineering excellence with an elegant finish in matt crystal white, silver and black
- › The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- › The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc.
- › Onecta app: control your indoor from any location with an app, via your local network or internet
- › Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!



More details and final information can be found by scanning or clicking the QR codes.



FTXJ-AW



FTXJ-AS



FTXJ-AB



RXJ-A



Indoor unit			FTXJ	20AW/S/B	25AW/S/B	35AW/S/B	42AW/S/B	50AW/S/B	
Dimensions	Unit	HeightxWidthxDepth	mm	305x900x212					
Weight	Unit		kg	12					
Air filter	Type			Removable / washable					
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m <sup>3</sup> /min	4.6/6.0/8.4/11.0	4.6/6.0/8.6/11.4	4.6/6.0/8.6/11.8	4.6/7.2/9.5/13	5.2/7.6/10.4/13.5
		Heating	Silent operation/ Low/Medium/High	m <sup>3</sup> /min	4.6/6.4/8.7/11.1	4.6/6.4/9.0/11.3	4.6/6.4/9.0/11.7	5.2/7.7/10.5/14.4	5.7/8.2/11.1/15.0
Sound power level	Cooling		dBA	57	57	60	60	60	
	Heating		dBA	-	-	-	-	-	
Sound pressure level	Cooling	Silent operation/Low/High	dBA	19/25/39	19/25/40	19/25/41	21/29/45	24/31/46	
	Heating	Silent operation/Low/High	dBA	19/25/39	19/25/40	19/25/41	21/29/45	24/33/46	
Control systems	Infrared remote control			ARC488A1W/S/K					

\* +2 dBA in Multi combination

# Wall mounted unit

## Most compact design wall mounted unit

- > A compact and functional design suitable for all interiors in a white, black, silver and blackwood coloured elegant finish
- > The Coanda effect optimises the airflow for a comfortable climate. By using specially designed flaps, a more focused airflow allows a better temperature distribution throughout the whole room
- > The intelligent thermal sensor determines the current room temperature and distributes air evenly throughout the room before switching to an airflow pattern that directs warm or cool air to areas that need it
- > Onecta app: control your indoor from any location with an app, via your local network or internet
- > Powerful air purification increases indoor air quality with Daikin Flash Streamer technology
- > Practically inaudible: the unit runs so quietly, you will almost forget it is there.

STANDARD INCLUDED



GOOD DESIGN



DESIGN AWARD 2018



reddot award 2018 winner

More details and final information can be found by scanning or clicking the QR codes.



FTXA-AW



FTXA-BS



FTXA-BT



FTXA-BB



Indoor unit		FTXA		CTXA15 AW/BS/BT/BB		20AW/BS/BT/BB	25AW/BS/BT/BB	35AW/BS/BT/BB	42AW/BS/BT/BB	50AW/BS/BT/BB
Dimensions	Unit	HeightxWidthxDepth	mm		295x798x189					
Weight	Unit	kg		12						
Air filter	Type	Removable / washable								
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/ High	m <sup>3</sup> /min	4.6 / 6.1 / 8.2 / 11.0	4.6/6.1/8 /11.0	4.6/6.1/9 /11.5	4.6/6.1/9 /11.9	4.6/7.2/10 /13.1	5.2/7.6/10 /13.5
		Heating	Silent operation/ Low/Medium/ High	m <sup>3</sup> /min	4.5/6.4/8.7 /10.9		4.5/6.4/9.0 /11.1	4.5/6.4/9.0 /11.5	5.2/7.7/10.5 /14.6	5.7/8.2/11.1 /15.1
Sound power level	Cooling	dBA		57						
Sound pressure level	Cooling	Silent operation/Low/High	dBA		19/25/39		19/25/40	19/25/41	21/29/45	24/31/46
	Heating	Silent operation/Low/High	dBA		19/25/39		19/25/40	19/25/41	21/29/45	24/31/46 24/33/46
Control systems	Infrared remote control		ARC466A58							
	Wired remote control		BRC073							

# Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Silver allergen removal and air purifying filter captures allergens such as pollen to ensure a steady supply of clean air
- › Voice command via Amazon Alexa or Google Assistant to control main functions such as set point, operation mode, fan speed, etc
- › Onecta app: control your indoor from any location with an app, via your local network or internet.
- › Quiet operation: down to 19dBA sound pressure level
- › 3-D air flow combines vertical and horizontal auto swing to circulate a stream of warm or cool air right to the corners of even large spaces
- › 2-area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting. (larger capacity area)



More details and final information can be found by scanning or clicking the QR codes.



CTXM-R



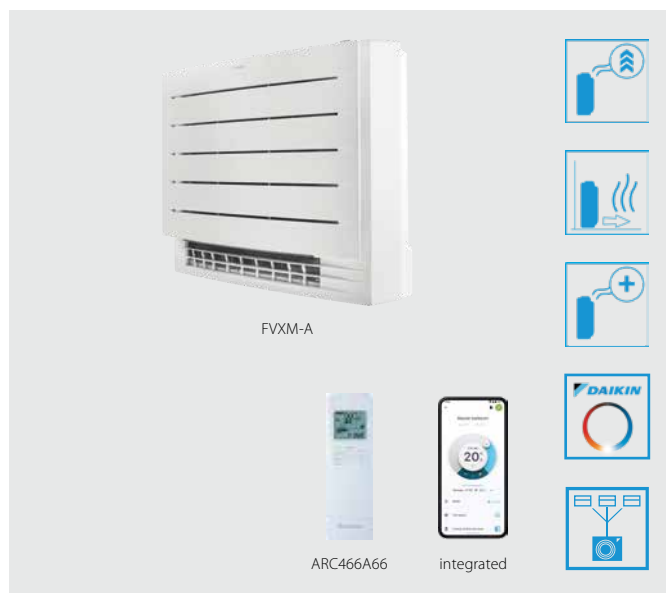
FTXM-R

Indoor unit		FTXM	CTXM15R	20R	25R	35R	42R	50R	60R	71R								
Dimensions	Unit	HeightxWidthxDepth			mm				295x778x272		299x998x292							
Weight	Unit	kg			10.0				14.5									
Air filter	Type	Removable/washable																
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m <sup>3</sup> /min	4.3/5.7/7.5/10.5	4.1/5.7/7.6/10.5	4.2/6.0/7.8/11.3	4.3/6.5/9.0/11.9	8.3/11.4/14/15.8	9.1/11.8/14/16.7	10.0/12.2/15/16.9							
		Heating	Silent operation/ Low/Medium/High	m <sup>3</sup> /min	5.1/6.2/8.2/9.3	4.9/6.3/8.0/9.8	4.9/6.5/8.5/9.8	4.9/6.5/9.7/12.4	10.5/12.0/14.2/15.8	11.1/12.4/15.2/16.5	11.6/12.7/15.8/17.7							
Sound power level	Cooling	dBA			57		58		60		58.0		60.0					
	Heating	dBA			54		60		58.0		59.0		61.0					
Sound pressure level	Cooling	Silent operation/Low/High	dBA			19/25/41		19/29/45		21/30/45		27.0/36.0/44.0		30.0/37.0/46.0		32.0/38.0/47.0		
	Heating	Silent operation/Low/High	dBA			20/26/39		20/27/39		20/28/39		21/29/45		31.0/34.0/43.0		33.0/36.0/45.0		34.0/37.0/46.0
Control systems	Infrared remote control			ARC466A67														

# Floor standing unit

Design floor standing unit for optimal heating comfort thanks to unique heating features

- › Seasonal efficiency values up to A++ in heating, resulting in low running costs compared to gas boilers and electric heating
- › Excellent contemporary design
- › Heat boost quickly heats up your home when starting up your air conditioner. Set temperature is reached 14% faster than a regular air conditioner (pair only)
- › The floor warming function optimises convection by distributing hot air from the bottom of the unit
- › The heat plus function provides 30 minutes cosy heating by simulating radiant heat
- › Dual air discharge flow for better air distribution
- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Onecta app: control your indoor from any location with an app, via your local network or internet.



- › Quiet operation: down to 19dBA sound pressure level
- › Combinable with 2 and 3 port multi outdoor units (except 2-3MXM68)

More details and final information can be found by scanning or clicking the QR codes.



CVXM-A



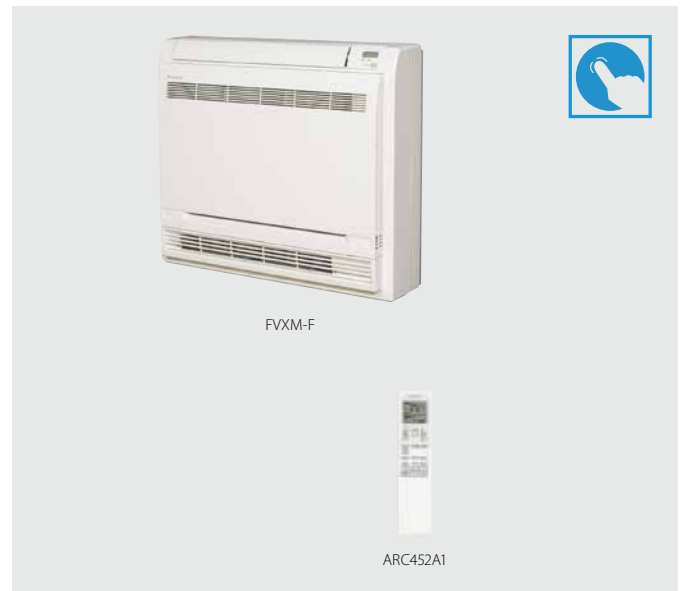
FVXM-A

Indoor unit		FVXM	CVXM20A	25A	35A	50A	
Dimensions	Unit	HeightxWidthxDepth	mm	600x750x238			
Weight	Unit		kg	17			
Air filter	Type			Removable / washable			
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	4.1/4.9/7/8.7		4.1/4.9/7/9.2	5.4/6.6/9/11.6
		Heating	Silent operation/ Low/Medium/High	4.1/5.6/7.2/9.2		4.1/5.6/7.2/9.8	5.9/8.4/10.0/12.8
Sound power level	Cooling		dBA	52.0		53.0	61.0
	Heating		dBA	52.0		53.0	62.0
Sound pressure level	Cooling	Silent operation/Low/High	dBA	22.0/25.0/38.0	20.0/25.0/38.0	20.0/25.0/39.0	27.0/31.0/44.0
	Heating	Silent operation/Low/High	dBA	21.0/25.0/38.0	19.0/25.0/38.0	19.0/25.0/39.0	29.0/35.0/46.0
Control systems	Infrared remote control			ARC466A66			

## Floor standing unit

Floor standing unit for optimal heating comfort thanks to dual airflow

- › Its low height enables the unit to fit perfectly beneath a window
- › Can be installed against a wall or recessed
- › Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- › Onecta app (optional): control your indoor from any location with an app, via your local network or internet



More details and final information can be found by scanning or clicking the QR codes.



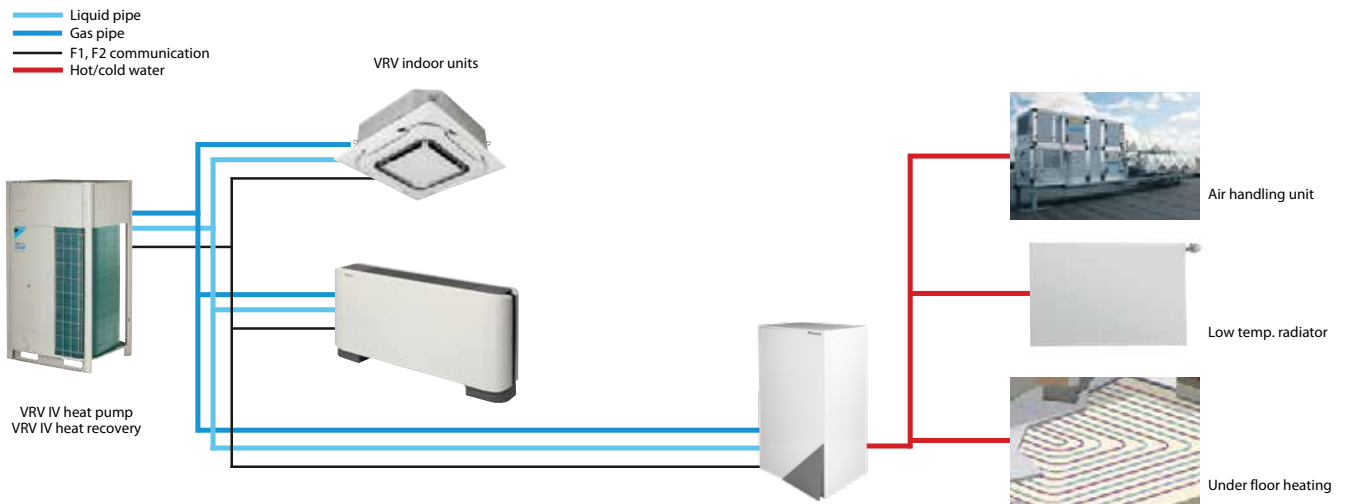
Indoor unit		FVXM		25F	35F	50F	
Dimensions	Unit	HeightxWidthxDepth		600x700x210			
Weight	Unit			14			
Air filter	Type			Removable / washable			
Fan	Air flow rate	Cooling	Silent operation/ Low/Medium/High	m <sup>3</sup> /min	4.1/4.8/6.5 /8.2	4.5/4.9/6.7 /8.5	6.6/7.8/8.9 /10.1
		Heating	Silent operation/ Low/Medium/High	m <sup>3</sup> /min	4.4/5.0/6.9 /8.8	4.7/5.2/7.3 /9.4	7.1/8.5/10.1 /11.8
Sound power level	Cooling			dBA	52		
	Heating			dBA	52		
Sound pressure level	Cooling	Silent operation/Low/High		dBA	23/26/38	24/27/39	32/36/44
	Heating	Silent operation/Low/High		dBA	23/26/38	24/27/39	32/36/45
Control systems	Infrared remote control				ARC452A1		
	Wired remote control				-		
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-230-240			



# Low temperature hydrobox for VRV

For high efficiency space heating and cooling

- › Air to water connection to VRV for applications such as underfloor, air handling units, low temperature radiators, ...
- › Leaving water temperature range from 5°C to 45°C without electric heater
- › Super wide operating range for hot/cold water production from -20 to +43°C ambient outdoor temperature
- › Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- › Space saving contemporary wall mounted design
- › No gas connection or oil tank needed
- › Connectable to VRV IV heat pump and heat recovery



More details and final information can be found by scanning or clicking the QR codes.



HXY-A8

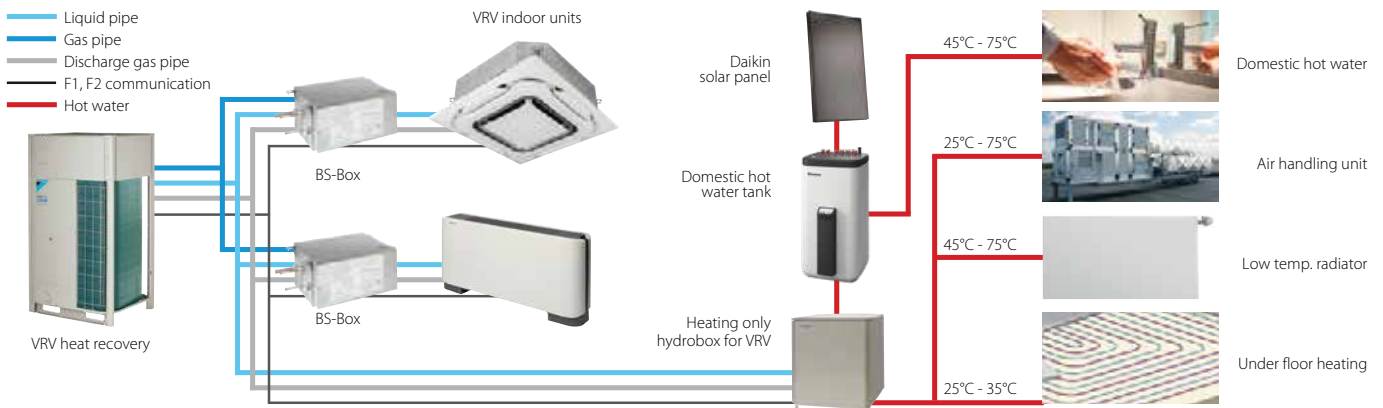
Indoor Unit		HXY		080A8		125A8	
Cooling capacity	Nom.	kW		8.0 (1)		12.5 (1)	
Heating capacity	Nom.	kW		9.00 (2)		14.00 (2)	
Casing	Colour	White					
	Material	Precoated sheet metal					
Dimensions	Unit	HeightxWidthxDepth	mm				
			890 x480 x344				
Weight	Unit	kg					
		44.0					
Operation range	Heating	Ambient	Min.~Max.	°C			
		Water side	Min.~Max.	°C			
	Cooling	Ambient	Min.~Max.	°CDB			
		Water side	Min.~Max.	°C			
Refrigerant	Type	R-410A					
	GWP	2,087.5					
Sound pressure level	Nom.	dBA		31			
Refrigerant circuit	Gas side diameter		mm		15.9		
	Liquid side diameter		mm		9.5		
Water circuit	Piping connections diameter		inch		G 1"1/4 (female)		
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240		
Current	Recommended fuses		A		6~16		

(1) Tamb 35°C - LWE 18°C (DT=5°C) | (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) | Contains fluorinated greenhouse gases

# High temperature hydrobox for VRV

For efficient hot water production and space heating

- › Air to water connection to VRV for applications such as bathrooms, sinks, underfloor heating, radiators and air handling units
- › Leaving water temperature range from 25 to 80°C without electric heater
- › „Free“ heating and hot water production provided by transferring heat from areas requiring cooling to areas requiring heating or hot water
- › Uses heat pump technology to produce hot water efficiently, providing up to 17% savings compared to a gas boiler
- › Possibility to connect thermal solar collectors to the domestic hot water tank
- › Super wide operating range for hot water production from -20 to +43°C ambient outdoor temperature
- › Saves time on system design as all water-side components are fully integrated with direct control over leaving water temperature
- › Various control possibilities with weather dependant set point or thermostat control
- › The indoor unit and domestic hot water tank can be stacked to save space, or installed next to each other, if only limited height is available
- › No gas connection or oil tank needed
- › Connectable to VRV IV heat recovery



More details and final information can be found by scanning or clicking the QR codes.



HXHD-A8

Indoor Unit		HXHD		125A8		200A8		
Heating capacity	Nom.	kW		14.0		22.4		
Casing	Colour	Metallic grey						
	Material	Precoated sheet metal						
Dimensions	Unit	HeightxWidthxDepth	mm		705x600x695			
Weight	Unit	kg		92.0		147		
Operation range	Heating	Ambient	Min.~Max.	°C		-20.0 ~20 (3) / 20		
		Water side	Min.~Max.	°C		25 ~80.0		
	Domestic hot water	Ambient	Min.~Max.	°CDB		-20.0 ~43.0		
		Water side	Min.~Max.	°C		45 ~75		
Refrigerant	Type / GWP	R-134a / 1,430						
	Charge	kg		2.00		2.60		
Sound power level	Nom.	dBA		55.0 (1)		60.0 (1)		
Sound pressure level	Nom.	dBA		42.0 (1) / 43.0 (2)		46.0 (1) / 46.0 (2)		
	Night quiet Level 1 mode	dBA		38 (1)		45 (1)		
Water circuit	Piping connections diameter		inch		G 1" (female)			
	Heating water system	Water volume Max. ~ Min.	l		200 ~ 20		400 ~ 20	
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240		3~ / 50 / 380-415	
Current	Recommended fuses		A		20		16	

(1)Sound levels are measured at: EW 55°C; LW 65°C | (2)Sound levels are measured at: EW 70°C; LW 80°C | (3)Field setting | Contains fluorinated greenhouse gases

EKHWP-B

# Domestic hot water tank

Plastic domestic hot water tank with solar support

- › Tank designed for connection with drainback thermal solar system
- › Available in 300 and 500 liters
- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible (500l tank only)



EKHWP-B



Accessory		EKHWP	300B	500B			
Casing	Colour		Traffic white (RAL9016) / Dark grey (RAL7011)				
	Material		Impact resistant polypropylene				
Dimensions	Unit	Height	mm	1,650	1,660		
		Width	mm	595	790		
		Depth	mm	615	790		
Weight	Unit	Empty	kg	58	82		
		Water volume	l	294	477		
Tank	Material		Polypropylen				
	Maximum water temperature	°C	85				
	Insulation Heat loss	kWh/24h	1.5	1.7			
	Energy efficiency class		B				
	Standing heat loss	W	64	72			
	Storage volume	l	294	477			
	Heat exchanger	Domestic hot water	Quantity		1		
			Tube material		Stainless steel (DIN 1.4404)		
			Face area	m <sup>2</sup>	5.600	5.800	
			Internal coil volume	l	271	28.1	
Operating pressure			bar		6		
Average specific thermal output			W/K	2,790	2,825		
Charging	Charging	Quantity		1			
		Tube material		Stainless steel (DIN 1.4404)			
		Face area	m <sup>2</sup>	3	4		
		Internal coil volume	l	13	18		
		Operating pressure	bar		3		
		Average specific thermal output	W/K	1,300	1,800		
Auxiliary solar heating	Auxiliary solar heating	Tube material		Stainless steel (DIN 1.4404)			
		Face area	m <sup>2</sup>	-	1		
		Internal coil volume	l	-	4		
		Operating pressure	bar	-	3		
Average specific thermal output	W/K	-	280				

Contains fluorinated greenhouse gases

EKHWP-PB

# Domestic hot water tank

Pressureless domestic hot water tank with solar support

- › Tank designed for connection with pressurised thermal solar system
- › Available in 300 and 500 liters
- › Large hot water storage tank to provide domestic hot water at any time
- › Heat loss is reduced to a minimum thanks to the high quality insulation
- › Space heating support possible (500l tank only)



EKHWP-PB



Accessory		EKHWP	300PB	500PB			
Casing	Colour		Traffic white (RAL9016) / Dark grey (RAL7011)				
	Material		Impact resistant polypropylene				
Dimensions	Unit	Height	mm	1,650	1,660		
		Width	mm	595	790		
		Depth	mm	615	790		
Weight	Unit	Empty	kg	58	89		
		Water volume	l	294	477		
Tank	Material		Polypropylen				
	Maximum water temperature	°C	85				
	Insulation Heat loss	kWh/24h	1.5	1.7			
	Energy efficiency class		B				
	Standing heat loss	W	64	72			
	Storage volume	l	294	477			
	Heat exchanger	Domestic hot water	Quantity		1		
			Tube material		Stainless steel (DIN 1.4404)		
			Face area	m <sup>2</sup>	5.600	5.900	
			Internal coil volume	l	271	28.1	
Operating pressure			bar		6		
Average specific thermal output			W/K	2,790	2,825		
Charging	Charging	Quantity		1			
		Tube material		Stainless steel (DIN 1.4404)			
		Face area	m <sup>2</sup>	3	4		
		Internal coil volume	l	13	18		
		Operating pressure	bar		3		
		Average specific thermal output	W/K	1,300	1,800		
Pressurised solar heating	Pressurised solar heating	Average specific thermal output	W/K	390.00	840.00		
		Tube material		Stainless steel (DIN 1.4404)			
Auxiliary solar heating	Auxiliary solar heating	Face area	m <sup>2</sup>	-	1		
		Internal coil volume	l	-	4		
		Operating pressure	bar	-	3		
		Average specific thermal output	W/K	-	280		

Contains fluorinated greenhouse gases

EKS(V/H)-P

# Solar collector

Thermal solar collector for hot water production

- › Solar collectors can produce up to 70% of the energy needed for hot water production - a major cost saving
- › Horizontal and vertical solar collector for domestic hot water production
- › High efficiency collectors transfer all the short-wave solar radiation into heat as a result of their highly selective coating
- › Easy to install on roof tiles

More details and final information can be found by scanning or clicking the QR codes.



EKS(V)-P



EKS(H)-P



Accessory		EKS(V)/EKS(H)		21P		26P	
Mounting				Vertical		Horizontal	
Dimensions	Unit	HeightxWidthxDensity	mm	1,006x85x2,000		2,000x85x1,300	
Weight	Unit		kg	33		42	
Volume			l	1.3	1.7		2.1
Surface	Outer		m <sup>2</sup>	2.01		2.60	
	Aperture		m <sup>2</sup>	1.800		2.360	
	Absorber		m <sup>2</sup>	1.79		2.35	
Coating				Micro-therm (absorption max. 96%, Emission ca. 5% +/-2%)			
Absorber				Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate			
Glazing				Single pane safety glass, transmission +/- 92%			
Allowed roof angle	Min.~Max.		°	15~80			
Operating pressure	Max.		bar	6			
Stand still temperature	Max.		°C	192			
Thermal performance	collector efficiency (η <sub>col</sub> )		%	61			
	Zero loss collector efficiency η <sub>0</sub>		%	0.781		0.784	
	Heat loss coefficient a <sub>1</sub>		W/m <sup>2</sup> .K	4.240		4.250	
	Temperature dependence of the heat loss coefficient a <sub>2</sub>		W/m <sup>2</sup> .K <sup>2</sup>	0.006		0.007	
	Thermal capacity		kJ/K	4.9		6.5	
Auxiliary	Solpump		W	-			
	Solstandby		W	-			
	Annual auxiliary electricity consumption Q <sub>aux</sub>		kWh	-			

Contains fluorinated greenhouse gases

EKSRDS2A/EKSRPS4A

# Pump station

- › Save energy and reduce CO<sub>2</sub> emissions with a solar system for domestic hot water production
- › Pump station connectable to unpressurised solar system
- › Pump station and control provide the transfer of solar heat to the domestic hot water tank

More details and final information can be found by scanning or clicking the QR codes.



EKSRDS2A



EKSRPS4A



Accessory		EKSRPS4A/EKSRDS2A		EKSRPS4A		EKSRDS2A	
Mounting				On side of tank		On wall	
Dimensions	Unit	HeightxWidthxDensity	mm	815x142x230		410x314x154	
Weight	Unit		kg	6.4		6	
Operation range	Ambient temperature	Min.~Max.	°C	5~40		0~40	
Operating pressure	Max.		bar	-		6	
Stand still temperature	Max.		°C	85		120	
Thermal performance	collector efficiency (η <sub>col</sub> )		%	-		-	
	Zero loss collector efficiency η <sub>0</sub>		%	-		-	
Control	Type			Digital temperature difference controller with plain text display			
	Power consumption		W	2		5	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230		/50/230	
Sensor	Solar panel temperature sensor			Pt1000			
	Storage tank sensor			PTC		-	
	Return flow sensor			PTC		-	
	Feed temperature and flow sensor			Voltage signal (3.5V DC)			
Power supply intake				Indoor unit			
Auxiliary	Solpump		W	37.3		23	
	Solstandby		W	2.00		5.00	
	Annual auxiliary electricity consumption Q <sub>aux</sub>		kWh	92.1		89	

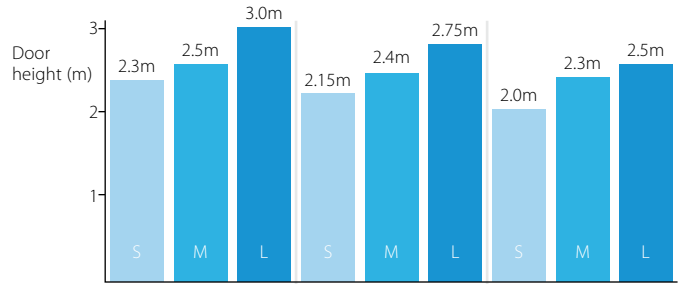
Contains fluorinated greenhouse gases



# Biddle air curtains

Biddle air curtains provide highly efficient solutions for retailers and consultants to combat the issue of climate separation across their outlet or office doorway.

## Biddle air curtain portfolio



Installation condition

### Favourable

ex: covered shopping mall or revolving door entrance

### Normal

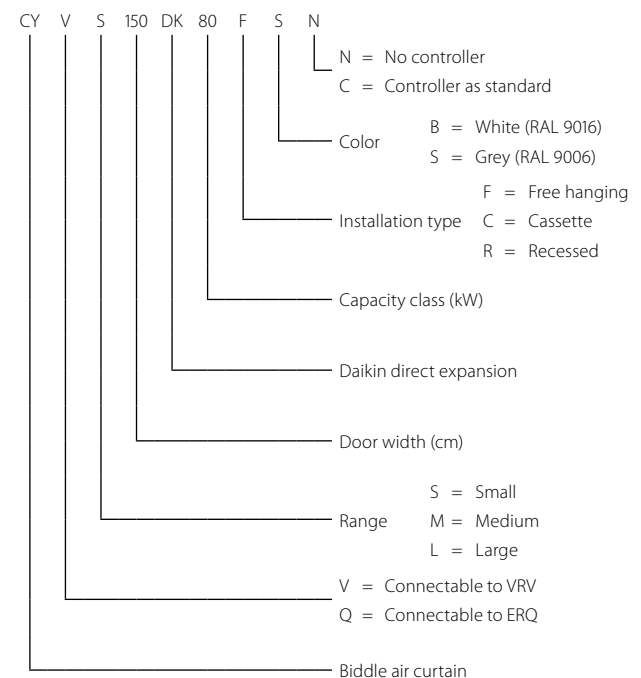
ex: little direct wind, no opposite open doors, building with ground floor only

### Unfavourable

ex: location at a corner or square, multiple floors and/or open stairwell

Type	Product name	Features	
Biddle standard air curtain free hanging	CYV S/M/L-DK-F	<ul style="list-style-type: none"> <li>- CYQ - Biddle air curtain for connection to ERQ</li> <li>- Connectable to ERQ heat pump</li> <li>- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible</li> </ul>	
Biddle standard air curtain cassette	CYV S/M/L-DK-C	<ul style="list-style-type: none"> <li>- Free-hanging model (F): easy wall mounted installation</li> <li>- Recessed model (R): neatly concealed in the ceiling</li> <li>- A payback period of less than 1.5 years compared to installing an electric air curtain</li> </ul>	
Biddle standard air curtain recessed	CYV S/M/L-DK-R	<ul style="list-style-type: none"> <li>- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required</li> </ul>	

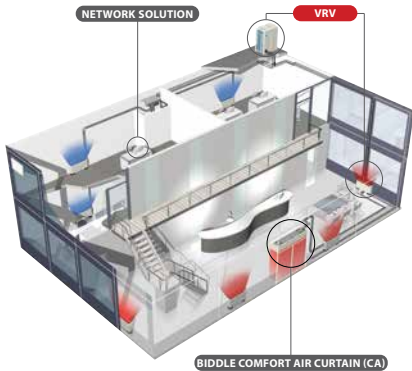
## Biddle air curtain nomenclature





# Biddle air curtain for VRV and Conveni-pack

- › Connectable to VRV heat recovery, heat pump and Conveni-pack
- › VRV is among the first DX systems suitable for connection to air curtains
- › Free-hanging model (F): easy wall mounted installation
- › Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- › Recessed model (R): neatly concealed in the ceiling
- › A payback period of less than 1.5 years compared to installing an electric air curtain
- › Provides virtually free air curtain heating via recovered heat from indoor units in cooling mode (in case of VRV heat recovery)
- › Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- › **PATENTED TECHNOLOGY:** Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- › Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity



More details and final information can be found by scanning or clicking the QR codes.



				Small				Medium			
				CYVS100DK80 *BC/*SC	CYVS150DK80 *BC/*SC	CYVS200DK100 *BC/*SC	CYVS250DK140 *BC/*SC	CYVM100DK80 *BC/*SC	CYVM150DK80 *BC/*SC	CYVM200DK100 *BC/*SC	CYVM250DK140 *BC/*SC
Heating capacity	Speed 3		kW	7.40	9.0	11.6	16.2	9.2	11.0	13.4	19.9
Power input	Fan only	Nom.	kW	0.23	0.35	0.46	0.58	0.37	0.56	0.75	0.94
	Heating	Nom.	kW	0.23	0.35	0.46	0.58	0.37	0.56	0.75	0.94
Delta T	Speed 3		K	19	15		16	17	14	13	15
Casing	Colour			BN: RAL9010 / SN: RAL9006							
Dimensions	Unit	Height F/C/R	mm	270/270/270							
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	590/821/561							
Required ceiling void >			mm	420							
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5
Weight	Unit		kg	56	66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	m <sup>3</sup> /h	1,164	1,746	2,328	2,910	1,605	2,408	3,210	4,013
Sound pressure level	Heating	Speed 3	dBA	47	49	50	51	50	51	53	54
Refrigerant	Type / GWP			R-410A / 2,087.5							
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0				9.52/19.0	9.52/16.0		9.52/19.0
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52)							
Power supply	Voltage		V	230							

				Large			
				CYVL100DK125*BC/*SC	CYVL150DK200*BC/*SC	CYVL200DK250*BC/*SC	CYVL250DK250*BC/*SC
Heating capacity	Speed 3		kW	15.6	23.3	29.4	31.1
Power input	Fan only	Nom.	kW	0.75	1.13	1.50	1.88
	Heating	Nom.	kW	0.75	1.13	1.50	1.88
Delta T	Speed 3		K		15	14	12
Casing	Colour			BN: RAL9010 / SN: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	mm	1,000/1,000/1,048	1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548
		Depth F/C/R	mm	774/1,105/745			
Required ceiling void >			mm	520			
Door height	Max.		m	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5
Weight	Unit		kg	76	100	126	157
Fan-Air flow rate	Heating	Speed 3	m <sup>3</sup> /h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	Type / GWP			R-410A / 2,087.5			
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0	9.52/19.0	9.52/22.0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52)			
Power supply	Voltage		V	230			

(1) Favorable conditions: covered shopping mall or revolving door entrance (2) Normal conditions: little direct wind, no opposite open doors, building with ground floor only (3) Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway

		VRV IV+ heat recovery	
		REYQ8-20 REM05	2/3 module systems
Kits	<b>Multi-module connection kit (obligatory)</b> - Connects multiple modules into a single refrigerant system		2 modules: BHFQ23P907 3 modules: BHFQ23P1357
	<b>Extended level difference kit</b> - Allows outdoor unit to be more than 50m above indoor units	Special order unit	
	<b>Central drain pan kit</b> - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.		
	<b>Heater tape kit</b> - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	5/8-12: EKBPH012T7A 14-20: EKBPH020T7A	
Adapters	<b>External control adapter for outdoor unit</b> - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mounting plate is required. See Options & Accessories of indoor units	
	<b>KRC19-26</b> Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.		
	Cool/heat selector PCB (required to connect KRC19-26)		
	<b>KKSB26B1*</b> Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)		
	<b>KJB111A</b> Installation box for remote cool/heat selector KRC19-26		
	<b>EKCHSC</b> - Cool/heat selector cable		
	<b>EKPCCAB4</b> VRV configurator		
	<b>KKSB26B1*</b> Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.		
	<b>DTA109A51</b> DIII-net expander adapter		
	<b>BPMKS967A2/A3</b> Branch provider (for connection of 2/3 RA indoor units)		
Others	<b>EKDK04</b> Drain plug kit		
	<b>EKLN140A</b> Sound enclosure		

\*Note: blue cells contain preliminary data

		VRV IV S-series		
		RXYSCQ-TV1	RXYSQ4-6TV9	RXYSQ4-6TY9
Kits	<b>Multi-module connection kit (obligatory)</b> - Connects multiple modules into a single refrigerant system			
	<b>Extended level difference kit</b> - Allows outdoor unit to be more than 50m above indoor units			
	<b>Central drain pan kit</b> - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.			
	<b>Heater tape kit</b> - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)			
Adapters	<b>External control adapter for outdoor unit</b> - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. See Options & Accessories of indoor units		
	<b>KRC19-26</b> Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.		•	•
	Cool/heat selector PCB (Required to connect KRC19-26)		EBRP2B	
	<b>KKSB26B1*</b> Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
	<b>KJB111A</b> Installation box for remote cool/heat selector KRC19-26		•	•
	<b>EKCHSC</b> Cool/heat selector cable (Required to connect KRC19-26)			•
	<b>EKPCCAB4</b> VRV configurator	•	•	•
	<b>KKSB26B1*</b> Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			
	<b>DTA109A51</b> DIII-net expander adapter			
	<b>BPMKS967A2/A3</b> Branch provider (for connection of 2/3 RA indoor units)	•	•	•
Others	<b>EKDK04</b> Drain plug kit		•	•

VRV IV+ heat pump		VRV IV C+series	
RYYQ8-20 RYMQ8-20 RXYQ8-20	2/3 module systems	RXYLQ RXMLQ	2/3 module systems
	2 modules: BHFQ22P1007 3 modules: BHFQ22P1517		2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
8-12: EKBP012T7A 14-20: EKBP020T7A			

DTA104A53/61/62  
For installation into an indoor unit: exact adapter type depends on type of indoor unit.  
For 14-20 HP the demand PCB mounting plate is required. See Options & Accessories of indoor units

•	1 kit per system	•	1 kit per system
BRP2A81	1 kit per system	BRP2A81	1 kit per system
• (14-20)	1 kit per system	•	1 kit per system
•	1 kit per system	•	1 kit per system
•		•	
• (14-20)		•	
•		•	

RXYSQ8-12TY1	VRV IV i-series SB.RKXYQ			
	RDXYQ5	RDXYQ8	RKXYQ5	RKXYQ8
	EKDPH1RDX	EKDPH1RDX		

DTA104A53/61/62  
For installation into an indoor unit: exact adapter type depends on type of indoor unit.  
See Options & Accessories of indoor units

			•	•
				BRP2A81
			•	•
			•	•
•			•	•
•				

		VRV IV-Q Heat Pump Replacement VRV		
		RQYQ 140P	RXYQQ8-20	2/3-module systems
Kits	<b>Multi-module connection kit (obligatory)</b> Connects multiple modules into a single refrigerant system			2 modules: BHFQ22P1007 3 modules: BHFQ22P1517
	<b>Central drain pan kit</b> - Installs onto the underside of the outdoor unit and collects drain water from all bottom plate outlets into a single outlet. In cold areas should be heated by a field-supplied heater to prevent drain water from freezing in the drain pan.	KWC26B160		
	<b>Heater tape kit</b> - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)		8-12: EKBP012T7A 14-20: EKBP020T7A	
Adapters	<b>External control adapter for outdoor unit</b> - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mounting plate is required. See Options & Accessories of indoor units	DTA104A53/61/62 For installation into an indoor unit: exact adapter type depends on type of indoor unit. For 14-20 HP the demand PCB mounting plate is required. See Options & Accessories of indoor units	
	<b>KRC19-26</b> Mechanical cool/heat selector – allows to switch an entire Heat Pump system, or one BS-box of a Heat Recovery system between cooling, heating and fan only. Connects to the A-B-C terminals of the outdoor unit / BS-box.	•	•	1 kit per system
	<b>BRP2A81</b> Cool/heat selector PCB (required to connect KRC19-26 to VRV IV outdoor)		•	1 kit per system
	<b>KKSB26B1*</b> Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)		• (8-12)	1 kit per system
Others	<b>KJB111A</b> Installation box for remote cool/heat selector KRC19-26	•	•	1 kit per system
	<b>EKPPCAB4</b> VRV configurator		•	
	<b>KKSB26B1*</b> Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.		• (8-12)	
	<b>DTA109A51</b> DIII-net expander adapter			

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFO1 and EKHBFO2. The kits contain insulation material that complies with EN13501-1:B-S3,dO and BS476-7 (class 1)

## Refnets & branch selector boxes

		Refnet Joints			
		Capacity index	Capacity index	Capacity index	Capacity index
		< 200	200 ≤ x < 290	290 ≤ x < 640	> 640
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	For all R-410A VRV: KHRQ22M20T For all R-410A+R-32 VRV: KHRQ22M20TA	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T
	Imperial-size connections for heat recovery pump (2-pipe) (1)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	<b>EKBSVOLNP</b> Sound reduction kit (sound insulation)				
	<b>KHFP26A100C</b> Closed pipe kit				
	Joint kit for branch selector (BS) boxes: To couple 2 BS box branches to connect larger capacity indoor units				
	Quiet kit				
	<b>K-KDU303KVE</b> Drain pump kit				
	<b>EKBSDCK</b> Duct connection: To connect extraction of BSSV boxes in serial				

(1) For metric size connections, contact your local sales responsible

VRV III-Q Heat Recovery Replacement VRV		VRV-W IV Water-cooled VRV		
RQEQ 140~212		RWEYQ8-14	Heat Pump application 2/3-module systems	Heat Recovery application 2/3-module systems
	2/3 modules: BHFP26P36C 4 modules: BHFP26P84C		BHFQ22P1007 / BHFQ22P1517 (1)	BHFQ23P907 / BHFQ23P1357 (1)

DTA104A53/61/62

Installation in the RWEYQ outdoor unit possible. For installation in indoor units, use appropriate type (DTA104A53/61/62) for particular indoor unit. See Options & Accessories of indoor units

		• (for H/P only)	1 kit per system	
		• (for H/P only)	1 kit per system	
•		• (for H/P only)	1 kit per system	
		•	•	•
		•	•	•

Refnet Headers			Heat Recovery Branch Selector Boxes (BS-Boxes)	
Capacity index < 290	Capacity index 290 ≤ x < 640	Capacity index > 640	1-port R-410A BS1Q-A	4 to 16 ports R-410A BS-Q14AV1B
KHRQ22M29H	KHRQ22M64H	KHRQ22M75H		
KHRQ23M29H	KHRQ23M64H	KHRQ23M75H		
			•	
				•
				KHRP26A1250C
				4-port: KDDN26A4 6-port: KDDN26A8 8-port: KDDN26A8 10-port: KDDN26A12 12-port: KDDN26A12 16-port: KDDN26A16



Options & accessories -



Ceiling mounted cassette units

		Round flow (800x800)	4-way (600x600)	2-way blow	Corner (1-way blow)
		FXFQ-B	FXZQ-A	FXCQ 20~40A	FXKQ 25~40MA
Panels	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(3) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	R-410A model: BYFQ60C2W1W (white panel) BYFQ60C2W1S (grey panel) BYFQ60B3W1 (standard panel) R-32 model: BYFQ60C4W1W (white panel) (19) BYFQ60C4W1S (grey panel) (19) BYFQ60B3W1 (standard panel) (20)	20~40: BYBCQ40H 50~63: BYBCQ63H 80~125: BYBCQ125H	25~40: BYK45F 63: BYK71F
	Panel spacer for reducing required installation height		KDBQ44B60 (Standard panel)		25~40: KPB52F56 63: KPB52F80
	Sealing kit for 3- or 2-directional air discharge	KDBHQ56B140 (7)	BDBHQ44C60 (white & grey panel)		
	Sensor kit	BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)	R-410A models: BRYQ60A2W (white) BRYQ60A2S (grey) R-32 models: BRYQ60A3W (white) BRYQ60A3S (grey)		
Individual control systems	Infrared remote control including receiver	BRC7FA532F (white panels) (7)(15) BRC7FA532FB (black panels) (7)(15) BRC7FB532F (white designer panel) (7)(15) BRC7FB532FB (black designer panel) (7)(15)	BRC7F530W (9) (10) (white panel) BRC7F530S (9) (10) (grey panel) BRC7EB530W (9) (10) (standard panel)	BRC7C52	BRC4C61
	BRP069C51 - Onecta app				
	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	●	●	●	●
	BRC1E53A/B/C - Wired remote control with full-text interface and back-light	● (18)	● (18)	●	●
	BRC1D52 (4) - Standard wired remote control with weekly timer	● (15)(18)	● (18)	●	●
Centralised control systems	DCC601A51 - Intelligent Tablet Controller	●	●	●	●
	DCS601C51 (12) - intelligent Touch Controller	●	●	●	●
	DCS302C51 (12) - Central remote control	●	●	●	●
	DCS301B51 (12) (13) - Unified ON/OFF control	●	●	●	●
	RTD-NET - Modbus interface for monitoring and control	●	●	●	●
Building Management System & Standard protocol interfaces for individual control for central control	RTD-10 - Modbus interface for infrastructure cooling	●	●	●	●
	RTD-20 - Modbus interface for retail	●	●	●	●
	RTD-HO - Modbus interface for hotel	●	●	●	●
	KLIC-DI - KNX Interface	●	●	●	●
	DCM601A51 - intelligent Touch Manager	●	●	●	●
	EKMDBXB - Modbus interface	●	●	●	●
	DCM010A51 - Daikin PMS interface	●	●	●	●
	DMS502A51 - BACnet Interface	●	●	●	●
	DMS504B51 - LonWorks Interface	●	●	●	●
	Filters	Replacement long life filter, non-woven type	KAF5511D160	KAF441C60	20~40: KAF531C50 50~63: KAF531C80 80~125: KAF531C160
Auto cleaning filter		see decoration panel			
Wiring and sensors	KRCS - External wired temperature sensor	KRCS01-7B	KRCS01-4	KRCS01-4	KRCS01-1
	K.RSS - External wireless temperature sensor	K.RSS	K.RSS	●	●
Adapters	Adapter with 2 output signals (Compressor / Error, Fan output)	KRP1BA58 (2)(7)	KRP1B57 (2)		
	Adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRPI1C2 (2)(7)	EKRPIB2 (2)		KRP1B61
	Adapter for centralised external monitoring/control via dry contacts and setpoint control via 0-140Ω	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51 (2)	KRP4A51
	Adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A51 (2)	KRP2A61
	Adapter for keycard and/or window contact connection (2)(11)	BRP7A53	BRP7A53 (2)	BRP7A51	BRP7A51
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61		
	External control adapter for outdoor unit (installation on indoor unit)			DTA104A61 (2)	DTA104A61
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP1H98A (7) KRP1BC101	KRP1BB101 KRP1BC101	KRP1C96 (16) (17)	
Wiring kit for Remote ON/OFF or Forced OFF	Standard	Standard	Standard	Standard	
Relay PCB for output signal of refrigerant sensor					
Others	Drain pump kit	Standard	Standard	Standard	Standard
	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)				
	Fresh air intake kit (direct installation type)	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60		
	Air discharge adapter for round duct				
	Filter chamber for bottom suction			20~40: KDDFP53B50 50~63: KDDFP53B80 80~125: KDDFP53B160	

(1) Pump station is necessary for this option

(2) Installation box is necessary for these adapters

(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140E decoration panel in environments exposed to concentrations of dirt\*

(4) Not recommended because of the limitation of the functions

(5) To be able to control the BYCQ140EGF(B) the controller BRC1E is needed

(6) The BYCQ140EGF(B) is not compatible with Multi and Split Non-Inverter Outdoor units

(7) Option not available in combination with BYCQ140EGF(B)

(8) Both parts of the fresh air intake are needed for each unit

(9) Cannot be combined with sensor kit

(10) Independently controllable flaps function not available

(11) Only possible in combination with BRC1H\* / BRC1E\*

(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller

(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51

(14) Wire harness EKEWTSC is necessary

(15) The active airflow circulation function is not available for this controller.

(16) Up to 2 adaptor PCBs can be installed per installation box

(17) Only one installation box can be installed per indoor unit

(18) Filter chamber KDJ3705L280 is necessary for this option

(19) for 32 class adapter box mounting plate KKAAP50A56 is needed

(20) Filter chamber BDD500B250 is necessary for this option





Daikin offers the widest range in DX ventilation in the market. With a variety of ventilation solutions from small heat recovery ventilation to large scale air handling units we help provide a fresh, healthy and comfortable environment in offices, hotels, stores and other commercial environments.



# Commercial Ventilation & Air Purification

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Want to know more about  
ventilation systems and how Indoor Air  
Quality can be secured by ventilation?  
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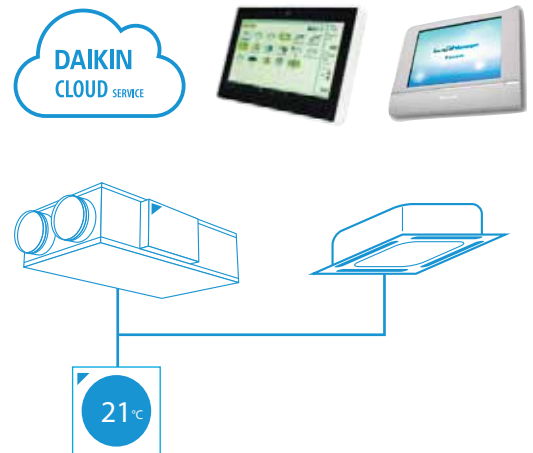




# 5 reasons why Daikin's ventilation range is unique in the market

## 1 Market leading controls & connectivity

- › Interlock of ventilation and air conditioning system
  - Control ERV/HRV and air conditioning from the same controller
  - Aligns the operation mode between the systems to save energy
- › Easy integration in the total solution
  - Online control and monitoring via the Daikin Cloud Service
  - Full portfolio integration in the intelligent Touch Manager, Daikin's cost-effective mini BMS
- › User-friendly controller with premium design
  - Intuitive touch button control



Madoka



red dot award 2018 winner

## 2 Unique installation benefits

- › Integrates seamlessly in the Daikin total solution, ensuring a single point of contact
- › Total fresh air solution with Daikin supplying both the VAM/Modular L Smart and the electrical heater
- › Daikin AHU and condensing unit connect Plug & Play thanks to same pipe diameters, factory mounted controls, expansion valves, etc.







### 3 High energy efficiency

- › Energy recovery of up to 92%, reducing running costs
- › Free nighttime cooling using fresh outside air
- › Inverter driven centrifugal fans
- › ErP compliant



### 4 Best comfort

- › Wide range of units to control fresh air and humidity
- › Wide range of optional filters to suit the application available up to ePM<sub>1</sub> 80% (F9)
- › Special paper heat exchanger recovers heat and moisture from extract air to warm up and humidify fresh air to comfortable levels (VAM, VKM)



### 5 Top reliability

- › Most extensive testing before new units leave the factory
- › Widest support network and after sales service
- › All spare parts available in Europe



## Did you know?

CO<sub>2</sub> levels and ventilation rates all have significant, independent impacts on cognitive function:

#### COGNITIVE FUNCTION SCORES ...



**+ 61%**  
IN GREEN BUILDING  
CONDITIONS



**+ 101%**  
IN ENHANCED  
GREEN BUILDING CONDITIONS

# Widest range of DX integrated ventilation on the market

Daikin offers a variety of solutions from small energy recovery ventilation to large-scale air handling units for the provision of fresh air ventilation to homes, or commercial premises.

## Ventilation solutions

Daikin offers state-of-the-art ventilation solutions that can easily be integrated into any project:

- › **Unique portfolio** within DX manufacturers
- › High-quality solutions complying with the **highest Daikin quality standards**
- › **Seamless integration** of all products to provide the best indoor climate
- › All Daikin products connected to a single controller for **complete control** of the HVAC system.

## Energy Recovery Ventilation

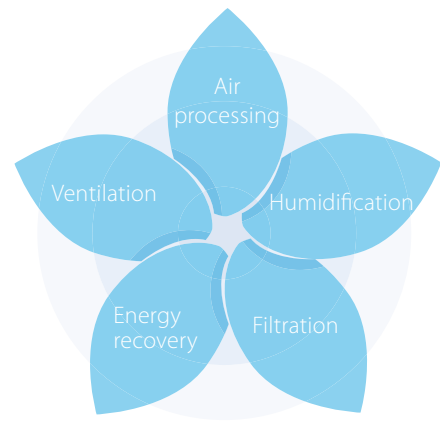
Our energy recovery units **recover sensible energy** (Modular L Pro / Modular L Smart) or **total (sensible + latent) energy** (VAM/EKVDX/VKM-GBM), substantially reducing the load on the air conditioning system up to 40%.

## Ventilation with DX connection - Control over fresh air temperature

Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be combined to the same outdoor unit to reduce the installation costs. For **false-ceiling installations** where space is a constraint, the VKM can fit perfectly to deliver fresh air at a comfortable temperature and it has an optional humidification element.

## Indoor Environment Quality Components

- › **Ventilation:** Ensures the provision of fresh and clean air
- › **Energy recovery:** Delivers energy savings by transferring heat and moisture between airflows thus helping to bring supply air to the required indoor conditions for temperature and humidity
- › **Air processing:** Delivers the required conditioned air to optimize the energy efficiency of indoor HVAC equipment
- › **Humidification:** Ensures the desired moisture level in the conditioned space
- › **Filtration:** Ensures clean and healthy air by filtering out pollen, dust, odors and other contaminants that are harmful to our health



## Fresh air portfolio



# Modular L Smart

Premium efficiency heat recovery unit

## Highlights

- › Connects Plug&Play into the Sky Air and VRV control network
- › Easy installation and commissioning
- › Internal pre-filter stage (up to ePM<sub>1</sub> 50% (F7) + ePM<sub>1</sub> 80% (F9)) making the unit reach highest indoor air quality requirements.
- › Wide air flow coverage from 150m<sup>3</sup>/h to 3,400m<sup>3</sup>/h
- › Exceeding ErP 2018 requirements
- › Best choice when compactness is needed (only 280 mm height up to 550 m<sup>3</sup>/h)
- › 50 mm double skin panel (120 kg/m<sup>3</sup>) for a maximum sound and thermal insulation

## EC centrifugal fan

- › Maximum ESP available 600 Pa (depending on model sizes and airflow)
- › Inverter driven with IE4 premium efficiency motor
- › High-efficient blade profiling
- › Reduced energy consumption
- › Optimized SFP (Specific Fan Power) for an efficient unit operation

## Heat exchanger

- › Premium quality counter flow plate heat exchanger
- › Up to 91% of the thermal energy recovered
- › High grade aluminum allowing optimum corrosion protection



Right drain connection (ALB-RBS)



Left drain connection (ALB-LBS)

More details and final information can be found by scanning or clicking the QR codes.



ALB-LBS



ALB-RBS

## Technical details

D-AHU Modular L Smart			ALB02*BS	ALB03*BS	ALB04*BS	ALB05*BS	ALB06*BS	ALB07*BS
Airflow		m <sup>3</sup> /h	300	600	1,200	1,600	2,300	3,000
Heat exchanger thermal efficiency (1)		%	86		87		86	
External static pressure	Nom.	Pa	100					
Current	Nom.	A	0.61	1.35	2.26	2.83	4.39	6.22
Power input	Nom.	kW	0.14	0.31	0.52	0.65	1.01	1.43
SFPv (2)		kW/m <sup>3</sup> /s	1.25	1.52	1.3	1.35	1.35	1.51
Electrical supply	Phase	ph	1					
	Frequency	Hz	50/60					
	Voltage	V	220/240 Vac					
Main unit dimensions	Width	mm	920	1,100	1,600		2,000	
	Height	mm	280	350	415		500	
	Length	mm	1,660	1,800	2,000			
Rectangular duct flange	Width	mm	250	400	500		700	
	Height	mm	150	200	300		400	
Weight unit		kg	125	180	270	280	355	360

(1) Winter design condition: Outdoor: -5°C, 90% Indoor: 22°C, 50% | (2) SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.

## Electrical heater for Modular L Smart

- › Total solution for fresh air with Daikin supply of both Modular L Smart and electrical heaters
- › Increase comfort in low outdoor temperature thanks to the heated outdoor air
- › Integrated electrical heater concept (no additional accessories required)
- › Standard dual flow and temperature sensor
- › Heater only consumes what is required to pre-heat to the desired minimum fresh air temperature; thus saving energy



More details and final information can be found by scanning or clicking the QR codes.



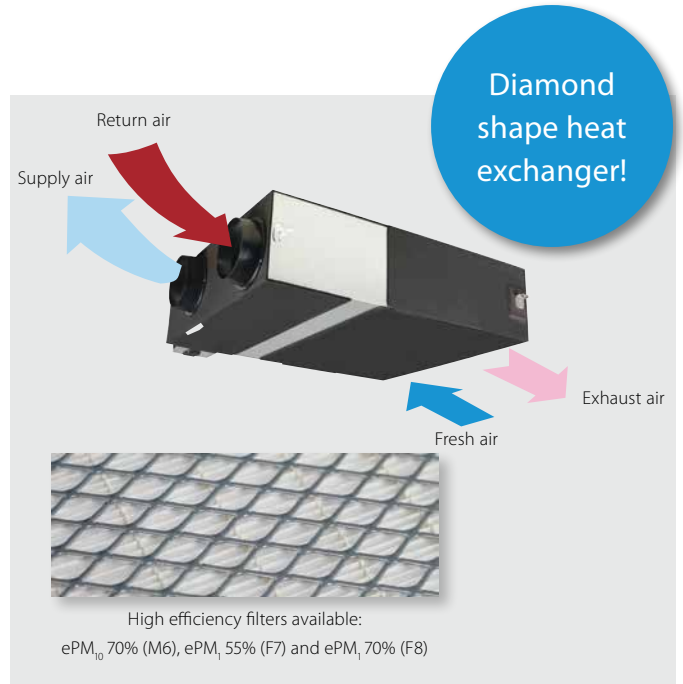
Electrical heater for Modular L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB
Capacity kW	1,5	3	7,5	15
Connectable Modular L Smart size	02	03	04, 05	06, 07
Supply voltage	230V,1ph		400V,3ph	
Output current (maximum) (A)	6,6	13,1	10,9	21,7
Temperature sensor	15k ohms at -20 °C 10k ohms at +10 °C	16k ohms at -20 °C 10k ohms at +10 °C	17k ohms at -20 °C 10k ohms at +10 °C	18k ohms at -20 °C 10k ohms at +10 °C
Temperature control range	- 20 °C to 10 °C			
Control fuse	Mini Circuit Breaker 6 A			
LED indicators	Yellow = Airflow fault Red = Heat ON			
Mounting holes	Depends on duct size			
Maximum ambient adjacent to terminal box	30°C (during operation)			
Auto high temperature cutout	75°C Pre-set			
Manual reset high temperature cutout	120°C Pre-set			
Width (mm)	470	620	720	920
Depth (mm)	370	370	370	370
Height (mm)	193	243	343	443



# Energy recovery ventilation

## Ventilation with heat recovery as standard

- › Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
  - › Energy saving ventilation using indoor heating, cooling and moisture recovery
  - › Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
  - › Prevent energy losses from over-ventilation while improving indoor air quality with optional CO<sub>2</sub> sensor (J-series)
  - › Possibility to change ESP via wired remote control allows optimisation of the supply air volume (J - series)
  - › Can be used as stand alone or integrated in the Sky Air or VRV system
  - › Wide range of units: air flow rate from 150 up to 2,000 m<sup>3</sup>/h
  - › Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
  - › No drain piping needed
  - › Can operate in over- and under pressure
  - › Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters
- NEW** › VAM-J8 series are connectable to EKVDX DX coil for air processing



## NEW CO<sub>2</sub> concentration visualisation

- › Real time CO<sub>2</sub> visualisation on Madoka controller
- › For VAM-J8 units with optional BRYMA sensor connected



More details and final information can be found by scanning or clicking the QR codes.



VAM-FC9



VAM-J8

Ventilation		VAM/VAM	150FC9	250FC9	350J8	500J8	650J8	800J8	1000J8	1500J8	2000J8									
Power input - 50Hz	Heat exchange mode	Nom. Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.097/0.070/0.039	0.164/0.113/0.054	0.247/0.173/0.081	0.303/0.212/0.103	0.416/0.307/0.137	0.548/0.384/0.191	0.833/0.614/0.273								
	Bypass mode	Nom. Ultra high/High/Low	kW	0.132/0.111/0.058	0.161/0.079/0.064	0.085/0.061/0.031	0.148/0.100/0.045	0.195/0.131/0.059	0.289/0.194/0.086	0.417/0.300/0.119	0.525/0.350/0.156	0.835/0.600/0.239								
Temperature exchange efficiency - 50Hz	Ultra high/High/Low		%	77.0(1)/72.0(2)/78.3(1)/72.3(2)/82.8(1)/73.2(2)	74.9(1)/69.5(2)/76.0(1)/70.0(2)/80.1(1)/72.0(2)	85.1/86.7/90.1	80.0/82.5/87.6	84.3/86.4/90.5	82.5/84.2/87.7	79.6/81.8/86.1	83.2/84.8/88.1	79.6/81.8/86.1								
	Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low	%	60.3(1)/61.9(1)/67.3(1)	60.3(1)/61.2(1)/64.5(1)	65.2/67.9/74.6	59.2/61.8/69.5	59.2/63.8/73.1	67.7/70.7/76.8	62.6/66.4/74.0	68.9/71.8/77.5	62.6/66.4/74.0							
Heating		Ultra high/High/Low	%	66.6(1)/67.9(1)/72.4(1)	66.6(1)/67.4(1)/70.7(1)	75.5/77.6/82.0	69.0/72.2/78.7	73.1/76.3/82.7	72.8/75.3/80.2	68.6/71.7/77.9	73.8/76.1/80.8	68.6/71.7/77.9								
Operation mode			Heat exchange mode, bypass mode, fresh-up mode																	
Heat exchange system			Air to air cross flow total heat (sensible + latent heat) exchange																	
Heat exchange element			Specially processed non-flammable paper																	
Dimensions			Unit	HeightxWidthxDepth		mm	285x776x525		301x1,113x886		368x1,354x920		368x1,354x1,172		731x1,354x1,172					
Weight			Unit	kg		24.0		46.5		61.5		79.0		157						
Casing			Material		Galvanised steel plate															
Fan	Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low	m <sup>3</sup> /h	150 /140 /105	250 /230 /155	350 (1)/300 (1)/200 (1)	500 (1)/425 (1)/275 (1)	650 (1)/550 (1)/350 (1)	800 (1)/680 (1)/440 (1)	1,000 (1)/850 (1)/550 (1)	1,500 (1)/1,275 (1)/825 (1)	2,000 (1)/1,700 (1)/1,100 (1)							
		Bypass mode	Ultra high/High/Low	m <sup>3</sup> /h	150 /140 /105	250 /230 /155	350 (1)/300 (1)/200 (1)	500 (1)/425 (1)/275 (1)	650 (1)/550 (1)/350 (1)	800 (1)/680 (1)/440 (1)	1,000 (1)/850 (1)/550 (1)	1,500 (1)/1,275 (1)/825 (1)	2,000 (1)/1,700 (1)/1,100 (1)							
	External static pressure - 50Hz	Ultra high/High/Low	Pa	90 /87/40		70 /63/25		90 (1)/70.0 /50.0 (1)												
Air filter			Type	Multidirectional fibrous fleeces		Multidirectional fibrous fleeces (G3)														
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low	dBA	27.0/26.0/20.5		28.0/26.0/21.0		34.5 (1)/32.0 (1)/29.0 (1)	37.5 (1)/35.0 (1)/30.5 (1)	39.0 (1)/36.0 (1)/31.0 (1)	39.0 (1)/36.0 (1)/30.5 (1)	42.0 (1)/38.5 (1)/32.5 (1)	42.0 (1)/39.0 (1)/33.5 (1)	45.0 (1)/41.5 (1)/36.0 (1)						
	Bypass mode	Ultra high/High/Low	dBA	27.0/26.5/20.5		28.0/27.0/21.0		34.5 (1)/32.0 (1)/28.0 (1)	38.0 (1)/35.0 (1)/29.5 (1)	38.0 (1)/34.5 (1)/30.5 (1)	40.0 (1)/36.5 (1)/30.5 (1)	42.5 (1)/40.0 (1)/32.5 (1)	42.0 (1)/39.0 (1)/32.5 (1)	45.0 (1)/41.0 (1)/35.0 (1)						
Operation range			Around unit	°CDB		-		0°C~40°CDB, 80% RH or less												
Connection duct diameter			mm	100		150		200		250		2x250								
Power supply			Phase/Frequency/Voltage	Hz/v		1~ ; 50/60 ; 220-240/220														
Current			Maximum fuse amps (MFA)	A		15.0		16.0												
Specific energy consumption (SEC)	Cold climate		kWh/(m <sup>2</sup> .a)	-56.0 (5)		-60.5 (5)														
	Average climate		kWh/(m <sup>2</sup> .a)	-22.1 (5)		-27.0 (5)														
	Warm climate		kWh/(m <sup>2</sup> .a)	-0.100 (5)		-5.30 (5)														
SEC class			D / See note 5 B / See note 5																	
Maximum flow rate at 100 Pa ESP			Flow rate	m <sup>3</sup> /h		130		207												
			Electric power input	W		129		160												
Sound power level (Lwa)			dB		40		43		51		54		58		61		62		65	
Annual electricity consumption			kWh/a		18.9 (5)		13.6 (5)													
Annual heating saved	Cold climate		kWh/a	41.0 (5)		40.6 (5)														
	Average climate		kWh/a	80.2 (5)		79.4 (5)														
	Warm climate		kWh/a	18.5 (5)		18.4 (5)														

(1)Measured according to JIS B 8628 | (2)Measured at reference flow rate according to EN13141-7 | (5) At reference flow rate in accordance with commission regulation (EU) No 1254/2014

# Electrical heater for VAM

- › Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- › Increased comfort in low outdoor temperature thanks to the heated outdoor air
- › Integrated electrical heater concept (no additional accessories required)
- › Standard dual flow and temperature sensor
- › Flexible setting with adjustable setpoint
- › Increased safety with 2 cut-outs: manual & automatic



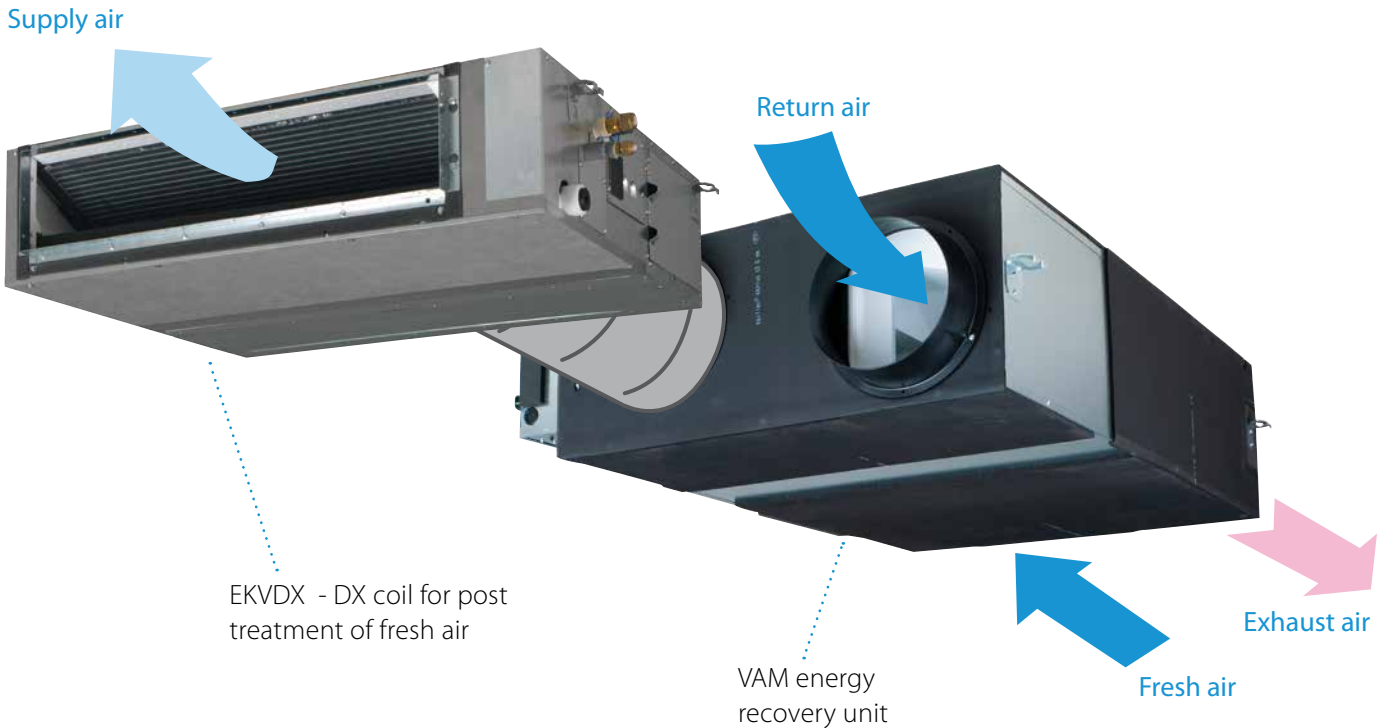
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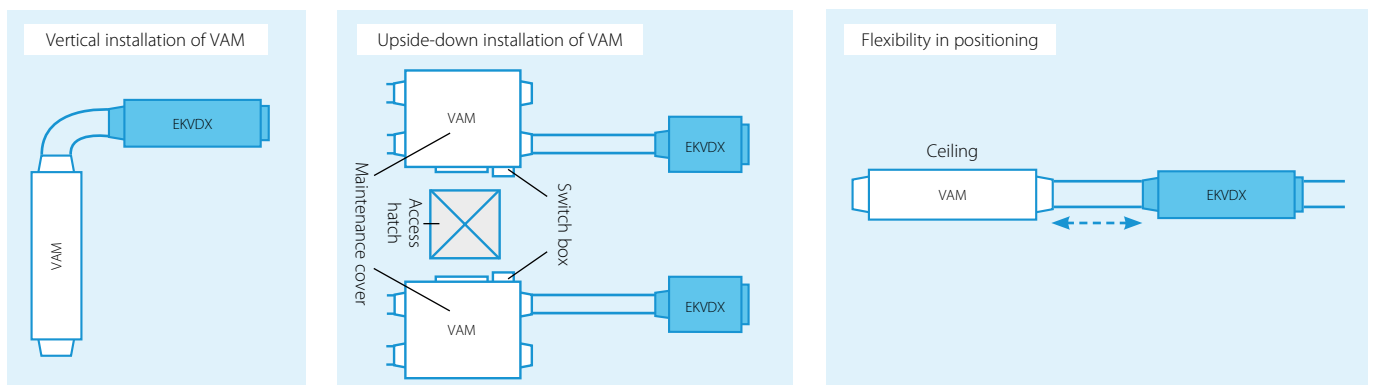
	GSIEKA	10009	15018	20024	25030	35530 <sup>(1)</sup>
Capacity	kW	0.9	1.8	2.4	3.0	3.0
Duct diameter	mm	100	150	200	250	355
Connectable VAM		VAM150FC9	VAM250FC9	VAM350,500J8	VAM650J8, VAM800J8, VAM1000J8	VAM1500J8, VAM2000J8

		GSIEKA10009	GSIEKA15018	GSIEKA20024	GSIEKA25030	GSIEKA35530
Dimensions	Height	mm	171	221	271	321
	Depth	mm	100	150	200	250
	Width	mm	370	370	370	370
Minimum air velocity / airflow		m/s	1.5			
		m³/h	45	100	170	265
Power supply		1~230 VAC/50Hz				
Nominal current	A	4.1	8.2	10.9	13.1	13.1
Heating power	kW	0.9	1.8	2.4	3.0	3.0
Connection duct diameter	mm	100	150	200	250	355
Operation range	Min.	°C	-40°C			
	Max.	°C	40°C			
	Rel. Humidity	%	90%			
Temperature sensor		10 kΩ at +25°C / TJ-K10K				
Temperature sensor range		- 30°C to 105°C				
Temperature set point range		- 10°C to 50°C				
LED indicators	LED 1	flashing every 5 seconds	heater is starting up			
		flashing every second	air flow detected, heating allowed			
		OFF	no power supply or no flow			
	LED 2	ON	problem with duct temperature sensor, set point potentiometer or PTC airflow sensor			
		OFF	heater is not operation			
		ON	heater is operating			
Ambient temperature adjacent to controller		0°C to +50°C				
Auto high temperature cut-out		50°C				
Manual reset high temperature cut-out		100°C				

## DX coil for post treatment of fresh air



- › Creates a high quality indoor environment by pre conditioning of incoming fresh air
- › Maximum installation flexibility thanks to separate DX coil
  - Different installation possibilities to suit the application



- › Fresh air flows from 500 up to 2,000 m<sup>3</sup>/h
- › High ESP up to 150 Pa
- › Can be integrated in both R-32/R-410A VRV systems
- › Replaces VKM-GB range, delivering increased capacity range and reduced sound levels

# DX coil for air processing

Post heating or cooling of fresh air to lower the load on the air conditioning system

- › Creates a high quality indoor environment by pre conditioning of incoming fresh air
- › Maximum installation flexibility thanks to separate DX coil
- › Wide range of units covering fresh air flows of 500 up to 2,000 m<sup>3</sup>/h
- › High ESP up to 150 Pa
- › Can be integrated in both R-32/R-410A VRV systems



More details and final information can be found by scanning or clicking the QR codes.



EKVDX-A

				<b>EKVDX32A</b>	<b>EKVDX50A</b>	<b>EKVDX80A</b>	<b>EKVDX100A</b>	
Power input - 50Hz	Cooling	Nom.	kW	0.035	0.035	0.035	0.035	
	Heating	Nom.	kW	0.035	0.035	0.035	0.035	
Casing	Material			Galvanised steel plate				
Insulation material				Opcell and anti-sweat material				
Dimensions	Unit	Height	mm	250				
		Width	mm	550	700	1,000	1,400	
		Depth	mm	809				
Weight	Unit		kg	19	23.4	30.1	37.7	
Operation range	Around unit		°CDB	10°C~40°CDB, 80% RH or less				
	On coil temperature	Cooling	Max.	°CDB	35			
		Heating	Min.	°CDB	11			
Piping connections	Liquid	OD	mm	6.35				
		Gas	OD	mm	12.7			
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm			
Refrigerant	Type				R410A/R32			
	GWP				2,087.5/675			
Heat exchange system				Direct expansion				
Power supply	Phase			single phase				
	Frequency		Hz	50/60				
	Voltage		V	220-240/220				

				<b>EKVDX32A + VAM500J8</b>	<b>EKVDX50A + VAM650J8</b>	<b>EKVDX50A + VAM800J8</b>	<b>EKVDX80A + VAM1000J8</b>	<b>EKVDX100A + VAM1500J8</b>	<b>EKVDX100A + VAM2000J8</b>	
Cooling capacity	Total (VAM+DX coil)	DX coil	At ultra high fan speed	kW	5.1	7.1	8.6	9.3	15.4	18.4
			At high fan speed	kW	3.4	4.8	5.5	5.7	9.5	11.2
	Heating capacity	Total (VAM+DX coil)	DX coil	At ultra high fan speed	kW	6.7	8.5	11	11.9	18.7
At high fan speed				kW	4.2	5.1	6.9	7	10.8	13
Fan		Air flow rate - 50Hz	Heat exchange mode	Ultra high	m <sup>3</sup> /h	500	650	800	1000	1500
	High			m <sup>3</sup> /h	425	550	680	850	1275	1700
	Bypass mode			Ultra high	m <sup>3</sup> /h	500	650	800	1000	1500
	External static pressure - 50Hz	Maximum	High	m <sup>3</sup> /h	425	550	680	850	1275	1700
			Pa	81.9	73.0	133.7	106.0	153.6	92.1	
			Pa	51.9	43.0	23.7	26.0	43.6	12.1	
Sound pressure level - 50Hz	Cooling	Ultra high	High	dBA	32	34	35.5	40.5	38.5	43.5
			High	dBA	30.5	32	34	38	37	40
			Ultra high	dBA	32.5	34.5	36	40.5	39	44
	Heating	High	High	dBA	31.5	32	34	38.5	37	40.5
			High	dBA	31.5	32	34	38.5	37	40.5
			High	dBA	31.5	32	34	38.5	37	40.5
Current	Maximum fuse amps (MFA)		A	6	6	6	6	16	16	

The heat reclaim ventilation unit and the EKVDX indoor unit MUST share the same electrical safety devices and power supply

# Energy recovery ventilation, humidification and air processing

Post heating or cooling of fresh air for lower load on the air conditioning system

- › Energy saving ventilation using indoor heating, cooling and moisture recovery
- › Creates a high quality indoor environment by pre conditioning of incoming fresh air
- › Humidification of the fresh air results in comfortable indoor humidity level, even during heating
- › Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- › Low energy consumption thanks to DC fan motor
- › Prevent energy losses from over-ventilation while improving indoor air quality with optional CO<sub>2</sub> sensor
- › Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- › Specially developed heat exchange element with High Efficiency Paper (HEP)
- › Can operate in over- and under pressure



More details and final information can be found by scanning or clicking the QR codes.



Ventilation		VKM-GBM		50GBM	80GBM	100GBM	
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
	Bypass mode	Nom.	Ultra high/High/Low	kW	0.270/0.230/0.170	0.330/0.280/0.192	0.410/0.365/0.230
Fresh air conditioning load	Cooling			kW	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0
	Heating			kW	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	64/64/67	66/66/68	62/62/66
	Heating	Ultra high/High/Low		%	67/67/69	71/71/73	65/65/69
Operation mode					Heat exchange mode / Bypass mode / Fresh-up mode		
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange		
Heat exchange element					Specially processed non-flammable paper		
Humidifier					Natural evaporating type		
Dimensions	Unit	HeightxWidthxDepth	mm	387x1,764x832	387x1,764x1,214		
Weight	Unit		kg	100	119	123	
Casing					Galvanised steel plate		
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low	m <sup>3</sup> /h	500/500/440	750/750/640	950/950/820	
	Bypass mode	Ultra high/High/Low	m <sup>3</sup> /h	500/500/440	750/750/640	950/950/820	
Fan-External static pressure - 50Hz	Ultra high/High/Low		Pa	200/150/120	205/155/105	110/70/60	
Air filter					Multidirectional fibrous fleeces		
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low	dBA	38/36/34	40/37.5/35.5	40/38/35.5	
	Bypass mode	Ultra high/High/Low	dBA	39/36/34.5	41/38/36	41/39/35.5	
Operation range	Around unit		°CDB	0°C~40°CDB, 80% RH or less			
	Supply air		°CDB	-15°C~40°CDB, 80% RH or less			
	Return air		°CDB	0°C~40°CDB, 80% RH or less			
	On coil temperature	Cooling/Max./Heating/Min.	°CDB	-15/43			
Refrigerant	Control			Electronic expansion valve			
	Type			R-410A			
	GWP			2,087.5			
Connection duct diameter		mm	200	250			
Piping connections	Liquid	OD	mm	6.35			
	Gas	OD	mm	12.7			
	Water supply		mm	6.4			
	Drain			PT3/4 external thread			
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240			
Current	Maximum fuse amps (MFA)		A	15			



# Daikin's air handling units solutions

You will find your match

## Why choose Daikin air handling units with a DX connection?



### Simplifying business

The unique total solution approach by Daikin helps businesses to propose better cross-pillar solutions, to increase their success ratio by providing unmatched product combinations to the end-user and to simplify the life of installers by supplying high-quality products coming from the same manufacturer. Contrary to other manufacturers, Daikin does not use OEM products in its AHU with DX offer. Many competitors are either offering OEM DX outdoor units or OEM AHU which create additional problems when warranties or faults arise. **Having a single interface for your business makes Daikin the right choice.**

### One-stop shop

Daikin is the only global manufacturer in the market **capable of offering a true Plug & Play solution** where Daikin AHUs manufactured by Daikin Applied Europe and certified by Eurovent, offer off-the-shelf compatibility with Daikin's unique VRV outdoor unit range for the best performance in the market. This unique integration of cross-pillar products under the same umbrella, gives the customer both peace-of-mind and added value when promoting a total solution approach.

### Complete range of possibilities

Thanks to the **most complete offer in the market**, Daikin has the solution for all types of commercial applications requiring fresh air. Daikin provides ventilation solutions based on AHU from 2,500 m<sup>3</sup>/h up to 140,000 m<sup>3</sup>/h either with natural heat recovery or more advanced ventilation solutions where a VRV outdoor unit can be connected to the Daikin AHU for ultimate climate control. The harmonized control, between the VRV outdoor unit and the AHU, offer outstanding reliable operation of the system when connected to an iTM.

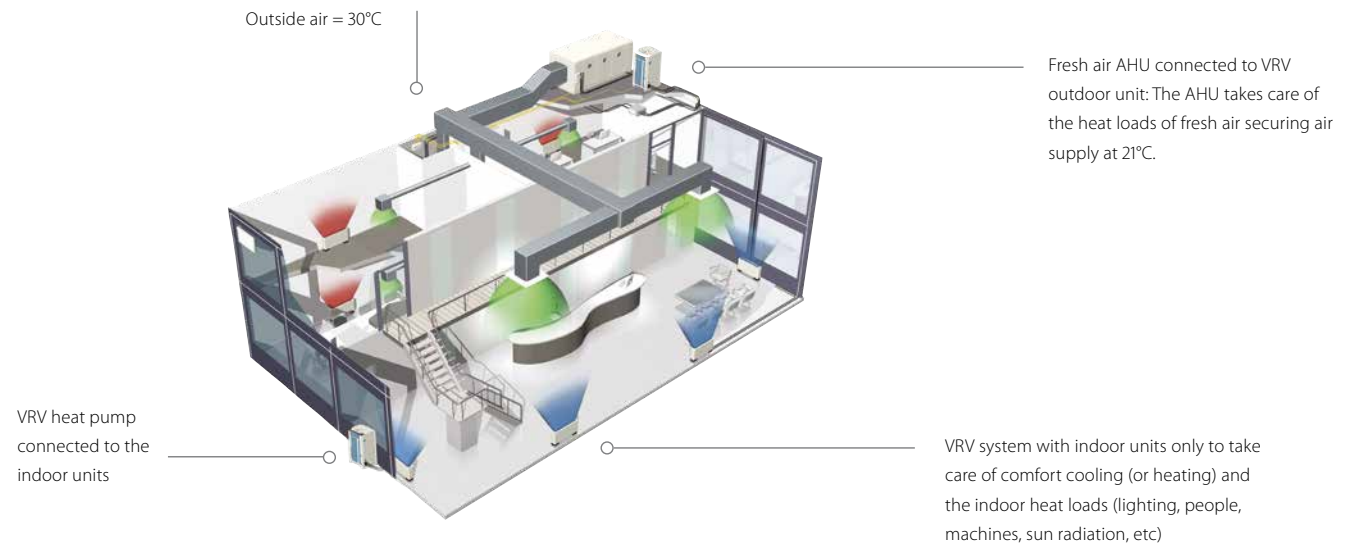
## Advantages

- › Unique manufacturer offering a complete range
- › Plug & Play solution
- › Direct iTM compatibility

## Why use VRV and ERQ condensing units for connection to air handling units?

### High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a high efficiency heat pump system lower the carbon footprint of the building.



### Fast response to changing loads resulting in high comfort levels

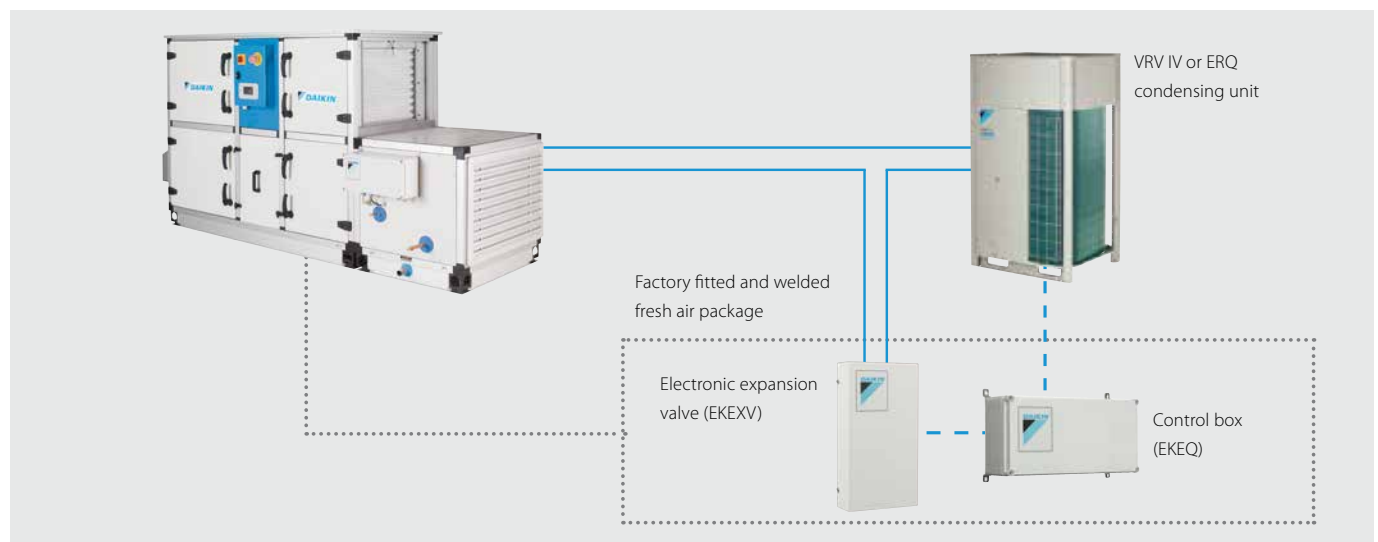
Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

### Easy Design and Installation

The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc. are required. This also reduces both the total system investment and running cost.

### Daikin Fresh air package

- › Plug & Play connection between VRV/ERQ and the entire D-AHU modular range.
- › Factory fitted and welded DX coil control and expansion valve kits.



# In order to maximise installation flexibility, 4 types of control systems are offered

**W control:** Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller, easy to setup

**X control:** Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

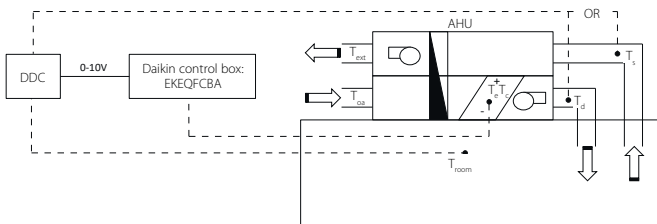
**Z control:** Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)

**Y control:** Control of refrigerant ( $T_e/T_c$ ) temperature via Daikin control (no DDC controller needed)

## 1. W control ( $T_d/T_s/T_{room}$ control):

### Air temperature control via DDC controller

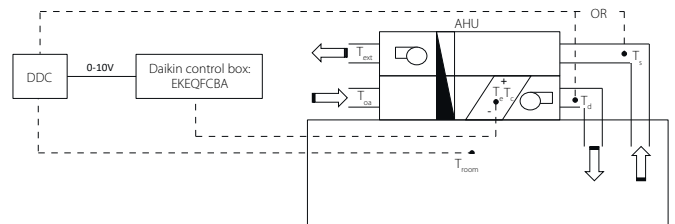
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA). This voltage modulates the capacity requirements of the outdoor unit.



## 2. X control ( $T_d/T_s/T_{room}$ control):

### Precise air temperature control via DDC controller

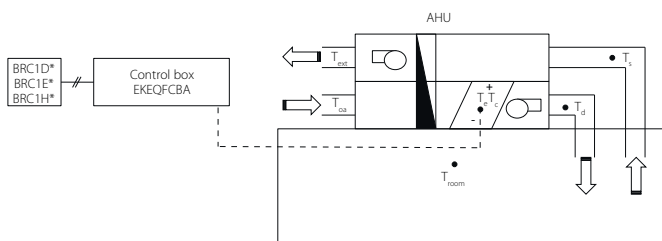
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin control box (EKEQFCBA). This reference voltage will be used as the main input value for the compressor frequency control.



## 3. Y control ( $T_e/T_c$ control):

### By fixed evaporating /condensing temperature

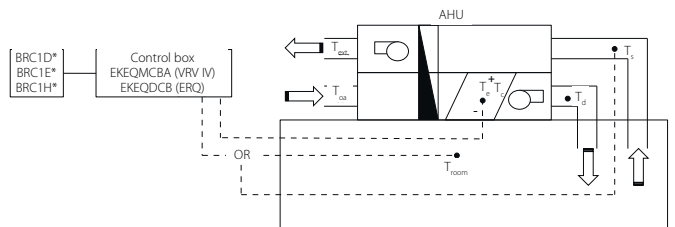
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1\* - optional) have to be connected for initial set-up but not required for operation.



## 4. Z control ( $T_d/T_{room}$ control):

### Control your AHU just like a VRV indoor unit (100% recirculation air application)

Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1\* for operation. The only control that allows the combination of other indoor units to the AHU at the same time.



$T_d$  = Discharge (supply) air temperature     $T_s$  = Suction (return) air temperature     $T_{oa}$  = Outdoor air temperature     $T_{room}$  = Room air temperature  
 $T_{ext}$  = Extraction air temperature     $T_e$  = Evaporating temperature     $T_c$  = Condensing temperature

	Option kit	Features
Possibility W	EKEQFCBA	Off-the-shelf DDC controller that requires no pre-configuration
Possibility X		Pre-configured DDC controller required
Possibility Y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility Z	EKEQDCB EKFQMCBA*	Using Daikin infrared remote control BRC1* Temperature control using air suction temperature or room temperature (via remote sensor)

\* EKEQMCB (for 'multi' application)

# VRV - for larger capacities (from 8 to 54HP)

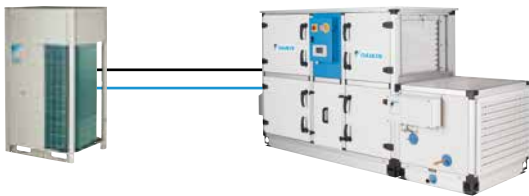
## An advanced solution for both pair and multi application

- > Inverter controlled units
- > Heat pump
- > Heat recovery only for mix application with indoor units without hydrobox. For 100% recirculation AHUs only used as a VRV indoor unit.
- > R-410A
- > Control of room temperature via Daikin control
- > Large range of expansion valve kits available
- > BRC1H\* is used to set the set point temperature (connected to the EKEQMCBA).
- > Connectable to all VRV heat recovery and heat pump systems (VRV H/R and VRV-i only connectable with Z control)

### Pair application

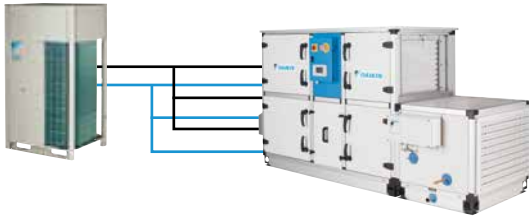
**One ERQ or VRV IV heat pump (system) connected to one AHU through one refrigerant circuit**

- > with W, X, Y and Z control
- > not allowed for VRV H/R



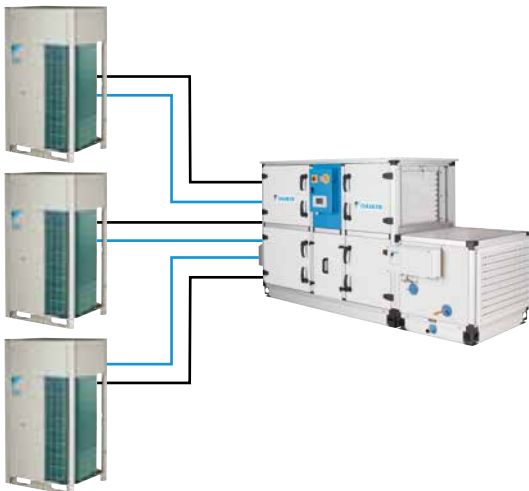
**One VRV IV heat pump (system) connected to the interlaced coil of one AHU through several refrigerant circuits**

- > with W, X and Y control
- > not allowed for VRV H/R and VRV-i



**Several ERQ or VRV IV heat pumps connected to the interlaced coil of one AHU through several refrigerant circuits**

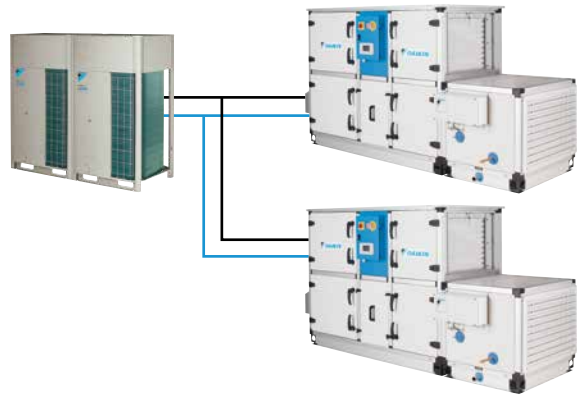
- > with W, X and Y control
- > not allowed for VRV H/R and VRV-i



### Multi application

**One VRV IV heat pump connected to several AHUs**

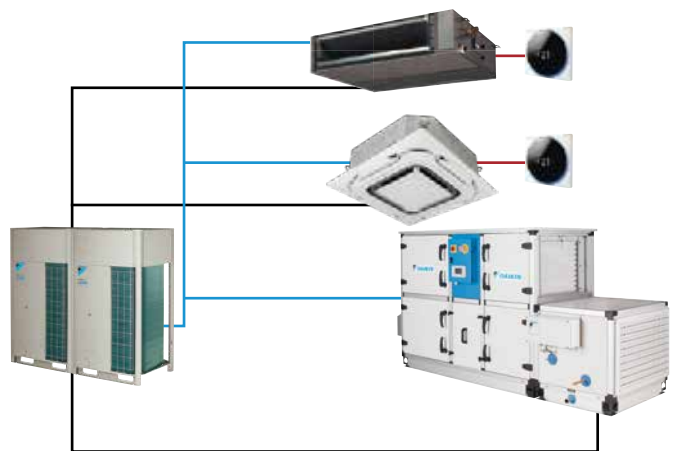
- > with Z control
- > not allowed for VRV H/R
- > no interlaced coil possible



### Mix application

**VRV indoor units and AHU(s) mixed in the same VRV IV heat pump or heat recovery system**

- > with Z control
- > no interlaced coil possible
- > hydrobox not possible



- Refrigerant piping
- F1-F2
- P1-P2



# ERQ - for smaller capacities (from 100 to 250 class)

## A basic fresh air solution for pair application

- › Inverter controlled units
- › Heat pump
- › R-410A
- › Wide range of expansion valve kits available
- › Perfect for the Daikin Modular air handling unit

The "Daikin Fresh Air Package" provides a complete Plug & Play Solution including AHU, ERQ or VRV Condensing Unit and all unit control (EKEQ, EKEX, DDC controller) factory mounted and configured. The easiest solution with only one point of contact.

More details and final information can be found by scanning or clicking the QR codes.



ERQ-AV1



ERQ-AW1



ERQ-AW1

Ventilation				ERQ	100AV1	125AV1	140AV1
Capacity range			HP	4	5	6	
Cooling capacity	Nom.		kW	11.2	14.0	15.5	
Heating capacity	Nom.		kW	12.5	16.0	18.0	
Power input	Cooling	Nom.	kW	2.81	3.51	4.53	
	Heating	Nom.	kW	2.74	3.86	4.57	
EER					3.99		3.42
COP				4.56	4.15		3.94
Dimensions	Unit	HeightxWidthxD	mm	1,345x900x320			
Weight	Unit		kg	120			
Casing	Material			Painted galvanized steel plate			
Fan-Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	106			
	Heating	Nom.	m <sup>3</sup> /min	102	105		
Sound power level	Cooling	Nom.	dBA	66	67		69
Sound pressure level	Cooling	Nom.	dBA	50	51		53
	Heating	Nom.	dBA	52	53		55
Operation range	Cooling	Min./Max.	°CDB	-5/46			
	Heating	Min./Max.	°CWB	-20/15.5			
	On coil temperature	Heating/Min./Cooling/Max.	°CDB	10/35			
Refrigerant	Type			R-410A			
	Charge		kg	4.0			
			TCO <sub>2</sub> eq	8.4			
	GWP			2,087.5			
Piping connections	Control			Expansion valve (electronic type)			
	Liquid	OD	mm	9.52			
	Gas	OD	mm	15.9		19.1	
Drain	OD	mm	26x3				
Power supply	Phase/Frequency/Voltage		Hz/V	1N~/50/220-240			
Current	Maximum fuse amps (MFA)		A	32.0			

Ventilation				ERQ	125AW1	200AW1	250AW1
Capacity range			HP	5	8	10	
Cooling capacity	Nom.		kW	14.0	22.4	28.0	
Heating capacity	Nom.		kW	16.0	25.0	31.5	
Power input	Cooling	Nom.	kW	3.52	5.22	7.42	
	Heating	Nom.	kW	4.00	5.56	7.70	
EER				3.98	4.29		3.77
COP				4.00	4.50		4.09
Dimensions	Unit	HeightxWidthxD	mm	1,680x635x765	1,680x930x765		
Weight	Unit		kg	159	187		240
Casing	Material			Painted galvanized steel plate			
Fan-Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	95	171		185
	Heating	Nom.	m <sup>3</sup> /min	95	171		185
Sound power level	Nom.		dBA	72		78	
Sound pressure level	Nom.		dBA	54	57		58
Operation range	Cooling	Min./Max.	°CDB	-5/43			
	Heating	Min./Max.	°CWB	-20/15			
	On coil temperature	Heating/Min./Cooling/Max.	°CDB	10/35			
Refrigerant	Type			R-410A			
	Charge		kg	6.2	7.7		8.4
			TCO <sub>2</sub> eq	12.9	16.1		17.5
	GWP			2,087.5			
Piping connections	Control			Electronic expansion valve			
	Liquid	OD	mm	9.52			
	Gas	OD	mm	15.9	19.1		22.2
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/400			
Current	Maximum fuse amps (MFA)		A	16		25	



# Integration of ERQ and VRV in third party air handling units

a wide range of expansion valve kits and control boxes

## Combination table

	Control box			Expansion valve kit										Mixed connection with VRV indoor units		
	EKEQDCB	EKEQFCBA	EKEQMCBA	EKE XV50	EKE XV63	EKE XV80	EKE XV100	EKE XV125	EKE XV140	EKE XV200	EKE XV250	EKE XV400	EKE XV500			
	Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	-	-	
1-phase	ERQ100	P (1)	P	-	-	P	P	P	P	P	-	-	-	-	-	Not possible
	ERQ125	P (1)	P	-	-	P	P	P	P	P	-	-	-	-	-	
	ERQ140	P (1)	P	-	-	P	P	P	P	P	-	-	-	-	-	
3-phase	ERQ125	P (1)	P	-	-	P	P	P	P	P	-	-	-	-	-	Not possible
	ERQ200	P (1)	P	-	-	-	-	P	P	P	P	P	-	-	-	
	ERQ250	P (1)	P	-	-	-	-	-	P	P	P	P	-	-	-	
	VRV IV H/P VRV IV C-series VRV IV high ambient VRV IV W-series VRV IV S-series	-	P						P (1) / n2 (1)							Possible (not mandatory)
	VRV IV i-series	-	-													
	VRV IV H/R	-	-						n1							Mandatory (no hydrobox)

- P (pair application) - One or more outdoor units connected to an (interlaced) coil of one AHU. To determine exact configuration please refer to the engineering data book.
- n1 (only mix application) - Combination of (multiple) AHU(s) and VRV DX indoor(s) is mandatory. To determine the exact configuration please refer to the engineering data book.
- n2 (mix or multi application) - Combination of (multiple) AHU(s) with (mix application) or without (multi application) VRV DX indoor(s). To determine the exact configuration please refer to the engineering data book.
- Control box EKEQFA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units or hydroboxes

(1) No interlaced coil possible with Z control

## Capacity table

### Cooling

EKE XV Class	Allowed heat exchanger capacity (kW)			Allowed heat exchanger volume (dm <sup>3</sup> )	
	Minimum	Standard	Maximum	Minimum	Maximum
50	5.0	5.6	6.2	1.33	1.65
63	6.3	7.1	7.8	1.66	2.08
80	7.9	9.0	9.9	2.09	2.64
100	10.0	11.2	12.3	2.65	3.30
125	12.4	14.0	15.4	3.31	4.12
140	15.5	16.0	17.6	4.13	4.62
200	17.7	22.4	24.6	4.63	6.60
250	24.7	28.0	30.8	6.61	8.25
400	35.4	45.0	49.5	9.26	13.2
500	49.6	56.0	61.6	13.2	16.5

Saturated evaporating temperature: 6°C  
Air temperature: 27°C DB / 19°C WB

### Heating

EKE XV Class	Allowed heat exchanger capacity (kW)			Allowed heat exchanger volume (dm <sup>3</sup> )	
	Minimum	Standard	Maximum	Minimum	Maximum
50	5.6	6.3	7.0	1.33	1.65
63	7.1	8.0	8.8	1.66	2.08
80	8.9	10.0	11.1	2.09	2.64
100	11.2	12.5	13.8	2.65	3.30
125	13.9	16.0	17.3	3.31	4.12
140	17.4	18.0	19.8	4.13	4.62
200	19.9	25.0	27.7	4.63	6.60
250	27.8	31.5	34.7	6.61	8.25
400	39.8	50.0	55.0	9.26	13.2
500	55.1	63.0	69.3	13.2	16.5

Saturated condensing temperature: 46°C  
Air temperature: 20°C DB

## EKE XV - Expansion valve kit for air handling applications

Ventilation		EKE XV	50	63	80	100	125	140	200	250	400	500
Dimensions	Unit	mm	401x215x78									
Weight	Unit	kg	2.9									
Sound pressure level	Nom.	dBA	45									
Operation range	On coil temperature	Heating Min. °CDB	10 (1)									
		Cooling Max. °CDB	35 (2)									
Refrigerant	Type / GWP		R-410A / 2.087,5									
Piping connections	Liquid OD	mm	6.35				9.52				12.7	15.9

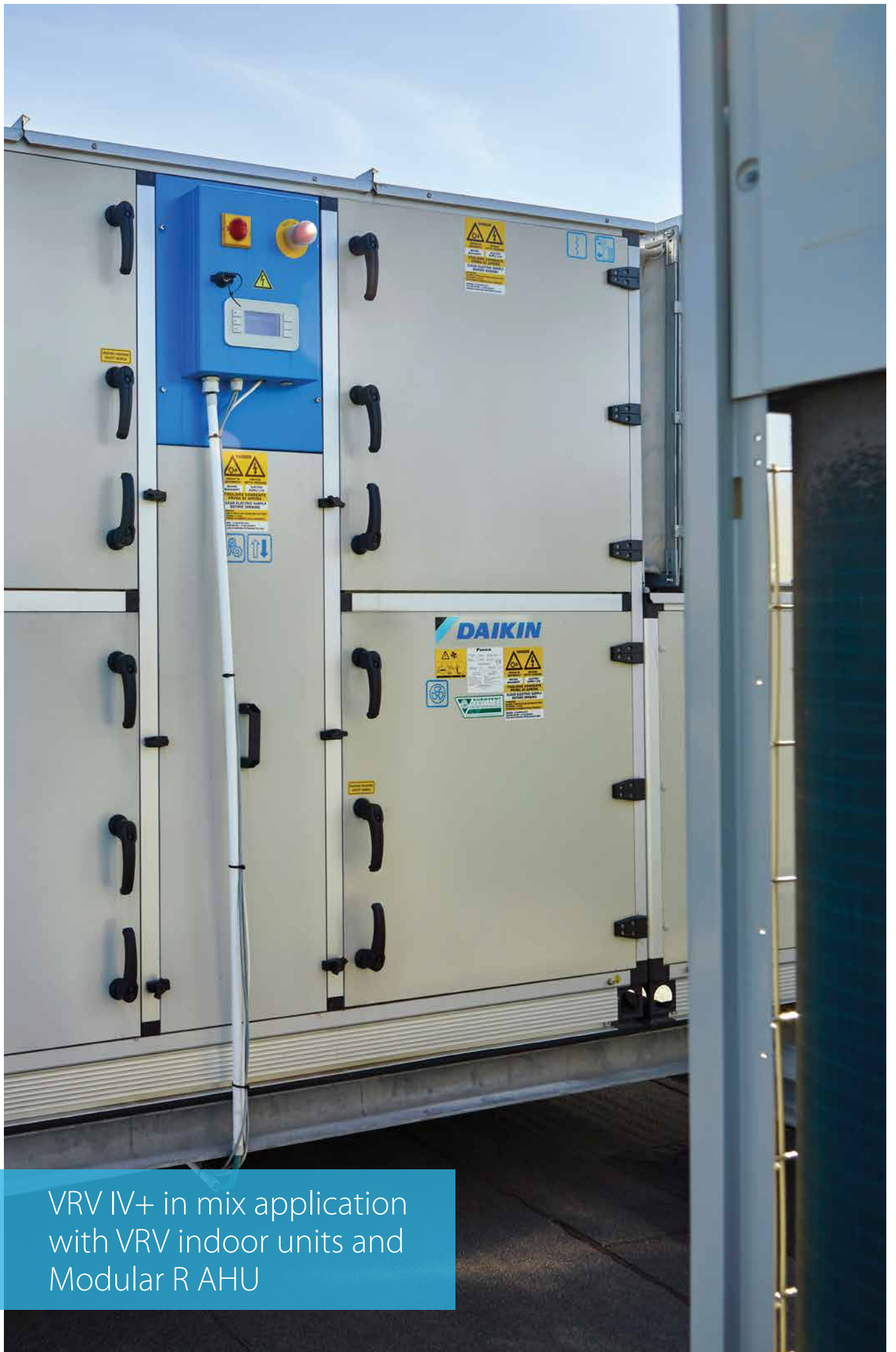
(1) The temperature of the air entering the coil in heating mode can be reduced to -5°CDB. Contact your local dealer for more information. (2) 45% Relative humidity.

## EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	MCBA
Application			Pair	Pair	Pair/Multi/Mix
Outdoor unit			ERQ / VRV	ERQ	VRV
Dimensions	Unit	mm	132x400x200		
Weight	Unit	kg	3.9	3.6	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230		

The combination of EKEQFCBA and ERQ is in pair application. The EKEQFCBA can be connected to some type of VRV IV outdoor units with a maximum of 3 control boxes. The combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor unit for details.





VRV IV+ in mix application  
with VRV indoor units and  
Modular R AHU



## Astropure 2000, Air Purifier for Commercial Applications

### Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- › For areas where additional, extra high, filtration performance is needed.
- › Airflow rate up to 2,000 m<sup>3</sup>/h
- › HEPA H14 filter in accordance with EN1822
- › Pre-filter options up to ISO Coarse 70%
- › Optional UV germicidal irradiation (UVGI)
- › Insulated double-wall construction provides whisper-quiet operation down to 35 dB(A)
- › Easy installation, operation, and maintenance in a totally self-contained system
- › For commercial areas up to 200m<sup>2</sup>



### Models

Model	BR00000554		BR00000749		BR00000676		BR00000751		BR00000678		BR00000752	
Plug type	EU	UK	EU	UK	EU	UK	EU	UK	EU	UK	EU	UK
HEPA Filter (H14)		✓				✓				✓		
LCD Screen						✓				✓		
Activ. Carbon (Gas phase) pre-filter						✓				✓		
UV light										✓		

### Applications:



Schools and Universities



Commercial Buildings



Healthcare



Hospitality



Shops and Shopping malls

### Providing high-efficiency 2-stage filtration

#### Standard prefilter

All units are delivered with a prefilter, increasing filter life and protecting the installed HEPA filter

#### RedPleat - 4531002424

- › Delivered with BR00000554/749
- › ISO 16890: ISO coarse 70%
- › Available with Antimicrobial treated media (RedPleat ULTRA)



#### RedPleat Carb - 4139002424

- › Delivered with BR00000676/751/678/752
- › ISO 16890: ISO coarse 65%
- › Effectively removes offensive odors



#### Main filter

The HEPA filter features eFRM filtration media which combines ultra-high efficiency and particulate loading to remove 99.99% of dust, pollen, mold, bacteria, viruses, and any airborne particle with a size of 0.3 microns or greater.

#### AstroCel III - 1493299990

- › H14 filtration efficiency according EN 1822
- › V-shaped filter configuration, combined with microglass media, delivers higher flow and the lowest possible pressure drop vs traditional box style HEPA filters
- › Compatible with Discrete Particle Counter (DPC) and photometric test methods as access and instrumentation allow



# Astropure 2000, Air Purifier for Commercial Applications

Plug & play, mobile recirculation unit with high efficiency filtration – for better indoor air quality in commercial spaces

- › Airflow rate up to 2000 m<sup>3</sup>/h
- › HEPA H14 filter in accordance with EN1822
- › Optional touch sensitive LCD Display (BR00000676/678/751/751)
- › Optional UV-C light module (BR00000678/752)
- › Insulated double-wall construction provides whisper-quiet operation
- › Activated carbon filter
- › Sliding tray design provides easy access and servicing of filters
- › Designed with internal variable fan speed (electronically commutated) to meet specific application requirements
- › Suitable for in-room use or sheltered outdoor installation
- › CE-compliance, VDI 6022 guided design



More details and final information can be found by scanning or clicking the QR codes.



BR00000554



BR00000676



BR00000678



Ventilation				BR00000554	BR00000749	BR00000676	BR00000751	BR00000678	BR00000752
	Plug type			EU	UK	EU	UK	EU	UK
Features	HEPA Filter (H14)				✓		✓		✓
	LCD Screen						✓		✓
	Activ. Carbon (Gas phase) pre-filter						✓		✓
	UV light								✓
Design air flow rate		m <sup>3</sup> /h	2,000						
Application	Floor standing type								
Casing	Colour	Painted galvanized steel finish							
Dimensions	Unit	HxWxD	mm	1,628 X 720 x 770					
Weight	Unit	kg		150 (depending on version)					
Pre-filter	Dust collecting method	Prefilter RedPleat, ISO Coarse 70%			Prefilter RedPleat Carb, ISO Coarse 65% gas phase filter				
HEPA filter	Bacteria filtering method	Astrocel III HEPA H14							
Air purifying operation	Power input	High fan speed	kW	0.379					
UV-irradiation unit	Power input	kW		-				0.025	
Sound pressure level	Air purifying operation	High fan speed	dB(A)	55.9					
Fan Motor	Stepless adjustable								
Safety devices	Item	Safety switch (operation stops when the back door is open)							
Standard Accessories	Pre-filter	1							
	HEPA filter	1							
	Quick Start and Maintenance Guide	1							
	Installation and Operation Manual	1 (download)							
Power cord	m		3						
Power supply	Phase	1~							
	Frequency	Hz		50/60					
	Voltage	V		230					
Running current	Air purifying operation	High fan speed	A	1.73					

		Heat Recovery Ventilation - Modular L (Smart)						
		ALB02LBS/RBS	ALB03LBS/RBS	ALB04,05 LBS/RBS	ALB06,07 LBS/RBS	VAM 50FC9	VAM 250FC9	VAM 350J8
Individual control systems	BRC301B61 VAM wired remote control	•	•	•	•	•	•	•
	Madoka BRC1H52W (White) / BRC1H52S (Silver) / BRC1H52K (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•	•
	BRC1D52 Standard wired remote control with weekly timer	•	•	•	•	•	•	•
Centralised control systems	DCC601A51 intelligent Tablet Controller	•	•	•	•	•	•	•
	DCS601C51 intelligent Touch Controller	•	•	•	•	•	•	•
	DCS302C51 Central remote control	•	•	•	•	•	•	•
	DCS301B51 Unified ON/OFF control	•	•	•	•	•	•	•
Building Management System & Standard protocol interface	DCM601A51 intelligent Touch Manager	•	•	•	•	•	•	•
	EKMBDXB Modbus interface	•	•	•	•	•	•	•
	DMS502A51 BACnet Interface	•	•	•	•	•	•	•
	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•
Filters	Coarse 55% (G4)	ALF02G4A	ALF03G4A	ALF05G4A	ALF07G4A			
	ePM10 75% (M5)	ALF02M5A	ALF03M5A	ALF05M5A	ALF07M5A			
	ePM10 70% (M6)							EKAFVJ50F6
	ePM1 50% (F7)	ALF02F7A	ALF03F7A	ALF05F7A	ALF07F7A			
	ePM1 60% (F7)							EKAFVJ50F7
	ePM <sub>1</sub> 70% (F8)							EKAFVJ50F8
	ePM1 80% (F9)	ALF02F9A	ALF03F9A	ALF05F9A	ALF07F9A			
	High efficiency filter							
	Replacement air filter							
Mechanical accessories	Rail	ALA02RLA	ALA03RLA	ALA05RLA	ALA07RLA			
	Rectangular to round duct transition	ALA02RCA	ALA03RC	ALA05RCA	ALA07RCA			
	Separate plenum							
<b>CO<sub>2</sub> sensor</b>		BRYMA200	BRYMA200	BRYMA200	BRYMA200			BRYMA65
<b>Electrical heater for pre treatment of fresh air</b>		ALD02HEFB	ALD03HEFB	ALD05HEFB	ALD07HEFB	GSIEKA10009	GSIEKA15018	GSIEKA20024
<b>NEW DX coil for post treatment of fresh air</b>								
<b>Silencer (90mm depth)</b>		ALS0290A	ALS0390A	ALS0590A	ALS0790A			
Electrical accessories	Wiring adapter for external monitoring/control (controls 1 entire system)					KRP2A51 (2)	KRP2A51	KRP2A51 (2)
	Adapter PCB for humidifier							
	Adapter PCB for third party heater					BRP4A50A	BRP4A50A	BRP4A50A (4)
	External wired temperature sensor							
	Adapter PCB Mounting plate					EKMP25VAM	EKMP25VAM	
	Installation box for adaptor PCB					KRP1BB101	KRP1BB101	KRP1BB101

Notes

- (1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, ...; (intelligent Touch Manager, EKMBDXA are allowed)
- (2) Installation box KRP1BB101 needed
- (3) Adapter PCB mounting plate needed, applicable model can be found in the table above
- (4) 3rd party heater and 3rd party humidifier cannot be combined
- (5) Installation box KRP50-2A90 needed
- (6) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)
- (7) Available only with optional plenum
- (8) To be combined with option BRP4A50A using external 230VAC with local supplied circuit breaker (max. 3A)





## Connect with Daikin



If you are a user or installer it is important you can **interact with our systems** in the easiest way, from **anywhere you are**. For any user our interfaces create **peace of mind** that their system is running in the best possible way.

Depending on the type of user and application Daikin develops controls and cloud services to ensure the best experience.

- › For home owners it means **app and voice control** of their home comfort.
- › For hotel owners it means easy and stylish **personal control for guests**, with an integration in hotel booking software for central control
- › For technical managers it means **cloud access** to all sites, with the possibility to benchmark, optimize performance
- › For installers it means **easy transfer of settings during commissioning**, remote retrieval of errors and preventive alerts to save time on maintenance or interventions

Our controls enable you to **connect with your customer**, save time, improve your comfort intelligently and reduce energy bills.







**DAIKIN**



## Remote monitoring



# Control Systems

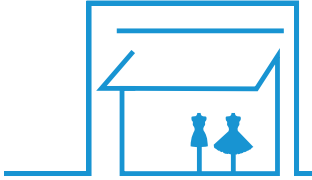
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# Control solutions summary

Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

- > Basic control solutions for those customers with few requirements and limited budget
- > Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
- > Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

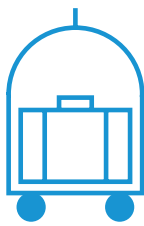
## Shop



	Unit control			Integrating control			Advanced control	
	BRP069*	BRC1H52W/S/K	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	Smartphone control for up to 50 indoor units	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●	●	●
Limit control possibilities for shop staff	●	●	●	●	●	●	●	●
Create zones within the shop			●				●	●
Interlock with eg. Alarm, PIR sensor			●				● (limited)	●
Integration into smart home systems	● (7)							
Integrate Daikin units into existing BMS via Modbus				●		●		
Integrate Daikin units into existing BMS via KNX					●			
Integrate Daikin units into existing BMS via HTTP								●
Monitor energy consumption	● (4)	● (4)					● (2)	●
Advanced energy management							● (2)	● (6)
Allows free cooling								●
Voice control	● (6)							
Integrate Daikin products cross pillars into Daikin BMS								●
Integrate third party products into Daikin BMS							●	●
Online control	●						● (2)	● (3)
Manage multiple sites							● (2)	● (3)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via Daikin cloud service (3) Through own IT set-up (not Daikin cloud server) (4) Not available on all indoors (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (6) Only for BRP069C51, connection to Google Assistant and Amazon Alexa; (7) only for BRP069C51, contact your local sales representative for an overview of available services.

## Hotel









	Unit control	Integrating control	Advanced control	
	BRC1H52W/S/K	RTD-HO	KLIC-DI	DCM010A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 interface for up to 2,500 indoor units
Hotel guest can control & monitor basic functionalities from his room	●	●	● (3)	●
Limit control possibilities for hotel guests	●	●	●	●
Interlock with window contact	● (2)	●		●
Interlock with key-card	● (2)	●		●
Integrate Daikin units into existing BMS via Modbus		●		
Integrate Daikin units into existing BMS via KNX			●	
Integrate Daikin units into existing BMS via HTTP				●
Integrate Daikin unit control in hotel booking software				● Oracle Opera PMS
Monitor energy consumption				●
Advanced energy management				●
Integrate Daikin products cross pillars into Daikin BMS				●
Integrate third party products into Daikin BMS				●
Online control				●

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter (3) requires KNX compatible controller

Office






	Unit control	Integrating control			Advanced control	
						
	BRC1H52W/S/K	EKMBDXB	DMS504B51	DMS502A51	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 unit for 32 indoor unit(s) (groups) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●
Centralised control for management		●	●	●	●	●
Local control for office staff	●				● (4)	● through Web Remote management
Limit control possibilities for office staff	●	●	●	●	●	●
Integrate Daikin units into existing BMS via Modbus		●				
Integrate Daikin units into existing BMS via HTTP						●
Integrate Daikin units into existing BMS via LonTalk			●			
Integrate Daikin units into existing BMS via BACnet				●		
Energy consumption read out	● (3)					
Monitor energy consumption					● (4)	●
Advanced energy management					● (4)	●
PPD software to distribute used kWh/indoor unit				● (6)		● (7)
Integrate Daikin cross pillar products into Daikin BMS						●
Integrate third party products into Daikin BMS					●	●
Online control					● (4)	●
Manage multiple sites					● (4)	● (5)

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) extension (DAM411B51) needed to have up to 256 indoor unit(s) (groups), 40 outdoors (3) Not available on all indoor units (4) Via Daikin cloud service (5) Through own IT set-up (not Daikin cloud sever) (6) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service (7) via DAM412B51 option (7) via DCM002A51 option

Infrastructure cooling



	Unit	Integrating	Advanced
			
	BRC1H52W/S/K	RTD-10	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●
Back-up operation	●	●	●
Duty rotation	●	●	●
Limit control possibilities in the technical cooling room	●	●	●
If room temperature above max., then show alarm & start standby unit.		●	●
If an error occurs, an alarm will be shown.	●	●	●
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	●	Via WAGO I/O

(1) 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to RZQG\*/RZAG\* outdoor units. (3) See option list of indoor unit



# Onecta App

Now available with voice control

The Onecta App is for those who live their life on the go and who want to manage their heating and cooling system from their smartphone.



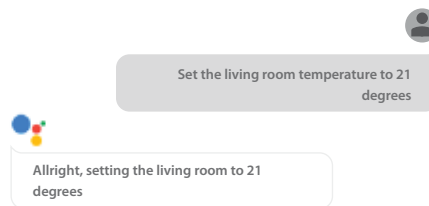
# onecta

**NEW**

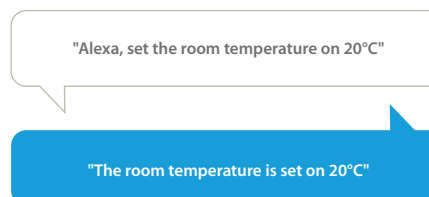
## Voice control

To provide users with even more comfort and ease, the Onecta App now offers voice control. This hands-free feature cuts down on clicks to manage units faster than ever before.

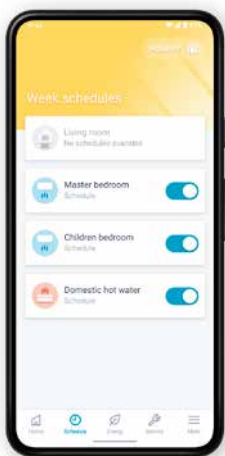
Cross-functional and multilingual, voice control pairs well with any smart device, including Google Assistant and Amazon Alexa.



Example of using the voice control via Google Assistant



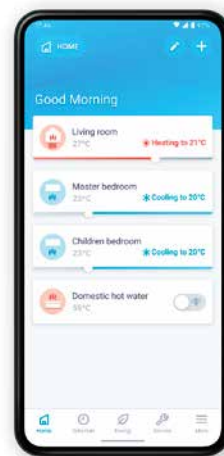
Example of using the voice control via Amazon Alexa



## Schedule

Set up a programme outlining when the system should operate, and create up to six actions per day.

- Schedule room temperature and operation mode
- Enable holiday mode to save costs



## Control

Customise the system to fit your lifestyle and year-round comfort levels.

- Change room and domestic hot water temperature
- Turn on powerful mode to boost hot water production



## Monitor

Receive a thorough overview of how the system is performing and how much energy it consumes.

- Check the status of the heating system
- Access energy consumption graphs (day, week, month)

Function availability depends on the system type, configuration and operation mode. The app functionality is only available if both the Daikin system and the app have a reliable internet connection.



Scan the QR code to download the app now



### Daikin Online Controller connectable units

BRP069C51 \*  
VRV 5 indoor units

- |          |          |
|----------|----------|
| > FXFA-A | > FXAA-A |
| > FXZA-A | > FXMA-A |
| > FXDA-A | > FXHA-A |
| > FXSA-A | > FXUA-A |

\* Must be combined with BRC1H52W/S/K

## Madoka wired remote controller

# Madoka

# The beauty of simplicity.



Silver  
RAL 9006 (metallic)  
BRC1H52S



Black  
RAL 9005 (matte)  
BRC1H52K



White  
RAL9003 (glossy)  
BRC1H52W

## User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- › Sleek and elegant design
- › Intuitive touch-button control
- › Three display options: standard, detailed and **new symbolic view**
- › Three colours to match any interior
- › Compact, measures only 85 x 85 mm
- › Advanced settings **copy function** and commissioning via smartphone
- NEW** › CO<sub>2</sub> concentration visualisation



reddot award 2018  
winner





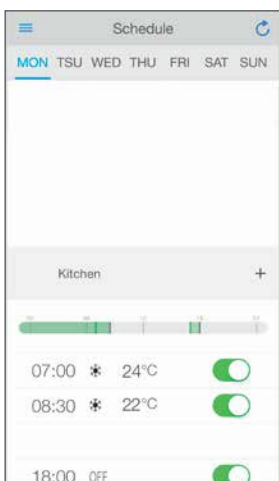
# Madoka Assistant



Simplifies the advanced settings such as schedule or set point limitation

- Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.
- Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- Easy and quick commissioning
- Featuring Bluetooth® low energy technology

Easy setting of schedules



Advanced user settings



**NEW**

Bluetooth strength indication



Field settings



BRC1H519W7 / BRC1H519S7 / BRC1H519K7

# Madoka wired remote controller for Sky Air and VRV



BRC1H52W  
Symbolic view



BRC1H52S  
Standard view



BRC1H52K  
CO<sub>2</sub> visualisation

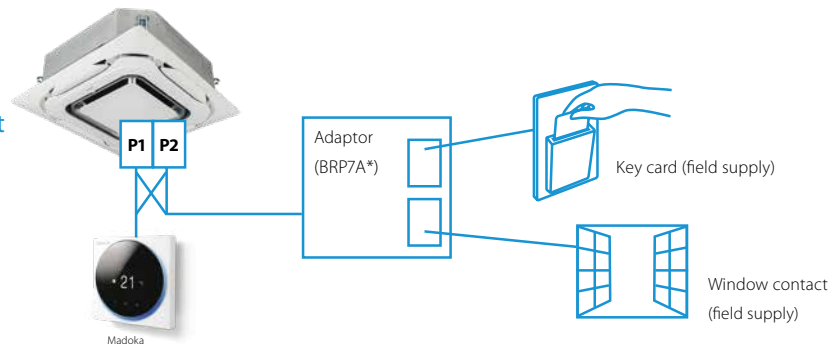
## A complete redesigned controller focussed to enhance user experience

- › Sleek and elegant design
- › Intuitive touch-button control
- › Three display options: standard, detailed and **new symbolic view**
- › Direct access to basic functions (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset, error & code)
- › Three colours to match any interior
- › Compact, measures only 85 x 85 mm
- › Real time clock with auto update to daylight saving time

### Hotel application features

- › Energy saving through key card, window contact integration and set point limitation (BRP7A\*)
- › Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort

### Key card and window contact integration



## Madoka Assistant: Advanced settings can be easily done via your smartphone



### A range of energy-saving functions that can be selected individually

- › Temperature range restriction: Save on energy by setting the low temperature limit in cooling mode and the high temperature limit in heating mode (1)
- › Setback function
- › Adjustable presence detector and floor sensor (available on the Round Flow and Fully Flat Cassettes)
- › Automatic temperature reset
- › Auto off timer

### Kilowatt-hour consumption tracking (2)

The kWh indicator displays indicative power consumption for the last day/month/year.

### Other functions

- › **NEW** Three user access levels: Basic user, Advanced and Installer to match user requirements and prevent improper use.
- › Save field settings and schedules on your phone and upload to multiple controllers, saving time and cost
- › **NEW** Mark frequently used menu's as favourites for direct access
- › Up to three independent schedules can be programmed, allowing you to switch easily between them throughout the year (e.g. summer/winter/mid-season)
- › Menu settings can be individually locked or restricted
- › The outdoor unit can be set to quiet mode and power consumption limit control by schedule (3)
- › Real-time clock that updates automatically for daylight saving



### Cost-effective solution for infrastructure cooling applications

- › Only in combination with RZAG\* / RZQG\*
- › Duty rotation

After a certain period of time, the operating unit will go into standby and the standby unit will take over, extending the system lifetime. Rotation interval can be set for 6, 12, 24, 72 or 96 hours, as well as weekly.

- › Back-up operation: if one unit fails, the other unit will start automatically

(1) Also available in auto cooling/heating changeover mode  
(2) For Sky Air FBA, FCAG and FCAHG pair combinations only

(3) Only available on RZAG\*, RZASG\*, RZQG\*, RZQSG\*



## BRC1E53A/B/C

## User friendly remote control for Sky Air and VRV



Graphical display of indicative electricity consumption (Function available in combination with FBA-A, FCAG and FCAHG)



## A series of energy saving functions that can be individually selected

- › Demand control (1)
- › Temperature range limit
- › Setback function
- › Presence & floor sensor connection (available on round flow and fully flat cassette)
- › kWh indication (2)
- › Set temperature auto reset
- › Off timer

## Cost-effective solution for infrastructure cooling applications

- › Only in combination with RZAG\* / RZQG\*

(1) Only available on RZAG\*, RZASG\*, RZQG\*, RZQSG\* | (2) For Sky Air FBA, FCAG and FCAHG pair combinations only

## Other functions

- › Up to 3 independent schedules
- › Possibility to individually restrict menu functions
- › Choice of display between symbol or text
- › Real time clock with auto update to daylight saving time
- › Built-in backup power for clock (up to 48 hours). Settings are always kept in case of power loss.
- › Supports multiple languages:  
BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portuguese  
BRC1E53B: English, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian  
BRC1E53C: English, Greek, Russian, Turkish, Polish, Slovak, Albanian

## BRC1D52

## Wired remote control for Sky Air and VRV



BRC1D52

- › Schedule timer: Five day actions can be set
- › Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- › User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- › Immediate display of fault location and condition
- › Reduction of maintenance time and costs

## ARC4\*/BRC4\*/BRC7\*

## Infrared remote control



ARC466A1 BRC4\*/BRC7\*

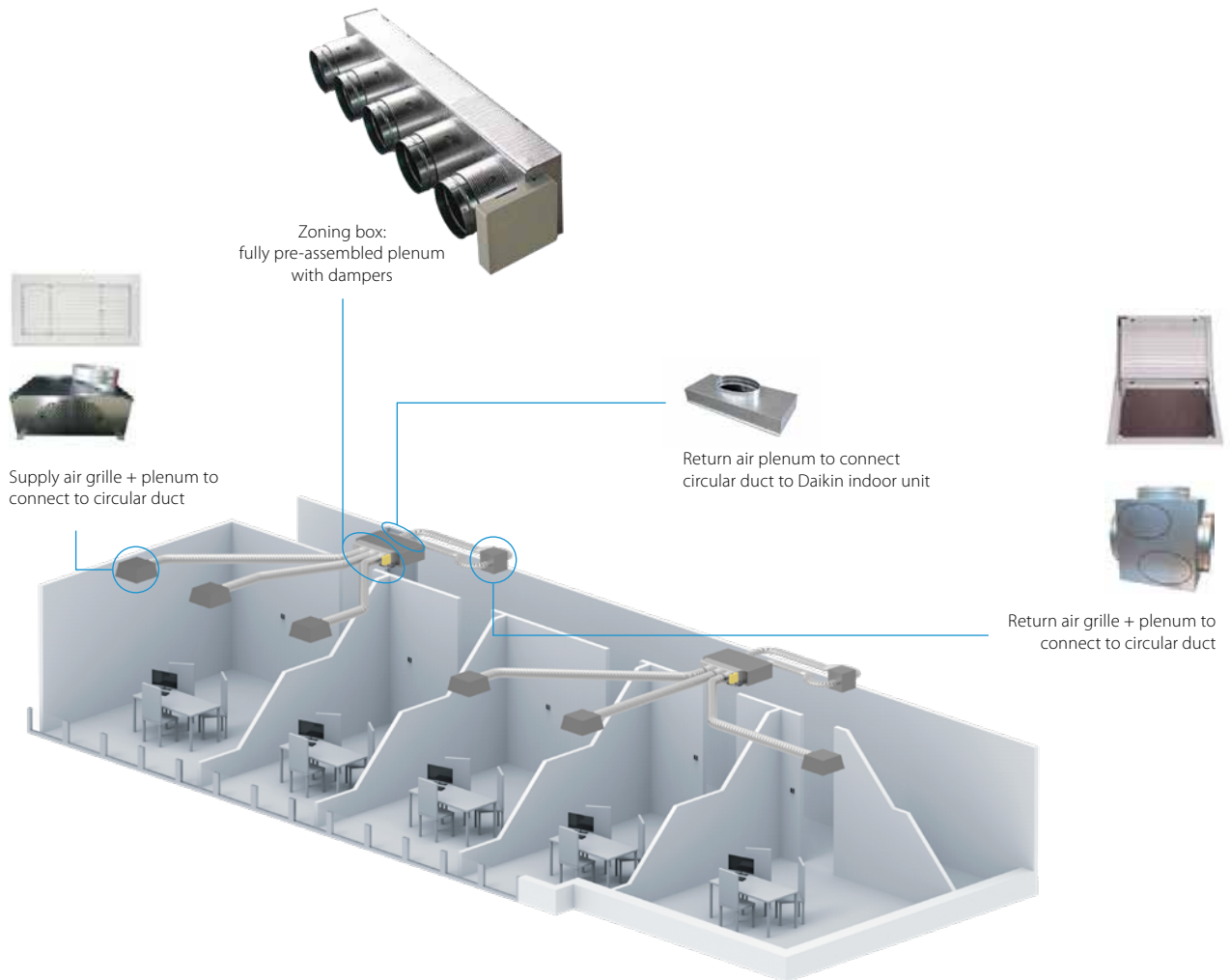
Operation buttons: ON/OFF, timer mode start/stop, timer mode on/off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/test indication (2)

Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection/test operation (2)

1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXM, FBA
2. For FX\*\* units only
3. For all features of the remote control, refer to the operation manual

# Multi-zone controller

The multi-zoning system is a room-by-room controller. It is fitted with motorised dampers, which immediately adapt using Daikin ducted solutions. This system supports control of up to 8 zones connected to one indoor unit via a centralised thermostat located in the main room and individual thermostats for each of the zones.



## Compatibility

			SkyAir												VRV														
			FDXM-F9				FBA-A(9)				ADEA-A				FXDQ-A3						FXSQ-A								
Number of motorised dampers	Reference	Dimensions H x W x D (mm)	25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	71	80	100	125	140	
Standard Ceiling Void	2	AZEZ6DAIST07XS2																											
		AZEZ6DAIST07S2																											
	3	AZEZ6DAIST07XS3																											
		AZEZ6DAIST07S3																											
	4	AZEZ6DAIST07S4																											
		AZEZ6DAIST07M4																											
		AZEZ6DAIST07M5																											
	5	AZEZ6DAIST07L5																											
		AZEZ6DAIST07M6																											
		AZEZ6DAIST07L6																											
Compact Ceiling Void	2	AZEZ6DAISL01S2																											
	3	AZEZ6DAISL01S3																											
	4	AZEZ6DAISL01M4																											
		AZEZ6DAISL01M4																											
	5	AZEZ6DAISL01L5																											
		AZEZ6DAISL01L5																											
		AZEZ6DAISL01L5																											
		AZEZ6DAISL01L5																											

# Controls

3 controller versions are available to choose from: Colour, touch or simplified



AZCE6BLUEZEROCB (Wired)

- Bluezero - main thermostat**
- › Intuitive graphical, colour touch screen for controlling multiple zones



AZCE6THINKCB (Wired)  
AZCE6THINKRB (Wireless)

- Think - zone thermostat**
- › Graphic touch button with low-energy e-ink screen for controlling single zones



AZCE6LITECB (Wired)  
AZCE6LITERB (Wireless)

- Lite - zone thermostat**
- › Simplified thermostat with touch buttons for temperature control

› Optional bus cable (2 x 0.5 mm<sup>2</sup> | 2 x 0.22 mm<sup>2</sup>), 15 m length: AZX6CABLEBUS15, 100m length: AZX6CABLEBUS100



AZX6WSPHUB

- Webserver for remote control**
- › Cloud based remote control of multizoning kit(s)
  - › Configuration and control of zones (temperature, operation mode, ...)
  - › Access via webportal, or Android/IOS application
  - › Supports Ethernet and WIFI
  - › AZX6WSPHUB:
    - › For installation on DIN rail
    - › 32 zoning boxes can be controlled
  - › AZX6WSC5GER:
    - › For installation in the unit
    - › Controls one zoning box



AZX6WSC5GER



AZX6WSPBAC

**BACnet or KNX gateway**

- › Allows ON/OFF control of each zone
- › Control of temperature for each zone
- › Status indication of operation mode
- › One gateway needed per system



AZX6KNXGTWAY

# Grilles and plenums

## Supply air grilles and plenums



RDHV040015BKX

- Wall type supply grille**
- › With horizontal and vertical adjustable flaps



RLQV040015BKX

- Ceiling type supply grille**
- › With horizontal flaps angled at 15°
  - › Vertical flaps can be adjusted manually



PREJ0400150T

- Plenum for supply grille**
- › To connect circular ducts to discharge grille
  - › Insulated, galvanised steel
  - › Diameter 250mm

## Return air grilles and plenums



RRFR050050BTX

- Return air grille with integrated filter**
- › Filters particles from the air



BR500

- Plenum for return grille**
- › To connect 1 up to 4 circular ducts to the return air grille
  - › Diameter 250mm



AZCEZDAPR07\*

- Plenum for return air**
- › To connect 1 up to 4 circular ducts to the Daikin concealed ceiling units
  - › Diameter 250mm
  - › Different sizes (XS, S, M, L, XL) to fit the indoor unit

DCC601A51

**Intelligent Controller**

# Advanced centralised controller with Cloud connection

- Intuitive and user-friendly interface
- Flexible concept for stand alone and multi site applications
- Total solution thanks to integration of 3rd party equipment
- Monitor & control your small commercial building, no matter where you are

## 2 solutions:

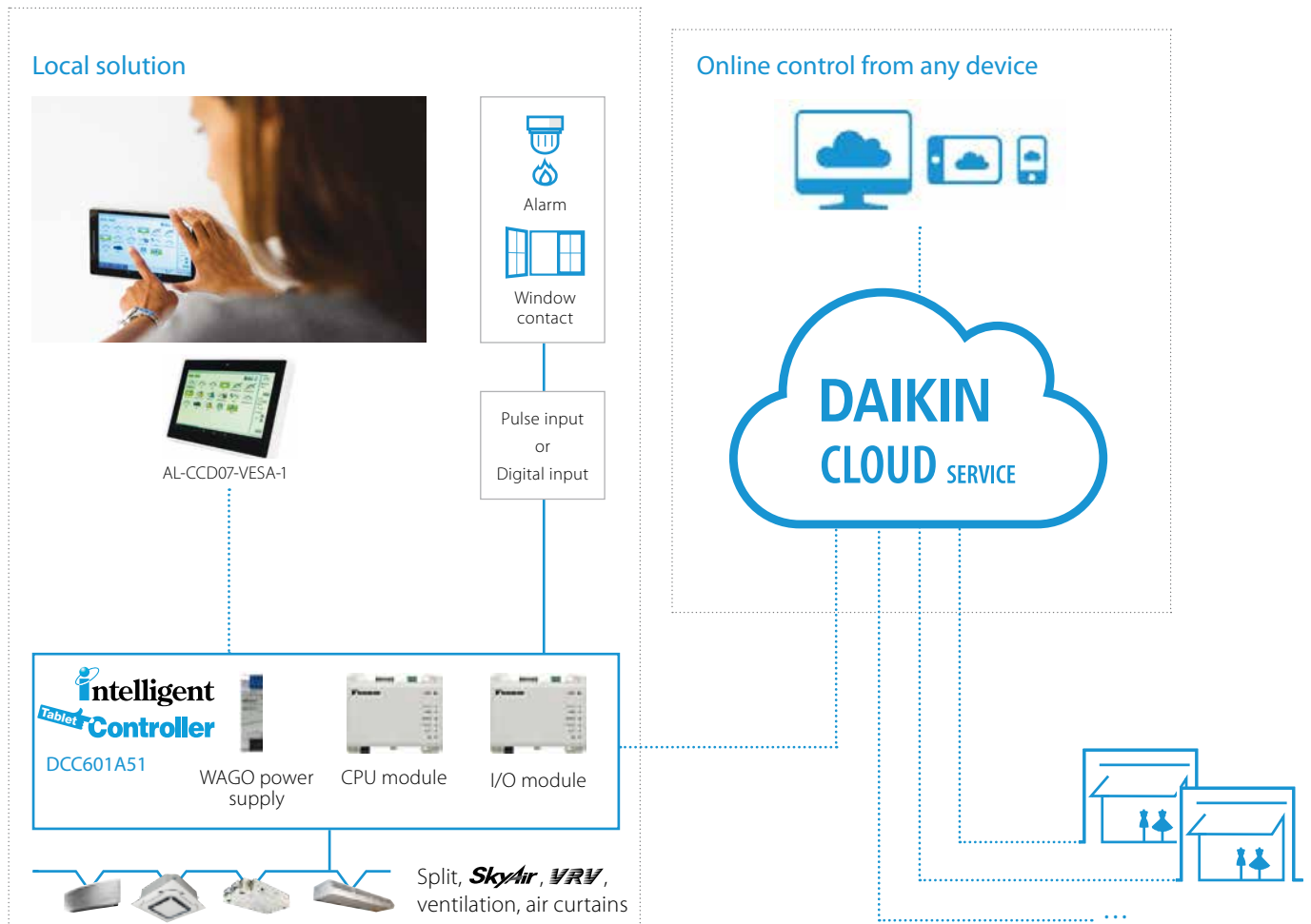
### Local solution

- › Offline centralised control
- › Stylish optional screen fits any interior

### Cloud solution

- › Flexible online control from any device (Laptop, tablet...)
- › Monitor & control one or multiple sites
- › Benchmark the energy consumption of different installations (1)
- › Energy consumption follow-up to comply with local regulations

## System layout



(1) For VRV and Sky Air R-32 ranges the consumption data is integrated; for other (HVAC) systems, field supplied kWh meters will be required

**Total solution**

- › Total solution thanks to a large integration of Daikin products and 3rd party equipment
- › Connect a wide range of units (Split, Sky Air, VRV, Ventilation, Biddle air curtains)
- › Simply control your entire building centrally
- › Increased customer shopping experience by better management of your shop comfort level

**Daikin Cloud Services**

- › Control your building no matter where you are
- › Monitor and control multiple sites
- › Installer or technical manager can remotely login to the cloud for first trouble-shooting
- › Benchmark the energy consumption of different installations (1)
- › Manage & track your energy use

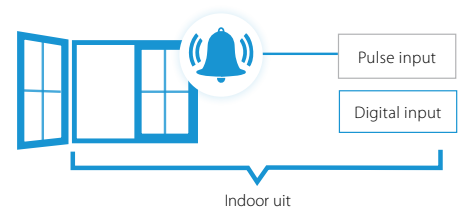
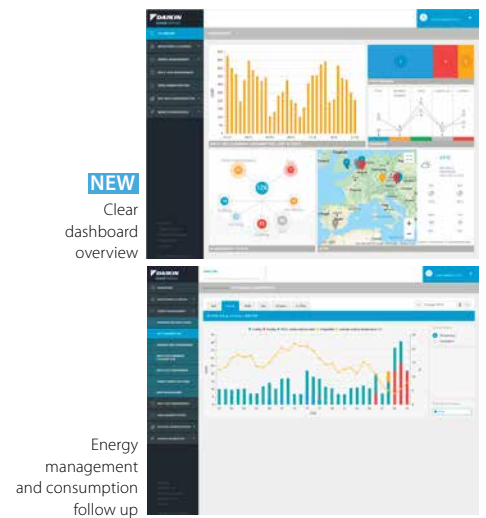
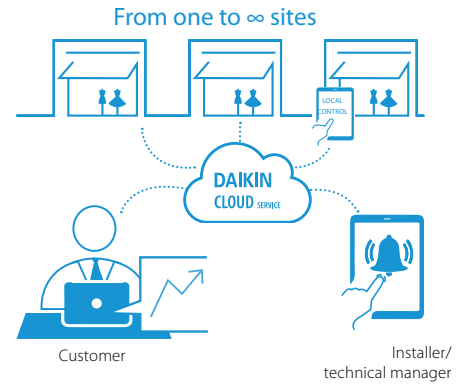
**User friendly touch control**

- › Stylish Daikin supplied optional screen for local control fits any interior
- › Intuitive and user-friendly interface
- › Full solution with simple control
- › Easy commissioning

**Flexible**

- › Pulse/digital inputs for 3rd party equipment such as kWh meters, emergency input, window contact, ...
- › Modular concept allows your cloud to grow with your business
- › Control up to 32 indoor units per controller and 320 units per site

(1) only available in combination with certain indoor units



**Functions overview**

		Local solution	Cloud solution
<b>Languages</b>		Depends on local device	EN, DE, FR, NL, ES, IT, EL, PT, RU, TR, DA, SV, NO, FI, CS, HR, HU, PL, RO, SL, BG, SK
<b>System layout</b>	N° of connectable indoor units	32	32
	Multiple sites control		•
<b>Monitoring &amp; control</b>	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, ...)	•	•
	Remote control prohibition	•	•
	All devices ON/OFF	•	•
	Zone control		•
	Group control	•	•
	Weekly schedule	•	•
	Yearly schedule		•
	Interlock control	•	•
	Set point limitation		•
	Visualisation of energy use per operation mode		•
<b>Connectable to</b>	DX split, Sky Air, VRV	•	•
	Modular L Smart, VAM, VKM ventilation	•	•
	Air curtains	•	•

For available Daikin Cloud Service options refer to the option list





# Mini BMS

with full integration  
across all product pillars

DCM601A51



- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment



Download the WAGO  
selection tool from  
[my.daikin.eu](http://my.daikin.eu)

- › Easy selection of WAGO materials
- › Material list creation
- › Time saving
  - Includes wiring schemes
  - Contains commissioning/preset data for iTM

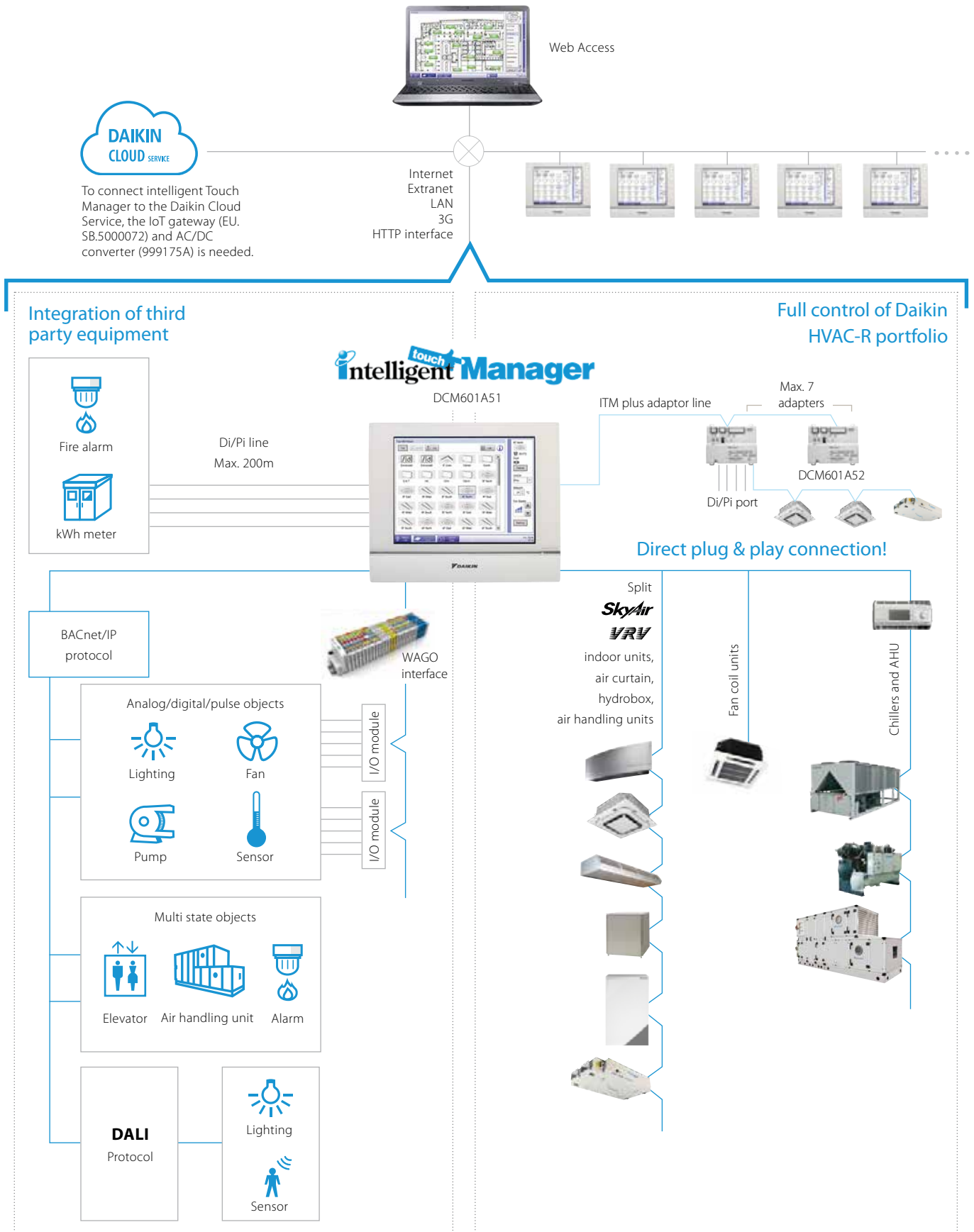


Check on  
**You Tube**

[https://www.youtube.com/  
DaikinEurope](https://www.youtube.com/DaikinEurope)



# System overview

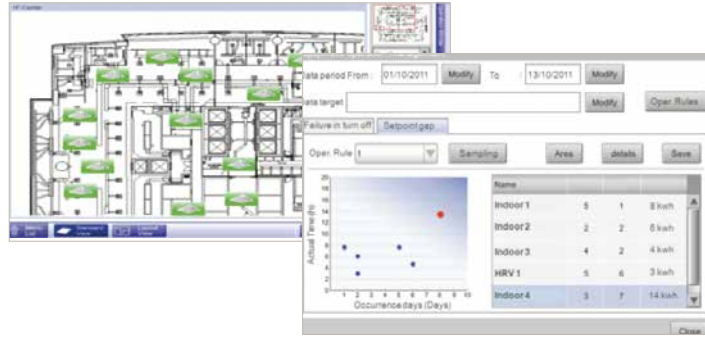


## Centralised control systems



### User friendliness

- › Intuitive user interface
- › Visual lay out view and direct access to indoor unit main functions
- › All functions direct accessible via touch screen or via web interface



### Smart energy management

- › Monitoring if energy use is according to plan
- › Helps to detect origins of energy waste
- › Powerful schedules guarantee correct operation throughout the year
- › Save energy by interlocking A/C operation with other equipment such as heating

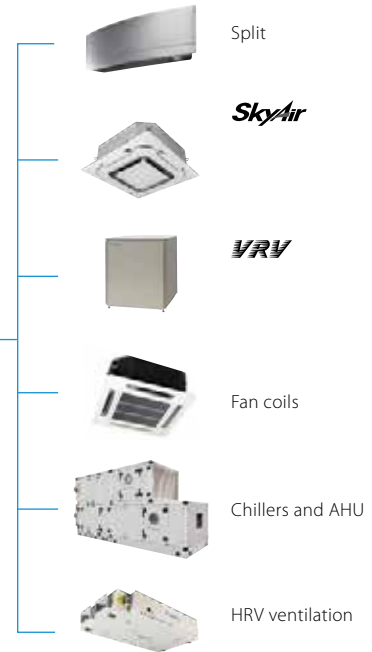
### Flexibility

- › Cross-pillar integration (heating, air conditioning, applied systems, refrigeration, air handling units)
- › BACnet protocol for 3rd party products integration
- › I/O for integration of equipment such as lights, pumps... on WAGO modules
- › Modular concept for small to large applications
- › Control up to 512 indoor unit groups via one ITM and combine multiple ITM via web interface

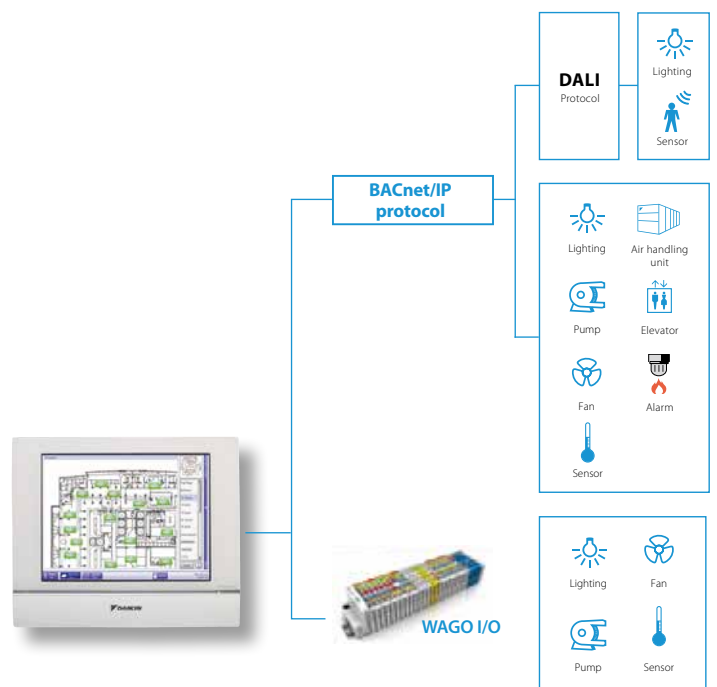
### Easy servicing and commissioning

- › Remote refrigerant containment check reducing on site visit
- › Simplified troubleshooting
- › Save time on commissioning thanks to the pre-commissioning tool
- › Auto registration of indoor units

### Plug & play



Flexibility in size  
64 up to 512 groups



# Functions overview

## Languages

- › English
- › French
- › German
- › Italian
- › Spanish
- › Dutch
- › Portuguese

## Management

- › Web access via html 5
- › Power Proportional Distribution (option)
- › Operational history (malfunctions, ...)
- › Smart energy management
  - monitor if energy use is according to plan
  - detect origins of energy waste
- › Setback function
- › Sliding temperature

## WAGO Interface

- › Modular integration of 3rd party equipment
- › Large variety of input and outputs available. For more details refer to the options list

## Open http interface

- › Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

## System layout

- › Up to 512 unit groups can be controlled (ITM + 7 iTM Plus adapters)

## Control

- › Individual control (512 groups)
- › Schedule setting (Weekly schedule, yearly calendar, seasonal schedule)
- › Interlock control
- › Setpoint limitation
- › Temperature limit

## DALI integration

- › Control and monitor the lights
- › Easier facility management: receive error signal when light or light controller has a malfunction
- › Flexible approach and less wiring needed, compared to classic light scheme
- › Easier to make groups and control scenes
- › Connection between intelligent Touch Manager and DALI through WAGO BACnet / IP interface

## Connectable to

- DX Split, Sky Air, VRV
- HRV
- Chillers (via MT3-EKCBACIP controller)
- Daikin AHU (via MT3-EKCBACIP controller)
- Fan coils
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51)



## Centralised remote controller

Centralised control of the Sky Air and VRV system can be achieved via 2 user friendly compact remote controllers. These controls may be used independently or in combination with:

1 group = several (up to 16) indoor units in combination

1 zone = several groups in combination.

A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).

### DCS302C51

## Centralised remote control



Providing individual control of 64 groups (zones) of indoor units.

- > a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- > a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- > zone control
- > group control
- > malfunction code display
- > maximum wiring length of 1,000m (total: 2,000m)
- > air flow direction and air flow rate of HRV can be controlled
- > expanded timer function

### DCS301B51

## Unified ON/OFF control



Providing simultaneous and individual control of 16 groups of indoor units.

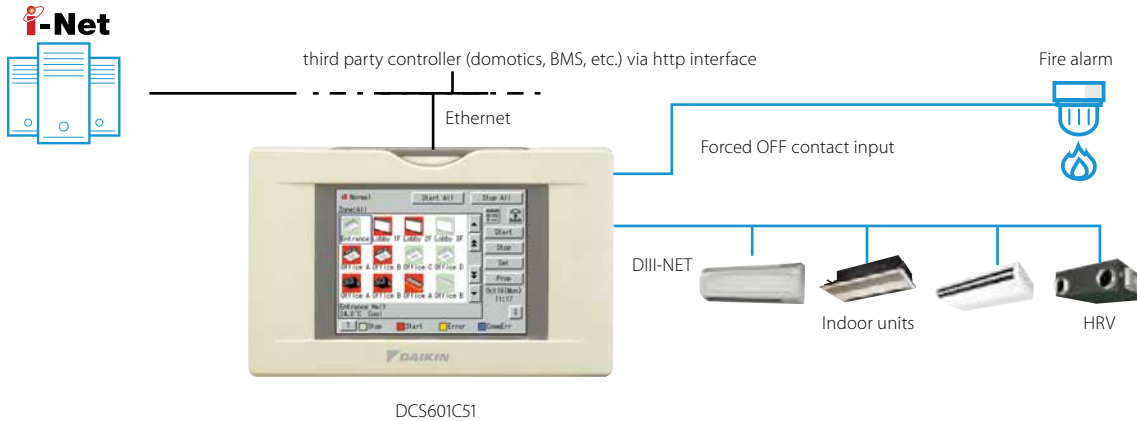
- > a maximum of 16 groups (128 indoor units) can be controlled
- > 2 remote controls in separate locations can be used
- > operating status indication (normal operation, alarm)
- > centralised control indication
- > maximum wiring length of 1,000m (total: 2,000m)



## DCS601C51



Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



### Languages

- › English
- › French
- › German
- › Italian
- › Spanish
- › Dutch
- › Portuguese

### System layout

- › Up to 64 indoor units can be controlled
- › Touch panel (full colour LCD via icon display)

### Control

- › Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
- › Set back schedule
- › Enhanced scheduling function (8 schedules, 17 patterns)
- › Flexible grouping in zones
- › Yearly schedule
- › Fire emergency stop control
- › Interlocking control
- › Increased HRV monitoring and control function
- › Automatic cooling / heating change-over
- › Heating optimization
- › Temperature limit
- › Password security: 3 levels (general, administration & service)
- › Quick selection and full control
- › Simple navigation

### Monitoring

- › Visualisation via Graphical User Interface (GUI)
- › Icon colour display change function
- › Indoor units operation mode
- › Indication filter replacement

### Cost performance

- › Free cooling function
- › Labour saving
- › Easy installation
- › Compact design: limited installation space
- › Overall energy saving

### Open interface

- › Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option DCS007A51)

### Connectable to

- › VRV
- › HRV
- › Sky Air
- › Split (via interface adapter)

## Standard protocol interfaces

### RTD

## Modbus Interface

### RTD-RA

- › Modbus interface for monitoring and control of residential indoor units

### RTD-NET

- › Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

### RTD-10

- › Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
  - Modbus
  - Voltage (0-10V)
  - Resistance
- › Duty/standby function for server rooms

### RTD-20

- › Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- › Clone or independent zone control
- › Increased comfort with integration of CO<sub>2</sub> sensor for fresh air volume control
- › Save on running costs via
  - pre/post and trade mode
  - set point limitation
  - overall shut down
  - PIR sensor for adaptive deadband

### RTD-HO

- › Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
- › Intelligent hotel room controller

### RTD-W

- › Modbus interface for monitoring and control of Daikin Altherma Flex Type, VRV HT hydrobox and small inverter chiller

### DCOM-LT/MB

- › Modbus interface of Daikin Altherma air-to-water heat pumps, hybrid heat pumps and ground source heat pumps

### DCOM/LT-IO

- › Voltage & resistance control in addition to Modbus



## Overview functions



Main functions		RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions	H x W x D mm	80 x 80 x 37,5			100 x 100 x 22	
Key card + window contact						✓
Set back function		✓				
Prohibit or restrict remote control functions (setpoint limitation, ...)		✓	✓	✓	✓**	✓
Modbus (RS485)		✓	✓	✓	✓	✓
Group control		✓(1)	✓	✓	✓	✓
0 - 10 V control				✓	✓	
Resistance control				✓	✓	
IT application		✓		✓	✓	
Heating interlock				✓	✓	
Output signal (on/defrost, error)				✓	✓****	✓
Retail application					✓	
Partitioned room control					✓	
Air curtain			✓***	✓***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
Fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control	M	M	M,V,R	M	M*
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				

Monitoring functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
Fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
N° of units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Thermo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	M	M	M	M



Main functions		RTD-W
Dimensions	H x W x D mm	100x100x22
On/off prohibition		✓
Modbus RS485		✓
Dry contact control		✓
Output signal (operation error)		✓
Space heating / cooling operation		✓
Domestic hot water control		✓
Smart Grid control		

Control functions	RTD-W
On/Off Space heating/cooling	M,C
Set point leaving water temperature (heating / cooling)	M,V
Room temperature setpoint	M
Operation mode	M
Domestic Hot water ON	
Domestic Hot Water reheat	M,C
Domestic Hot Water reheat setpoint	
Domestic Hot Water storage	M
Domestic Hot Water Booster setpoint	
Quiet mode	M,C
Weather dependent setpoint enable	M
Weather dependent curve shift	M
Fault/pump info relay choice	
Control source prohibition	M

Smart grid mode control	RTD-W
Prohibit Space heating/cooling	
Prohibit DHW	
Prohibit Electric heaters	
Prohibit All operation	
PV available for storage	
Powerful boost	

Monitoring functions	RTD-W
On/Off Space heating/cooling	M,C
Set point leaving water temperature (H/C)	M
Room temperature setpoint	M
Operation mode	M
Domestic Hot Water reheat	M
Domestic Hot Water storage	M
Number of units in the group	M
Average leaving water temperature	M
Remocon room temperature	M
Fault	M,C
Fault code	M
Circulation pump operation	M
Flow rate	
Solar pump operation	
Compressor status	M
Desinfection operation	M
Setback operation	M
Defrost/ start up	M
Hot start	
Booster Heater operation	
3-Way valve status	
Pump running hours accumulated	M
Compressor running hours accumulated	
Actual leaving water temperature	M
Actual return water temperature	M
Actual DHW tank temperature (*)	M
Actual refrigerant temperature	
Actual outdoor temperature	M

M : Modbus / R : Resistance / V : Voltage / C: control  
 \* : only when room is occupied / \*\* : setpoint limitation / (\*) if available  
 \*\*\* : no fan speed control on the CVY air curtain / \*\*\*\* : run & fault

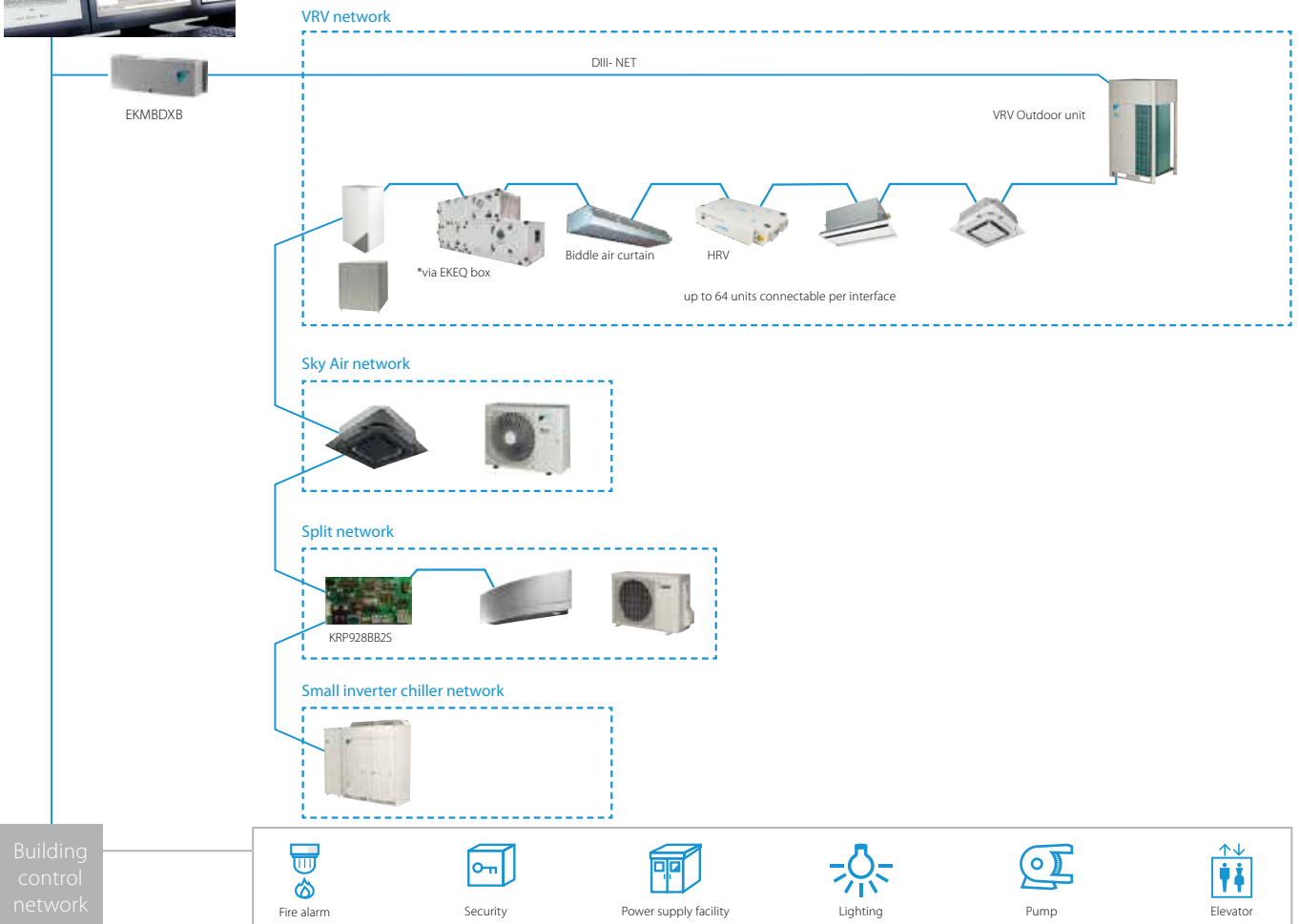
EKMBDXB

# DIII-net Modbus interface



Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

- > Communication via Modbus RS485 protocol
- > Detailed monitoring and control of the VRV total solution
- > Easy and fast installation via DIII-net protocol
- > As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor units systems).



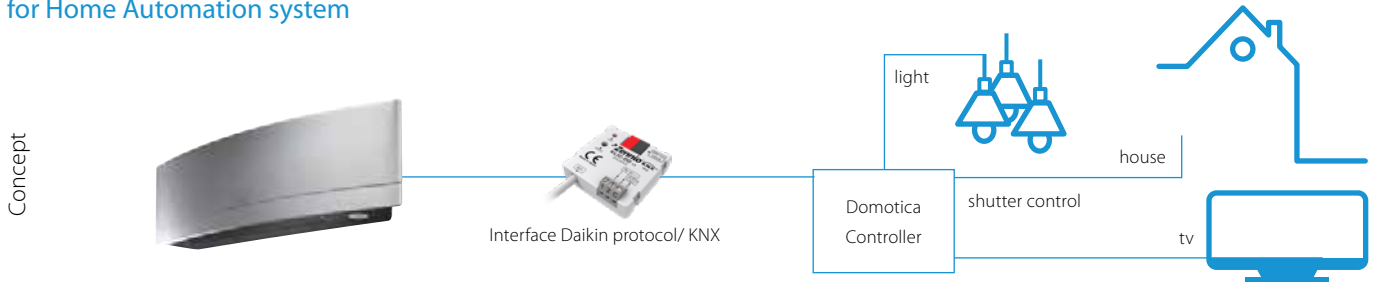
			EKMBDXB7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KLIC-DDV3  
KLIC-DI\_V2

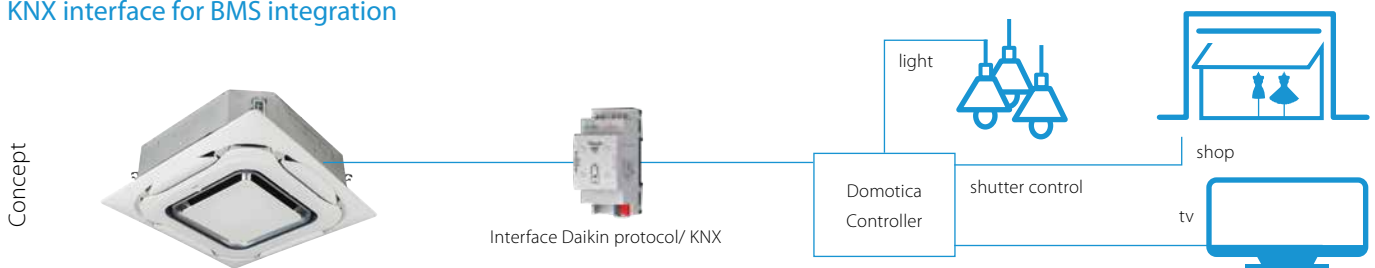
# KNX interface

## Integration of Split, Sky Air and VRV in HA/BMS systems

### Connect split indoor units to KNX interface for Home Automation system



### Connect Sky Air / VRV indoor units to KNX interface for BMS integration





## KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scene'

- such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

## KNX interface for

	 <b>KLIC-DDV3 size 45x45x15mm</b>	 <b>KLIC-DI_V2 size 90x60x35mm</b>	
	<b>Split</b>	<b>Sky Air</b>	<b>VRV</b>
<b>Basic control</b>			
On/Off	●	●	●
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	●	●	●
Fan speed levels	3 or 5 + auto	2 or 3	2 or 3
Swing	Stop or movement	Stop or movement	Swing or fixed positions (5)
<b>Advanced functionalities</b>			
Error management	Communication errors, Daikin unit errors		
Scenes	●	●	●
Auto switch off	●	●	●
Temperature limitation	●	●	●
Initial configuration	●	●	●
Master and slave configuration		●	●



DCM010A51

## PMS Interface

# Hotel interface connecting Daikin HVAC with Oracle

## Property Management Systems



Room view showing room status: check-in, check-out, pre-heating / cooling status, room temperature and A/C status

HVAC settings can be easily observed and changed by the reception desk

Multiple room types (bed-room, meeting room, ...) can be defined with customized A/C settings for each type

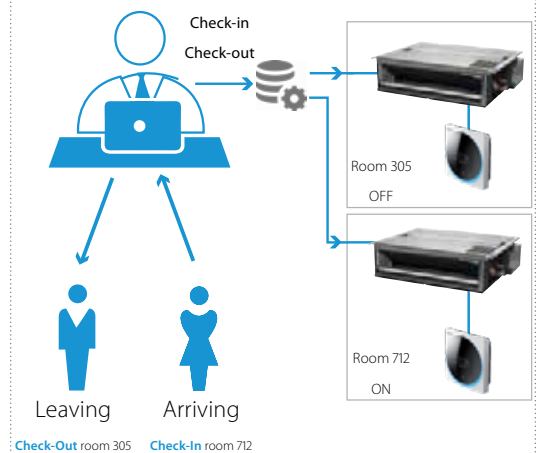
## Features

- User-friendly interface for easy front desk support in hotels, conference centers, ...
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- Energy saving thanks to the possibility to limit temperature setpoint
- Up to 5 customized operation profiles based on weather conditions
- Available in 23 languages
- Up to 2,500 units / rooms can be managed

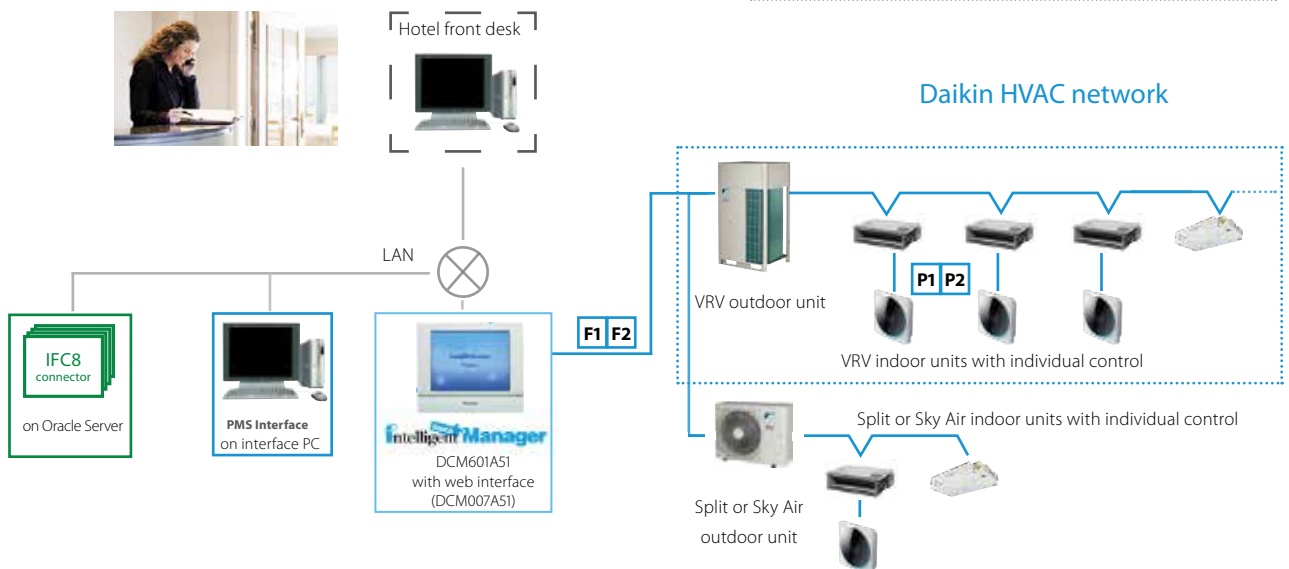
### Hotel case example:

- › On check-in the HVAC for the room is automatically switched on
- › On check-out the HVAC for the room is automatically switched off.
- › Increased hotel customer experience by pre-heating / cooling of booked rooms

### Hotel front desk



### Simplified configuration of Daikin PMS interface

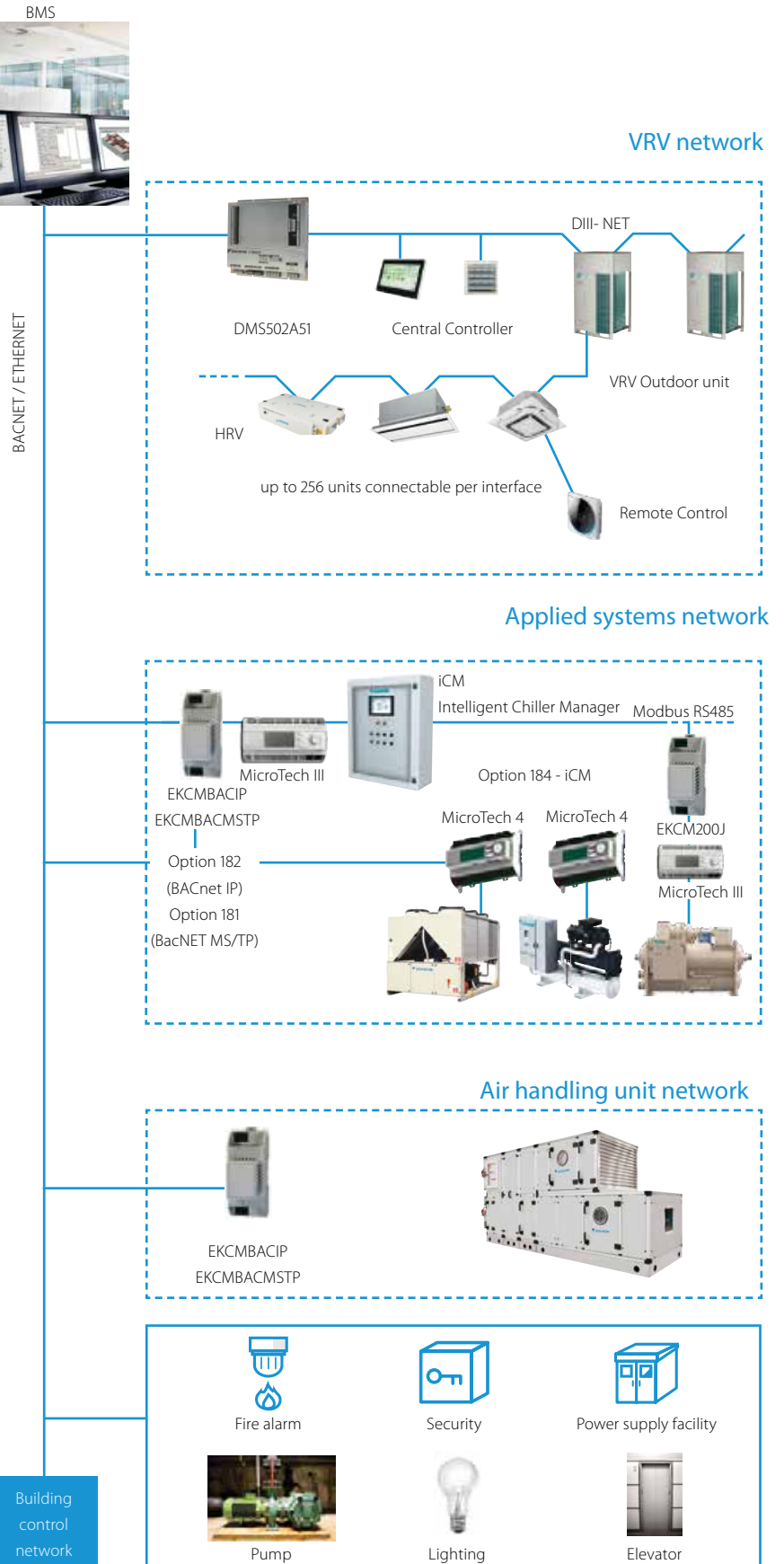
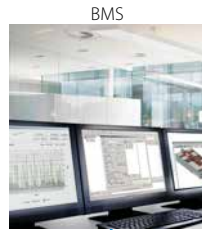


DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

# BACnet Interface

Integrated control system for seamless connection between VRV, applied systems, air handling units and BMS systems

- › Interface for BMS system
- › Communication via BACnet protocol (connection via Ethernet)
- › Unlimited site size
- › Easy and fast installation
- › PPD data is available on BMS system (only for VRV)

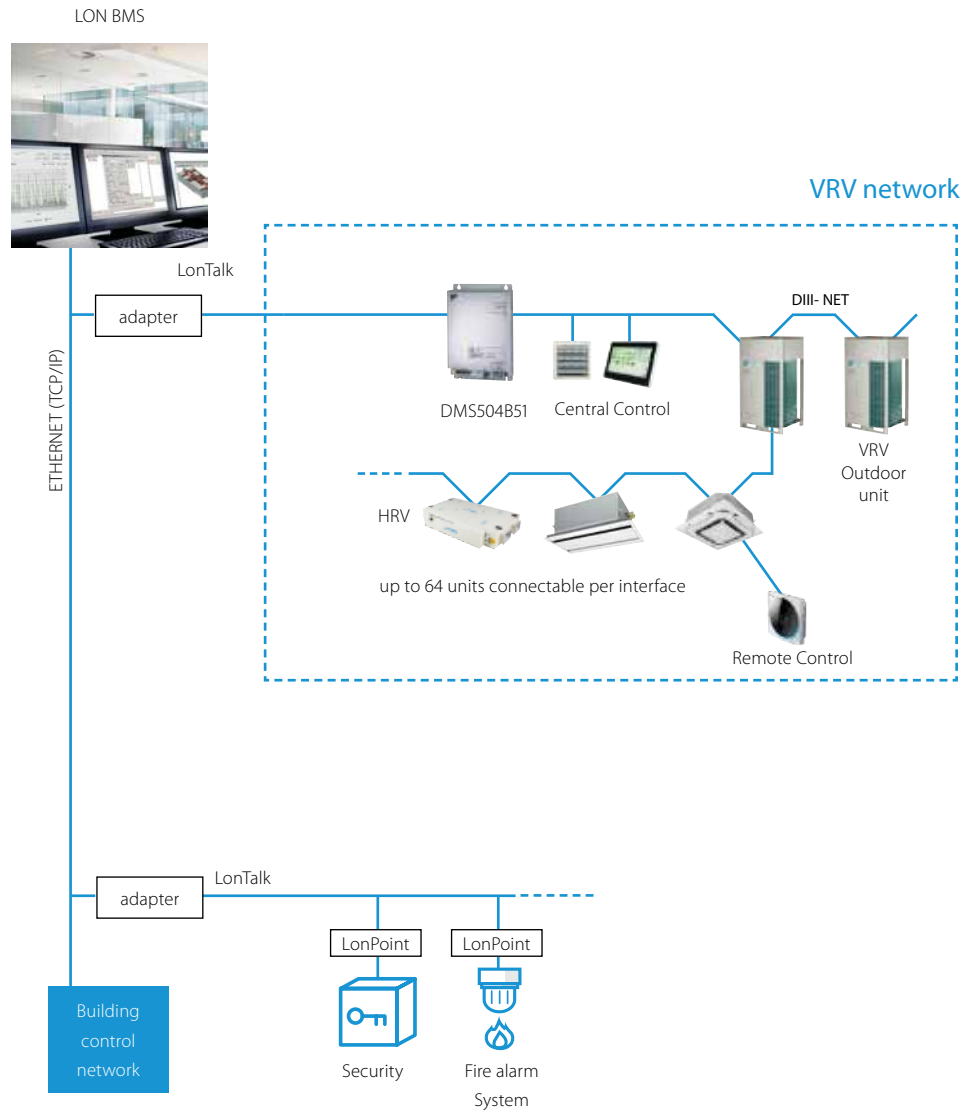


DMS504B51

# LonWorks Interface

Open network integration of VRV monitoring and control functions into LonWorks networks

- › Interface for Lon connection to LonWorks networks
- › Communication via Lon protocol (twisted pair wire)
- › Unlimited sitesize
- › Quick and easy installation



EKPCCAB4

## Daikin Configurator Tool + Software

Simplified commissioning:  
graphical interface to configure, commission  
and upload system settings

### Simplified commissioning

The Daikin configurator for Daikin Altherma and VRV is an advanced software solution that allows for easy system configuration and commissioning:

- › Less time is required on the roof configuring the outdoor unit
- › Multiple systems at different sites can be managed in exactly the same way, thus offering simplified commissioning for key accounts
- › Initial settings on the outdoor unit can be easily retrieved



Simplified  
commissioning



Retrieve initial  
system settings



# Daikin Cloud Service

to achieve optimal operation



Daikin Cloud Service is a cloud-based remote control and monitoring solution for DX systems. Using enhanced control, monitoring and predictive logic, Daikin Cloud Service provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Monitor & control\* your system no matter where you are while teaming up with Daikin experts

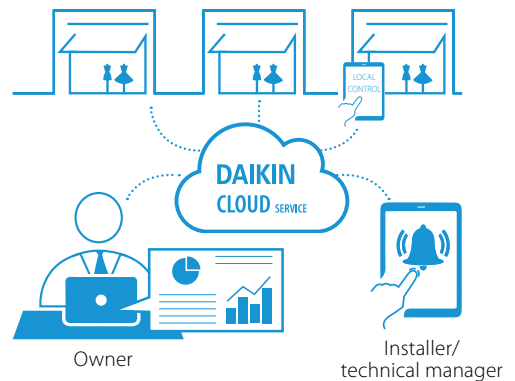
## Remote control and energy visualisation

### Puts you in the driving seat of your energy management

- ✓ Control and monitor your premises, wherever you are
- ✓ Centralised control and monitoring of all your premises
- ✓ Check errors remotely without having to go on site
- ✓ Visualise energy consumption and reduce energy waste by comparing different premises
- ✓ Graphical visualization of IEQ parameters (frequency day, week, month, year)
- ✓ Export & print IEQ parameters

### Multi-site monitoring

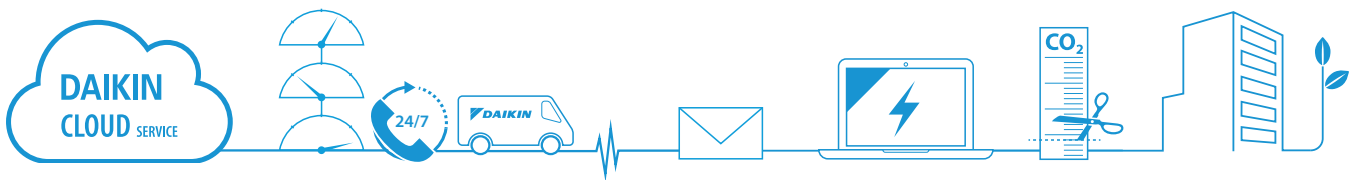
From one to an ∞ number of sites



## Remote support and diagnostics

### Daikin specialist supervision, so you can focus on your core business

- ✓ Early warning of system deviations to maximise system uptime and avoid emergency repairs\*\*
- ✓ Service providers have access to operational data so they arrive on site prepared
- ✓ Remote expert assistance in case of errors



## Advice and optimisation

### Get the best out of your system through expert advice

- ✓ Periodical analysis and optimisation report by experts
- ✓ Personalised actions to maximise energy efficiency and comfort
- ✓ Increased system lifetime as the system runs as it should

**Daikin Cloud Service requires a subscription. Contact your local sales representative for more information.**

\* Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

\*\* Only available for VRV systems



# Daikin Cloud Service packages

	Control and monitoring	Remote support and diagnostics	Advice and optimisation
Remote control, scheduling and interlocking	✓ (DCC601A51 only)	✓ (DCC601A51 only)	✓ (DCC601A51 only)
Energy monitoring	✓	✓	✓
Multi-site benchmark	✓	✓	✓
Alarm history and e-mail notifications**	✗	✓	✓
Predictions and e-mail notifications**	✗	✓	✓
Operational data access	✗	✓	✓
Indoor use analysis	✗	✓	✓
Outdoor use analysis	✗	✓	✓
Remote diagnostic and support from Daikin	✗	✓	✓
Periodical analysis and optimisation advice from Daikin	✗	✗	✓
Can be combined with maintenance programmes: - Technical inspection - Preventive Maintenance Plan - Comprehensive Maintenance Plan	✗	✗	✓

Packages subject to local availability  
Daikin Cloud Service replaces VRV Cloud and i-Net services.

## Flexible solution

Manage your premises according to your needs, using a local control or remotely via Daikin Cloud Service, or a combination of both.

## Control\*, no matter where you are

Daikin Cloud Service gives you full control of one or more premises wherever you are, using your PC, tablet or smartphone.

## Predictive logic for VRV to prevent breakdowns

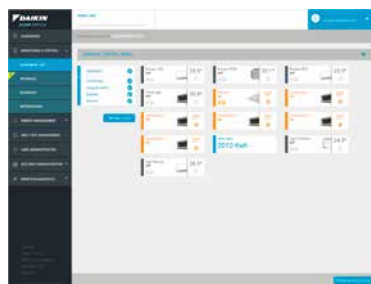
The operational data is continuously analysed by Daikin algorithms to predict potential failures and avoid unexpected costs.

## Compatible with:

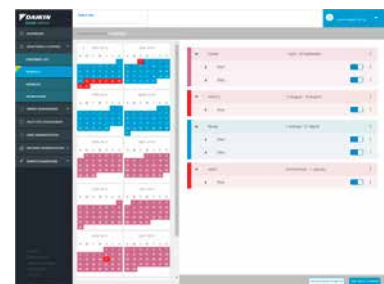
- › Intelligent Tablet Controller (DCC601A51)
- › Intelligent Touch Manager (DCM601A51) + IoT gateway
- › LC8 + IoT gateway



1. Clear dashboard overview



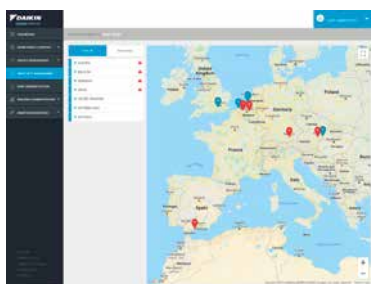
2. Monitor and control your system



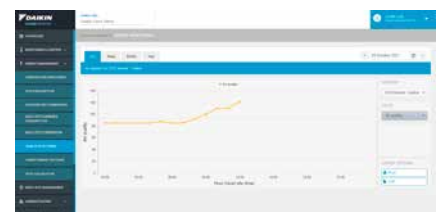
3. Easy setting of schedules



4. Energy management and consumption follow up



5. Multi site management



IEQ dashboard on DCS

\* Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

\*\* Only available for VRV systems

K.RSS

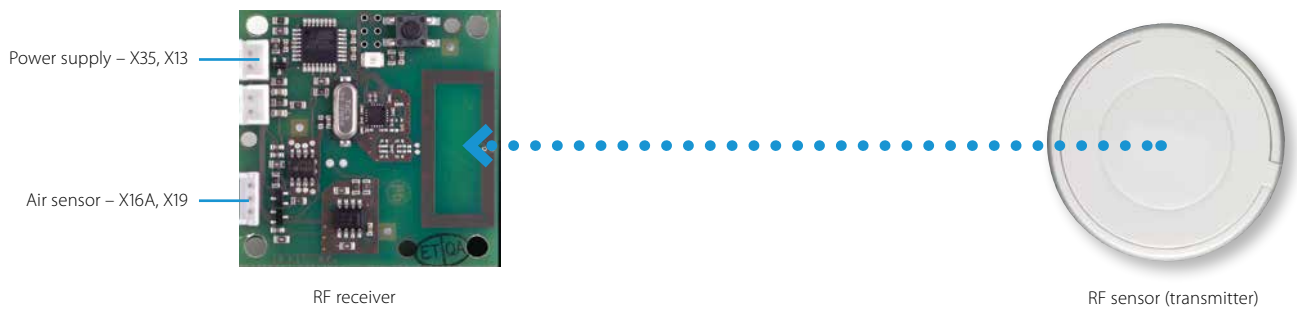
# Wireless room temperature sensor

## Flexible and easy installation

- › Accurate temperature measurement thanks to flexible placement of the sensor
- › No need for wiring
- › No need to drill holes
- › Ideal for refurbishment



## Connection diagram Daikin indoor unit PCB (FXSQ example)



## Specifications

		Wireless room temperature sensor kit (K.RSS)	
		Wireless room temperature receiver	Wireless room temperature sensor
Dimensions	mm	50 x 50	ø 75
Weight	g	40	60
Power supply		16VDC, max. 20 mA	N/A
Battery life		N/A	+/- 3 years
Battery type		N/A	3 Volt Lithium battery
Maximum range	m		10
Operation range	°C		0~50
Communication	Type		RF
	Frequency	MHz	868.3

- › Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

KRCS\*

# Wired room temperature sensor

- › Accurate temperature measurement, thanks to flexible placement of the sensor
- › Specific model code for each indoor unit can be found in the option tables



## Specifications










Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

## ADAPTER PCBs

### Simple solutions for unique requirements


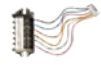

#### Concept and benefits

- › Low cost option to satisfy simple control requirements
- › Deployed on single or multiple units

			Connectable to:		
			Split	Sky Air	VRV
	<b>(E)KRP1B*</b> adapter for wiring	<ul style="list-style-type: none"> <li>› Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper</li> <li>› Powered by and installed at the indoor unit</li> </ul>		•	•
	<b>KRP2A*/KRP4A*</b> Wiring adapter for electrical appendices	<ul style="list-style-type: none"> <li>› Remotely start and stop up to 16 indoor units (1 group) (KRP4A* via P1 P2)</li> <li>› Remotely start and stop up to 128 indoor units (64 groups) (KRP2A* via F1 F2)</li> <li>› Alarm indication/ fire shut down</li> <li>› Remote temperature setpoint adjustment</li> <li>› Cannot be used in combination with a central controller</li> </ul>		•	•
	<b>SB.KRP58M2</b>	<ul style="list-style-type: none"> <li>› Low noise and demand control option for RZAG-N* and RZASG-M* series.</li> <li>› Obligatory mounted plate EKMKSA2 needs to be ordered separately</li> </ul>		•	
	<b>KRP58M51</b>	<ul style="list-style-type: none"> <li>› Low noise and demand control option for RZA-D series.</li> <li>› Includes obligatory mounted plate EKMKSA3</li> <li>› Obligatory mounting plate EKMKSA3 needs to be ordered separately</li> </ul>		•	
	<b>DTA104A*</b> Outdoor Unit External Control Adapter	<ul style="list-style-type: none"> <li>› Individual or simultaneous control of VRV system operating mode</li> <li>› Demand control of individual or multiple systems</li> <li>› Low noise option for individual or multiple systems</li> </ul>			•
	<b>DCS302A52-9</b> Unification adapter for computerized control	<ul style="list-style-type: none"> <li>› Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system</li> <li>› Must be used together with Intelligent Touch Controller or intelligent Touch Manager</li> <li>› Cannot be combined with KRP2/4*</li> <li>› Can be used for all VRV indoor models</li> </ul>			•
	<b>KRP928*</b> Interface adapter for DIII-net	<ul style="list-style-type: none"> <li>› Allows integration of split units to Daikin central controls</li> </ul>	•		
	<b>KRP980*</b> Adapter for split units without an S21 port	<ul style="list-style-type: none"> <li>› Connect a wired remote control</li> <li>› Connect to Daikin central controls</li> <li>› Allow external contact</li> </ul>	•		
	<b>KRP413*</b> Wiring adapter normal open contact / normal open pulse contact	<ul style="list-style-type: none"> <li>› Switch off auto restart after power failure</li> <li>› Indication of operation mode / error</li> <li>› Remotely start /stop</li> <li>› Remotely change operation mode</li> <li>› Remotely change fan speed</li> </ul>	•		

Some adapters require an installation box, refer to the option lists for more information

## Accessories


<b>EKRORO</b>		<ul style="list-style-type: none"> <li>› External ON/OFF or forced off</li> <li>› Example: door or window contact</li> </ul>
<b>EKRORO 3</b>		<ul style="list-style-type: none"> <li>› External ON/OFF or forced off</li> <li>› F1/F2 contact</li> <li>› Example: door or window contact</li> </ul>
<b>KRC19-26A</b>		<ul style="list-style-type: none"> <li>› Mechanical cool/heat selector</li> <li>› Allows switching over an entire system between cooling/heating/fan only</li> <li>› Connects to the A/B/C terminals of the unit</li> </ul>
<b>BRP2A81</b>		<ul style="list-style-type: none"> <li>› Cool/heat selector PCB</li> <li>› Required to connect KRC19-26A to a VRV IV outdoor unit</li> </ul>

## Individual and centralised controls

	BRCID*	BRCIE*	BRCIH*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			●				
Electical box KJB111A	●	●	●				
Electical box KJB212A(A) (1)	●	●		●	●		
Electical box KJB311A(A)						●	
Electical box KJB411AA							●

(1) recommended as wider (more stable mounting)

## Intelligent Tablet Controller - DCC601A51

				
		Options for local control	Daikin Cloud Service options	Software
Wired screen for local control	AL-CCD07-VESA-1	●	-	-
Control and monitoring package		-	●	-
Remote support and diagnostics package		-	●	-
Advise and optimisation package		-	●	-
Commissioning tool		-	-	●
Software update tool		-	-	●

Daikin Cloud Service requires a subscription. Contact your local sales representative for more information

## Standard protocol interfaces - DMS502A51

		BACnet Interface
DIII-net expansion board (2 ports), connects up to 128 additional indoor units	DAM411B51	●
Digital pulse inputs (12) for PPD functionality	DAM412B51	●

# Intelligent Touch Manager - DCM601A51

		Intelligent Manager	Daikin Cloud Service options (2)
iTM plus adapter – Allows connection of an additional 64 indoor units/groups. Up to 7 adapters can be connected	DCM601A52	•	
iTM PPD software – Allows distribution of used kWh by indoor units connected to the iTM	DCM002A51	•	
iTM HTTP interface - Allows communication to any third party controller via http interface	DCM007A51	•	
iTM Energy navigator – Energy management option	DCM008A51	•	
iTM BACnet Client option – Enables integration of third party devices to the iTM via the BACnet/IP protocol. (This is not a gateway and cannot replace DMS502A51)	DCM009A51	•	
Property Management System (PMS) interface option - Enables to connect to third party PMS systems	DCM010A51	• Oracle Opera PMS	
Monitoring package			•
Remote support and diagnostics package			•
Advise and optimisation package			•

## WAGO interface options for intelligent Touch Manager

### Required or optional WAGO base modules

Module type	Model code	Specifications	
24 V DC power supply	787-712	100 to 240 V AC → 24 V DC, 2.5 A	Required
Communications unit (Bus coupler)	WGDCMCPLR2	RS-485, Max:115.2kbps, not programmable	Required
Connector (1)	750-960		Required
Terminator module	750-600		Required
Power supply module	750-613	IN: 24 V DC, OUT: 5 V DC	Optional

### Supported WAGO I/O modules

I/O module type	Model code	Specifications	N° of contacts
Di	750-400	No-voltage contact input	2
	750-432	Contact rating: 24 V DC / 4.5 mA <sup>1</sup>	4
	750-430	No-voltage contact input Contact rating: 24 V DC / 2.8 mA	8
Do	750-513/000-001	No-voltage contact output Contact rating: 230 V AC / 30 V DC, 2 A	2
	750-504	No-voltage contact output Contact rating: 24 V DC / 0.5 A	4
Ai	750-454	Rated at 4 to 20 mA: 12-bit resolution	2
	750-455		4
	750-479	Rated at -10 to 10 V: 13-bit resolution	2
	750-459	Rated at 0 to 10 V: 12-bit resolution	4
Ao	750-554	Rated at 4 to 20 mA: 12-bit resolution	2
	750-555		4
	750-560	Rated at -10 to 10 V: 10-bit resolution	2
	750-559	Rated at 0 to 10 V: 12-bit resolution	4
Thermistor	750-461/020-000	NTC20K thermistor	2
	750-461	Pt 100/RTD	2
	750-460		4
	750-461/000-003	Pt 1000/RTD	2
	750-460/000-003		4
	50-461/000-004	Ni 100/RTD	2
	750-461/000-005	Ni1000 TK6180/RTD	2
	750-460/000-005		4
Pi	750-638	Minimum pulse width: 1 ms	2

(1) This connector must be attached to a communications unit that is connected to the RS485 port (2-pin) of the iTM unit.

(2) To connect intelligent Touch Manager to the Daikin Cloud Service, the IoT gateway (EU.SB.5000072) and AC/DC converter (999175A) is needed.



We're here to help you!  
Online and offline

Online and offline  
VRV selection software

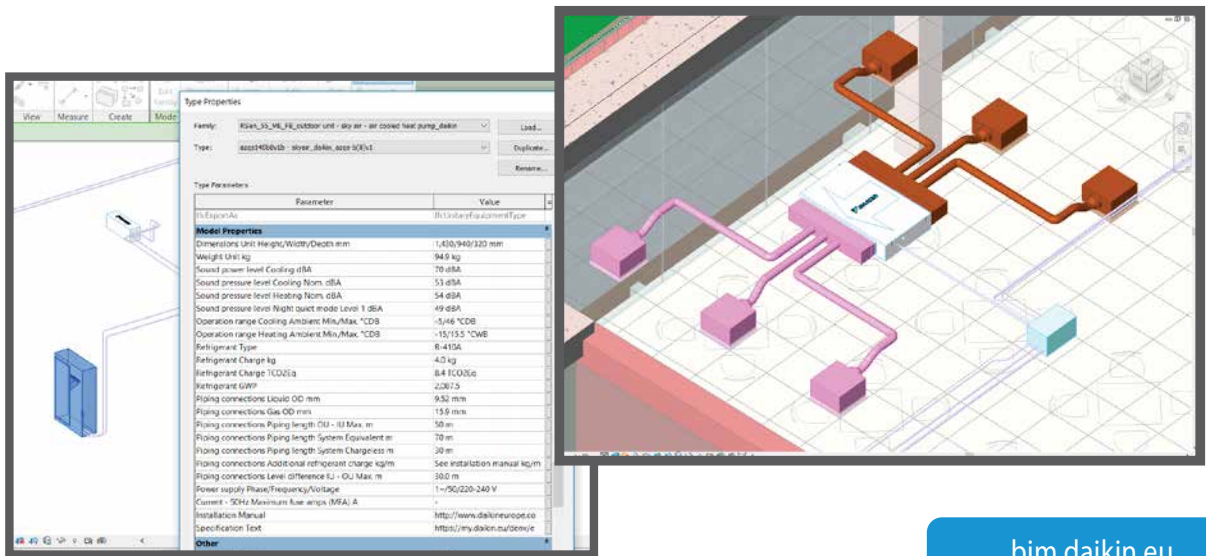


Business portal via mobile or desktop

[my.daikin.eu](http://my.daikin.eu)



Full BIM object library available



[bim.daikin.eu](http://bim.daikin.eu)



# Tools

## & platforms

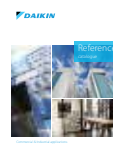
<b>Tools &amp; platforms</b>	<b>221</b>
Literature overview	222
Supporting tools, software and apps	224
30 years of history	228

# Literature overview

for professional network

Solutions catalogues:

Reference books:



**Reference catalogue**  
Daikin commercial and industrial references

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Product profiles:



**VRV IV S-series**  
Main benefits, application examples and specs of VRV IV S-series product range

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**VRV IV i-series**  
Main benefits, application examples and specs of VRV IV i-series product range

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**Water-to-air heat pump**  
Detailed info on VRV IV W-series, application examples, technical system design background

209



**VRV5 S-Series**  
VRV 5  
Main benefits and specs of VRV 5

210

Focus topics:



**Replacement Technology**  
Clear installer benefits of VRV replacement technology

214



**Infrastructure cooling**  
Clear installer benefits why to choose Daikin for infrastructure cooling

140



**F-gas regulation**  
Details on the F-gas regulation and how Daikin is prepared for the future HVAC-R market

605



**LooP by Daikin**  
Detailed info on LooP by Daikin where reclaimed refrigerant is reused

223

Product flyers:



**Mini Sky Air Alpha-series**  
RZAG-A mini Sky Air Alpha-series  
Main benefits and specs of RZAG-A series

146



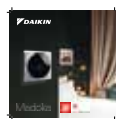
**Low height Sky Air Alpha-series**  
RZAG-N\* Sky Air Alpha-series  
Main benefits and specs of the low height RZAG-N\*

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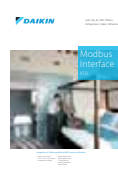
**Low height large Sky Air Advance-series**  
RZA-D Sky Air Advance-series  
Main benefits and specs of the low height RZA-D\* series

148



**Madoka**  
Detailed info on BRC1H\* remote control

306



**RTD modbus interface**  
Detailed info on RTD controls and applications

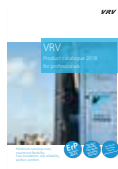
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Product catalogues:



**Sky Air Catalogue**  
Detailed technical information & benefits on Sky Air

100



**VRV Catalogue**  
Detailed technical information & benefits of the VRV total solution

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**Ventilation Catalogue**  
Detailed info on Ventilation products

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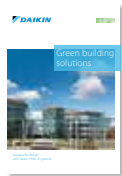
for your customers

Solutions catalogues:



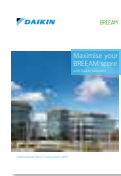
**Commercial Solutions**  
Daikin offers solutions for commercial applications

100



**Green Building Solutions**  
Clear building owner/investor benefits why to choose Daikin for a green building, with emphasis on BREEAM

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**Maximise your BREEAM score**  
BREEAM categories Overview of how to score BREEAM points with Daikin

221



**Hotel Solutions**  
Clear building owner/investor benefits why to choose Daikin for a hotel

218

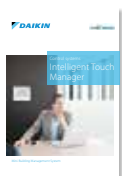
Reference books:



**Success Case study**  
Vandervalk hotel case In depth info on the VRV total solution at a Vandervalk hotel

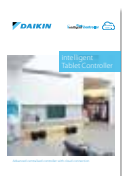
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Product profiles:



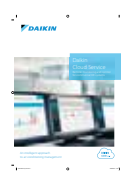
**Intelligent Touch Manager**  
Detailed benefits of Intelligent Touch Manager

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**Intelligent Tablet Controller**  
Detailed benefits of Intelligent Tablet Controller

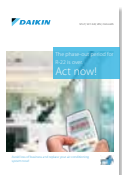
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**Daikin Cloud Service**  
Details on the Daikin Cloud connection

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Focus topics:



**Replacement technology**  
Clear building owner/investor benefits of replacement technology

15-215



Technical documentation:

Download all technical documentation such as engineering data-books, selection software, installation and operation manuals and service manuals directly from our business portal: [my.daikin.eu](http://my.daikin.eu)

# Supporting tools, software and apps

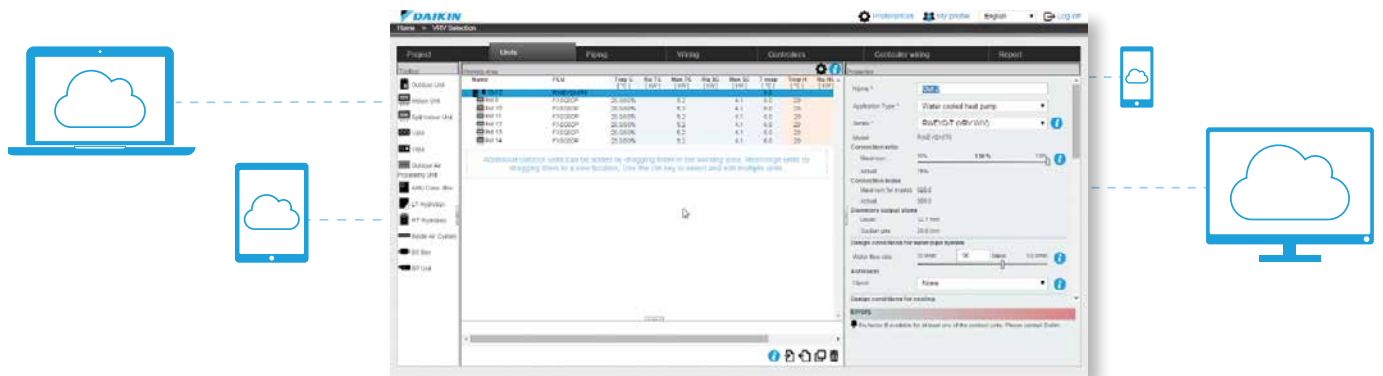
[www.daikineurope.com/support-and-manuals/software-downloads](http://www.daikineurope.com/support-and-manuals/software-downloads)



## Web based Xpress selection software

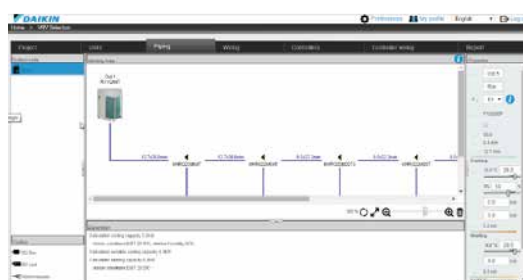
### Making selection easy, anytime, anywhere

- › Web & cloudbased, access to your projects from anywhere, anyplace...
- › Platform (Windows, Mac, ...) and hardware (laptop, desktop, tablet) independent
- › Re-engineered GUI for maximum easy of use
- › No need to do local installation
- › No tool updates required (always latest version available)
- › Possibility to copy / share projects

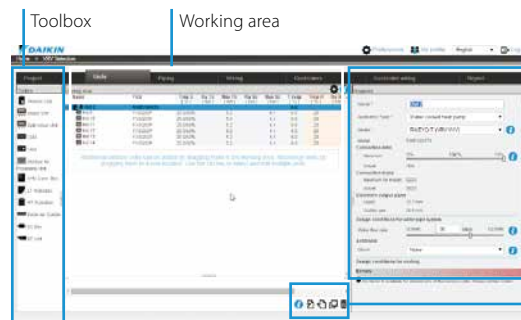


Easy selection, anytime, anywhere

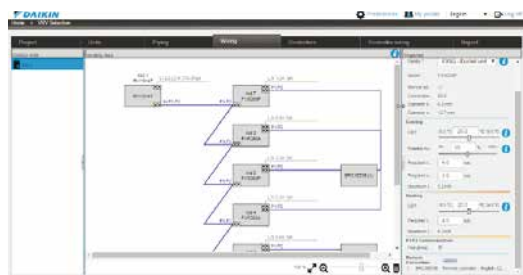
### Main functions



Easy editing of piping



Intuitive interface



Clear wiring overview, easy to make control groups



Clear overview of control groups and central controls

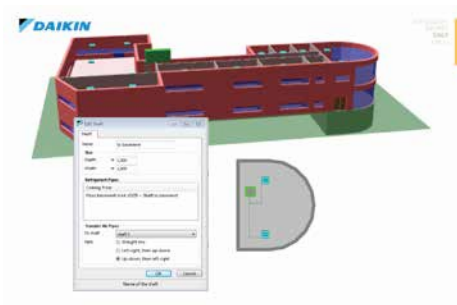


## Other selection software

### VRV Pro

Enables VRV air conditioning systems to be engineered in a precise and economical way, taking into account the complex piping rules. Moreover, it ensures optimum operating cycles and maximum energy efficiency.

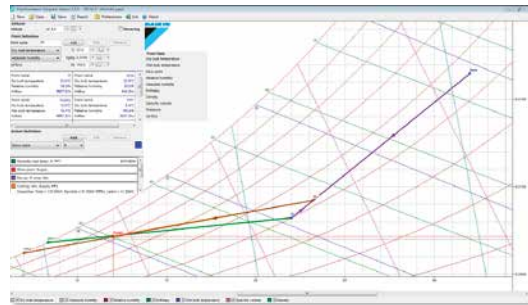
- › Accurate heat load calculation
- › Precise selection based on peak loads
- › Energy consumption indication



### Ventilation Xpress

Selection tool for ventilation devices (VAM, VKM). The selection is based on given supply/extract airflows (including fresh up and given ESP of supply/extract ducting):

- › Determines size of electrical heaters
- › Visualisation of psychrometric chart
- › Visualisation of selected configuration
- › Required field settings mentioned in the report



### Webbased ASTRA selection for air handling units

A powerful tool to select the right Air Handling Units for your needs.

- › 3D interface
- › quick selection procedures
- › new print-out possibilities and report shapes



### WAGO selection tool

The WAGO Selection Tool is specifically designed to select the optimal WAGO I/O system for your needs.

- › Easy selection of WAGO materials
- › Material list creation
- › Time saving
  - Includes wiring schemes
  - Contains commissioning/preset data for

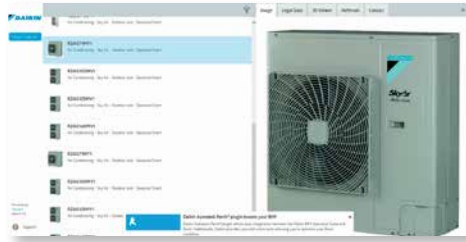
Intelligent touch Manager



# Plugins and third-party software tools

## Building Information Modelling (BIM) support

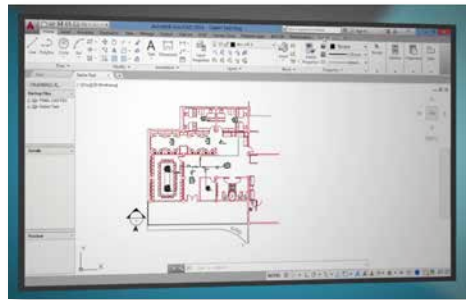
- › BIM improves efficiency of design and build phase
- › Daikin is among the first to supply a full library of BIM objects for its VRV products



[www.daikin.eu/bim](http://www.daikin.eu/bim)

## VRV CAD 2D

- › Displays VRV pipe design on a Autocad 2D floorplan
- › Improves project management
- › Accurately calculates the pipe dimensions and refnets
- › Determines the outdoor unit size
- › Validates VRV pipe rules
- › Accounts for the extra refrigerant charge, including a max room concentration check



<http://www.daikineurope.com/autocad/index.jsp>

# Energy simulation and design aid tools

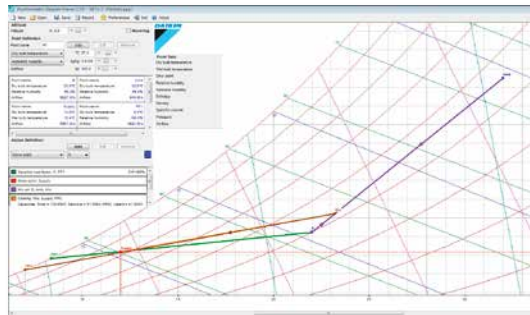
## Seasonal simulator

- › The Seasonal Simulator is an innovative software tool that calculates and compares potential seasonal efficiency ratings.
- › This user-friendly tool compares various Daikin systems, annual power consumption, CO<sub>2</sub> emissions, and much more, to present an accurate ROI calculation in a matter of minutes.



## Psychrometrics diagram **NEW**

- › The Psychrometrics Diagram Viewer demonstrates the changing properties of moist air.
- › With this tool, users can choose two points with specific conditions, plot them on the diagram and select actions to change the conditions, i.e. heat, cool and mix air.



# Software service tools

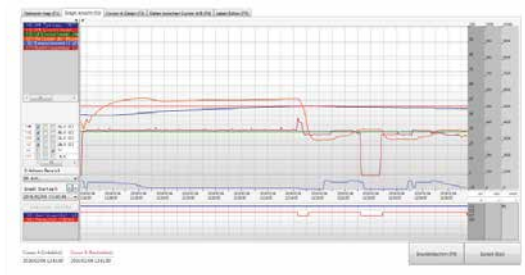
## Error code app

Quickly know the meaning of fault codes, for each product family and the potential cause



## D-Checker

D-checker is a software application used to record and monitor operation data of Daikin applied, split, Multi-split, Sky-air units, Daikin Altherma LT, ground source heat pump, Hybrid, ZEAS, Conveni-pack & R410A Booster unit

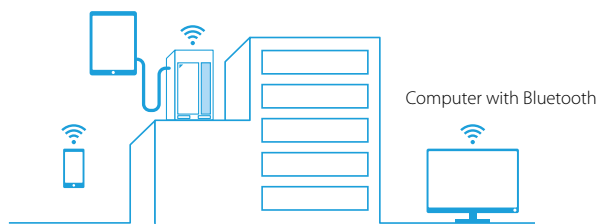


## Bluetooth adaptor **NEW**

Monitoring of Split, Sky Air and VRV data via any bluetooth device

- › No need to access the outdoor unit
  - Connects with D-Checker software (for laptops)
  - Connects with monitoring app (for tablets or smartphones)

Diagnosis of the Bluetooth system possible:



## VRV Service-Checker

- › Connected via F1/F2 bus to check multiple systems at the same time
- › Connection of external pressure sensors possible

# Online support

## Business portal

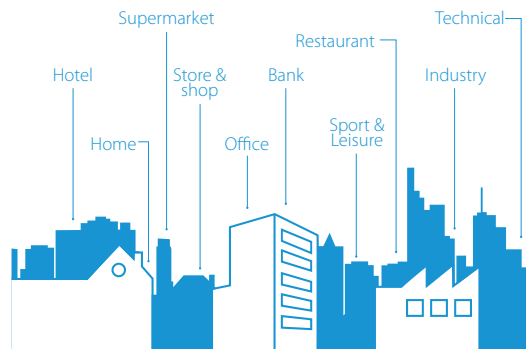
- › Experience our new extranet that thinks with you at [my.daikin.eu](http://my.daikin.eu)
- › Find information in seconds via a powerful search
- › Customise the options so you see only info relevant for you
- › Access via mobile device or desktop

[my.daikin.eu](http://my.daikin.eu)



# Internet

Find our solution for different applications:



- › Get more commercial details on our flagship products via our dedicated minisites
- › See our references



[www.daikineurope.com/references](http://www.daikineurope.com/references)



# Over 30 years of VRV History



**R-22**

**1987**

**Introduction the original VRV air conditioning system to Europe, invented by Daikin in 1982**

- > Up to 6 indoor units connected to 1 outdoor unit



**R-407C**

**1998**

**Launch inverter series with R-407C**

- > Up to 16 indoor units connected to 1 outdoor unit



**2004**

**Expand to light commercial sector with VRV VII-S**

- > Available in 4, 5, 6HP capacities
- > 1 system can be installed in up to 9 rooms



**2008**

**Launch of heat pump optimised for heating (VRV III-C)**

- > Extended operation down to -25C
- > 2-stage compressor systems

1987

1991

1998

2003

2004

2005

2006-2007

2008

**1991**

**Introduce VRV heat recovery**

- > Simultaneous cooling and heating



**2003**

**Introduce VRV-- the first R-410A VRF system**

Available in cooling, heat pump and heat recovery

- > 40 units connected to single refrigerant circuit

**R-410A**



**2005**

**Extends VRV inverter range with water cooled VRV-WIII**

- > Available in heat pump and heat recovery



**2006-2007**

**Launch the extensively re-engineered VRV VIII**

- > Available in cooling, heat pump and heat recovery
- > Automatic charging and testing
- > Up to 64 units connected to 1 system





## 2015

### Launch of VRV IV S-series

- > Most compact unit in the market
- > Widest range in the market

## 2015

### Launch of VRV IV i-series

- > The invisible VRV
- > Unique product concept



## BLUEEVOLUTION



## 2011

### Launch total solution concept

- > Integrate hot water production and Biddle air curtains into VRV system
- > Connectable to Daikin Emura and Nexura
- > 400,000 outdoors units sold
- > 2.2 million indoor units sold

## 2019

### Launch of VRV IV+ series

- > New compressor for increased seasonal efficiency
- > Available in heat recovery, heat pump, optimised for heating and water-cooled versions

## 2020

### VRV 5 S-series

- > Completely redesign unit for R-32 refrigerant
- > Easier to handle and more flexible to install than ever!



## 2010

### Launch of replacement VRV (VRVIII-Q)

- > Upgrade to replace older VRV units using R-22 refrigerant



## 2012-2014

### Setting new standards with the launch of VRV IV

- > 28% improved seasonal efficiency
- > Continuous heating on heat pumps
- > Available in heat pump, heat recovery, water-cooled and replacement series



## 2019

### Launch of L∞P by Daikin

- > Re-use of existing refrigerant
- > Creating a circular economy of refrigerants







# Technical

## drawings

<u>Technical drawings</u>	231
Outdoor units	232
Indoor units	265
Hot water	314
Biddle air curtains	319
Ventilation	322

# Technical drawings

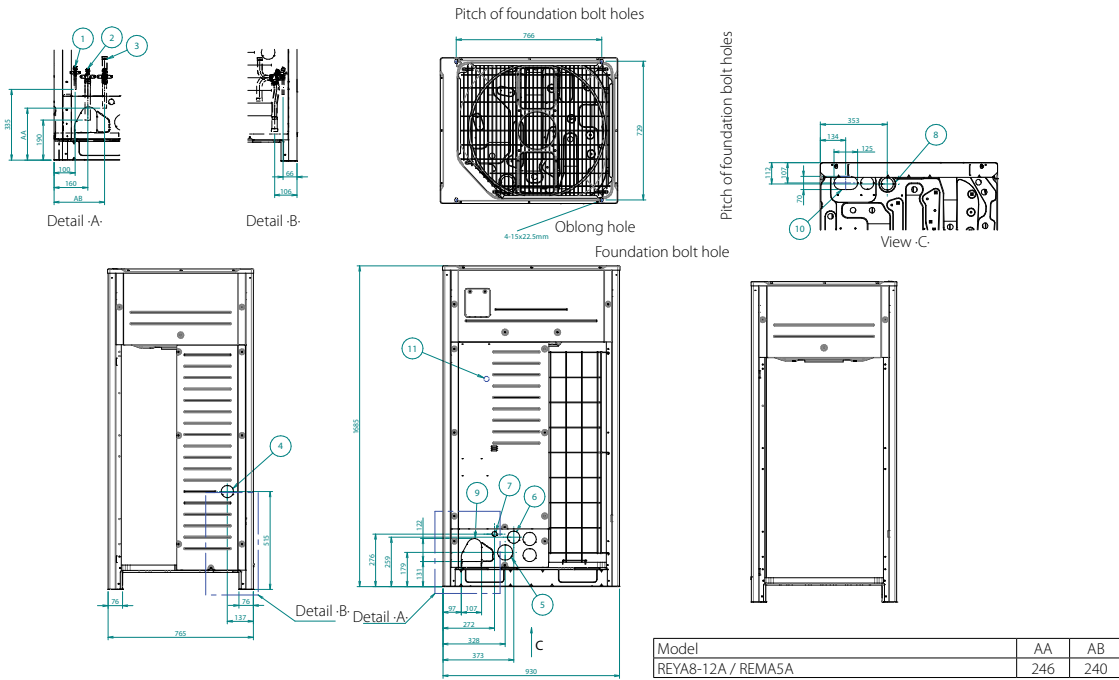
# Outdoor units

REYA-A / REMA-A	233
BS-A14AV1B	235
RXYSA-AV1 / AY1	236
REYQ-U / REMQ-U / RYYQ-U / RYMQ-U / RXYQ-U / RXYQQ-U	239
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## REYA8-12A / REMA5A



### NOTES

- Detail -A- and detail -B- indicate the dimensions after fixing the attached piping.
- Items 4 – 10: Knockout hole.

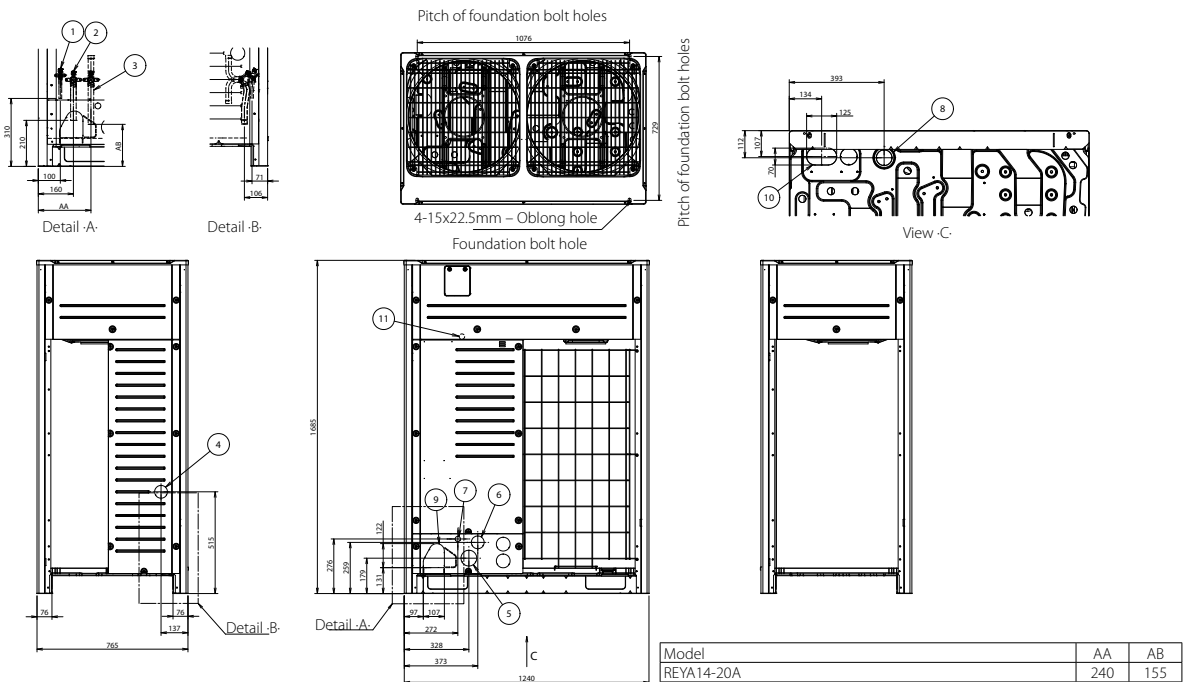
#### 3. Gas pipe

REYA8-10A, REMA5A	Ø 19.1
REYA12A	Ø 22.2
Liquid pipe	
REYA8-10A, REMA5A	Ø 9.52
REYA12A	Ø 12.7
High pressure/low pressure gas pipe	
REYA8-10A, REMA5A	Ø 15.9
REYA12A	Ø 19.1

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note -3-.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note -3-.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119001

## REYA14-20A



### NOTES

- Detail A and detail B indicate the dimensions after fixing the attached piping.
- Items 4 – 10: Knockout hole.

#### Gas pipe

REYA14-18A	Ø 22.2
REYA20A	Ø 28.6
Liquid pipe	
REYA14-20A	Ø 12.7
High pressure/low pressure gas pipe	
REYA14-18A	Ø 19.1
REYA20A	Ø 22.2

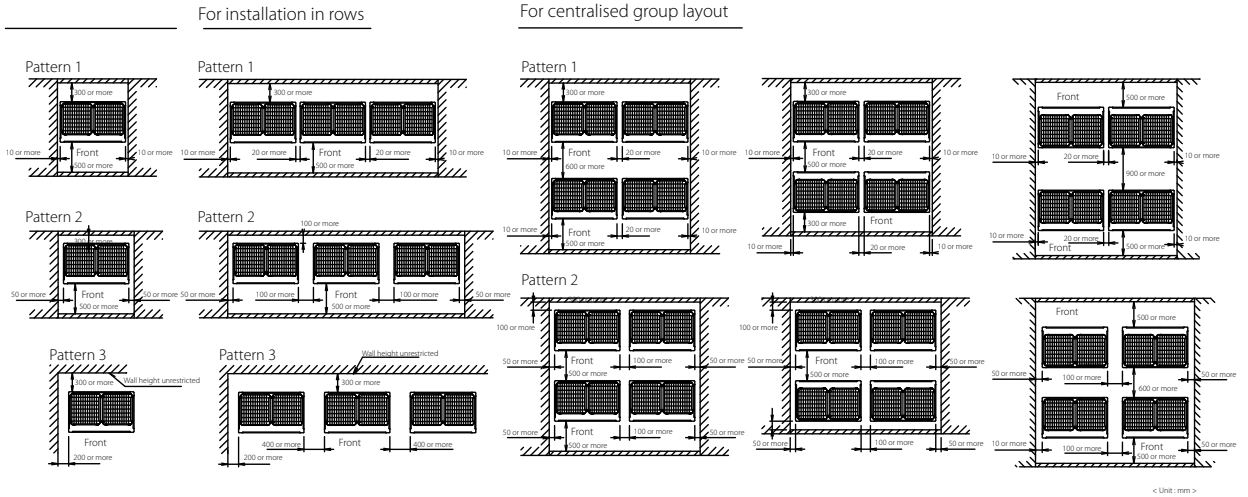
No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note 3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119091

Detailed technical drawings

REYA-A / REMA-A

For single unit installation



NOTES

- Height of the walls in case of patterns 1 and 2:  
 Front: 1500mm  
 Suction side: 500mm  
 Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35°C (outdoor temperature).

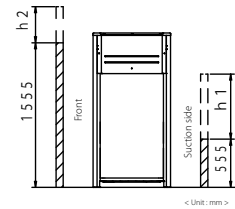
When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.

- If the walls are higher than mentioned above, then additional service space is needed:  
 - suction side: service space + h1/2  
 - front side: service space + h2/2

- When installing the units, select the pattern that best fits the available space.

Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely.  
 If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.

- Provide sufficient space at the front to connect refrigerant piping (comfortably).



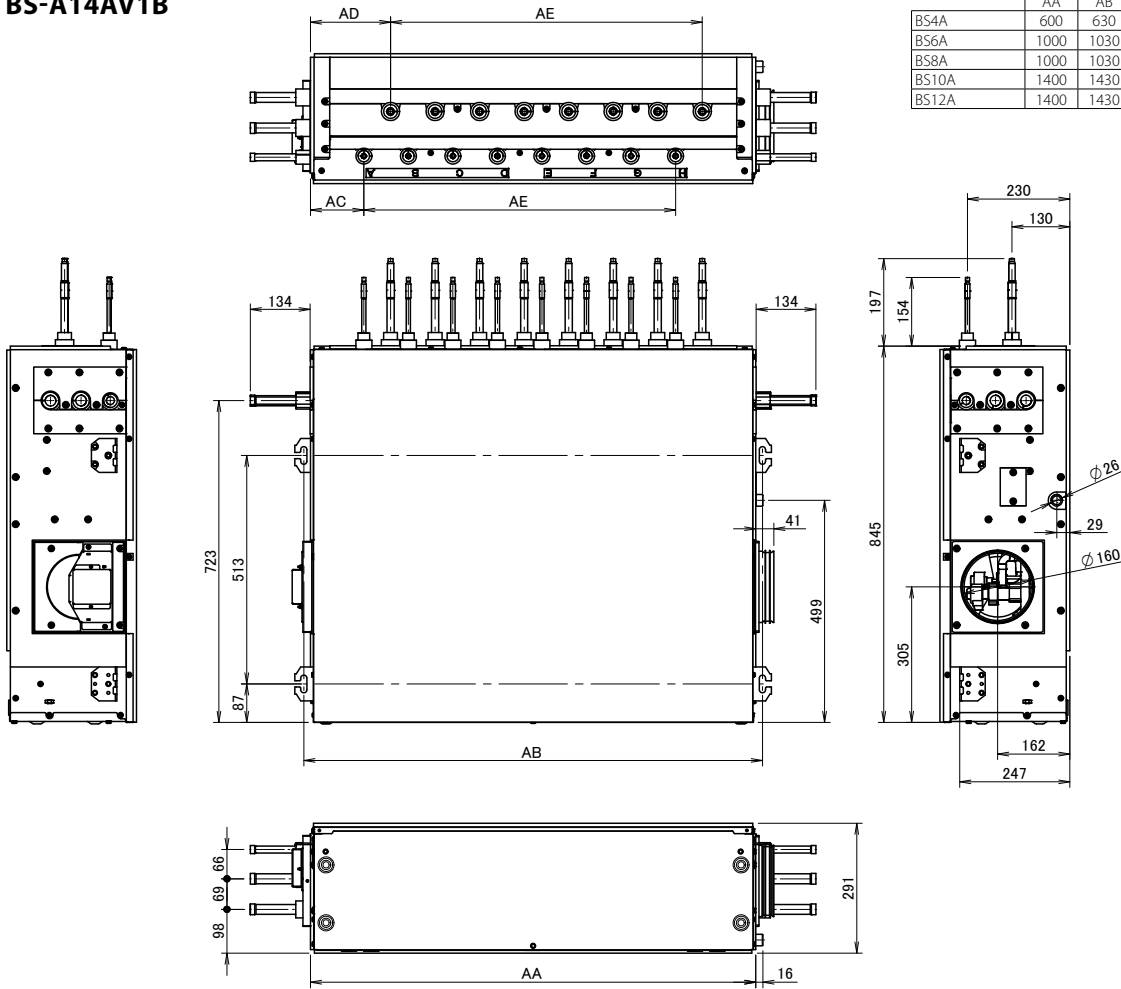
3D118467





**BS-A14AV1B**

	AA	AB	AC	AD	AE
BS4A	600	630	120	180	3 X 100 = 300
BS6A	1000	1030	120	280	5 X 100 = 500
BS8A	1000	1030	120	180	7 X 100 = 700
BS10A	1400	1430	220	280	9 X 100 = 900
BS12A	1400	1430	120	180	11 X 100 = 1100

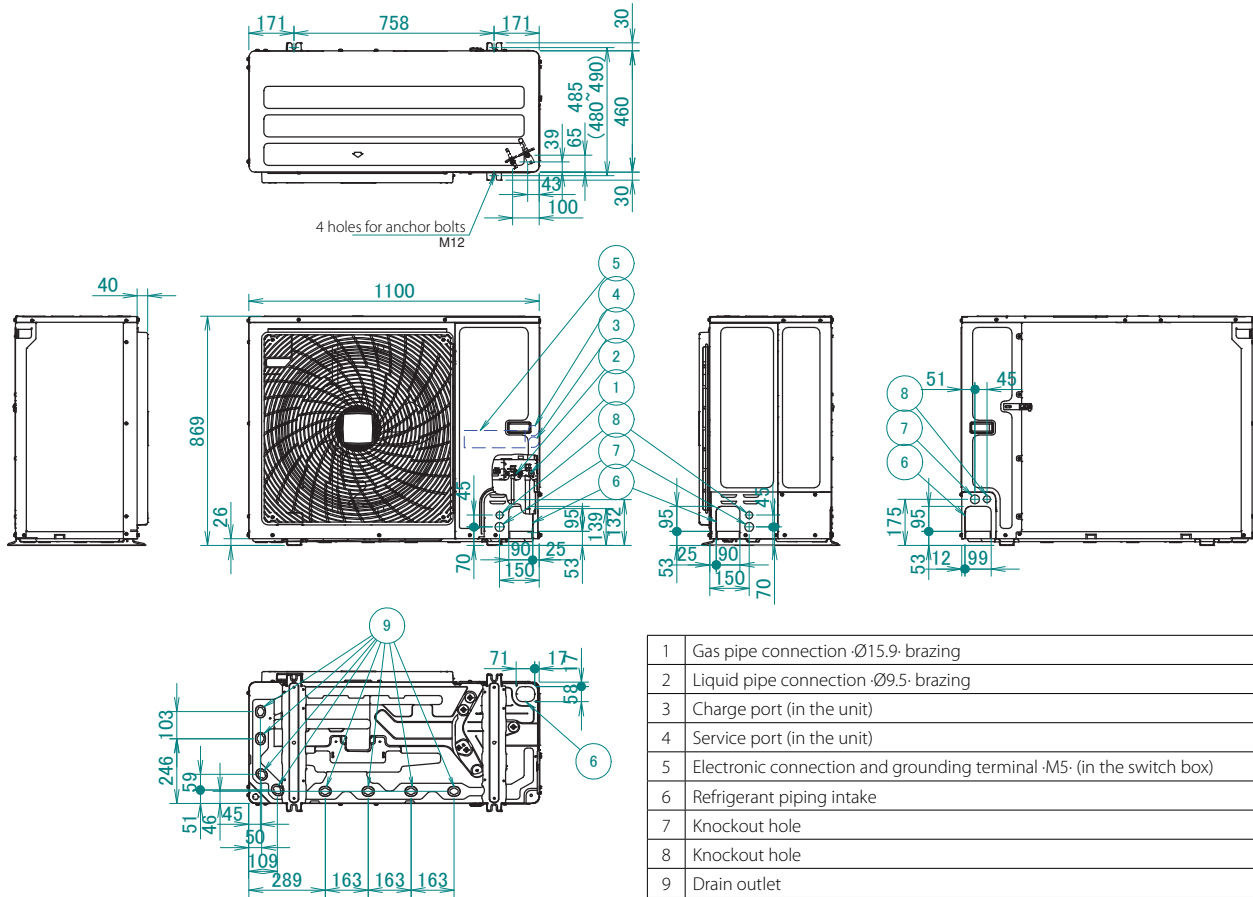


**3D139837**



Detailed technical drawings

**RXYS-A-AV1/AY1**



**3D127871A**

**RXYSA-AV1/AY1**

**Single unit ( ) | Single row of units ( )**

**Suction side**

In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

- When the suction side temperature regularly exceeds this temperature.
- When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.

**Discharge side**

Take refrigerant piping work into account when positioning the units. If your lay out does not match with any of the layouts below, contact your dealer.


**Single unit ( ) | Single row of units ( )**

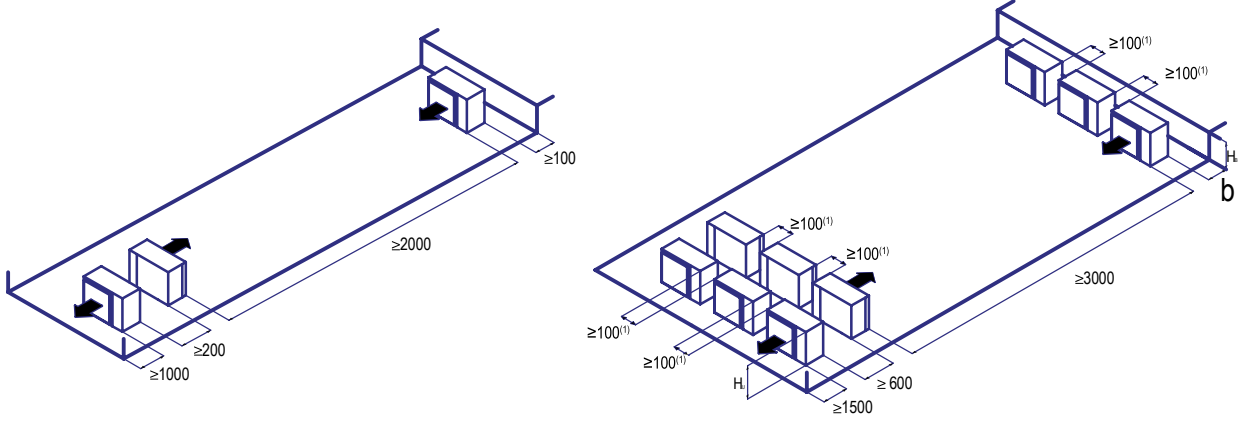
	A~E	Hb Hd Hu	(mm)								
			a	b	c	d	e	e <sub>B</sub>		e <sub>D</sub>	
	B	-		≥ 100							
	A,B,C	-	≥ 100(1)	≥ 100	≥ 100						
	B,E	-		≥ 100				≥ 1000		≤500	
	A,B,C,E	-	≥ 150(1)	≥ 150	≥ 150			≥ 1000		≤500	
	D	-					≥ 500				
	D,E	-					≥ 500	≥ 1000	≤500		
	B,D	Hd>Hu			≥ 100		≥ 500				
		Hd≤Hu			≥ 100		≥ 500				
	B,D,E	Hd>Hu	Hb≤½Hu		≥ 250		≥ 750	≥ 1000	≤500		
			½Hu>Hb≤Hu		≥ 250		≥ 1000	≥ 1000	≤500		
Hb>Hu										1	
Hd≤Hu		Hd≤½Hu		≥ 100		≥ 1000	≥ 1000		≤500		
	½Hu<Hd≤Hu		≥ 200		≥ 1000	≥ 1000		≤500			
		Hd>Hu									
	A,B,C	-	≥ 200(1)	≥ 300	≥ 1000						
	A,B,C,E	-	≥ 200(1)	≥ 300	≥ 1000			≥ 1000		≤500	
	D	-					≥ 1000				
	D,E	-					≥ 1000	≥ 1000	≤500		
	B,D	Hd>Hu			≥ 300		≥ 1000				
		Hd≤Hu	Hd≤½Hu		≥ 250		≥ 1500				
	½Hu<Hd≤Hu			≥ 300		≥ 1500					
	B,D,E	Hd>Hu	Hb≤½Hu		≥ 300		≥ 1000	≥ 1000	≤500		
			½Hu>Hb≤Hu		≥ 300		≥ 1250	≥ 1000	≤500		
		Hb>Hu									
Hd≤Hu		Hd≤½Hu		≥ 250		≥ 1500	≥ 1000		≤500		
	½Hu<Hd≤Hu		≥ 300		≥ 1500	≥ 1000		≤500			
		Hd>Hu									


- (1) For better serviceability, use a distance ≥250 mm
- A,B,C,D Obstacles (walls/baffle plates)
- E Obstacle (roof)
- a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E
- e<sub>B</sub> Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B
- e<sub>D</sub> Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D
- Hu Height of the unit
- Hb,Hd Height of obstacles B and D
- 1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction side through the bottom of the unit.
- 2 Maximum two units can be installed.
- ⊘ Not allowed


**RXYSA-AV1/AY1**

**Multiple rows of units** 

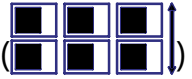
**Multiple rows of units** 

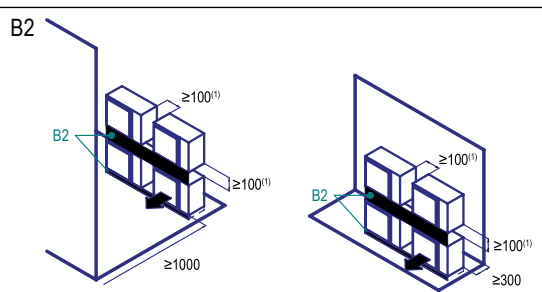
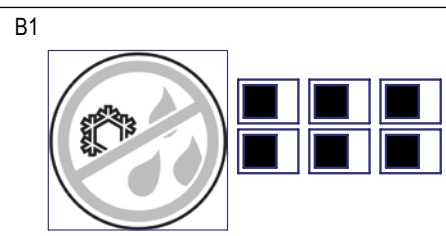
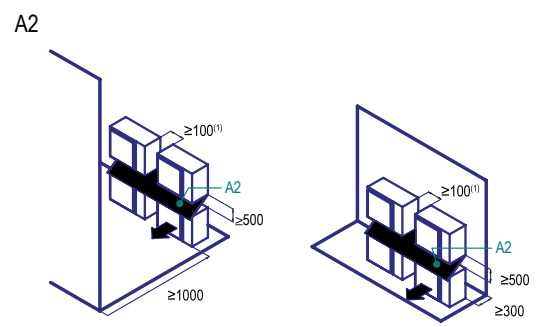
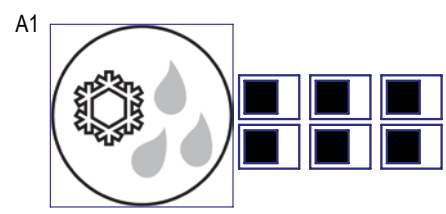


Hb Hu	b (mm)
$Hb \leq \frac{1}{2}Hu$	$b \geq 250$
$\frac{1}{2}Hu < Hb \leq Hu$	$b \geq 300$
$Hb > Hu$	

- (1) For better serviceability, use a distance  $\geq 250$  mm
-  Not allowed

**Stacked units (max.2 levels)** 

**Stacked units (max.2 levels)** 



- (1) For better serviceability, use a distance  $\geq 250$  mm
- A1=>A2 (A1) If there is danger of drainage dripping and freezing between the upper and lower units... (A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at the upper unit's bottom plate.
- B1=>B2 (B1) If there is no danger of drainage dripping and freezing between the upper and lower units... (B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.



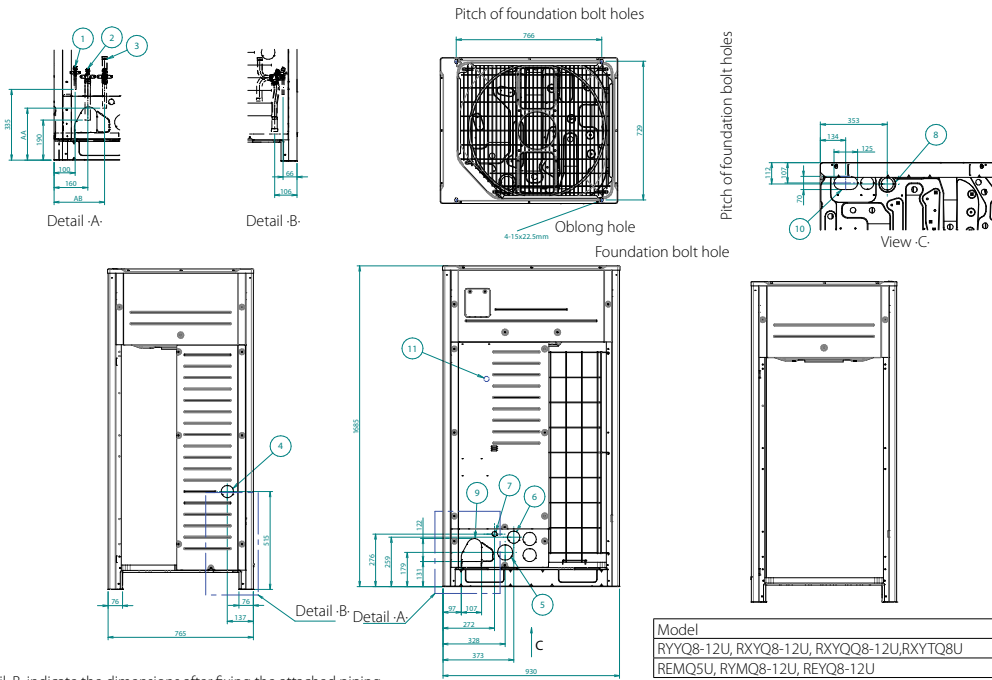
CLICK HERE TO VIEW ALL  
REYQ-U TECHNICAL  
DRAWINGS ON MY.DAIKIN.EU

CLICK HERE TO VIEW ALL  
RXYQQ-U TECHNICAL DRAWINGS  
ON MY.DAIKIN.EU

CLICK HERE TO VIEW ALL  
RYYQ-U TECHNICAL DRAWINGS  
ON MY.DAIKIN.EU

CLICK HERE TO VIEW ALL  
RXYTQ-U TECHNICAL DRAWINGS  
ON MY.DAIKIN.EU

## REMQ5U / REYQ8-12U / RXYQQ8-12U / RXYQ8-12U / RYYQ8-12U / RYMQ8-12U / RXYTQ8UYF



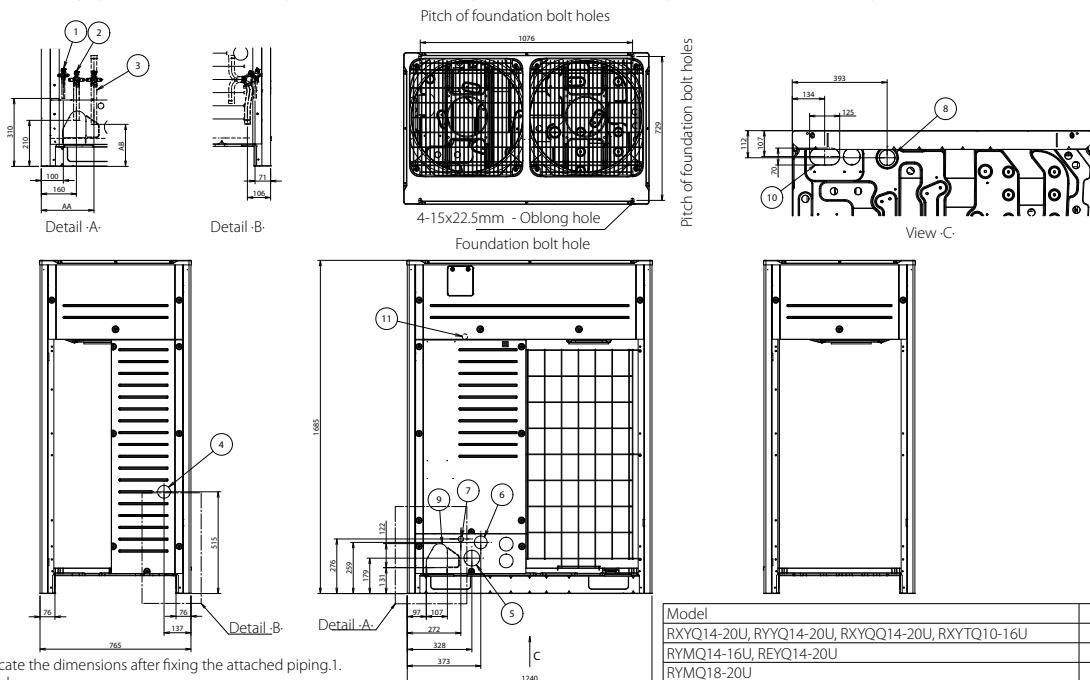
### NOTES

- Detail -A- and detail -B- indicate the dimensions after fixing the attached piping.
- Items 4 - 10: Knockout hole.
- Gas pipe  
 RYYQ8U, RYMQ8U, RXYQ8U, RXYQQ8U, RXYTQ8U: Ø -19.1- brazing connection  
 RYYQ10U, RYMQ10U, RXYQ10U, RXYQQ10U: Ø -22.2- brazing connection  
 REMQ5U, REYQ8-12U: Ø -25.4- brazing connection  
 RYYQ12U, RYMQ12U, RXYQ12U, RXYQQ12U: Ø -28.6- brazing connection  
 Liquid pipe  
 RYYQ8-10U, RYMQ8-10U, RXYQ8-10U, RXYQQ8-10U, REMQ5U, REYQ8-12U, RXYTQ8U: Ø -9.5- brazing connection  
 RYYQ12U, RYMQ12U, RXYQ12U, RXYQQ12U: Ø -12.7- brazing connection  
 Equalising pipe  
 RYMQ8-10U: Ø -19.1- brazing connection  
 RYMQ12U: Ø -22.2- brazing connection  
 High pressure/low pressure gas pipe  
 REMQ5U, REYQ8-12U: Ø -19.1- brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note -3-.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note -3-.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

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## REYQ14-20U / RXYQQ14-20U / RXYQ14-20U / RYYQ14-20U / RYMQ14-20U / RXYTQ10-16UYF



### NOTES

- Detail A and detail B indicate the dimensions after fixing the attached piping.
- Items 4 - 10: Knockout hole.
- Gas pipe  
 RXYTQ10U: Ø 22.2 brazing connection  
 REYQ14-20U: Ø 25.4 brazing connection  
 RXYQ14-20U, RYMQ14-20U, RXYQ14-20U, RXYQQ14-20U, RXYTQ12-16U: Ø 28.6 brazing connection  
 Liquid pipe  
 RXYTQ10U: Ø 9.5 brazing connection  
 RYYQ14-16U, RYMQ14-16U, RXYQ14-16U, RXYQQ14-16U, REYQ14-20U, RXYTQ12-16U: Ø 12.7 brazing connection  
 RYYQ18-20U, RYMQ18-20U, RXYQ18-20U, RXYQQ18-20U: Ø 15.9 brazing connection  
 Equalising pipe  
 RYMQ14-16U: Ø 22.2 brazing connection  
 RYMQ18-20U: Ø 28.6 brazing connection  
 High pressure/low pressure gas pipe  
 REYQ14-20U: Ø 22.2 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	
2	Gas pipe connection port	See note 3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
11	Grounding terminal	

2D119091



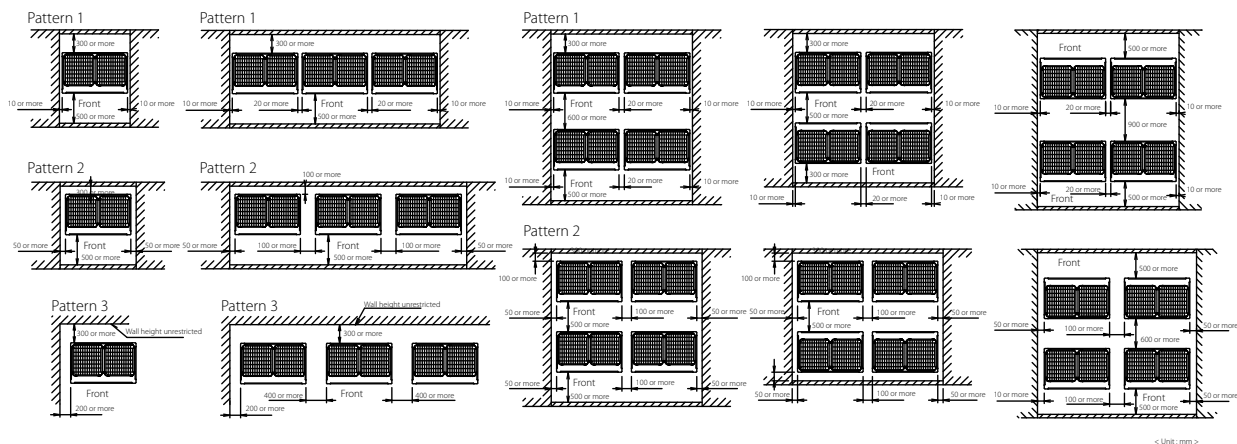


### REM-Q-U / REY-Q-U / RXYQQ-U / RXYQ-U / RYYQ-U / RYM-Q-U / RXYTQ-U/F

For single unit installation

For installation in rows

For centralised group layout



#### NOTES

- Height of the walls in case of patterns 1 and 2:  
Front: 1500mm  
Suction side: 500mm  
Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at 35°C (outdoor temperature).

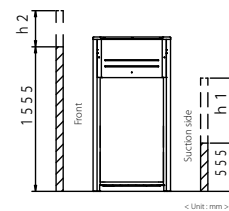
When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.

- If the walls are higher than mentioned above, then additional service space is needed:  
- suction side: service space + h1/2  
- front side: service space + h2/2

- When installing the units, select the pattern that best fits the available space.

Always keep in mind to leave sufficient space for a person to pass between unit and wall and for the air to circulate freely. If more units are to be installed than are catered for in the above patterns, your layout should take into account of the possibility of short circuits.

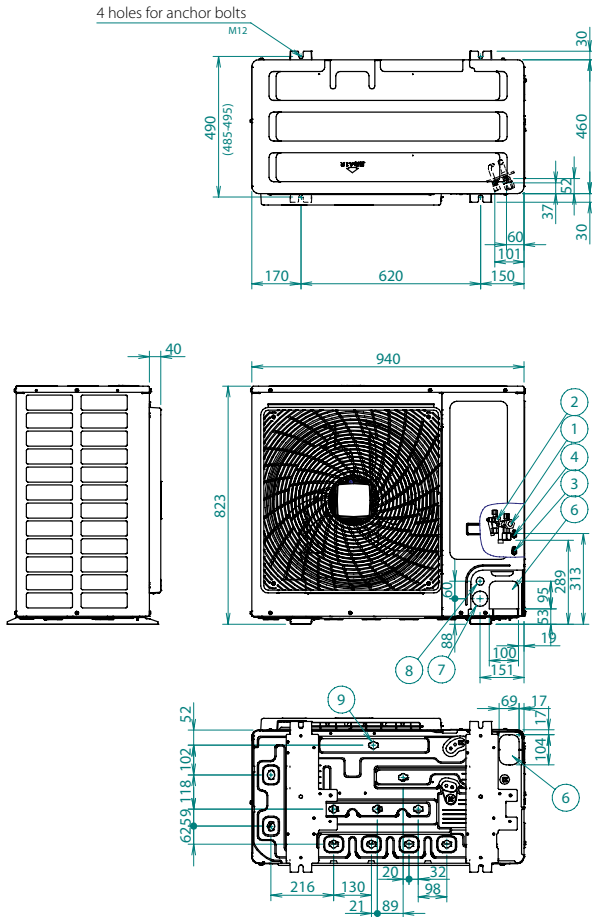
- Provide sufficient space at the front to connect refrigerant piping (comfortably).



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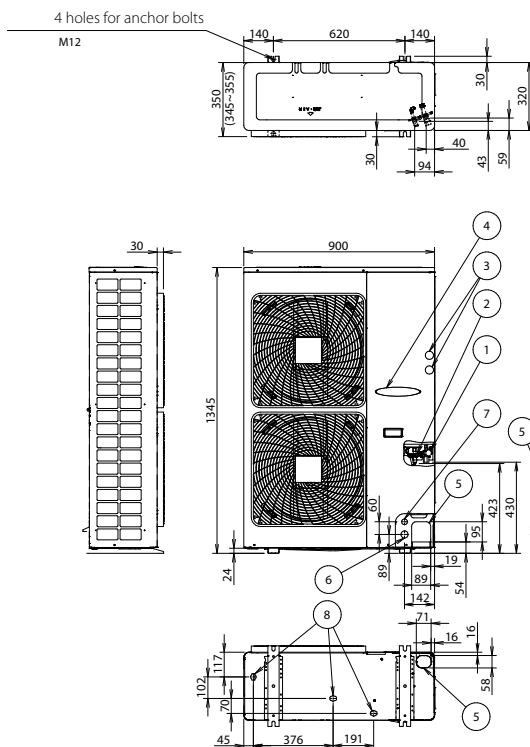
## RXYSQ-TV1



1	Gas pipe connection -AA- flare
2	Liquid pipe connection -Ø9.52- brazing
3	Service port (in the unit) High pressure
4	Service port (in the unit) Additional refrigerant charge
5	Grounding terminal Inside of the switch box (-M5-)
6	Refrigerant piping intake (knockout hole)
7	Power supply wiring intake (knockout hole -Ø53-)
8	Control wiring intake (knockout hole -Ø27-)
9	Drain pipe connection (outside diameter -Ø26-)

3D098107A

## RXYSQ-TV9 / TY9



1	Gas pipe connection A
2	Liquid pipe connection Ø9.5 flare
3	(2X) Service port (in the unit)
4	Electronic connection and grounding terminal M5 (in the switch box)
5	Refrigerant piping intake
6	Power supply wiring intake (knockout hole Ø34)
7	Control wiring intake (knockout hole Ø27)
8	Drain outlet

Model	RA indoor unit	A	VRV indoor unit
RXYSQ4(P8/T7/T8)V(1)B	Ø19.1 brazed connection		Ø15.9 flared connection
RXYSQ5(P8/T7/T8)V(1)B	Ø19.1 brazed connection		Ø15.9 flared connection
RXYSQ6(P8/T7/T8)V(1)B		Ø19.1 brazed connection	
RXYSQ4(P8/T7/T8)Y(1)B	Ø19.1 brazed connection		Ø15.9 flared connection
RXYSQ5(P8/T7/T8)Y(1)B	Ø19.1 brazed connection		Ø15.9 flared connection
RXYSQ6(P8/T7/T8)Y(1)B		Ø19.1 brazed connection	

3TW30374-1E



**RXYSCQ-TV1**

Required installation space

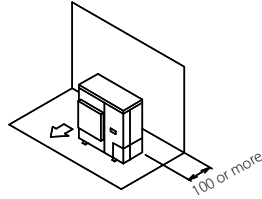
The unit of the values is mm.

**1. Where there is an obstacle**

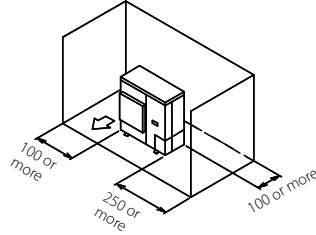
**on the suction side:**

**(a) No obstacle above**

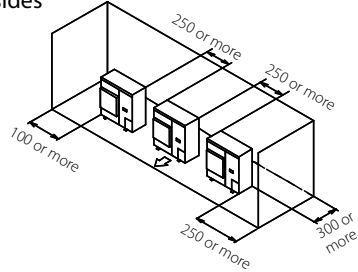
- (1) Stand-alone installation
  - Obstacle on the suction side only



- Obstacle on both sides

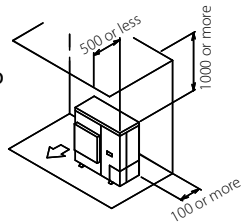


- (2) Series installation (2 or more)
  - Obstacle on both sides

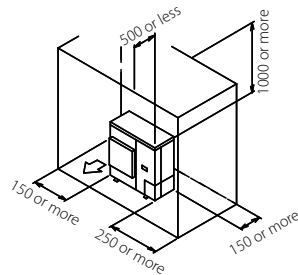


**(b) Obstacle above, too**

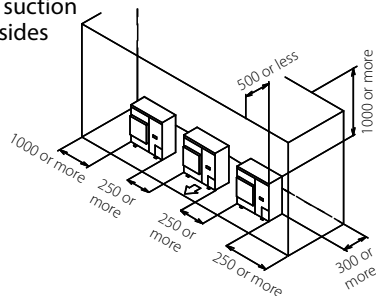
- (1) Stand-alone installation
  - Obstacle on the suction side, too



- Obstacle on the suction side and both sides



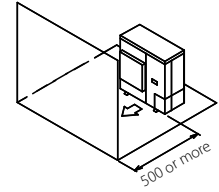
- (2) Series installation (2 or more)
  - Obstacle on the suction side and both sides



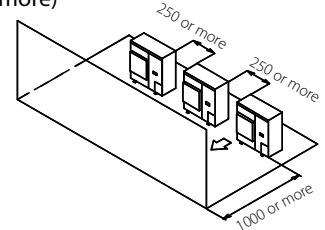
**2. Where there is an obstacle on the discharge side:**

**(a) No obstacle above**

- (1) Stand-alone installation

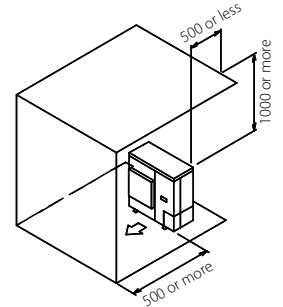


- (2) Series installation (2 or more)

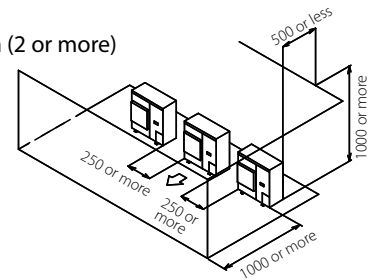


**(b) Obstacle above, too**

- (1) Stand-alone installation



- (2) Series installation (2 or more)



**3. Where there are obstacles on both suction and discharge sides:**

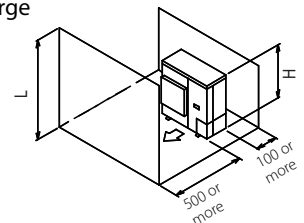
Pattern 1

Where the obstacles on the discharge side is higher than the unit:  
(There is no height limit for obstructions on the intake side.)

**(a) No obstacle above**

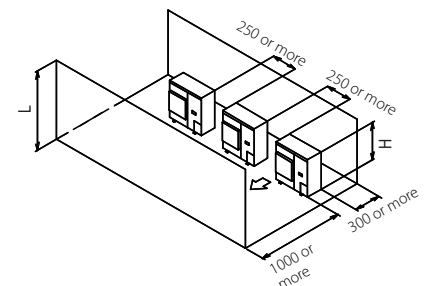
- (1) Stand-alone installation

$$L > H$$



- (2) Series installation (2 or more)

$$L > H$$



**RXYSQC-TV1**

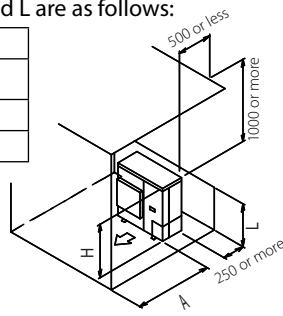
**(b) Obstacle above, too**

**(1) Stand-alone installation**

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	750
	$1/2H < L \leq H$	1000
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



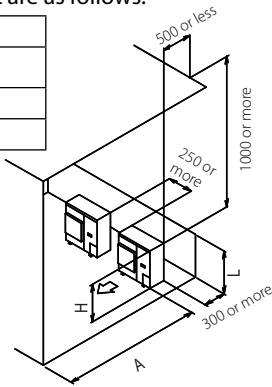
**(2) Series installation (2 or more)**

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	1000
	$1/2H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.



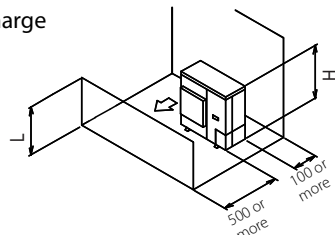
**Pattern 2**

Where the obstacles on the discharge side is lower than the unit:  
(There is no height limit for obstructions on the intake side.)

**(a) No obstacle above**

**(1) Stand-alone installation**

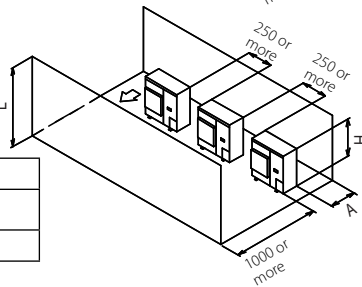
$L \leq H$



**(2) Series installation (2 or more)**

The relations between H, A and L are as follows.

L	A
$0 < L \leq 1/2H$	250
$1/2H < L \leq H$	300



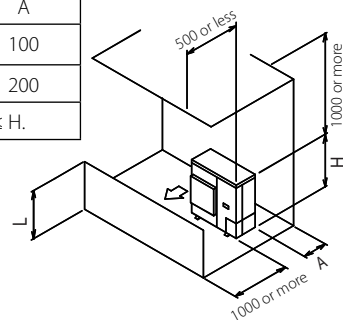
**(b) Obstacle above, too**

**(1) Stand-alone installation**

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	100
	$1/2H < L \leq H$	200
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

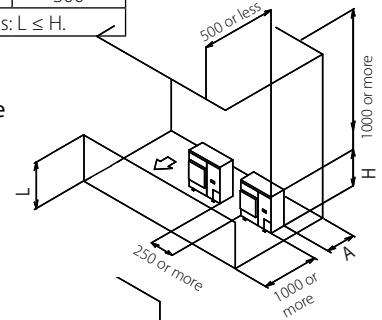


**(2) Series installation**

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300
$H < L$	Set the stand as: $L \leq H$ .	

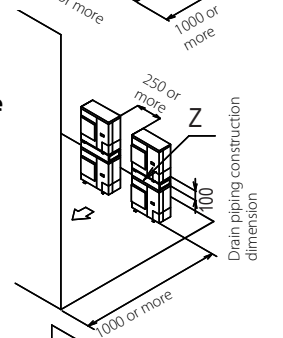
Close the bottom of the installation frame to prevent the discharged air from being bypassed. Only two units can be installed for this series.



**4. Double-decker installation**

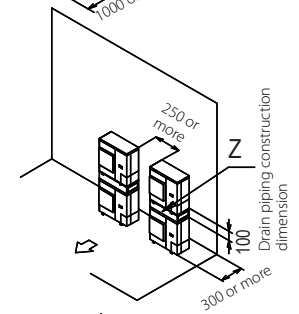
**(a) Obstacle on the discharge side**

Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



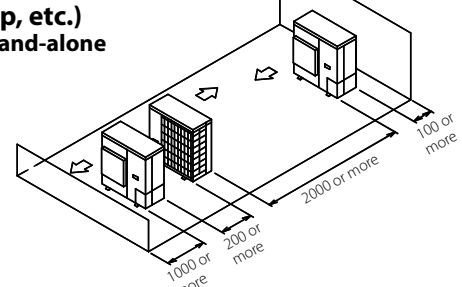
**(b) Obstacle on the suction side**

Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



**5. Multiple rows of series installation (on the rooftop, etc.)**

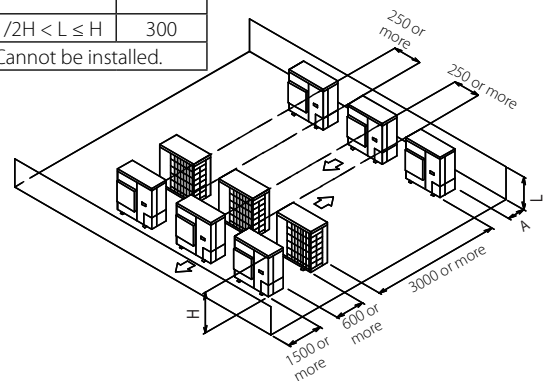
**(a) One row of stand-alone installation**



**(b) Rows of series installation (2 or more)**

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300
$H < L$	Cannot be installed.	



<HEAT PUMP AIR CONDITIONER>  
INVERTER TYPE

**3D089310C**





## RXYSQ-TV9/TY9

### Required installation space

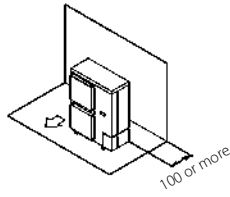
The unit of the values is mm.

#### (A) When there are obstacles

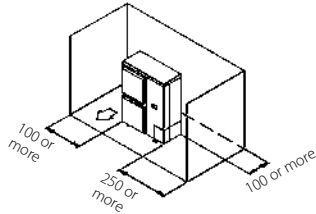
##### on suction sides

###### • No obstacle above

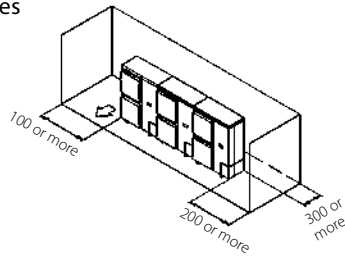
- ① Stand-alone installation
  - Obstacle on the suction side only



- Obstacle on both sides

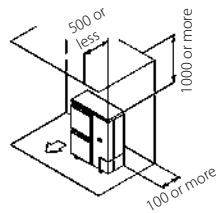


- ② Series installation (2 or more)
  - Obstacle on both sides

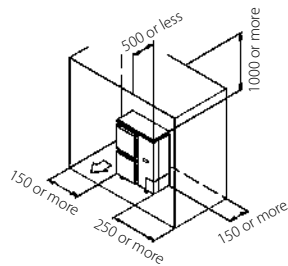


###### • Obstacle above, too

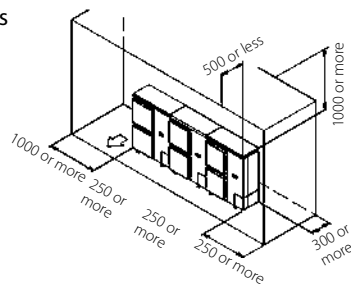
- ① Stand-alone installation
  - Obstacle on the suction side, too



- Obstacle on the suction side, and both sides



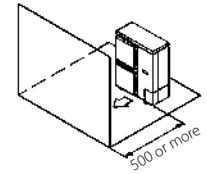
- ② Series installation (2 or more)
  - Obstacle on the suction side, and both sides



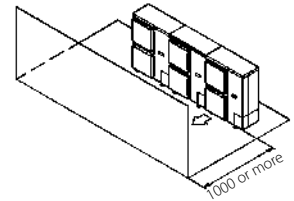
#### (B) When there are obstacles on discharge sides

##### • No obstacle above

- ① Stand-alone installation

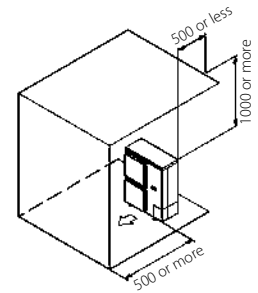


- ② Series installation (2 or more)

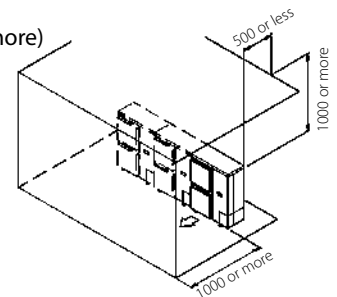


##### • Obstacle above, too

- ① Stand-alone installation



- ② Series installation (2 or more)



#### (C) When there are obstacles on both suction and discharge sides

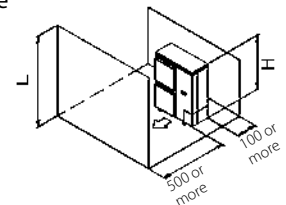
##### Pattern 1

Where the obstacles on the discharge side is higher than the unit:  
(There is no height limit for obstructions on the intake side.)

##### • No obstacle above

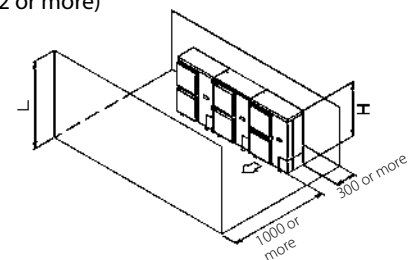
- ① Stand-alone installation

$$L > H$$



- ② Series installation (2 or more)

$$L > H$$





**RXYSQ-TV9/TY9**

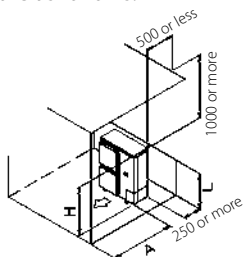
• **Obstacle above, too**

① Stand-alone installation

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	750
	$1/2H < L \leq H$	1000
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

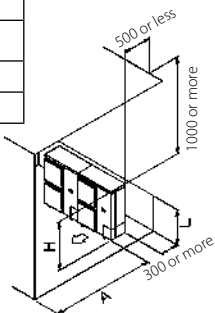


② Series installation (2 or more)

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	1000
	$1/2H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



Only two units can be installed for this series.

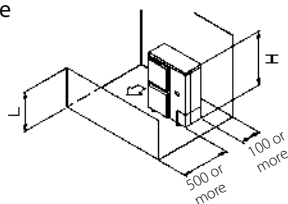
**Pattern 2**

When the obstacles on the discharge side is lower than the unit:  
(There is no height limit for obstructions on the intake side.)

• **No obstacle above**

① Stand-alone installation

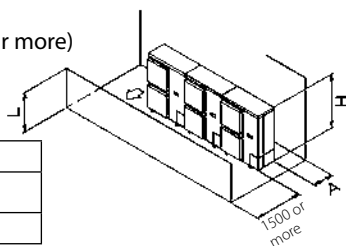
$L \leq H$



② Series installation (2 or more)

The relations between H, A and L are as follows.

L	A
$0 < L \leq 1/2H$	250
$1/2H < L \leq H$	300



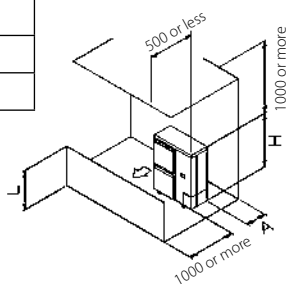
• **Obstacle above, too**

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	100
	$1/2H < L \leq H$	200
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

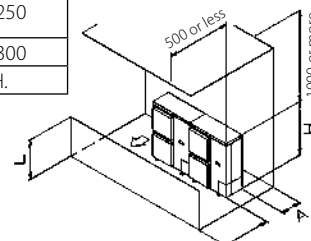


② Series installation

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300
$H < L$	Set the stand as: $L \leq H$ .	

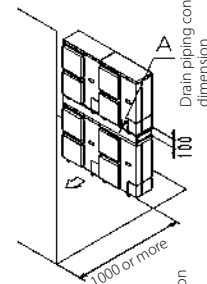
Close the bottom of the installation frame to prevent the discharged air from being bypassed. Only two units can be installed for this series.



**(D) Double-decker installation**

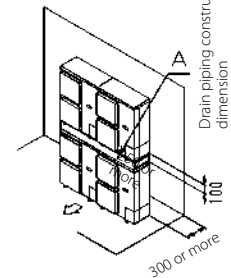
① Obstacle on the discharge side

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



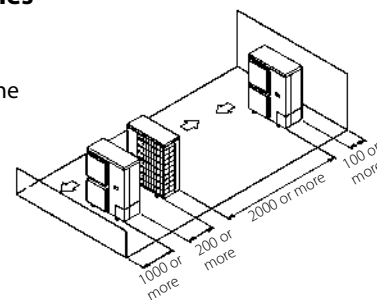
② Obstacle on the suction side

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed. Do not stack more than two unit.



**(E) Multiple rows of series installation (on the rooftop, etc.)**

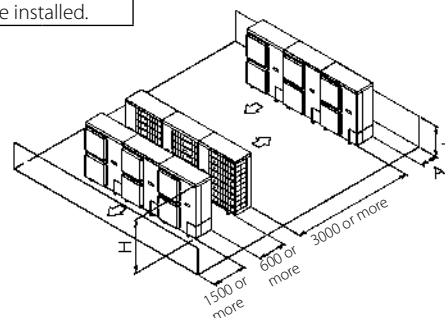
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300
$H < L$	Cannot be installed.	



**RXYSQ8TY1**

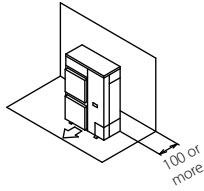
Required installation space

The unit of the values is mm.

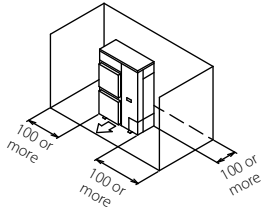
**1. Where there is an obstacle on the suction side:**

**(a) No obstacle above**

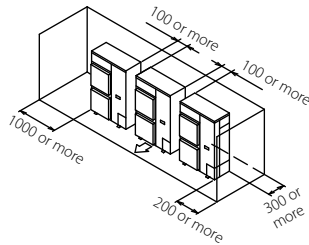
- (1) Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides

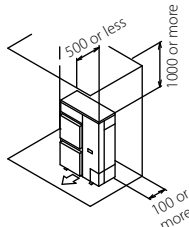


- (2) Series installation (2 or more) (note)
- Obstacle on both sides

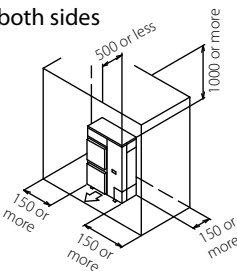


**(b) Obstacle above, too**

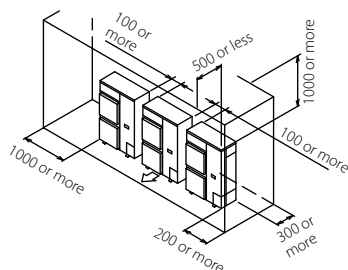
- (1) Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on the suction side and both sides



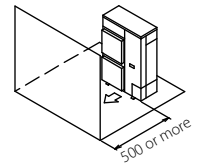
- (2) Series installation (2 or more) (note)
- Obstacle on the suction side and both sides



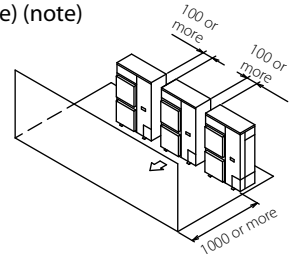
**2. Where there is an obstacle on the discharge side:**

**(a) No obstacle above**

- (1) Stand-alone installation

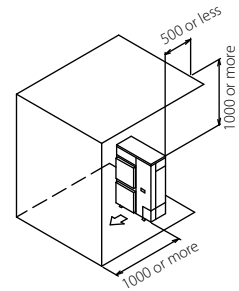


- (2) Series installation (2 or more) (note)

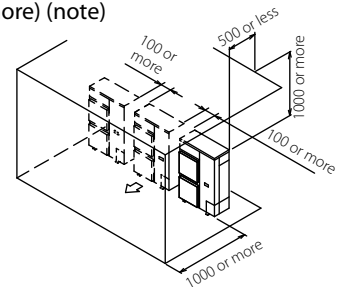


**(b) Obstacle above, too**

- (1) Stand-alone installation



- (2) Series installation (2 or more) (note)



**3. Where there are obstacles on both suction and discharge sides:**

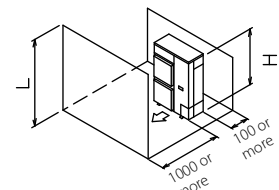
**Pattern 1**

Where the obstacles on the discharge side is higher than the unit:  
(There is no height limit for obstructions on the intake side.)

**(a) No obstacle above**

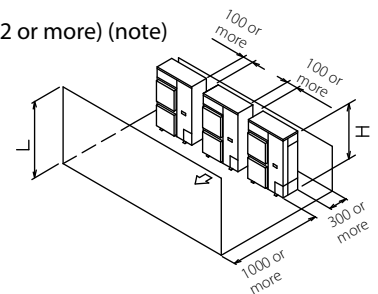
- (1) Stand-alone installation

$L > H$



- (2) Series installation (2 or more) (note)

$L > H$



**RXYSQ8TY1**

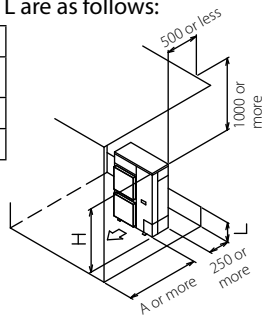
**(b) Obstacle above, too**

**(1) Stand-alone installation**

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	1000
	$1/2H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



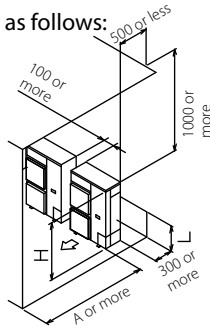
**(2) Series installation (2 or more) (note)**

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	1000
	$1/2H < L \leq H$	1250
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.



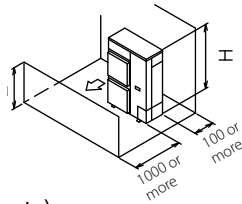
**Pattern 2**

Where the obstacles on the discharge side is lower than the unit:  
(There is no height limit for obstructions on the intake side.)

**(c) No obstacle above**

**(1) Stand-alone installation**

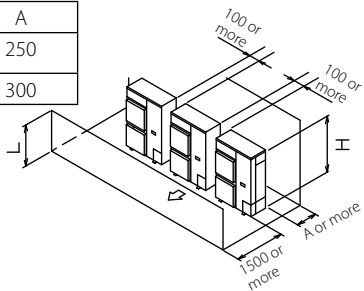
$L \leq H$



**(2) Series installation (2 or more) (note)**

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300



**(d) Obstacle above, too**

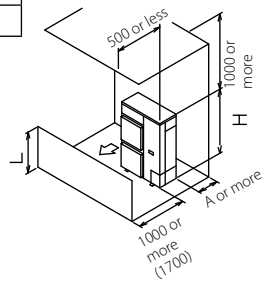
**(1) Stand-alone installation**

The relations between H, A and L are as follows:

	L	A
$L \leq H$	$0 < L \leq 1/2H$	100
	$1/2H < L \leq H$	200
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceed the figure in the ( ), then it's no need to set the stand.



**(2) Series installation (note)**

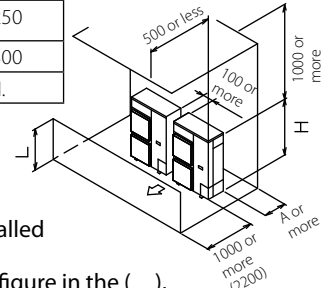
The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300
$H < L$	Set the stand as: $L \leq H$ .	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.

If the distance exceed the figure in the ( ), then it's no need to set the stand.

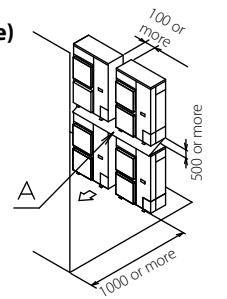


**4. Double-decker installation**

**(a) Obstacle on the discharge side (note)**

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

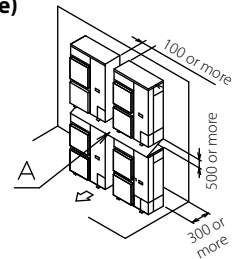
Do not stack more than two unit. Set the board (field supply) as the detail A between two units to prevent the drainage from freezing. Leave the enough space between the layer one and the board.



**(b) Obstacle on the suction side (note)**

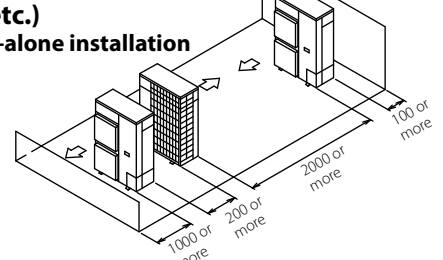
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two unit. Set the board (field supply) as the detail A between two units to prevent the drainage from freezing. Leave the enough space between the layer one and the board.



**5. Multiple rows of series installation (on the rooftop, etc.)**

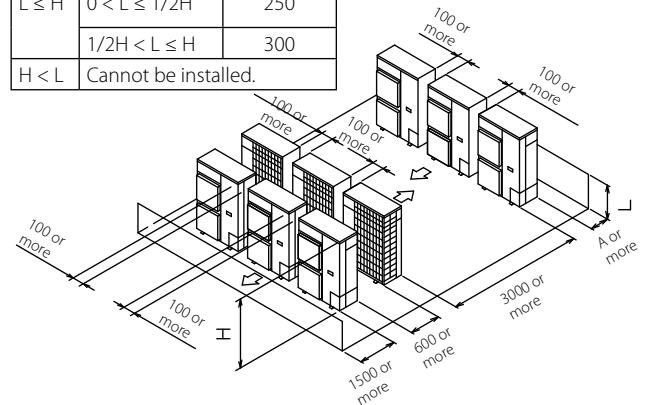
**(a) One row of stand-alone installation**



**(b) Rows of series installation (2 or more)**

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$0 < L \leq 1/2H$	250
	$1/2H < L \leq H$	300
$H < L$	Cannot be installed.	



OUTDOOR UNIT FOR VRV SYSTEM

**NOTES**

When install the units in a line, have to leave the distance over 100mm between the two units.

## RXYSQ10-12TY1

### Required installation space

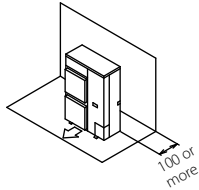
The unit of the values is mm.

### 1. Where there is an obstacle on the suction side:

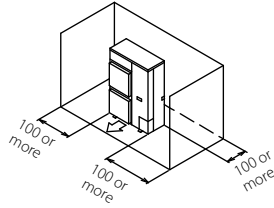
#### (a) No obstacle above

##### (1) Stand-alone installation

- Obstacle on the suction side only

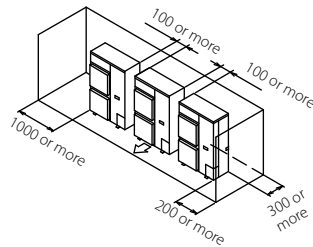


- Obstacle on both sides



##### (2) Series installation (2 or more) (note)

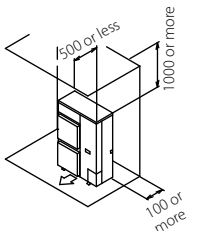
- Obstacle on both sides



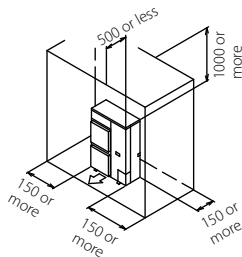
#### (b) Obstacle above, too

##### (1) Stand-alone installation

- Obstacle on the suction side, too

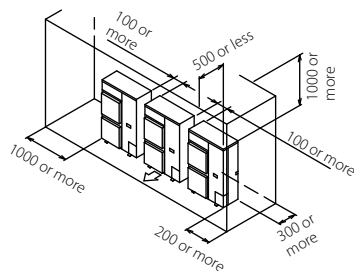


- Obstacle on the suction side and both sides



##### (2) Series installation (2 or more) (note)

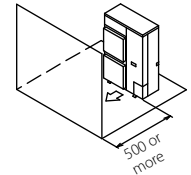
- Obstacle on the suction side and both sides



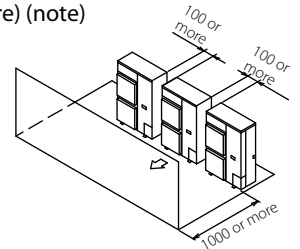
### 2. Where there is an obstacle on the discharge side:

#### (a) No obstacle above

##### (1) Stand-alone installation

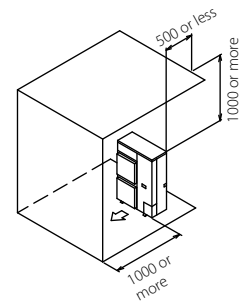


##### (2) Series installation (2 or more) (note)

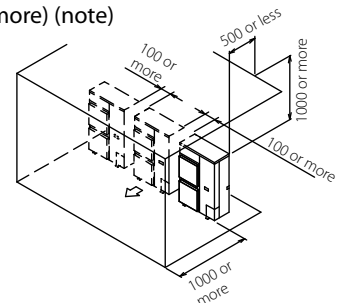


#### (b) Obstacle above, too

##### (1) Stand-alone installation



##### (2) Series installation (2 or more) (note)



### 3. Where there are obstacles on both suction and discharge sides:

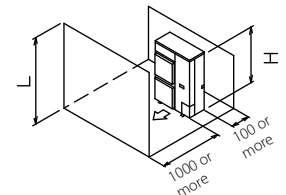
#### Pattern 1

Where the obstacles on the discharge side is higher than the unit:  
(There is no height limit for obstructions on the intake side.)

#### (a) No obstacle above

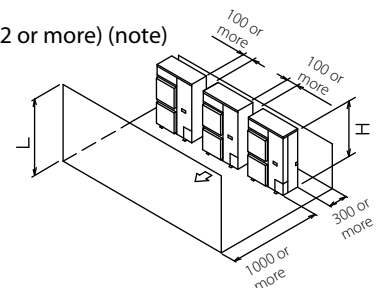
##### (1) Stand-alone installation

$L > H$



##### (2) Series installation (2 or more) (note)

$L > H$





**RXYSQ10-12TY1**

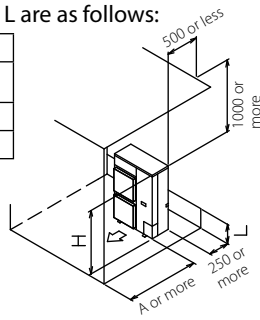
**(b) Obstacle above, too**

**(1) Stand-alone installation**

The relations between H, A and L are as follows:

	L	A
L ≤ H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



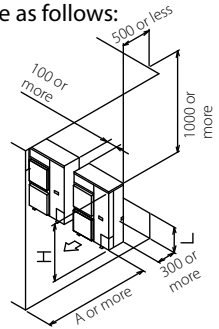
**(2) Series installation (2 or more) (note)**

The relations between H, A and L are as follows:

	L	A
L ≤ H	0 < L ≤ 1/2H	1000
	1/2H < L ≤ H	1250
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.



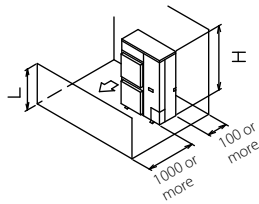
**Pattern 2**

Where the obstacles on the discharge side is lower than the unit:  
(There is no height limit for obstructions on the intake side.)

**(c) No obstacle above**

**(1) Stand-alone installation**

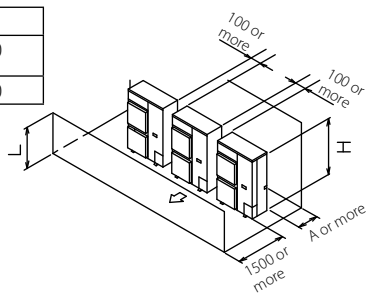
$L \leq H$



**(2) Series installation (2 or more) (note)**

The relations between H, A and L are as follows.

	L	A
L ≤ H	0 < L ≤ 1/2H	250
	1/2H < L ≤ H	300



**(d) Obstacle above, too**

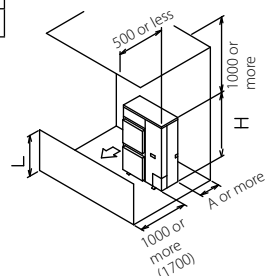
**(1) Stand-alone installation**

The relations between H, A and L are as follows.

	L	A
L ≤ H	0 < L ≤ 1/2H	100
	1/2H < L ≤ H	200
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

If the distance exceed the figure in the ( ), then it's no need to set the stand.



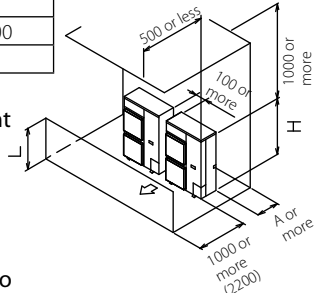
**(2) Series installation (note)**

The relations between H, A and L are as follows.

	L	A
L ≤ H	0 < L ≤ 1/2H	250
	1/2H < L ≤ H	300
H < L	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.  
If the distance exceed the figure in the ( ), then it's no need to set the stand.

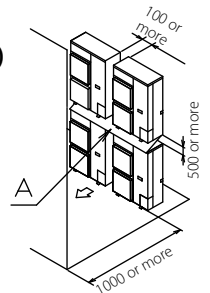


**4. Double-decker installation**

**(a) Obstacle on the discharge side (note)**

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

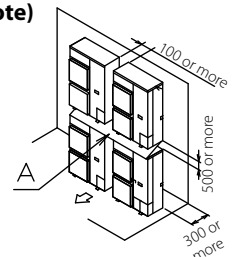
Do not stack more than two unit.  
Set the board (field supply) as the detail A between two units to prevent the drainage from freezing.  
Leave the enough space between the layer one and the board.



**(b) Obstacle on the suction side (note)**

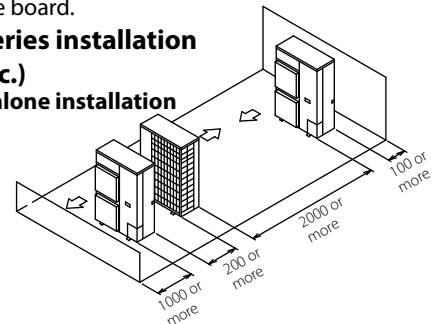
Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharge air from being bypassed.

Do not stack more than two unit.  
Set the board (field supply) as the detail A between two units to prevent the drainage from freezing.  
Leave the enough space between the layer one and the board.



**5. Multiple rows of series installation (on the rooftop, etc.)**

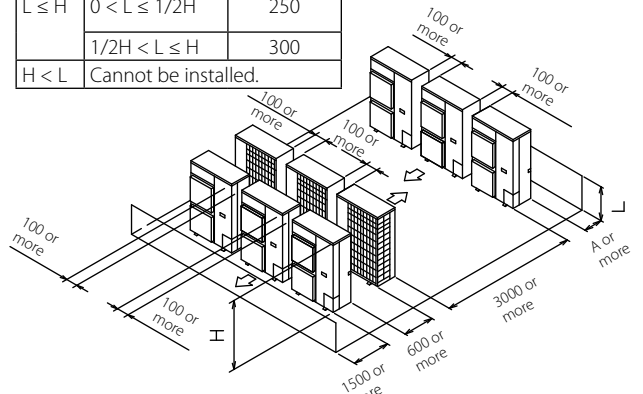
**(a) One row of stand-alone installation**



**(b) Rows of series installation (2 or more)**

The relations between H, A and L are as follows.

	L	A
L ≤ H	0 < L ≤ 1/2H	250
	1/2H < L ≤ H	300
H < L	Cannot be installed.	



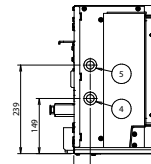
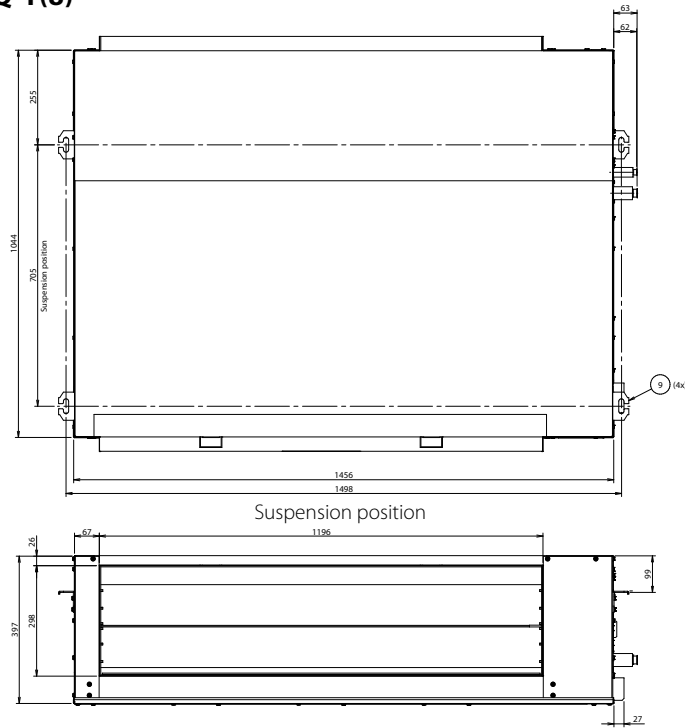
OUTDOOR UNIT FOR VRV SYSTEM

**NOTES**

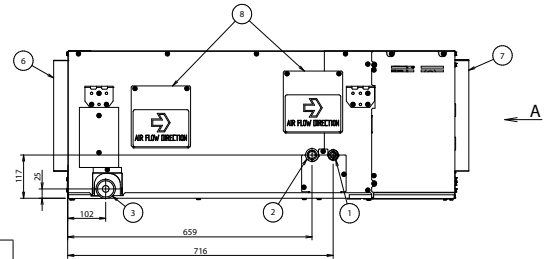
When install the units in a line, have to leave the distance over 100mm between the two units.



**RDXYQ-T(8)**



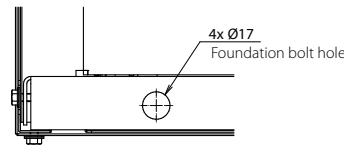
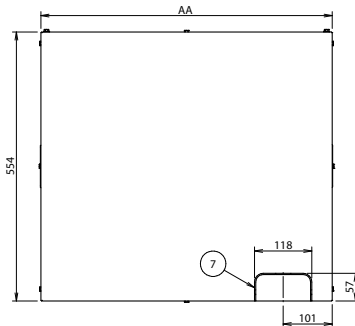
View A



No.	Part name	Remark
1	Liquid pipe connection port	Ø 12.7 brazing connection
2	Gas pipe connection port	Ø 19.1 brazing connection
3	Drain outlet	VP25
4	Wiring intake (high voltage wiring)	Power supply connection
5	Wiring intake (low voltage wiring)	Transmission wiring connection
6	Air suction side	
7	Air discharge side	
8	Service door	
9	Hook	

**2D112002**

**RKXYQ-T(8)**

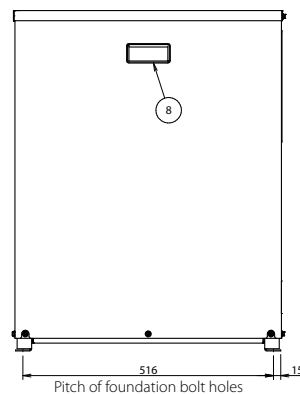
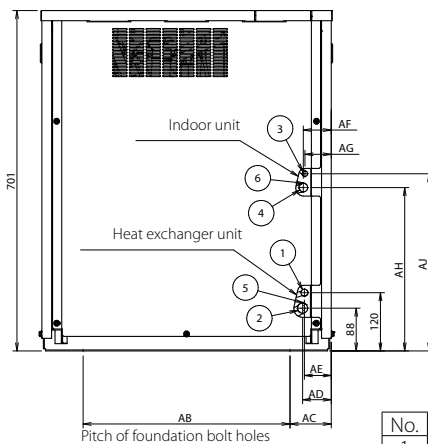


View A

Model	AA	AB	AC	AD	AE	AF	AG	AH	AJ
RKXYQ5T	600	426	85	59	55	57	54	337	365
RKXYQ8T	760	600	78	55	52	55	52	197	222

**NOTES**

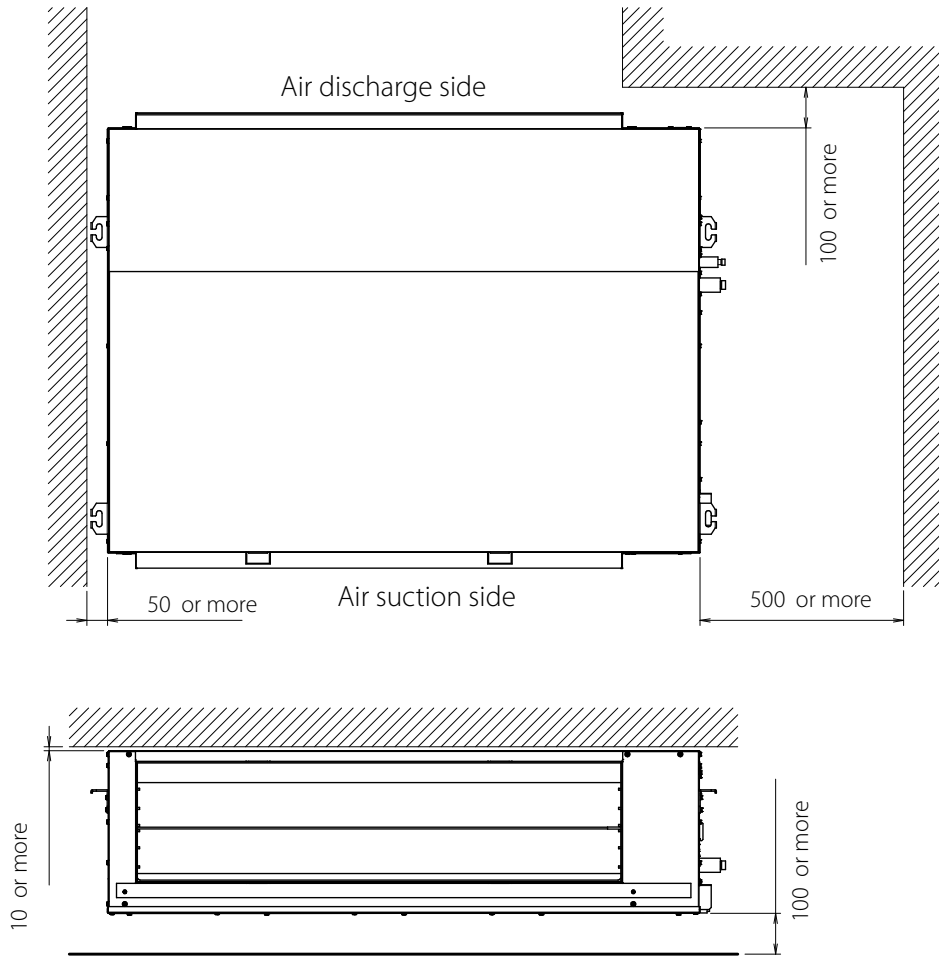
- Indoor unit  
RKXYQ5T : Ø 15.9 brazing connection  
RKXYQ8T : Ø 19.1 brazing connection
- Heat exchanger unit  
RKXYQ5T : Ø 19.1 brazing connection  
RKXYQ8T : Ø 22.2 brazing connection



No.	Part name	Remark
1	Liquid pipe connection port	Ø 12.7 brazing connection
2	Gas pipe connection port	See note 2.
3	Liquid pipe connection port	Ø 9.5 brazing connection
4	Gas pipe connection port	See note 1.
5	Wiring intake (high voltage wiring)	Power supply connection
6	Wiring intake (low voltage wiring)	Transmission wiring connection
7	Pipe routing hole	Knockout hole.
8	Handle	

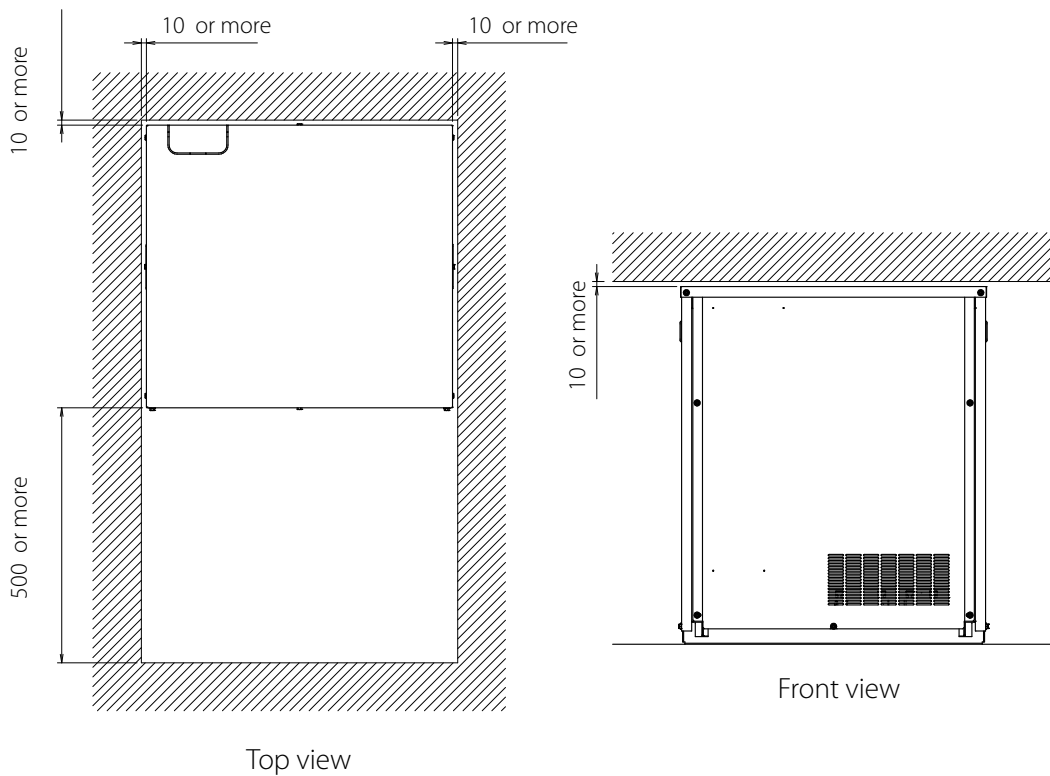
**3D098827A**

**RDXYQ-T(8)**



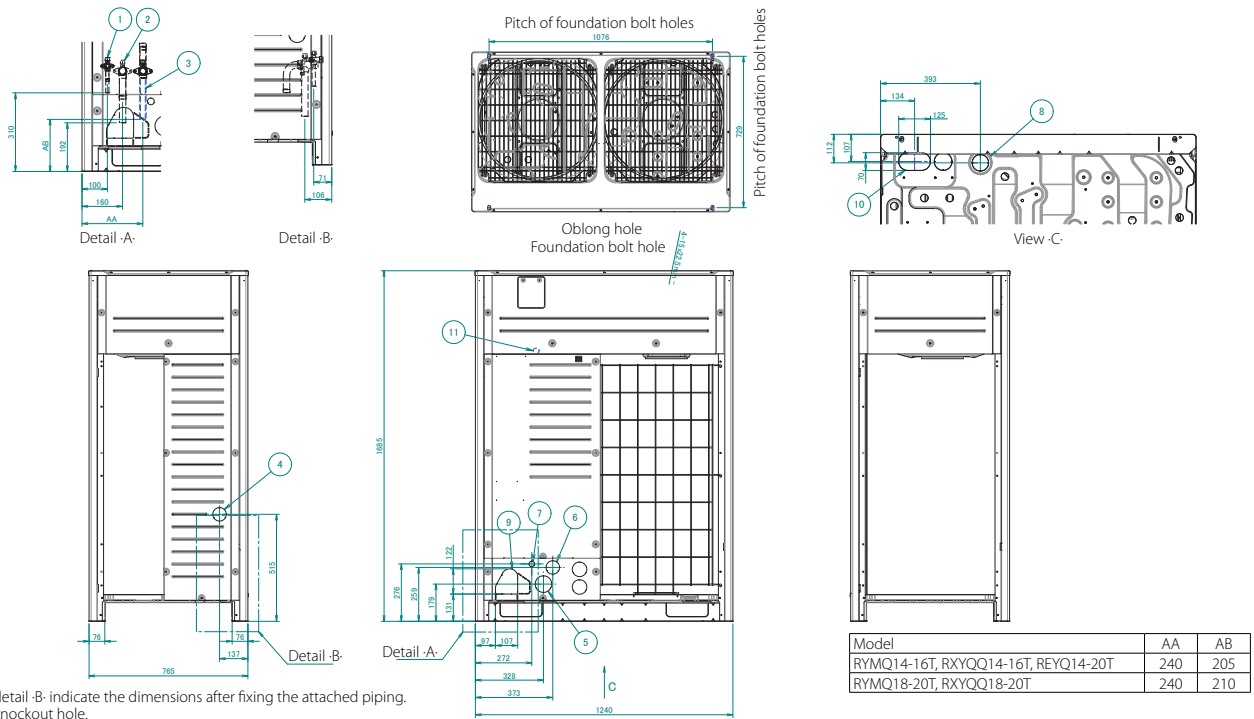
**3D098834**

**RKXYQ-T(8)**



**3D098835**

**RXMLQ-T - RXYLQ-T**



**NOTES**

- Detail -A and detail -B indicate the dimensions after fixing the attached piping.
- Items 4 - 10: Knockout hole.
- Gas pipe  
 RXMLQ8T: Ø 19.1 brazing connection  
 RXYTQ10T, RXYLQ10T: Ø 22.2 brazing connection  
 REYQ14-20T: Ø 25.4 brazing connection  
 RYYQ14-20T, RYMQ14-20T, RXYQ14-20T, RXYQQ14-20T, RXYTQ12-16T, RXYLQ12-14T: Ø 28.6 brazing connection  
 Liquid pipe  
 RXYTQ10T, RXMLQ8T, RXYLQ10T: Ø 9.5 brazing connection  
 RYYQ14-16T, RYMQ14-16T, RXYQ14-16T, RXYQQ14-16T, REYQ14-20T, RXYTQ12-16T, RXYLQ12-14T: Ø 12.7 brazing connection  
 RYYQ18-20T, RYMQ18-20T, RXYQ18-20T, RXYQQ18-20T: Ø 15.9 brazing connection  
 Equalising pipe  
 RYMQ14-16T: Ø 22.2 brazing connection  
 RYMQ18-20T: Ø 28.6 brazing connection  
 High pressure/low pressure gas pipe  
 REYQ14-20T: Ø 22.2 brazing connection

No.	Part name	Remark
1	Liquid pipe connection port	See note -3.
2	Gas pipe connection port	See note -3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note -3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (-M8)

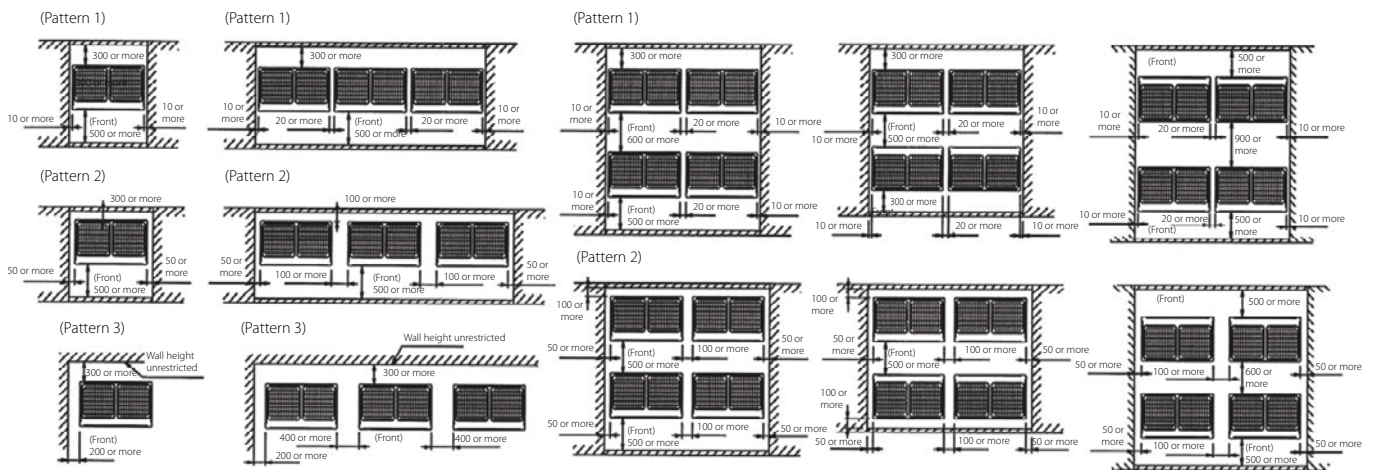
**2D079533E**

**RXMLQ-T - RXYLQ-T**

For single unit installation

For installation in rows

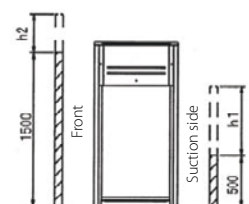
For centralized group layout



< Unit : mm >

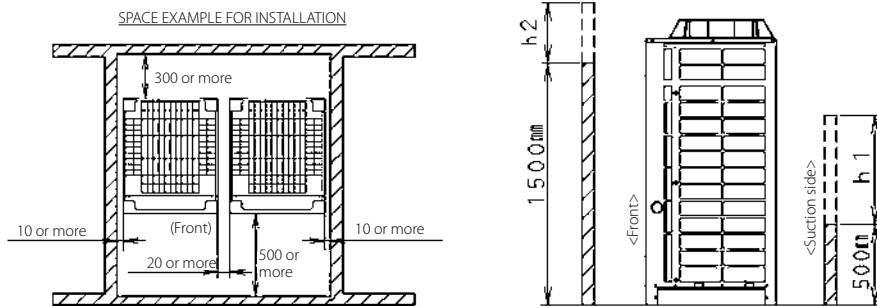
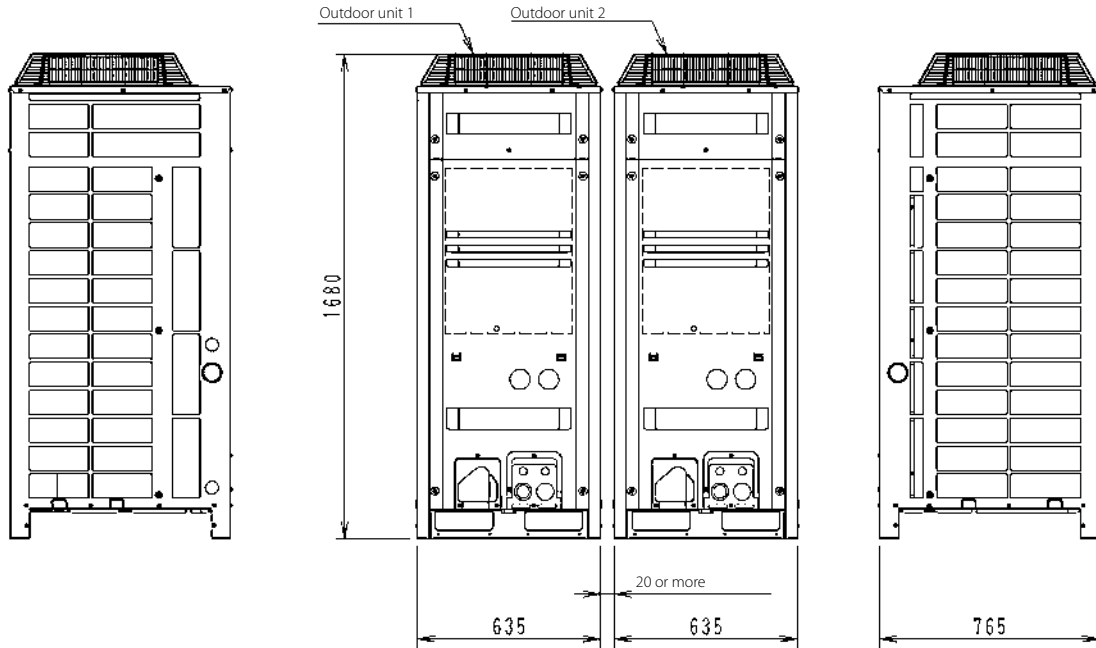
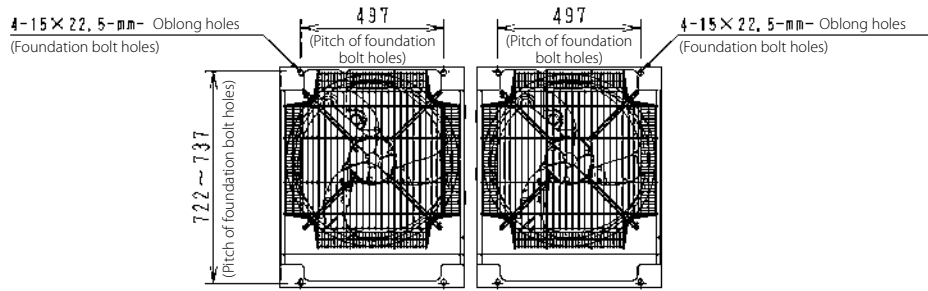
**NOTES**

- Heights of walls in case of patterns 1 and 2:  
 Front: 1500mm  
 Suction side: 500mm  
 Side: Height unrestricted  
 Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.  
 When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.
- If the above wall heights are exceeded then  $h/2$  and  $h/2$  should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available. Always keep in mind the need to leave enough space for a person to pass between units and wall and also for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



**3D079542**

RQCEQ280P3



Unit : mm

Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°
RQCEQ280P	RREQ140P	3D066441	RREQ140P	3D066441

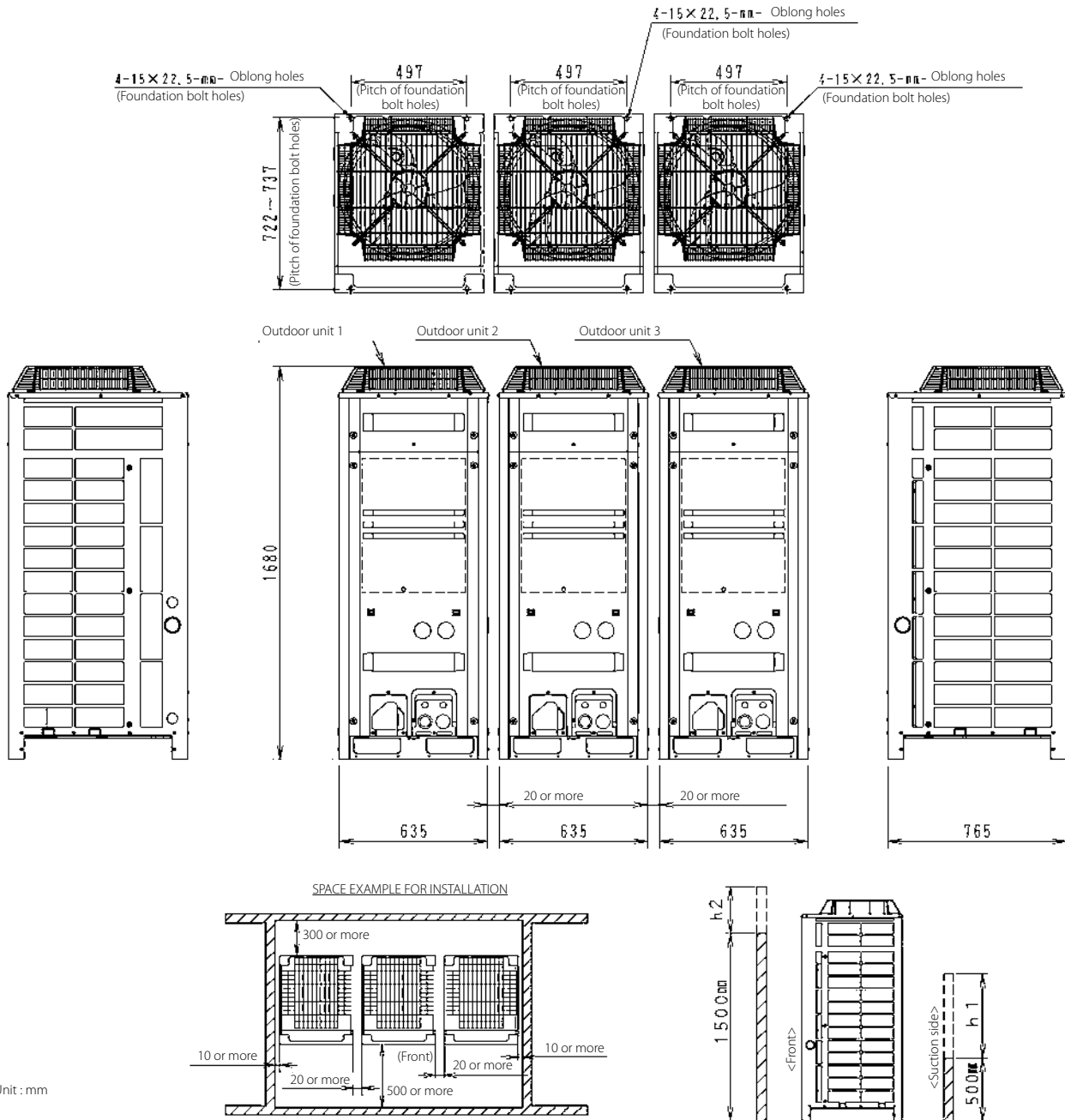
NOTES

- Heights of walls  
Front: 1500mm  
Suction side: 500mm  
Side: Height unrestricted  
The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C.  
The installation space of suction side shown above must be expanded in the following case.  
- Design outdoor temperature becomes over 35°C.  
- Operating over Max. operating load  
(In case of causing a heavy heating load at indoor unit side)
- If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.





RQCEQ460-540P3

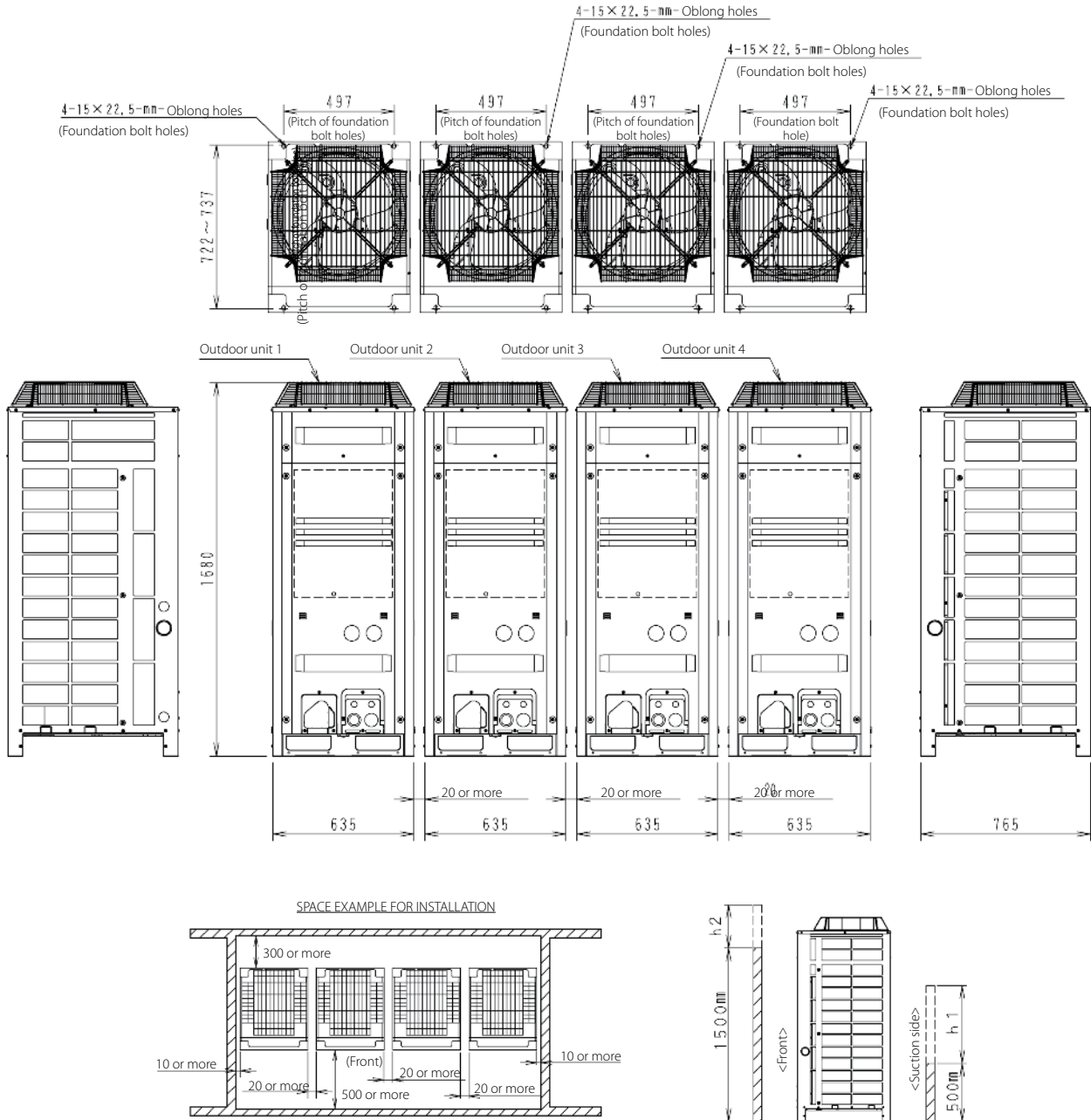


Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	Outdoor unit 3	Drawing N°
RQCEQ460P3	RQEQ180P3	3D066441A	RQEQ140P3	3D066441A	RQEQ140P3	3D066441A
RQCEQ500P3	RQEQ180P3	3D066441A	RQEQ180P3	3D066441A	RQEQ140P3	3D066441A
RQCEQ540P3	RQEQ180P3	3D066441A	RQEQ180P3	3D066441A	RQEQ140P3	3D066441A

NOTES

- Heights of walls  
Front: 1500mm  
Suction side: 500mm  
Side: Height unrestricted  
The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C.  
The installation space of suction side shown above must be expanded in the following case.  
- Design outdoor temperature becomes over 35°C.  
- Operating over Max. operating load  
(In case of causing a heavy heating load at indoor unit side)
- If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

RQCEQ721-816P3



Unit : mm

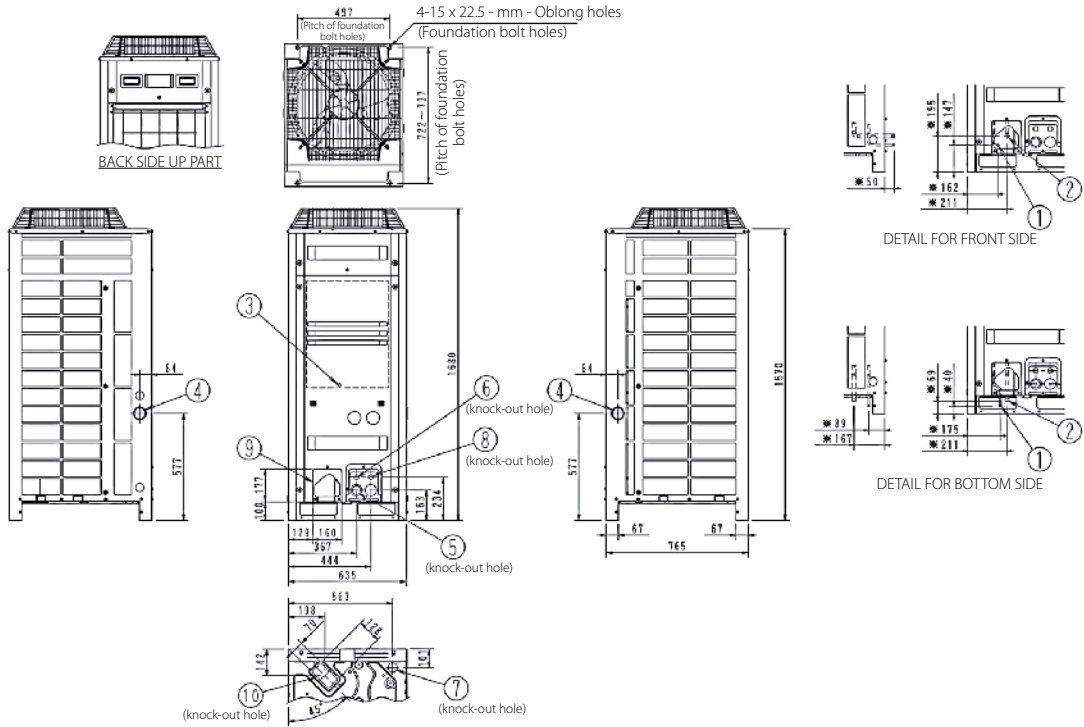
Model name	Outdoor unit 1	Drawing N°	Outdoor unit 2	Drawing N°	Outdoor unit 3	Drawing N°	Outdoor unit 4	Drawing N°
RQCEQ712P3	RQEQ212P3	3D066441A	RQEQ180P3	3D0664413	RQEQ180PA	3D066441A	RQEQ140P3	3D066441A
RQCEQ744P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ180PA	3D066441A	RQEQ140P3	3D066441A
RQCEQ816P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ212PA	3D066441A	RQEQ180P3	3D066441A

NOTES

- Heights of walls  
 Front: 1500mm  
 Suction side: 500mm  
 Side: Height unrestricted  
 The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35°C.  
 The installation space of suction side shown above must be expanded in the following case.  
 - Design outdoor temperature becomes over 35°C.  
 - Operating over Max. operating load  
 (In case of causing a heavy heating load at indoor unit side)
- If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the following figure.
- When installing the units the most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough room for a person to pass between units and wall for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



RQYQ140P



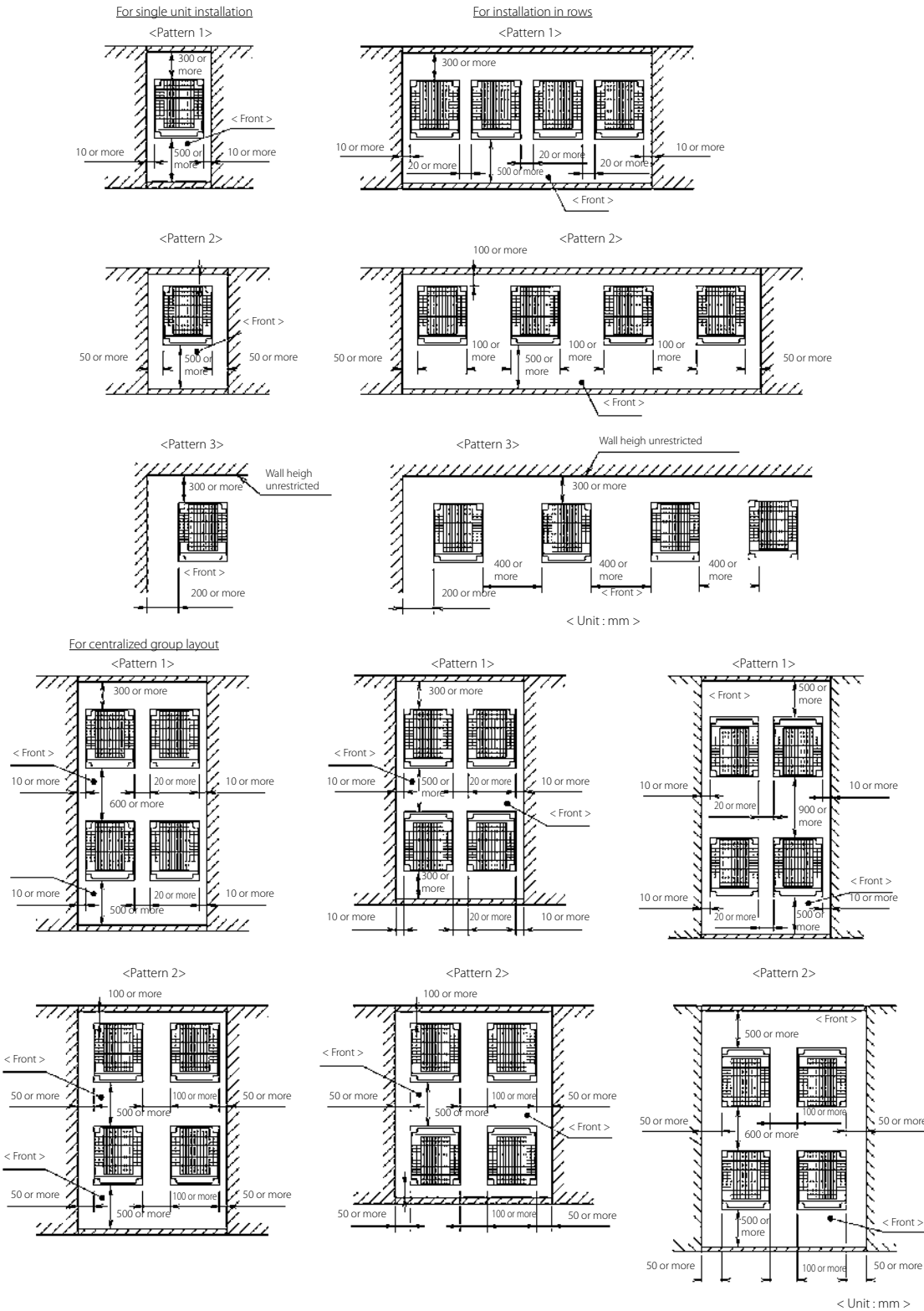
No.	Part name	Remark
1	Liquid pipe connection port	ø9.5 Brazing connection
2	Gas pipe connection port	See note 3.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (bottom)	ø50
8	Wire routing hole (front)	ø27
9	Pipe routing hole (front)	See note 2.
10	Pipe routing hole (bottom)	See note 2.

**NOTES**

- ✕ shows the dimensions after fixing the accessory pipes.
- For piping connection method (front and bottom sides) see the installation manual.
- Gas pipe  
ø15.9 Brazing connection: RQYQ140P3

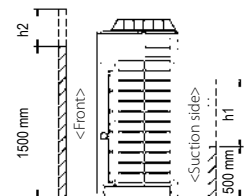
**3D066442**

RQYQ140P



NOTES

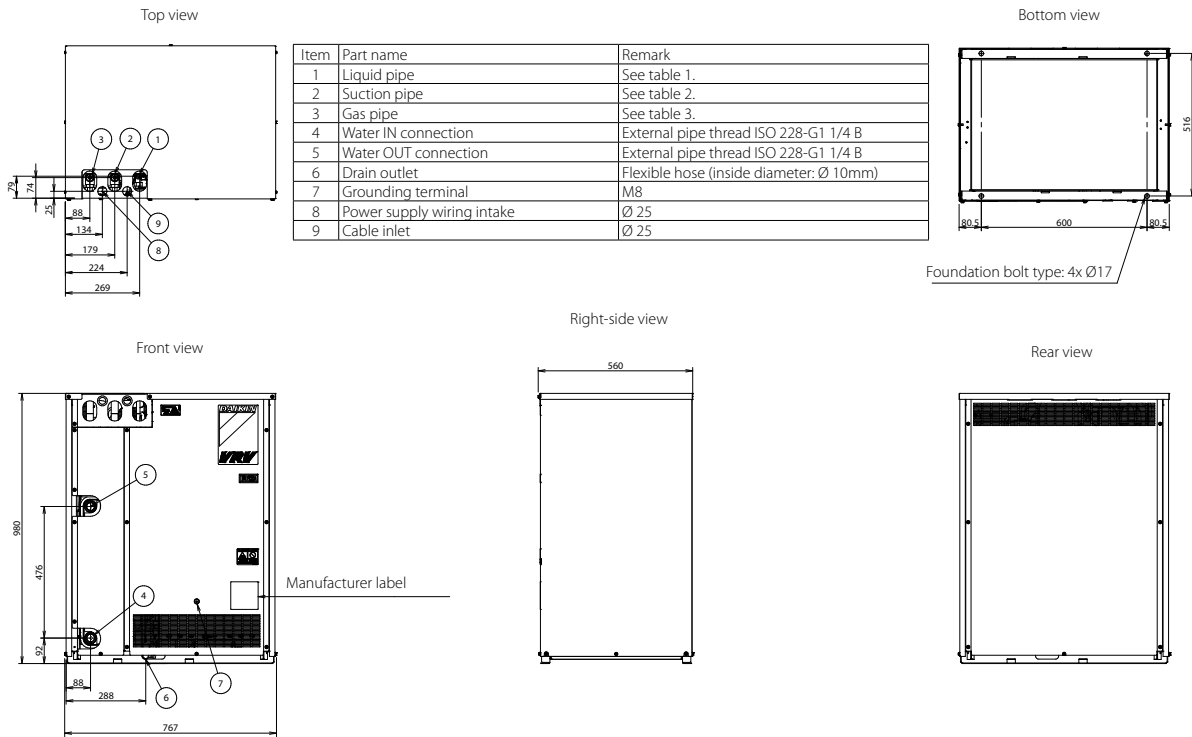
- Heights of walls in case of patterns 1 and 2:  
 Front: 1500mm  
 Suction side: 500mm  
 Side: Height unrestricted  
 Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature. When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space as shown on this drawing.
- If the above wall heights are exceeded then  $h_2/2$  and  $h_1/2$  should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely.  
 (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits).
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



3D066327A



**RWEYQ-T9**



Item	Part name	Remark
1	Liquid pipe	See table 1.
2	Suction pipe	See table 2.
3	Gas pipe	See table 3.
4	Water IN connection	External pipe thread ISO 228-G1 1/4 B
5	Water OUT connection	External pipe thread ISO 228-G1 1/4 B
6	Drain outlet	Flexible hose (inside diameter: Ø 10mm)
7	Grounding terminal	M8
8	Power supply wiring intake	Ø 25
9	Cable inlet	Ø 25

**NOTES**

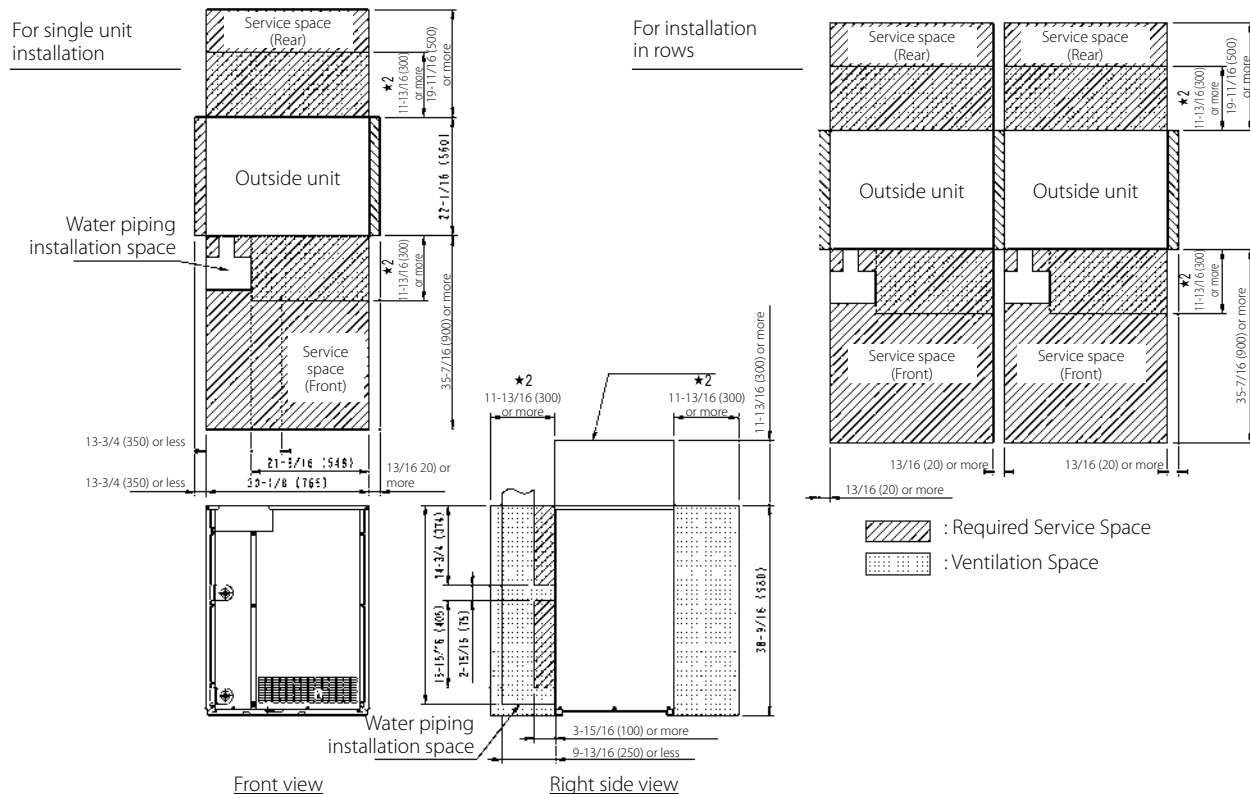
1. The grounding terminal is located in the switch box.
2. The pipe connections are brazed connections.
3. In case of a heat pump, the suction pipe is not used.

Table 1

Model	RWEYQ8T9		RWEYQ10T9		RWEYQ12T9		RWEYQ14T9	
	Heat pump	Heat recovery	Heat pump	Heat recovery	Heat pump	Heat recovery	Heat pump	Heat recovery
Liquid pipe	Ø 9.5		Ø 9.5		Ø 12.7		Ø 12.7	
Suction pipe	Ø 19.1		Ø 22.2		Ø 28.6		Ø 28.6	
Gas pipe (high/low pressure)	Ø 19.1	Ø 15.9	Ø 22.2	Ø 19.1	Ø 28.6	Ø 19.1	Ø 28.6	Ø 22.2

**2D108932A**

**RWEYQ-T9**



Unit : mm

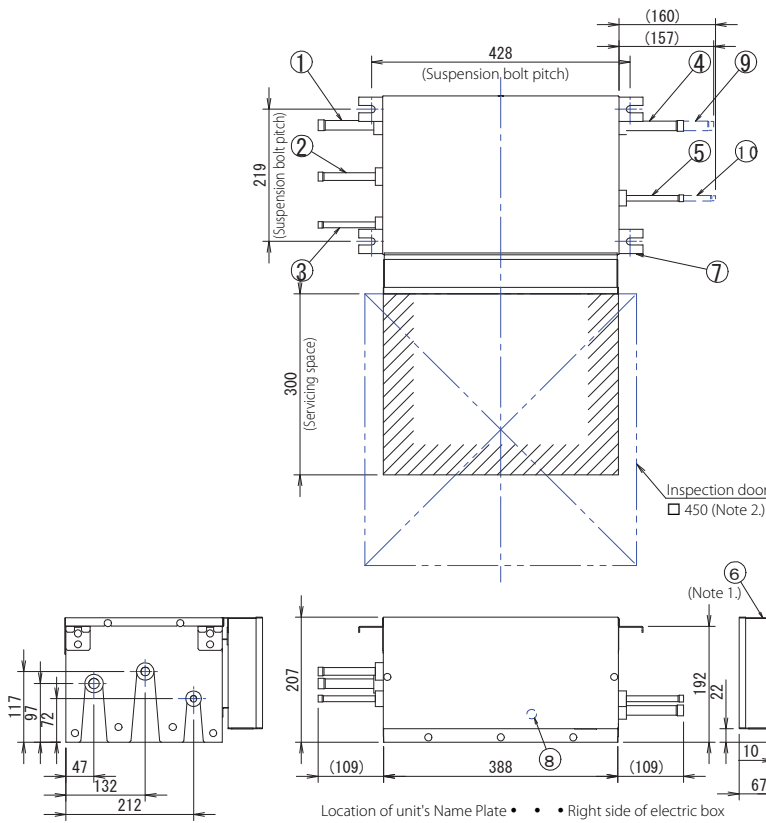
**NOTES**

- ★ 1. This space is necessary when refrigerant piping is connected to the top of the unit.
- ★ 2. This ventilation space is necessary when heat rejection cancellation (Zero energy sissipation) is not active.

**3D109304B**



**BS1Q10A**

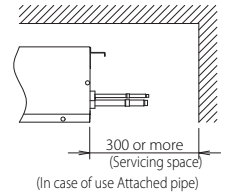
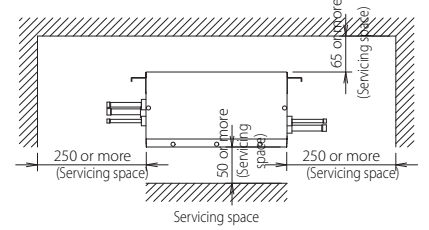


**NOTES**

1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install an inspection door at electric box side.
3. Attached pipe is only used in case of connecting with a 20~50 class indoor unit.
4. Small sound of refrigerant will be made, which may be disturbing.  
Do not install it at the place such as bedroom under roof.

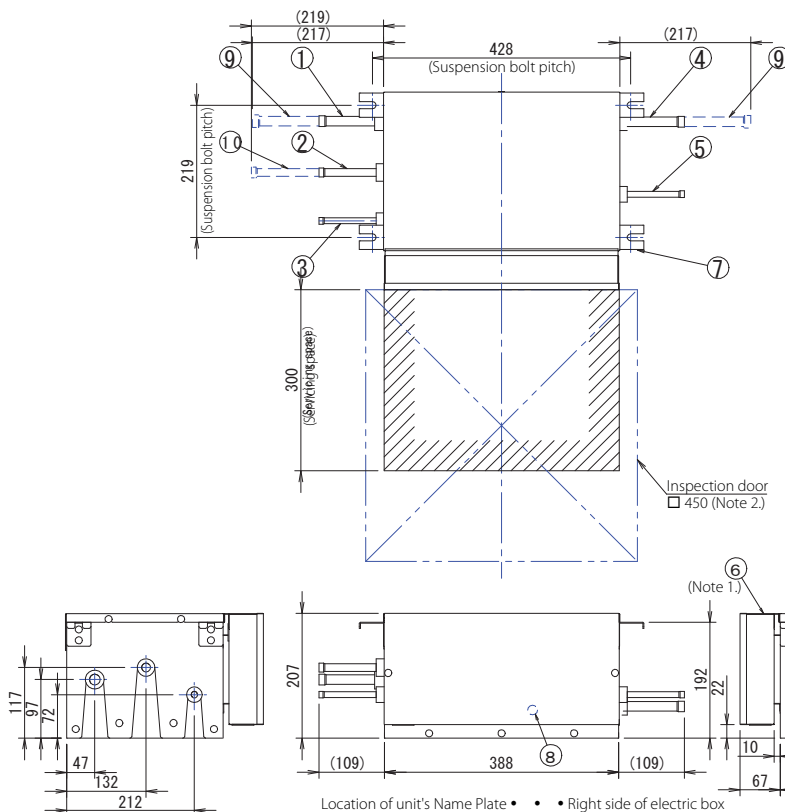
Item	Part name	Description
1	Suction gas pipe connection port	ø 15.9 mm brazing connection
2	HP/LP gas pipe connection port	ø 12.7 mm brazing connection
3	Liquid pipe connection port	ø 9.5 mm brazing connection
4	Gas pipe connection port	ø 15.9 mm brazing connection
5	Liquid pipe connection port	ø 9.5 mm brazing connection
6	Electric box (Note 1.)	
7	Suspension brackets	M8~M10
8	Grounding terminal	M4
9	Attached pipe(1) (Note.3)	ø 12.7 mm brazing connection
10	Attached pipe(2) (Note.3)	ø 6.4 mm brazing connection

VRV System Heat Recovery Series BS unit



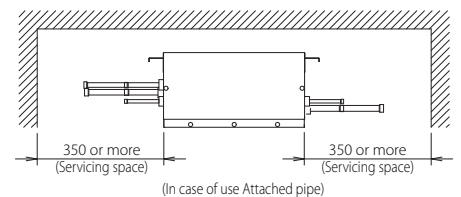
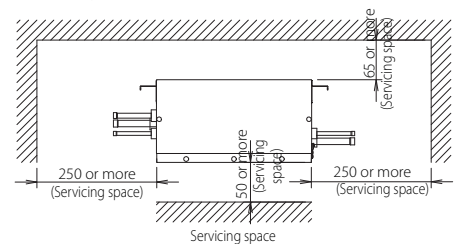
**3D056011C**

**BS1Q16A**



Item	Part name	Description
1	Suction gas pipe connection port	ø 15.9 mm brazing connection
2	HP/LP gas pipe connection port	ø 12.7 mm brazing connection
3	Liquid pipe connection port	ø 9.5 mm brazing connection
4	Gas pipe connection port	ø 15.9 mm brazing connection
5	Liquid pipe connection port	ø 9.5 mm brazing connection
6	Electric box (Note 1.)	
7	Suspension brackets	M8~M10
8	Grounding terminal	M4
9	Attached pipe(1) (Note.3)	ø 19.1 mm brazing connection
10	Attached pipe(2) (Note.3)	ø 15.9 mm brazing connection

VRV System Heat Recovery Series BS unit



**NOTES**

1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install an inspection door at electric box side.
3. Attached pipe is only used in case of connecting with indoor unit capacity index 150 or more and 160 or less.
4. Small sound of refrigerant will be made, which may be disturbing.  
Do not install it at the place such as bedroom under roof.

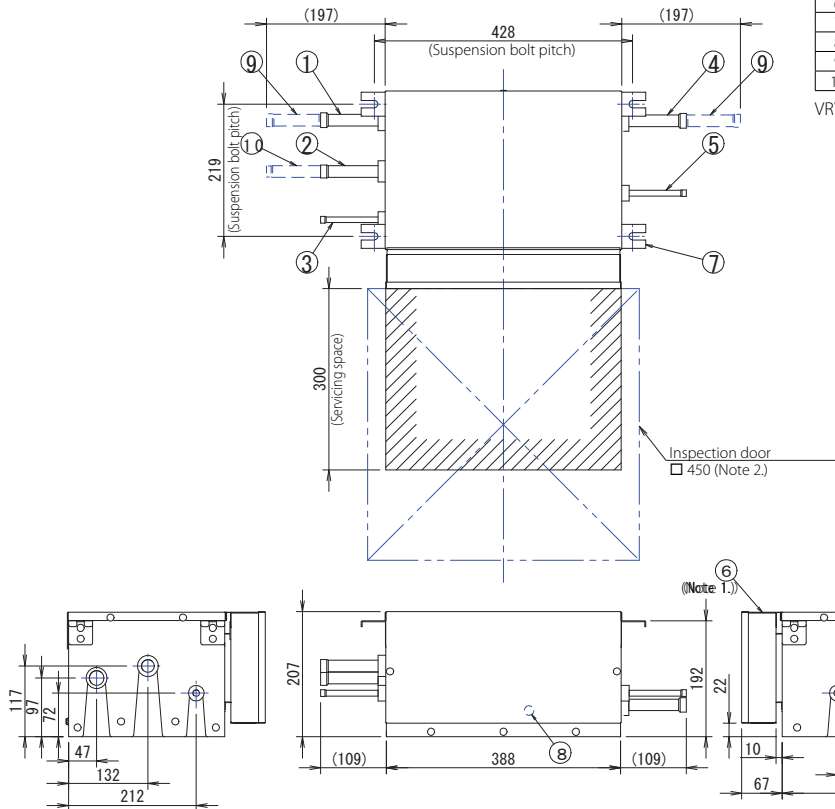
**3D058004C**



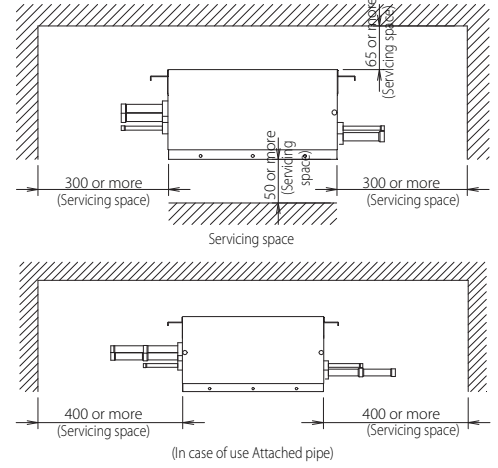
**BS1Q25A**

Item	Part name	Description
1	Suction gas pipe connection port	∅ 22.2 mm brazing connection
2	HP/LP gas pipe connection port	∅ 19.1 mm brazing connection
3	Liquid pipe connection port	∅ 9.5 mm brazing connection
4	Gas pipe connection port	∅ 22.2 mm brazing connection
5	Liquid pipe connection port	∅ 9.5 mm brazing connection
6	Electric box (Note 1.)	
7	Suspension brackets	M8~M10
8	Grounding terminal	M4
9	Attached pipe(1) (Note.3)	∅ 19.1 mm brazing connection
10	Attached pipe(2) (Note.3)	∅ 15.9 mm brazing connection

VRV System Heat Recovery Series BS unit



Location of unit's Name Plate • • • Right side of electric box



**NOTES**

1. Electric box can also be fixed on the other side of the unit.
2. Be sure to install an inspection door at electric box side.
3. Attached pipe(1) and Attached pipe(2) is used in case of connecting with indoor capacity index more than 160 and less than 200.  
In case of connecting one indoor unit of 200 type, only gas pipe connection port need Attached pipe(1).
4. Small sound will be made when changing over the motor operated valve, which may be disturbing.  
Do not install it at the place such as bedroom under roof.

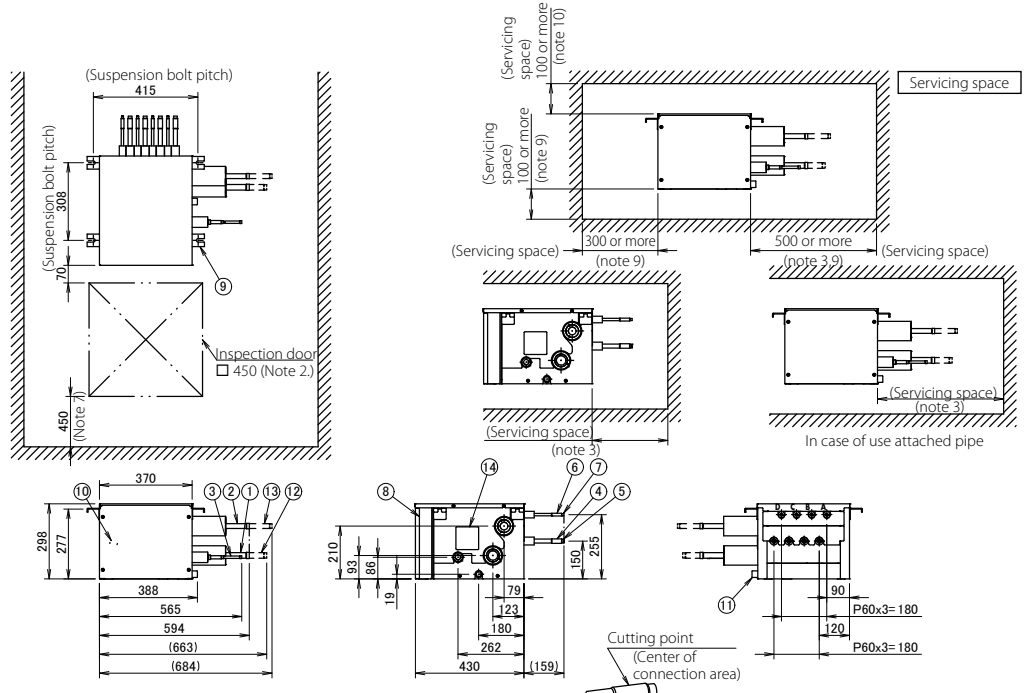
**3D056012D**

Detailed technical drawings

**BS4Q14AV1B**

**NOTES**

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturb the room occupants.  
- To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.  
- If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is.  
In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
- This is a space for removing a top panel when servicing.



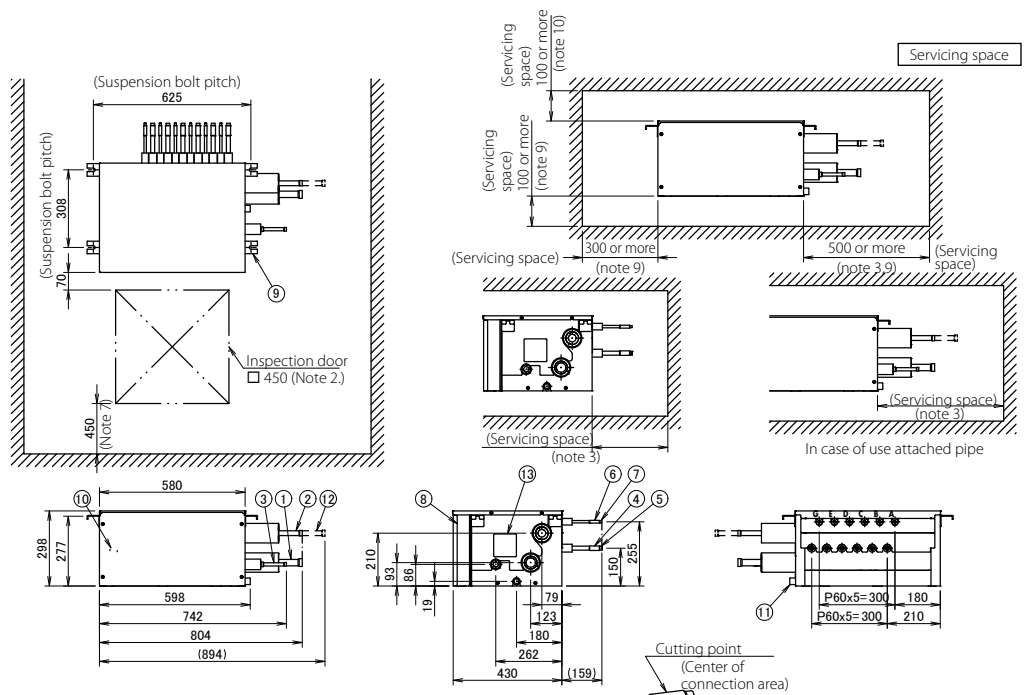
Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 22.2 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 9.5 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 19.1 mm brazing connection
13	Attached pipe (note 5, 6)	ø 15.9 mm brazing connection
14	Inspection hole	

**3D106407**

**BS6Q14AV1B**

**NOTES**

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturb the room occupants.  
- To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.  
- If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is.  
In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
- This is a space for removing a top panel when servicing.



Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 12.7 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 22.2 mm brazing connection
13	Inspection hole	

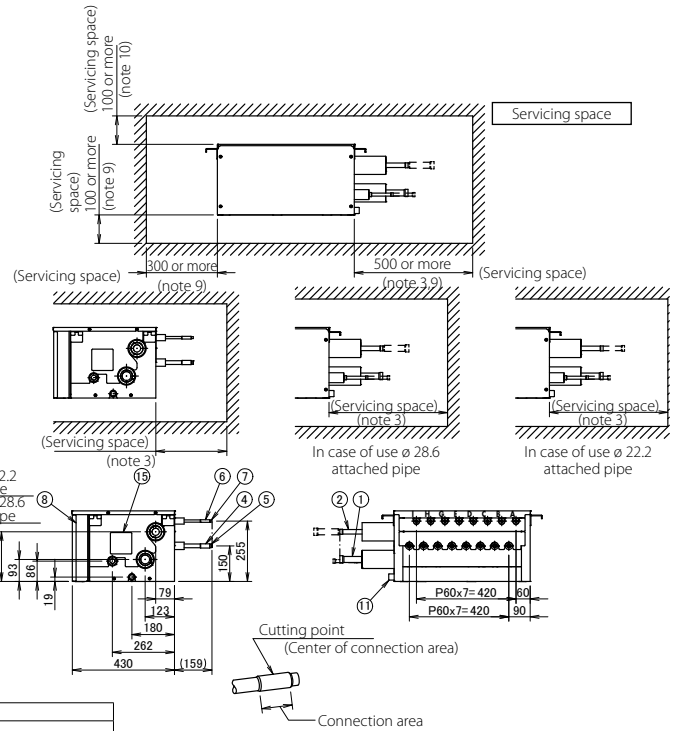
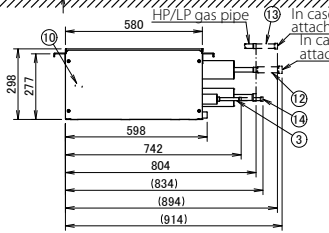
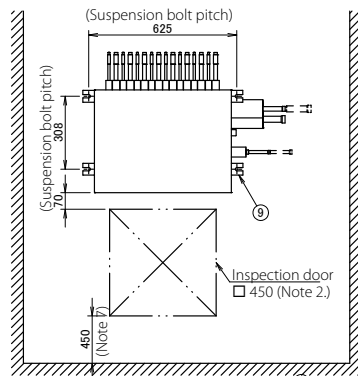
**3D106408**



## BS8Q14AV1B

### NOTES

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturb the room occupants.  
- To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.  
- If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is.  
In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
- This is a space for removing a top panel when servicing.



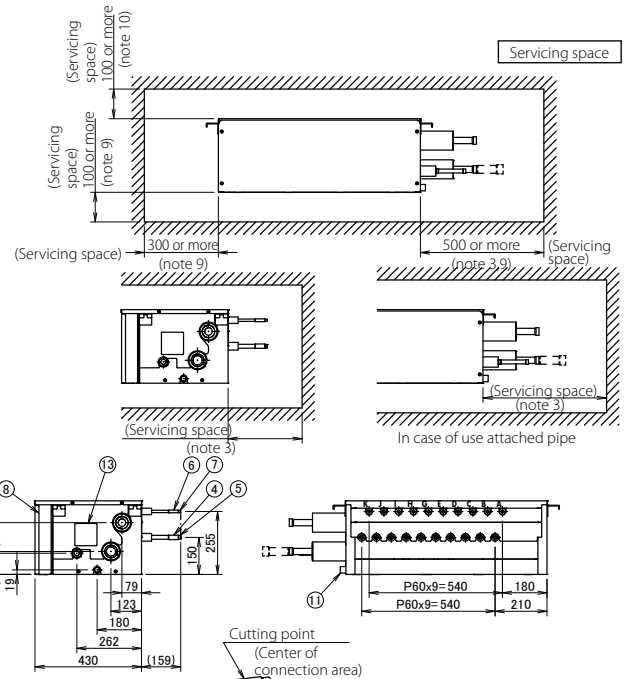
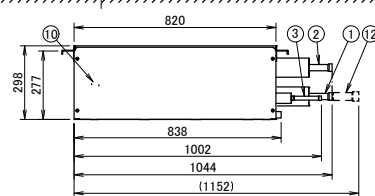
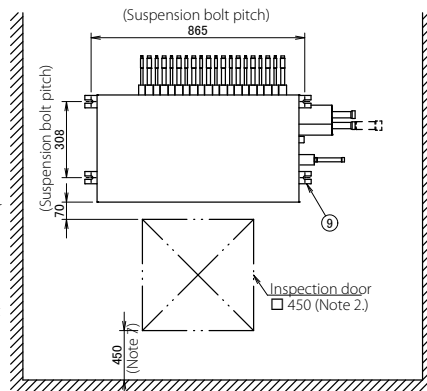
Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 12.7 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 28.6 mm brazing connection
13	Attached pipe (note 5, 6)	ø 22.2 mm brazing connection
14	Attached pipe (note 5, 6)	ø 15.9 mm brazing connection
15	Inspection hole	

3D106409

## BS10Q14AV1B

### NOTES

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturb the room occupants.  
- To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.  
- If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is.  
In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
- This is a space for removing a top panel when servicing.



Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 15.9 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 34.9 mm brazing connection
13	Inspection hole	

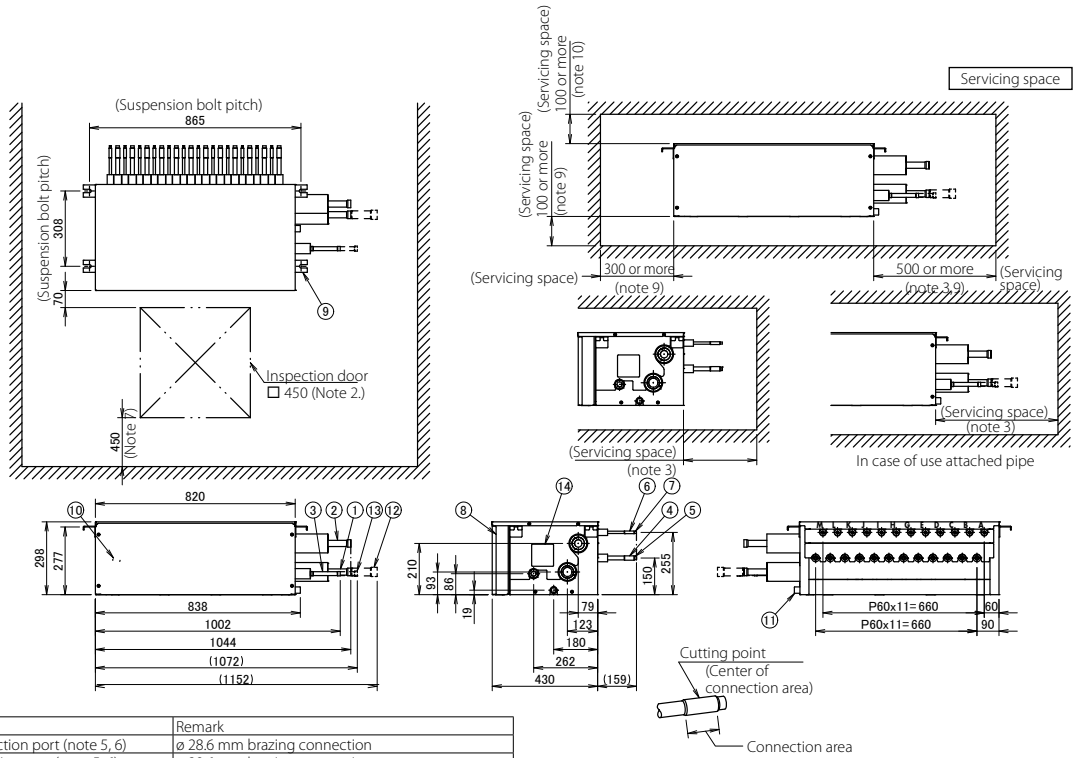
3D106410

Detailed technical drawings

**BS12Q14AV1B**

**NOTES**

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturb the room occupants.  
- To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.  
- If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is.  
In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
- This is a space for removing a top panel when servicing.



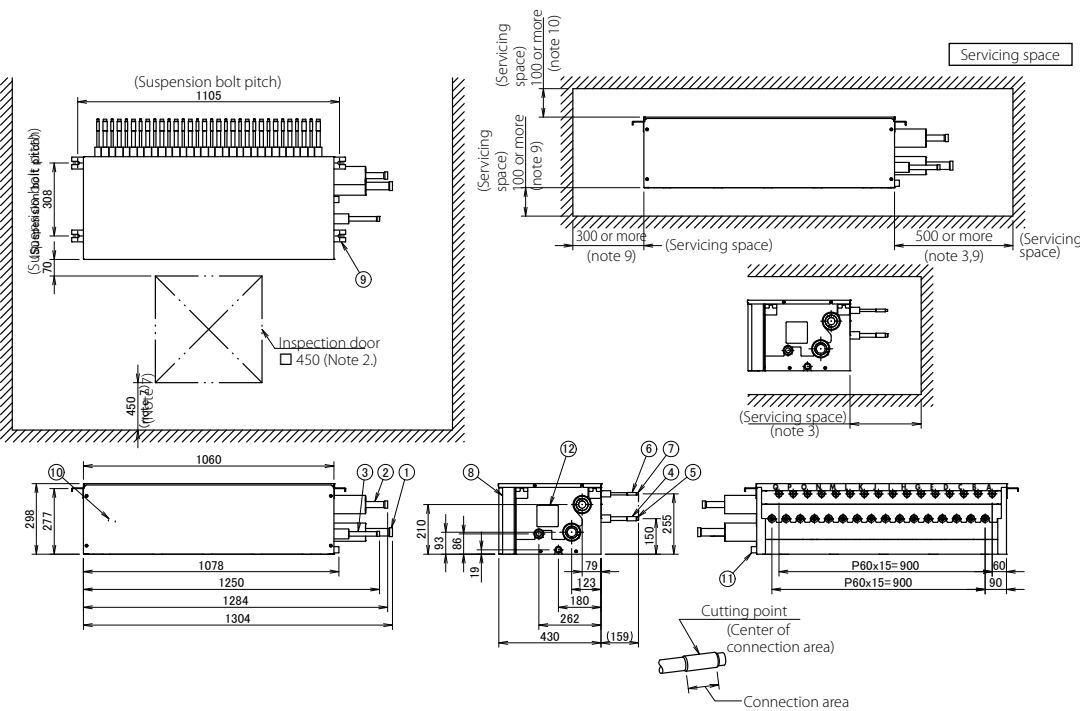
Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 15.9 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Attached pipe (note 5, 6)	ø 34.9 mm brazing connection
13	Attached pipe (note 5, 6)	ø 19.1 mm brazing connection
14	Inspection hole	

**3D106411**

**BS16Q14AV1B**

**NOTES**

- Be sure to install an inspection door at electric box side, another door is necessary to unload the product.
- Install the BS box on a location where the refrigerant noise cannot disturb the room occupants.  
- To avoid that refrigerant noise disturbs the people in the room, keep at least 5m piping between the occupied room and the BS box.  
- If there is no false ceiling at the room, please add sound insulation around the piping between BS box and indoor unit, or keep much longer length between BS box and occupied room.
- Occupy the space which is possible to install field pipes.
- In case of connection with a 20~50 type indoor unit, there is no need to cut and connect as it is.  
In case of others, cut the outlet pipe and connect to the connecting pipe. Refer to figure above.
- Reducer may be required (field supply) if joint diameter does not suit on the triple piping side.
- Insulators are necessary (field supply) for the triple piping side.
- This space is a space to keep a top panel when servicing.
- Install it in a space which can be secured downwards slope of 1/100 or more.
- It is a space for removing the drain pan.
- This is a space for removing a top panel when servicing.



Item	Part name	Remark
1	Outdoor unit suction gas pipe connection port (note 5, 6)	ø 34.9 mm brazing connection
2	Outdoor unit HP/LP gas pipe connection port (note 5, 6)	ø 28.6 mm brazing connection
3	Outdoor unit liquid pipe connection port (note 5, 6)	ø 19.1 mm brazing connection
4	Indoor unit gas pipe connection port (note 4)	ø 15.9 mm brazing connection
5	Indoor unit gas pipe connection port (note 4)	ø 12.7 mm brazing connection
6	Indoor unit liquid pipe connection port (note 4)	ø 9.5 mm brazing connection
7	Indoor unit liquid pipe connection port (note 4)	ø 6.4 mm brazing connection
8	Electric box (note 1)	
9	Suspension brackets	M8~M10
10	Grounding terminal	M4
11	Socket for drain	VP20 (O.D.ø 26 mm / I.D.ø 20 mm)
12	Inspection hole	

**3D106412**





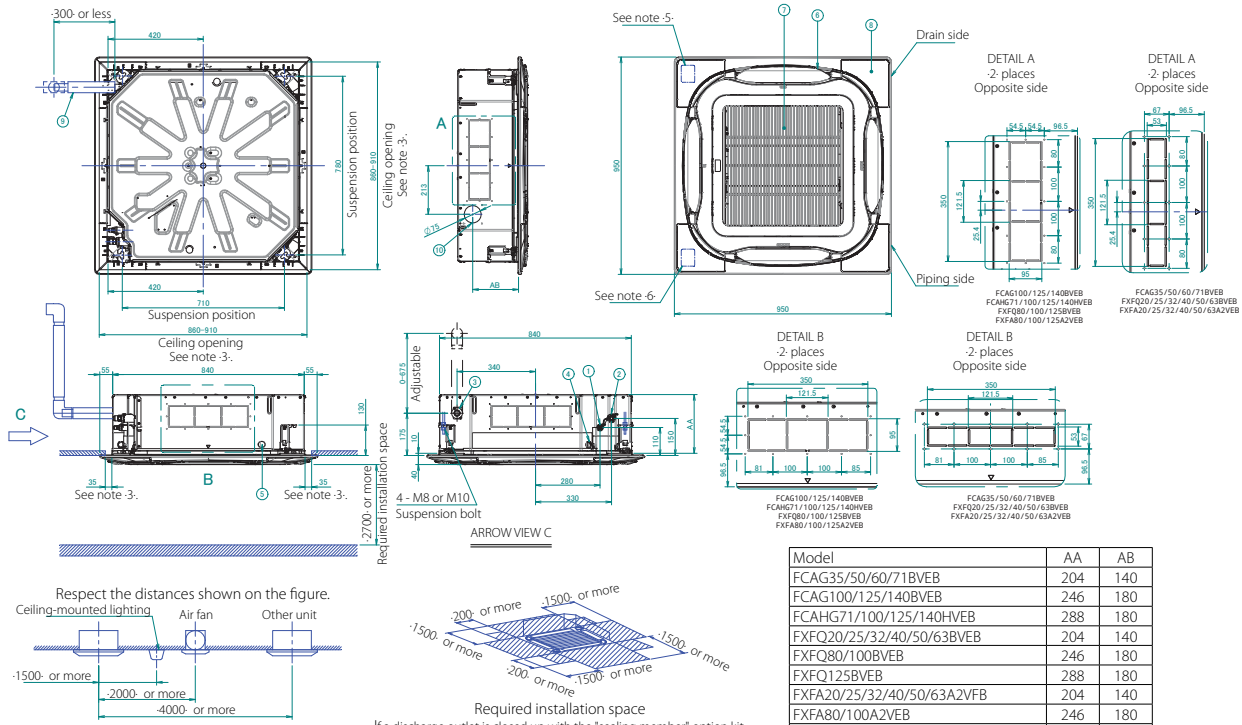
# Technical drawings

## Indoor units

FXFA-A / FXFQ-B	266
FXZA-A / FXZQ-A	268
FXCQ-A	270
FXKQ-MA	272
FXDA-A / FXDQ-A3	273
FXSA-A / FXSQ-A	283
FXMA-A	293
FXMQ-P7 / FXMQ-MB	299
FXAA-A	303
FXAQ-A	304
FXHA-A / FXHQ-A	306
FXUA-A / FXUQ-A	307
FXNQ-A	308
FXLQ-P	312



**FXFA-A / FXFQ-B WITH STANDARD PANEL**



**NOTES**

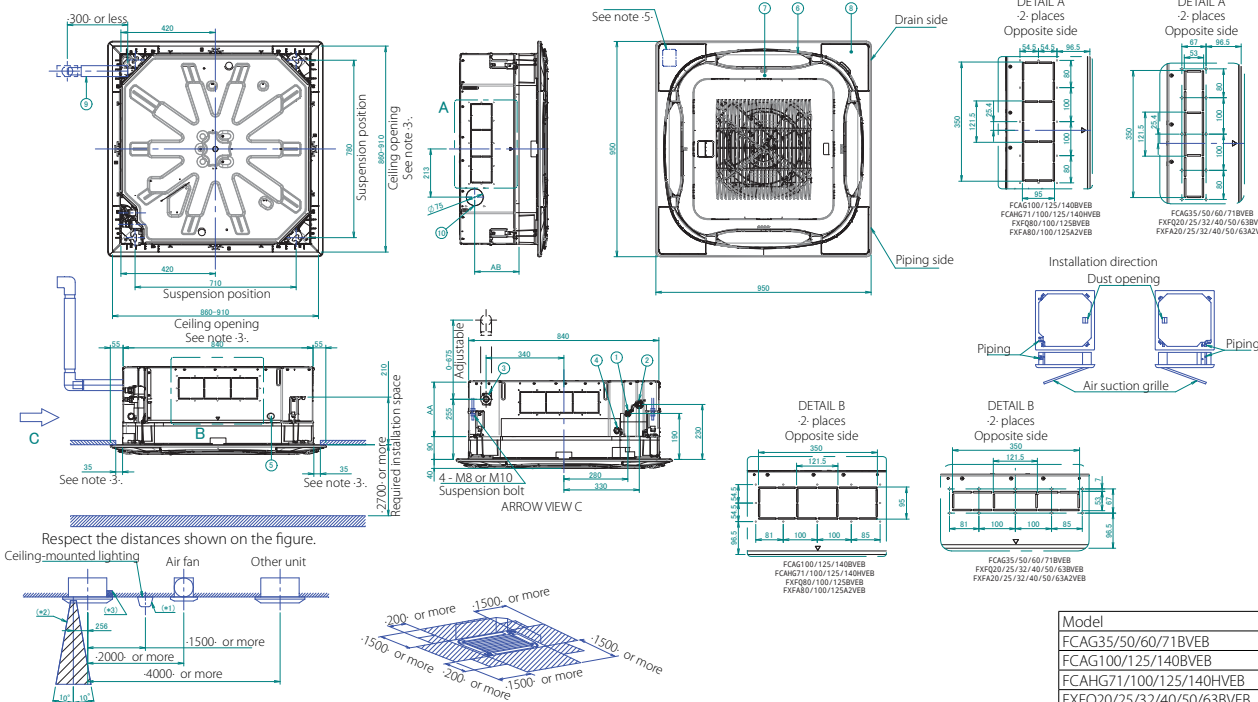
- Location of nameplate  
The unit nameplate is located on the control box cover.  
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
- When installing optional accessories, refer to their respective documentation.
- Make sure the distance between the ceiling and the cassette does not exceed 35 mm.  
The maximum ceiling opening is 910 mm.
- When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness > 10 mm)
- When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.
- When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.

Model	AA	AB
FCAG35/50/60/71BVEB	204	140
FCAG100/125/140BVEB	246	180
FCAHG71/100/125/140HVEB	288	180
FXFQ20/25/32/40/50/63BVEB	204	140
FXFQ80/100BVEB	246	180
FXFQ125BVEB	288	180
FXFA20/25/32/40/50/63A2VEB	204	140
FXFA80/100A2VEB	246	180
FXFA125A2VEB	288	180

Item	Name
1	Liquid pipe connection port
2	Gas pipe connection port
3	Drain pipe connection
4	Power supply wiring intake
5	Transmission wiring intake hole
6	Air discharge outlet
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knockout hole

**2D121655C**

**FXFA-A / FXFQ-B WITH AUTO CLEANING PANEL**



- (\*) Not applicable to recessed lighting.  
 (\*) Required space for entering with vacuum cleaner tube.  
 (\*) Make sure the decoration panel discharge outlet is not blocked.
- If a discharge outlet is closed up with the "sealing member" option kit, then the required installation space on that (closed up) side is 500 mm instead of 1500 mm.

**NOTES**

- Location of nameplate  
The unit nameplate is located on the control box cover.  
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
- When installing optional accessories, refer to their respective documentation.
- Make sure the distance between the ceiling and the cassette does not exceed 35 mm.  
The maximum ceiling opening is 910 mm.
- When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness > 10 mm)
- When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.

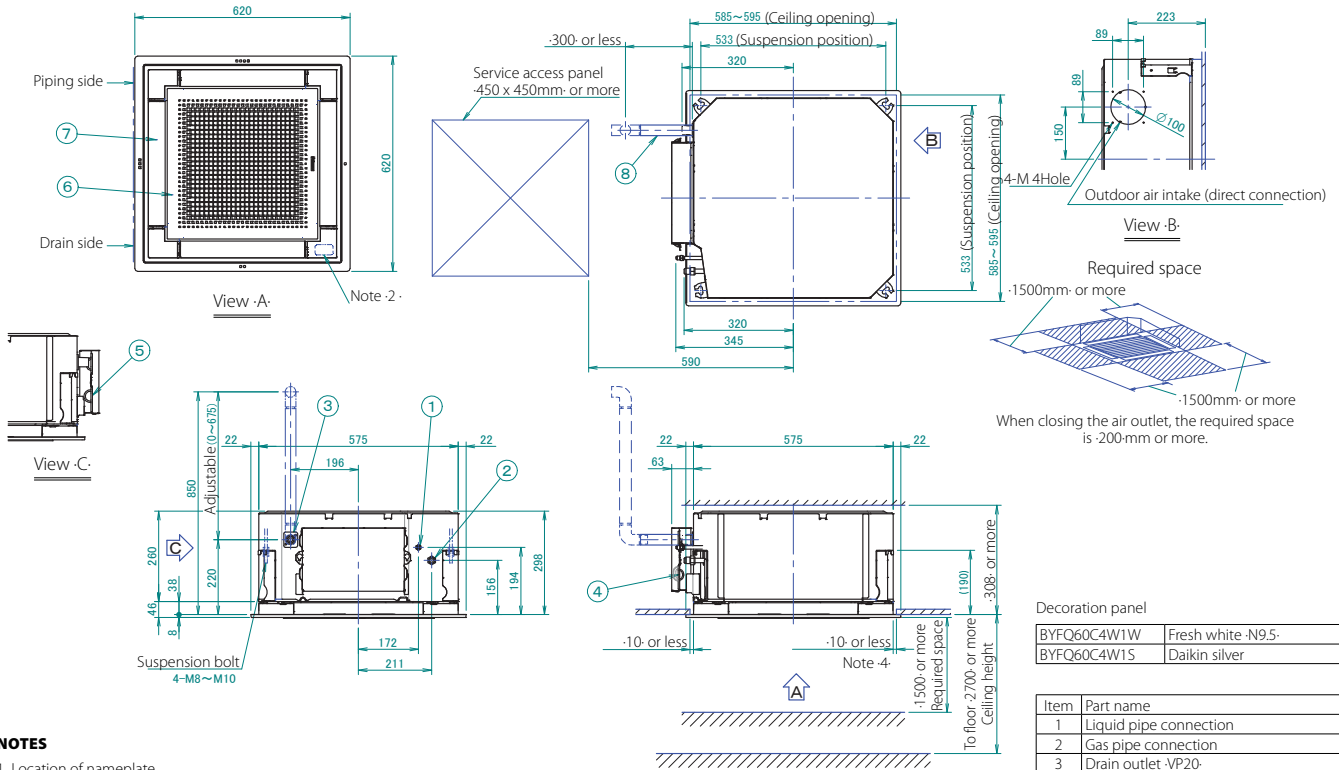
Model	AA	AB
FCAG35/50/60/71BVEB	204	140
FCAG100/125/140BVEB	246	180
FCAHG71/100/125/140HVEB	288	180
FXFQ20/25/32/40/50/63BVEB	204	140
FXFQ80/100BVEB	246	180
FXFQ125BVEB	288	180
FXFA20/25/32/40/50/63A2VEB	204	140
FXFA80/100A2VEB	246	180
FXFA125A2VEB	288	180

Item	Name
1	Liquid pipe connection port
2	Gas pipe connection port
3	Drain pipe connection
4	Power supply wiring intake
5	Transmission wiring intake hole
6	Air discharge outlet
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knockout hole

**2D121658C**



**FXZA-A / FXZQ-A NEW PANEL**

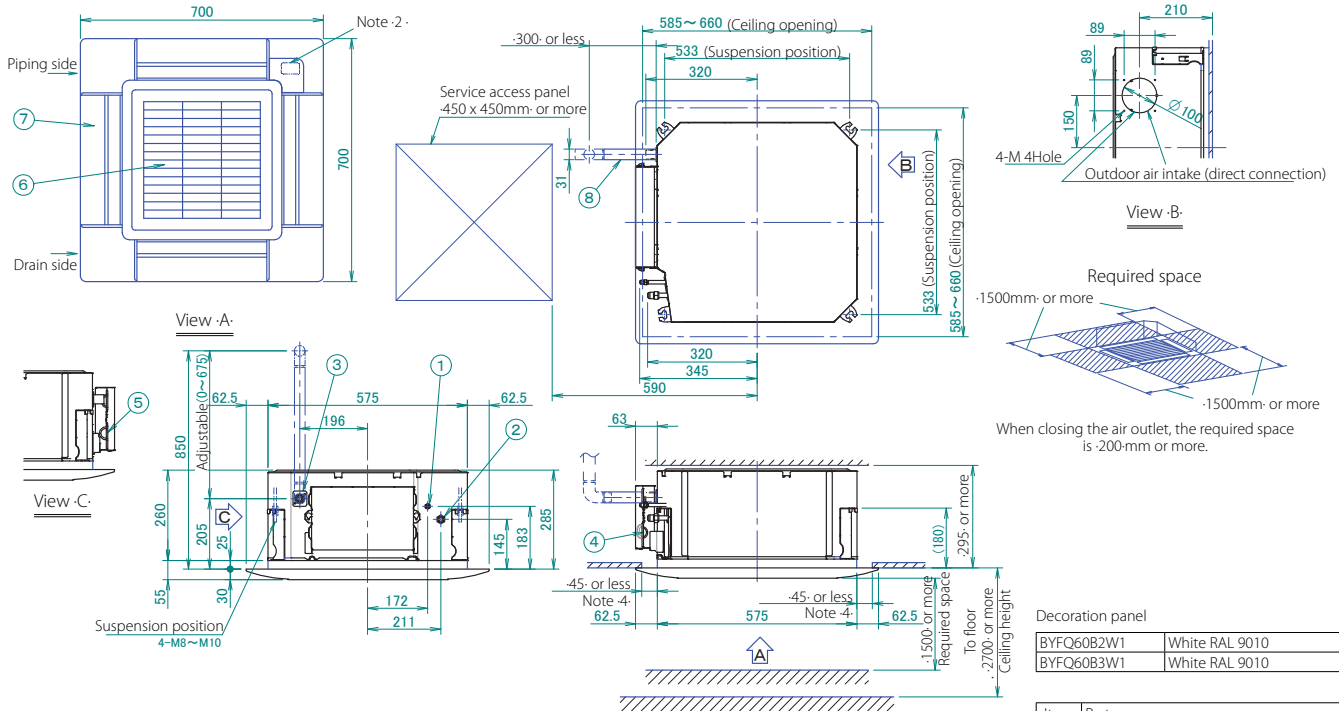


**NOTES**

- Location of nameplate  
The indoor unit nameplate is located on the bell mouth inside the suction grille. The decoration panel nameplate is located on the inner frame inside the suction grille.
- When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
- If any of the following conditions are met, additional insulation (glass wool or polyethylene foam, thickness ≥10mm) is required:  
Ambient conditions in the ceiling ≥ -30°C and <80% relative humidity.  
Fresh air is inducted into the ceiling.  
The unit operates continuously.
- Though the installation is acceptable up to maximum 595-mm square ceiling opening, keep the clearance of 10-mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.

**3D125141**

**FXZA-A OLD PANEL**

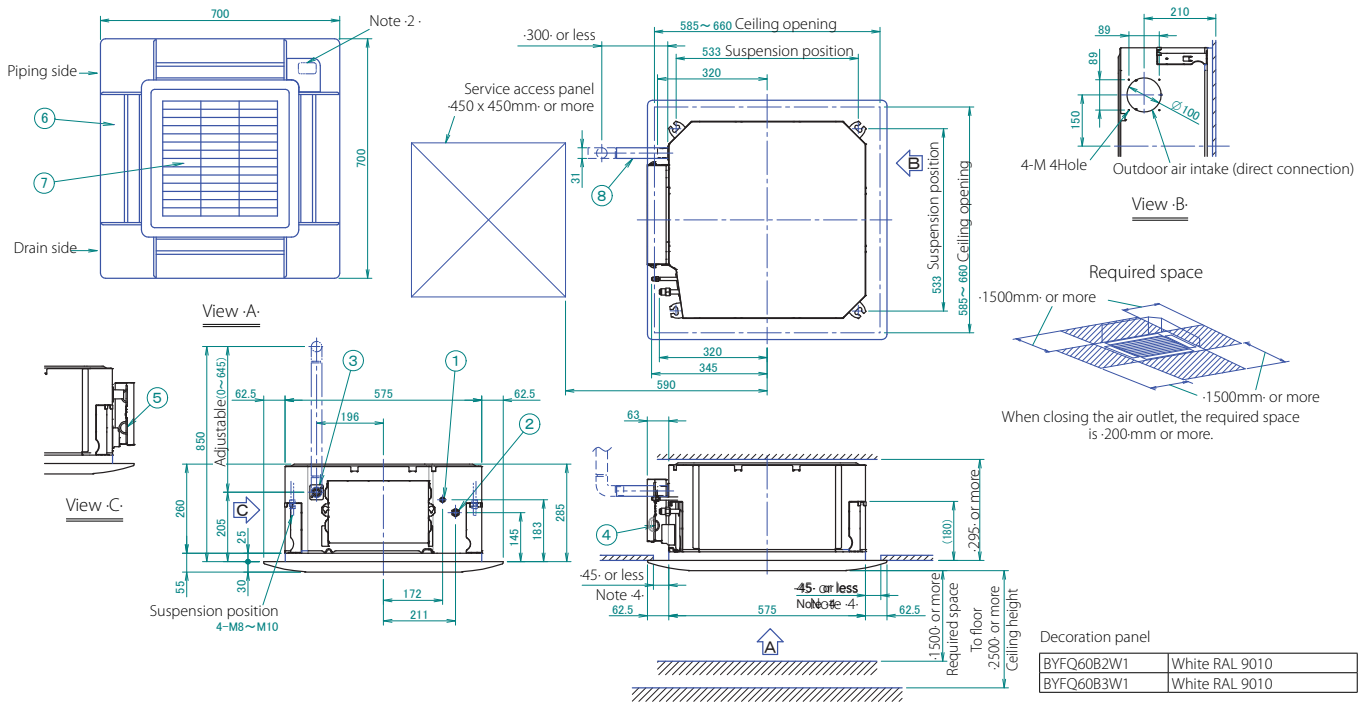


**NOTES**

- Location of nameplate  
The indoor unit nameplate is located on the bell mouth inside the suction grille. The decoration panel nameplate is located on the inner frame inside the suction grille.
- When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
- If any of the following conditions are met, additional insulation (glass wool or polyethylene foam, thickness ≥10mm) is required:  
Ambient conditions in the ceiling ≥ -30°C and <80% relative humidity.  
Fresh air is inducted into the ceiling.  
The unit operates continuously.
- Though the installation is acceptable up to maximum 660-mm square ceiling opening, keep the clearance of 45-mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.

**3D125613**

## FXZQ-A OLD PANEL



### NOTES

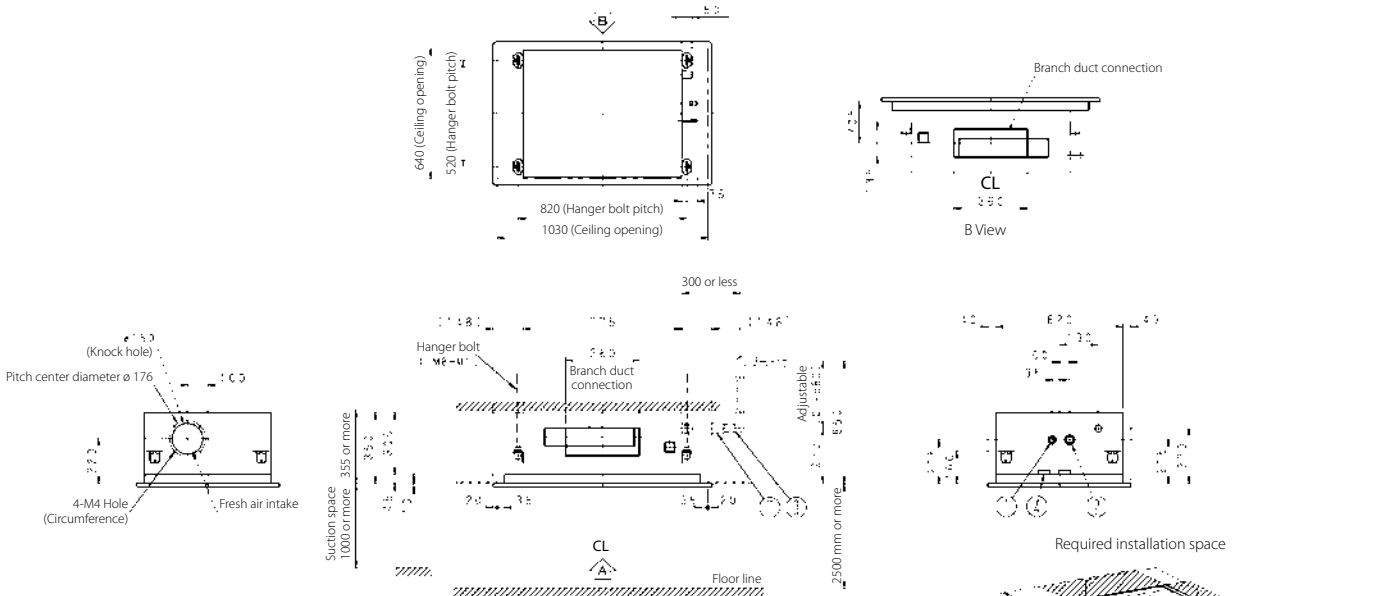
- Location of nameplate  
The indoor unit nameplate is located on the bell mouth inside the suction grille.  
The decoration panel nameplate is located on the inner frame inside the suction grille.
- When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
- If any of the following conditions are met, additional insulation (glass wool or polyethylene foam, thickness  $\geq 10$ -mm) is required:  
Ambient conditions in the ceiling  $\geq -30^{\circ}\text{C}$  and  $\geq 80\%$  relative humidity.  
Fresh air is inducted into the ceiling.  
The unit operates continuously.
- Though the installation is acceptable up to maximum  $\phi 660$ -mm square ceiling opening, keep the clearance of  $\leq 45$ -mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.

**3D082161D**



Detailed technical drawings

**FXCQ20-40A**



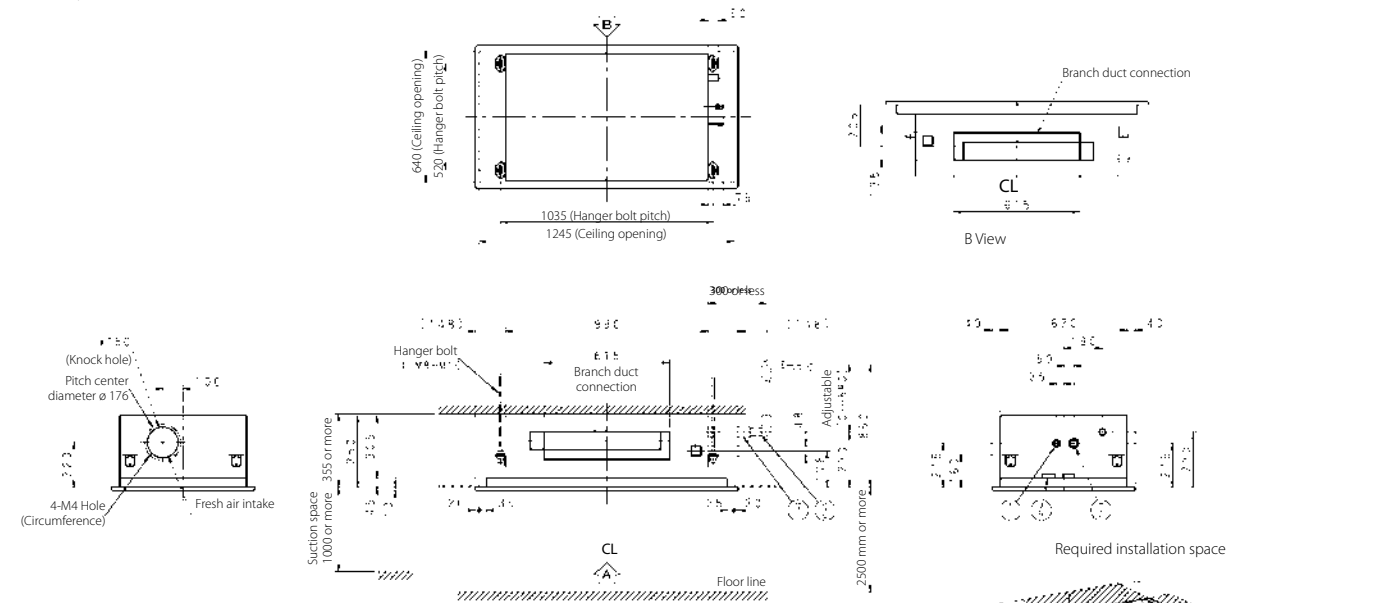
**NOTES**

1. Sticking locations for manufacturer's label  
 Manufacturer's label for indoor unit:  
 Suction panel inner side's control box lid surface  
 Manufacturer's label for decoration panel:  
 Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.  
 Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.  
 Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the thing been damp and troubled under an indoor unit.  
 When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32, I.D. ø 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain Hose (Accessory)	O.D. ø 32 (Main body side connection : O.D. ø 26)
8	Suction panel	

**3D079628**

**FXCQ50A**



**NOTES**

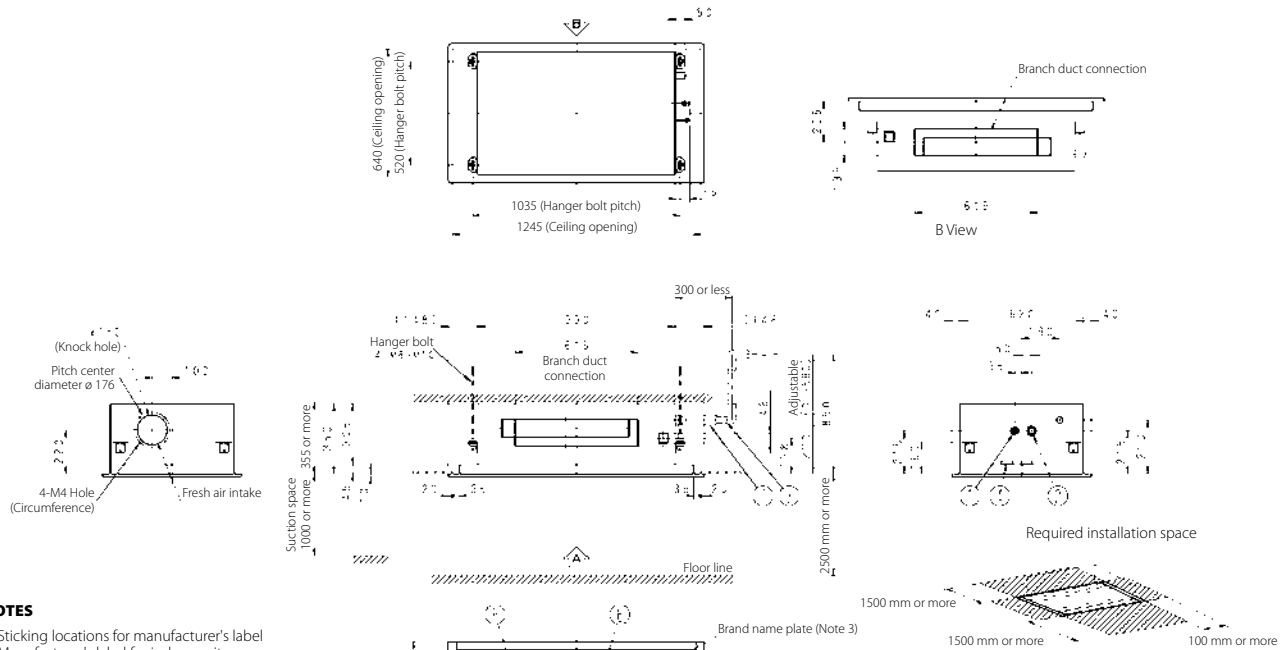
1. Sticking locations for manufacturer's label  
 Manufacturer's label for indoor unit:  
 Suction panel inner side's control box lid surface  
 Manufacturer's label for decoration panel:  
 Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.  
 Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.  
 Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the thing been damp and troubled under an indoor unit.  
 When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32, I.D. ø 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain Hose (Accessory)	O.D. ø 32 (Main body side connection : O.D. ø 26)
8	Suction panel	

**3D079629**



### FXCQ63A



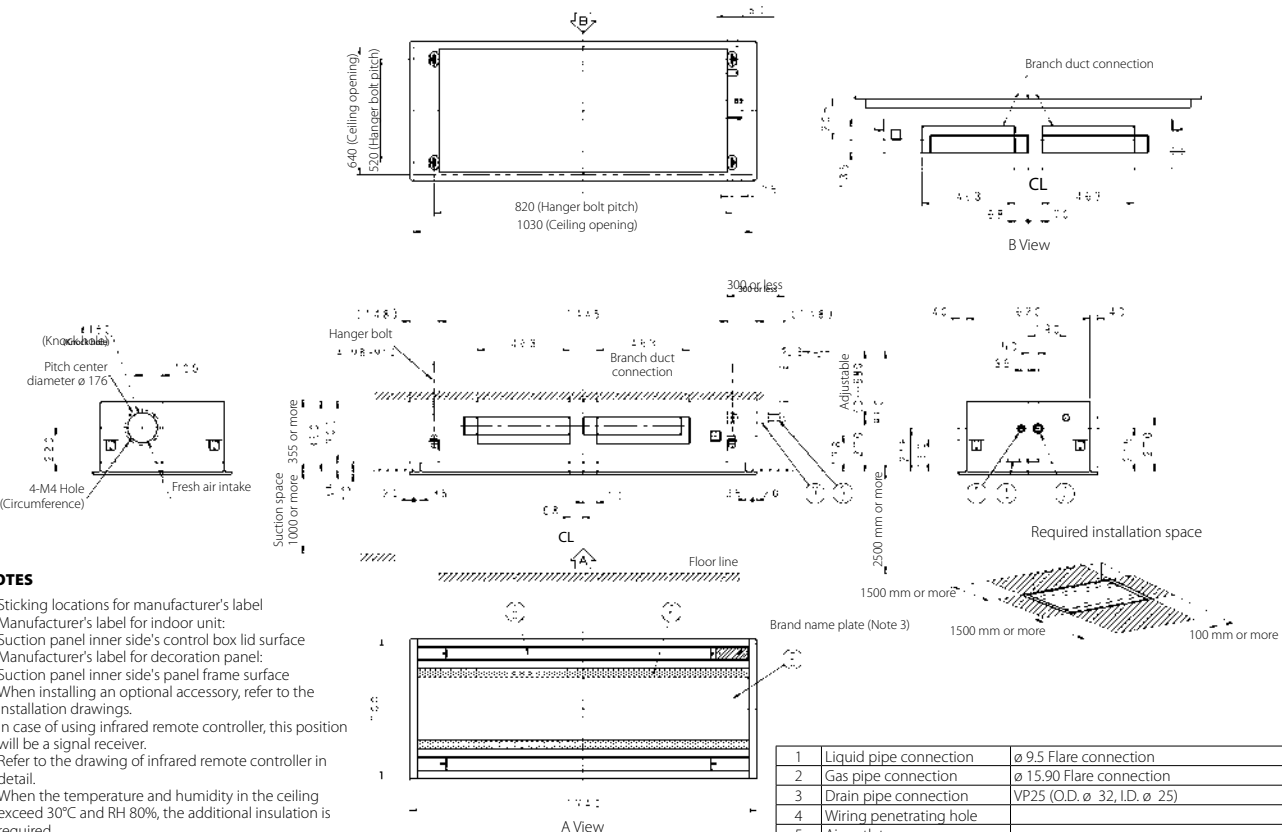
#### NOTES

1. Sticking locations for manufacturer's label  
 Manufacturer's label for indoor unit:  
 Suction panel inner side's control box lid surface  
 Manufacturer's label for decoration panel:  
 Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.  
 Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.  
 Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the thing been damp and troubled under an indoor unit.  
 When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

1	Liquid pipe connection	ø 9.5 Flare connection
2	Gas pipe connection	ø 15.9 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32, I.D. ø 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain Hose (Accessory)	O.D. ø 32 (Main body side connection : O.D. ø 26)
8	Suction panel	

3D079630

### FXCQ80-125A



#### NOTES

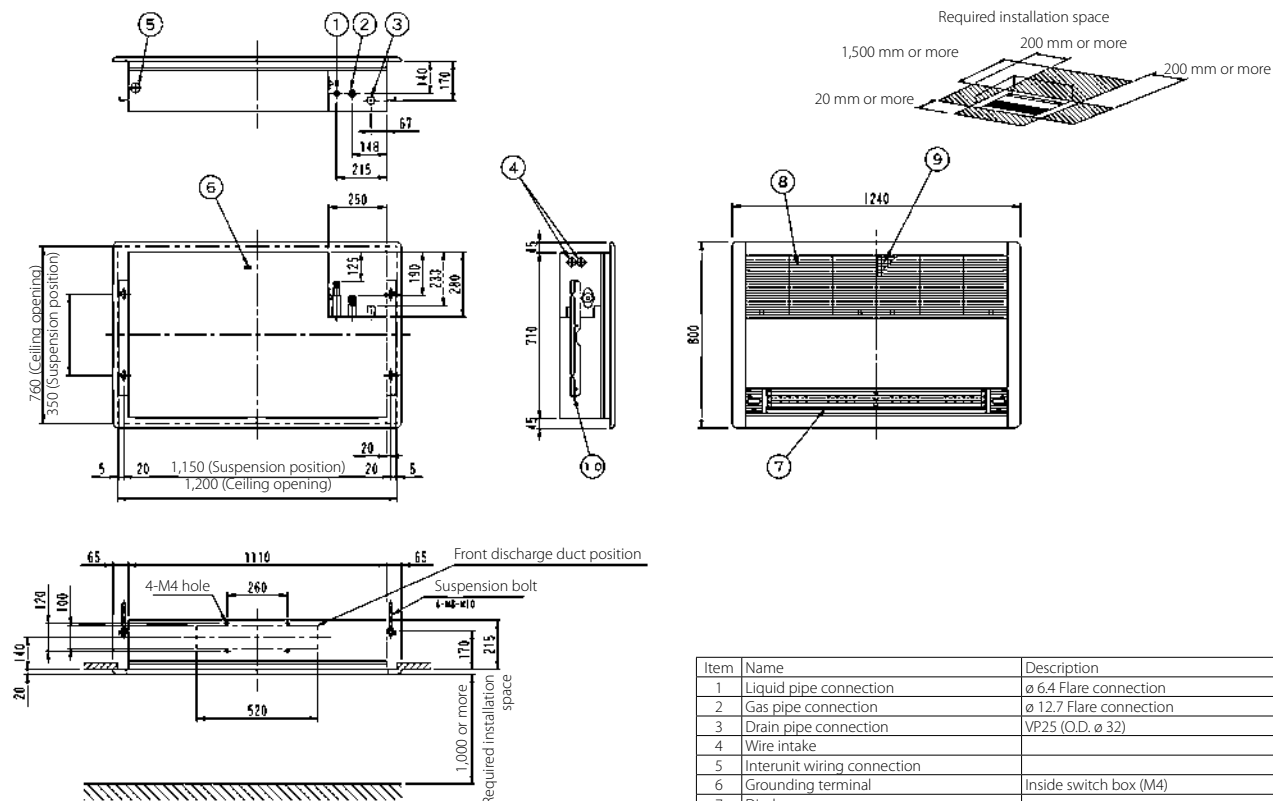
1. Sticking locations for manufacturer's label  
 Manufacturer's label for indoor unit:  
 Suction panel inner side's control box lid surface  
 Manufacturer's label for decoration panel:  
 Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.  
 Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.  
 Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the thing been damp and troubled under an indoor unit.  
 When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

1	Liquid pipe connection	ø 9.5 Flare connection
2	Gas pipe connection	ø 15.9 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32, I.D. ø 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain Hose (Accessory)	O.D. ø 32 (Main body side connection : O.D. ø 26)
8	Suction panel	

3D079631

Detailed technical drawings

**FXKQ25, 32, 40MA**



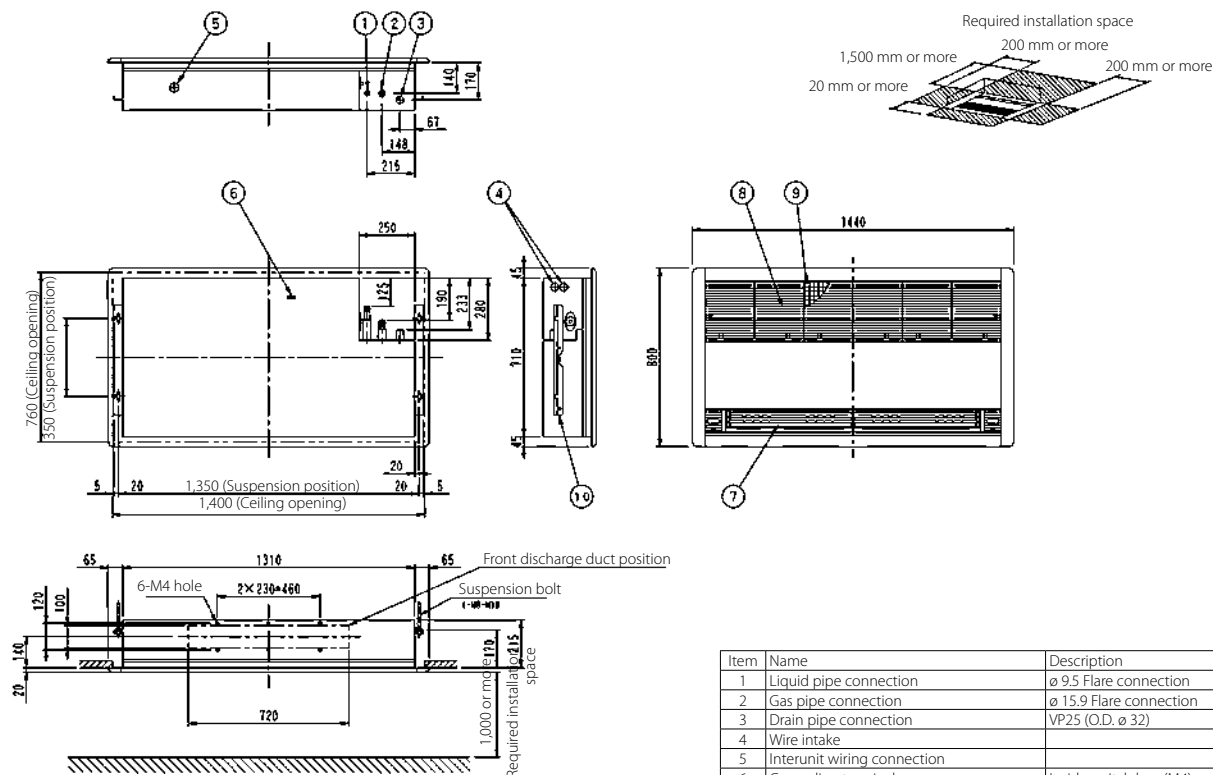
Item	Name	Description
1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box (M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

**NOTES**

- Location of unit's name plate:
  - For main body: Bottom part of fan housing inside of air suction grille.
  - For decoration panel: Service lid face inside of air suction grille.
- When installing an optional accessory, refer to the installation drawings.

**3D038840**

**FXKQ63MA**



Item	Name	Description
1	Liquid pipe connection	ø 9.5 Flare connection
2	Gas pipe connection	ø 15.9 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box (M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

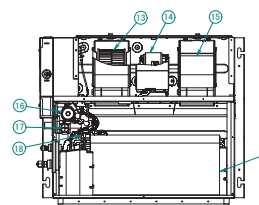
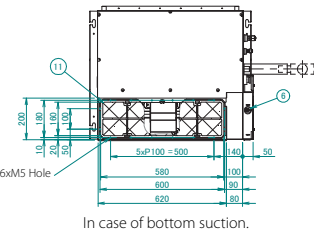
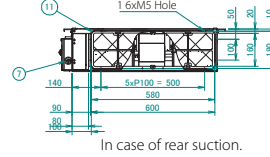
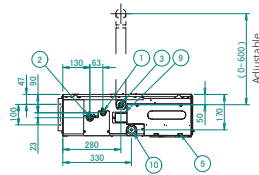
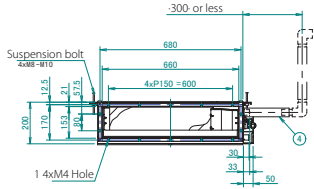
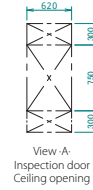
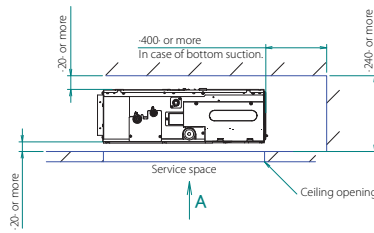
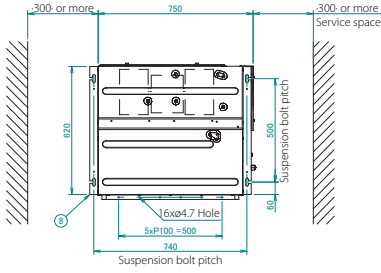
**NOTES**

- Location of unit's name plate:
  - For main body: Bottom part of fan housing inside of air suction grille.
  - For decoration panel: Service lid face inside of air suction grille.
- When installing an optional accessory, refer to the installation drawings.

**3D038841**

### FXDA10-32A

Service space of installation box for adaptor PCB.



Item	Description
1	Liquid pipe connection -ø6.35- Flare connection
2	Gas pipe connection -ø9.52- Flare connection
3	Drain pipe connection Outside diameter: ø26 Inside diameter: ø20
4	Drain hose (accessory) Inside diameter: ø25
5	Control box
6	Transmission wiring connection
7	Power supply connection
8	Suspension bracket
9	Inspection door
10	Drain socket
11	Air filter (accessory)
12	Heat exchanger
13	Turbo fan
14	Fan motor
15	Fan housing
16	Drain pump
17	Float switch
18	Electronic expansion valve

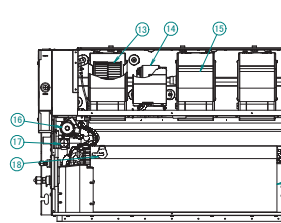
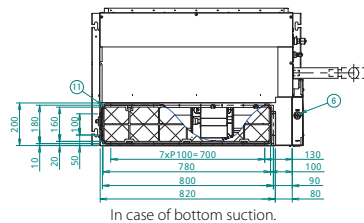
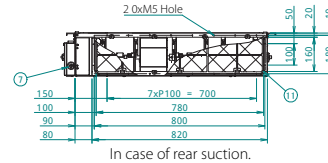
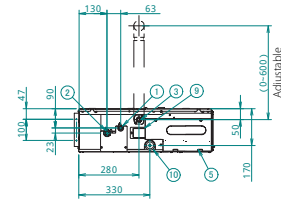
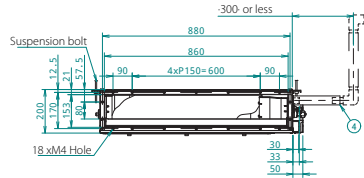
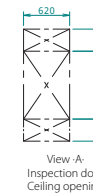
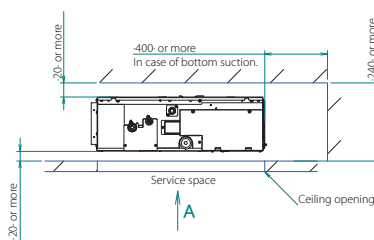
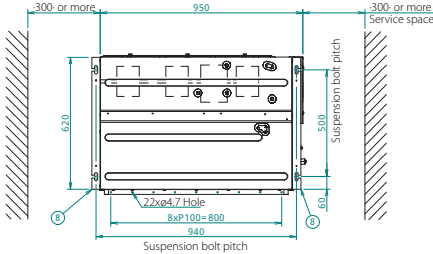
#### NOTES

- In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.
- The unit nameplate is located on the control box cover.
- Mount the air filter at the suction side.  
Use an air filter with a dust collecting efficiency of at least 50% (measured by gravimetric analysis).  
When a duct is connected at the suction side, it is not possible to mount an air filter.

2D126395

### FXDA40-50A

Service space of installation box for adaptor PCB.



Item	Description
1	Liquid pipe connection -ø6.35- Flare connection
2	Gas pipe connection -ø12.70- Flare connection
3	Drain pipe connection Outside diameter: ø26 Inside diameter: ø20
4	Drain hose (accessory) Inside diameter: ø25
5	Control box
6	Transmission wiring connection
7	Power supply connection
8	Suspension bracket
9	Inspection door
10	Drain socket
11	Air filter (accessory)
12	Heat exchanger
13	Turbo fan
14	Fan motor
15	Fan housing
16	Drain pump
17	Float switch
18	Electronic expansion valve

#### NOTES

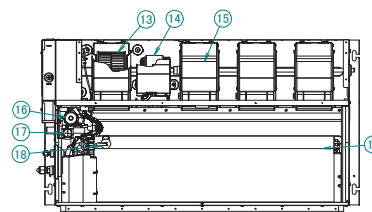
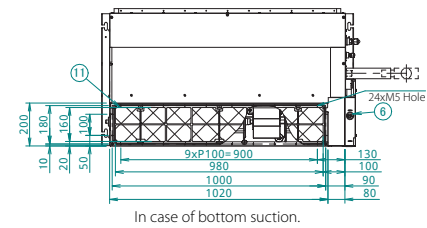
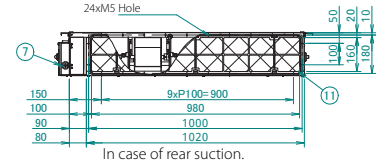
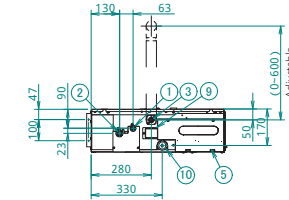
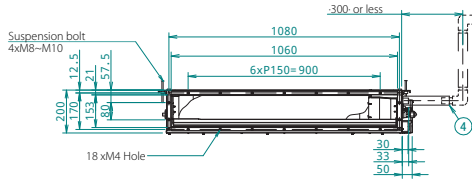
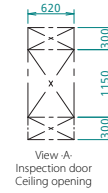
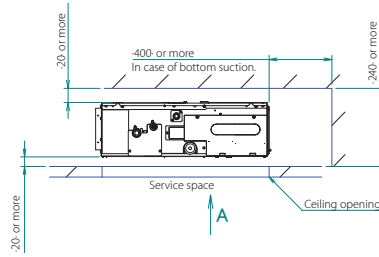
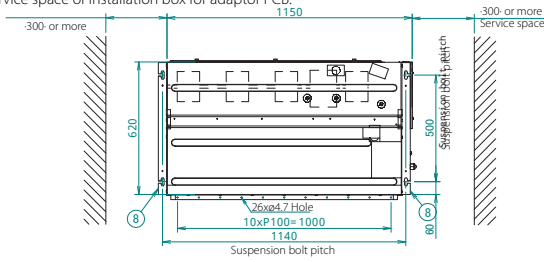
- In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.
- The unit nameplate is located on the control box cover.
- Mount the air filter at the suction side.  
Use an air filter with a dust collecting efficiency of at least 50% (measured by gravimetric analysis).  
When a duct is connected at the suction side, it is not possible to mount an air filter.

2D126677

## Detailed technical drawings

### FXDA63A

Service space of installation box for adaptor PCB.



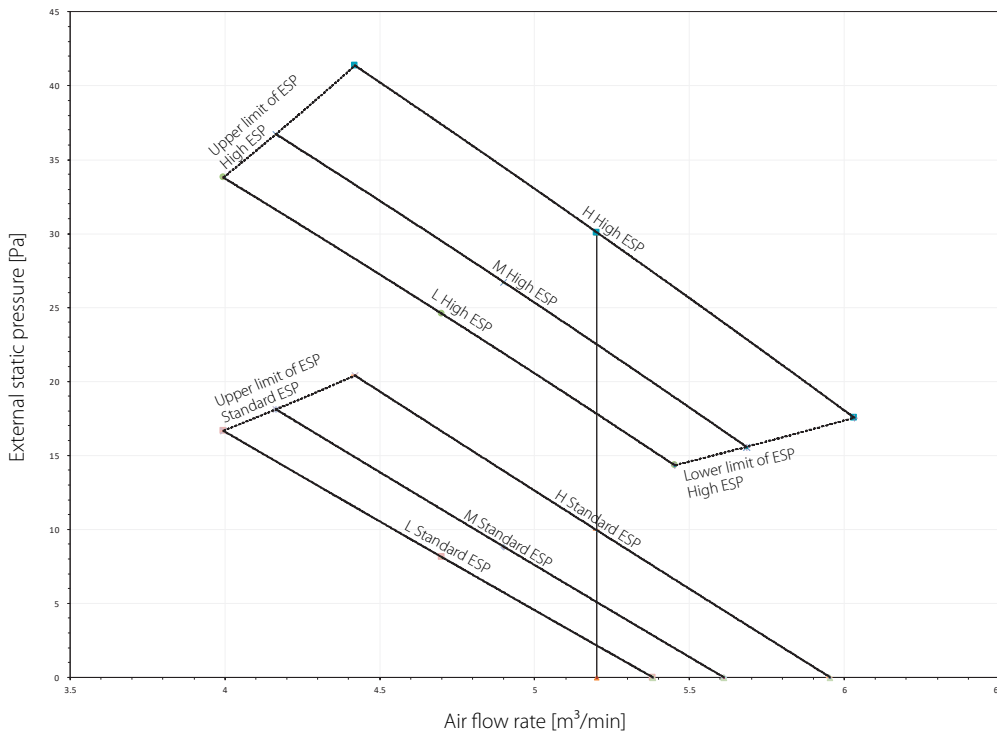
Item	
1	Liquid pipe connection -ø6.35- Flare connection
2	Gas pipe connection -ø12.70- Flare connection
3	Drain pipe connection Outside diameter: ø26- Inside diameter: ø20-
4	Drain hose (accessory) Inside diameter: ø25-
5	Control box
6	Transmission wiring connection
7	Power supply connection
8	Suspension bracket
9	Inspection door
10	Drain socket
11	Air filter (accessory)
12	Heat exchanger
13	Turbo fan
14	Fan motor
15	Fan housing
16	Drain pump
17	Float switch
18	Electronic expansion valve

#### NOTES

- In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.
- The unit nameplate is located on the control box cover.
- Mount the air filter at the suction side. Use an air filter with a dust collecting efficiency of at least 50% (measured by gravimetric analysis). When a duct is connected at the suction side, it is not possible to mount an air filter.

2D126592

### FXDA10A



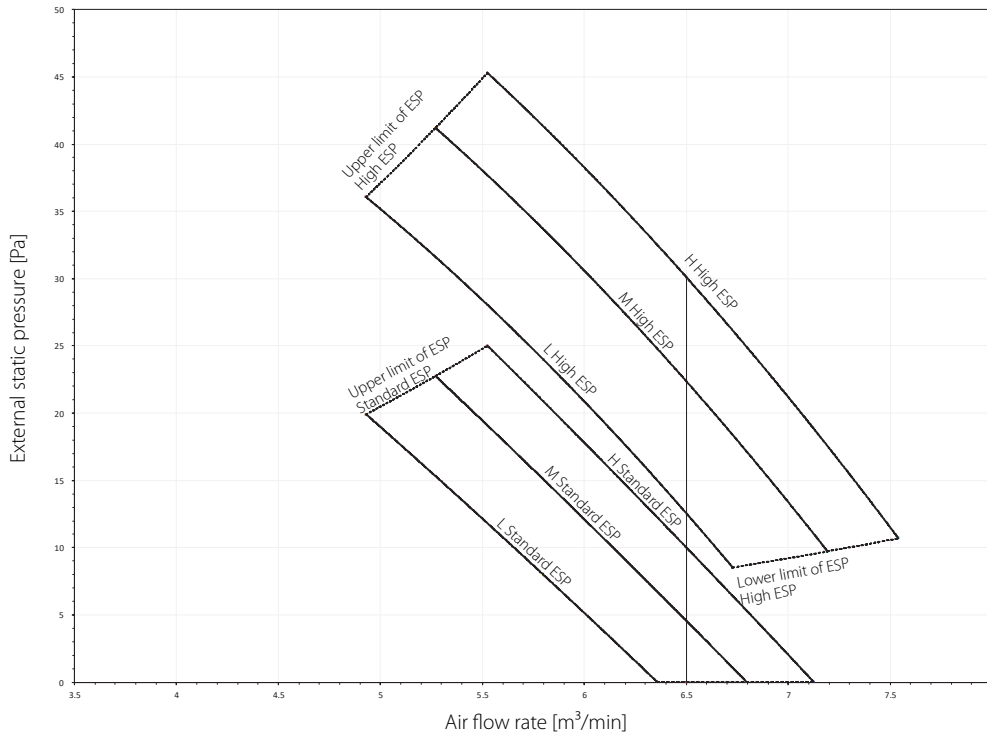
#### NOTES

- The fan characteristics shown are in "fan only" mode.
- ESP: External Static Pressure
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D129552



**FXDA15A**

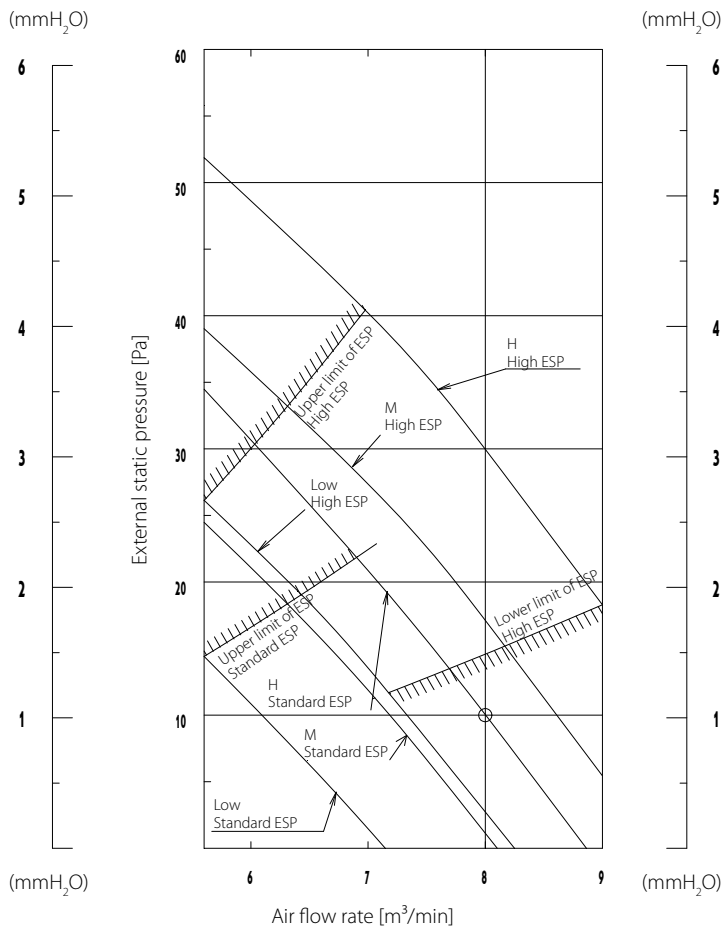


**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure
3. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

**3D129553**

**FXDA20-25A**

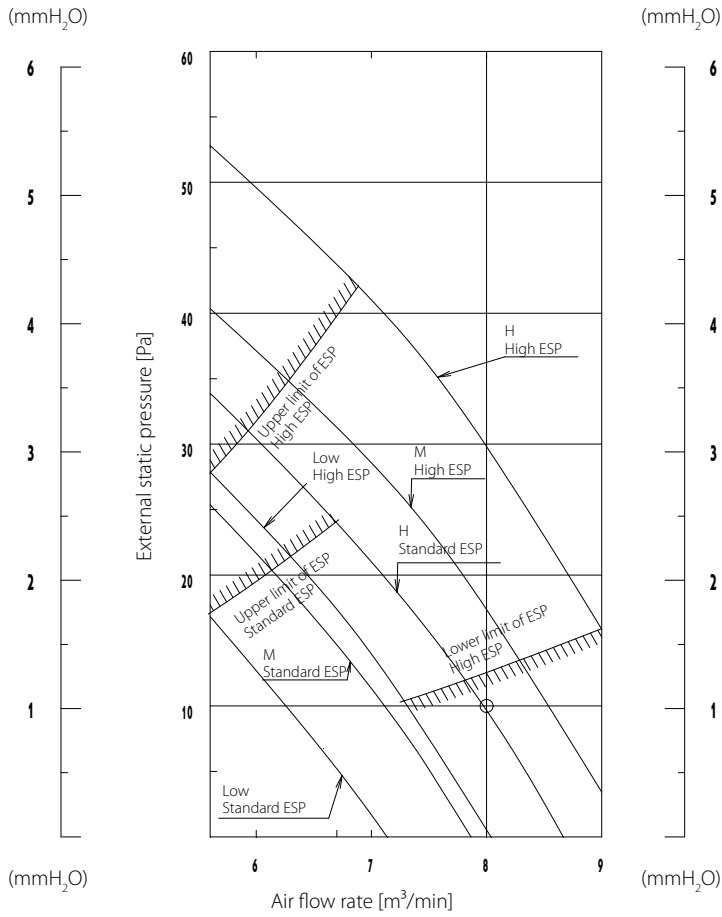


**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

**3D086736B**

**FXDA32A**

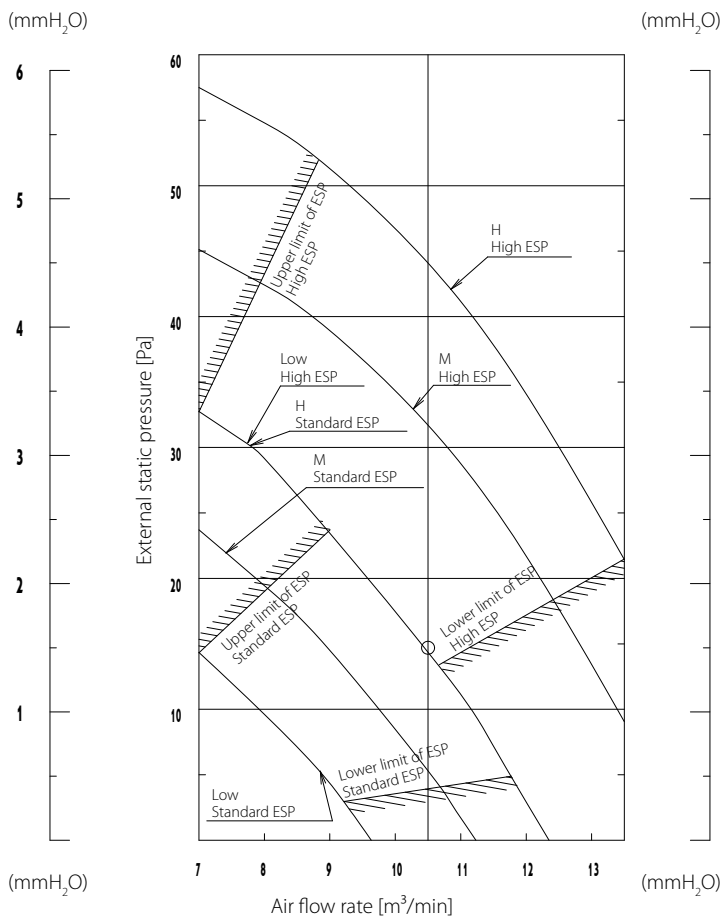


**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

**3D081425C**

**FXDA40A**



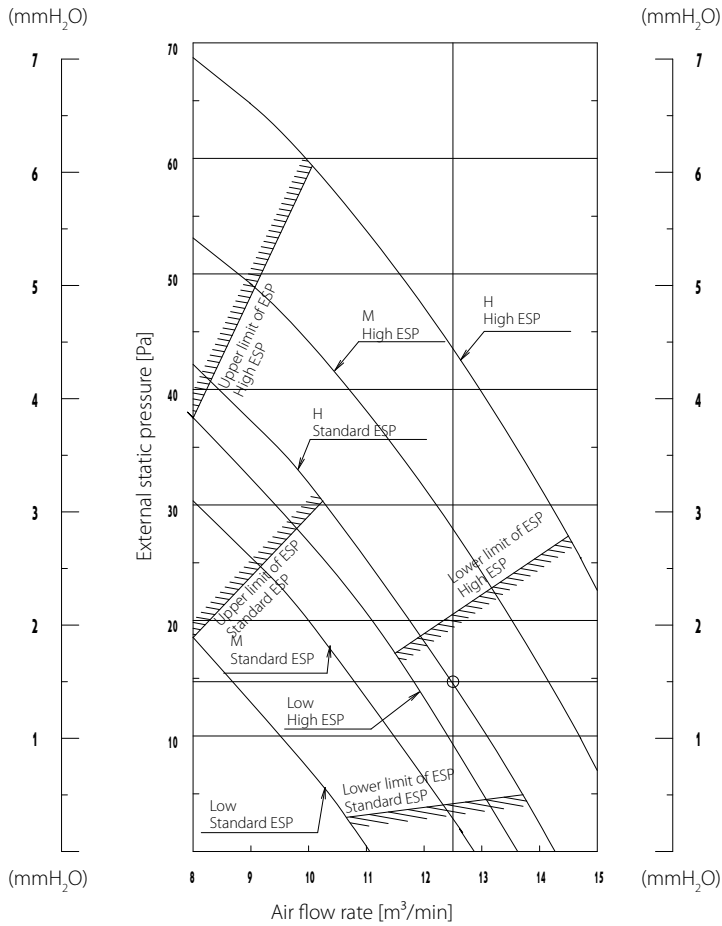
**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

**3D081426C**



### FXDA50A

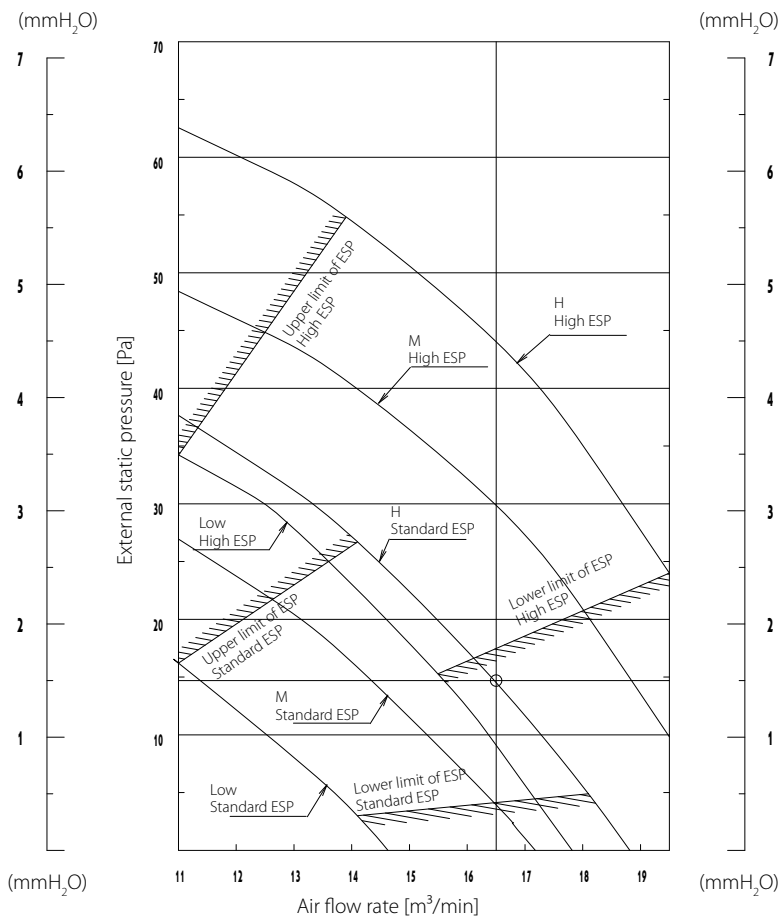


#### NOTES

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081427C

### FXDA63A



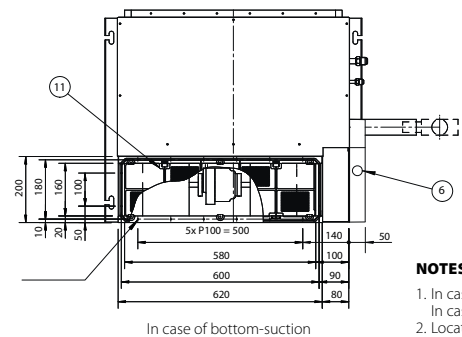
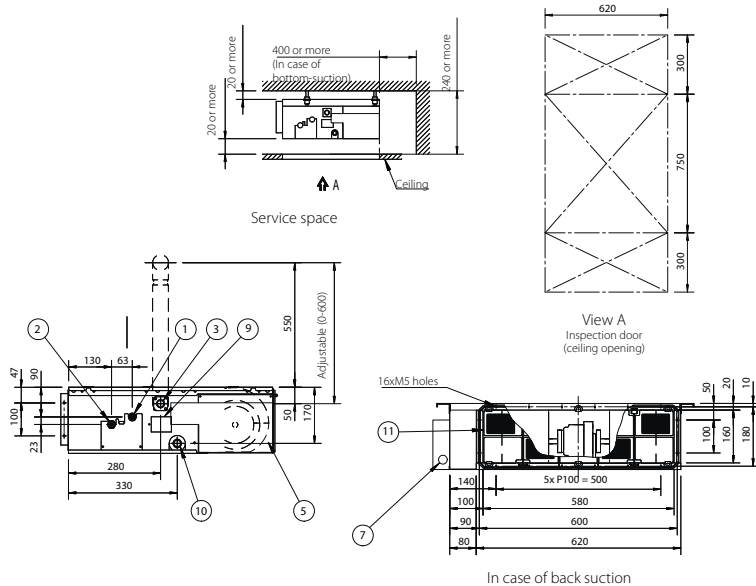
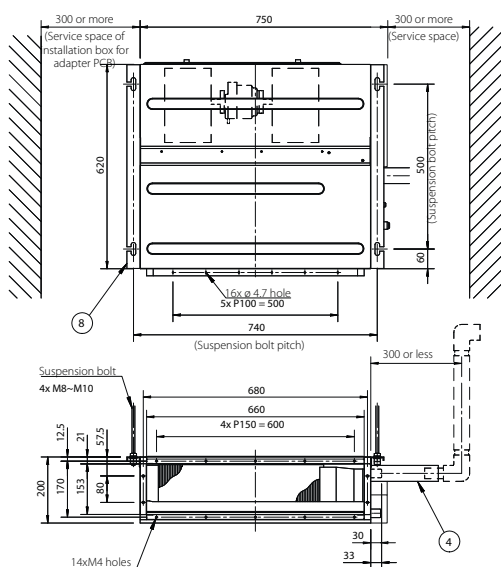
#### NOTES

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081429C

## Detailed technical drawings

### FXDQ15-32A3



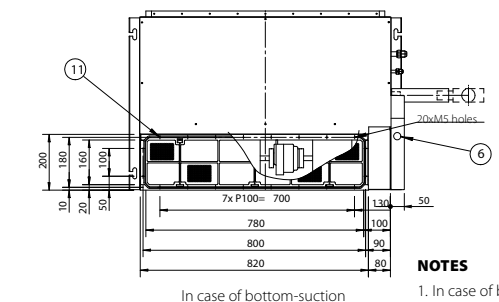
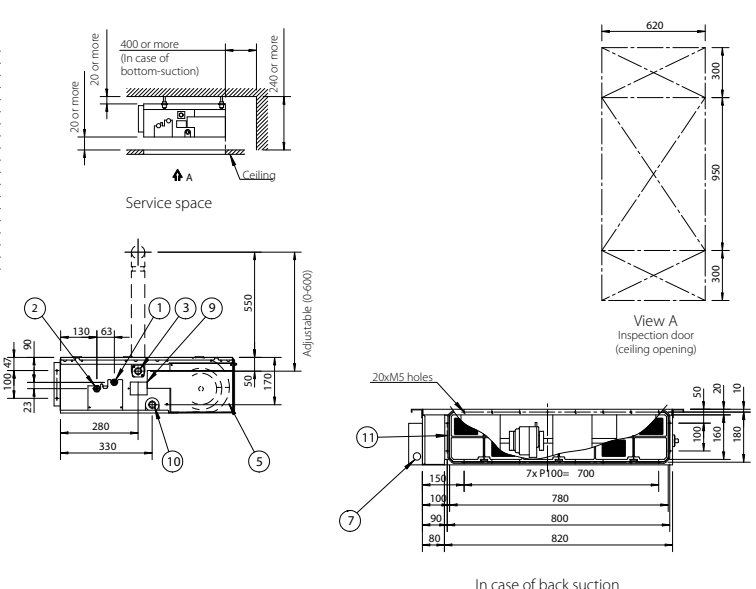
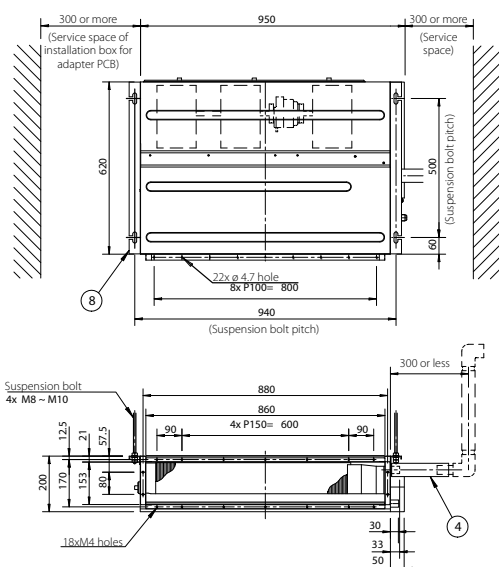
Item	Name	Description
1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP20 (O.D. ø 26, I.D. ø 20)
4	Drain hose (accessory)	ID ø 25 (Outlet)
5	Control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection door	
10	Socket for drain	
11	Air filter (accessory)	

#### NOTES

- In case of back-suction, mount chamber cover to bottom side of the unit.
- In case of bottom-suction, mount chamber cover to back side of the unit.
- Locations of unit's name plate: control box cover.
- Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081435

### FXDQ40-50A3



Item	Name	Description
1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP20 (O.D. ø 26, I.D. ø 20)
4	Drain hose (accessory)	ID ø 25 (Outlet)
5	Control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection door	
10	Socket for drain	
11	Air filter (accessory)	

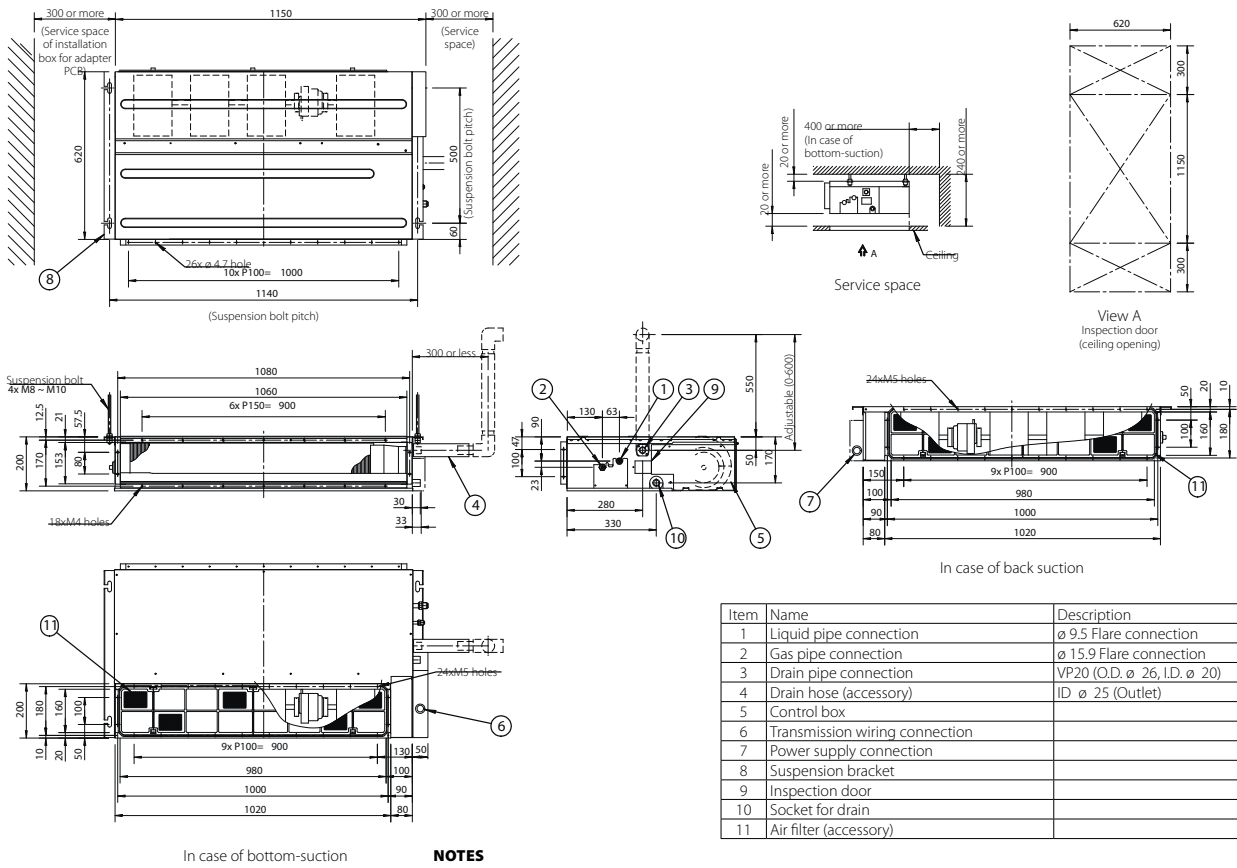
#### NOTES

- In case of back-suction, mount chamber cover to bottom side of the unit.
- In case of bottom-suction, mount chamber cover to back side of the unit.
- Locations of unit's name plate: control box cover.
- Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081436



### FXDQ63A3

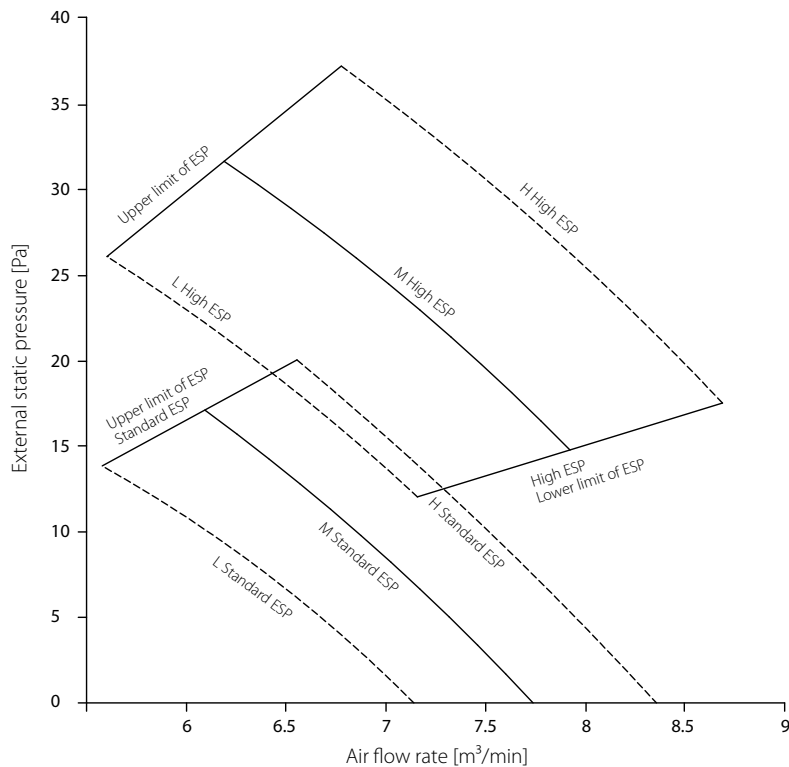


#### NOTES

1. In case of back-suction, mount chamber cover to bottom side of the unit.
2. In case of bottom-suction, mount chamber cover to back side of the unit.
3. Locations of unit's name plate: control box cover.
4. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081441

### FXDQ15A3



#### NOTES

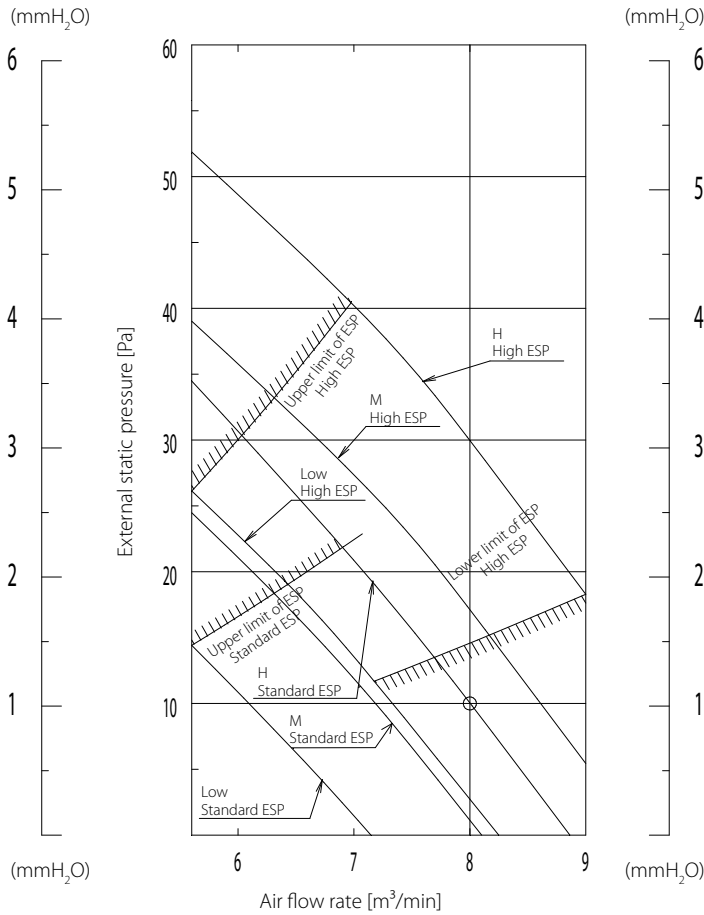
1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081424C





**FXDQ20-25A3**

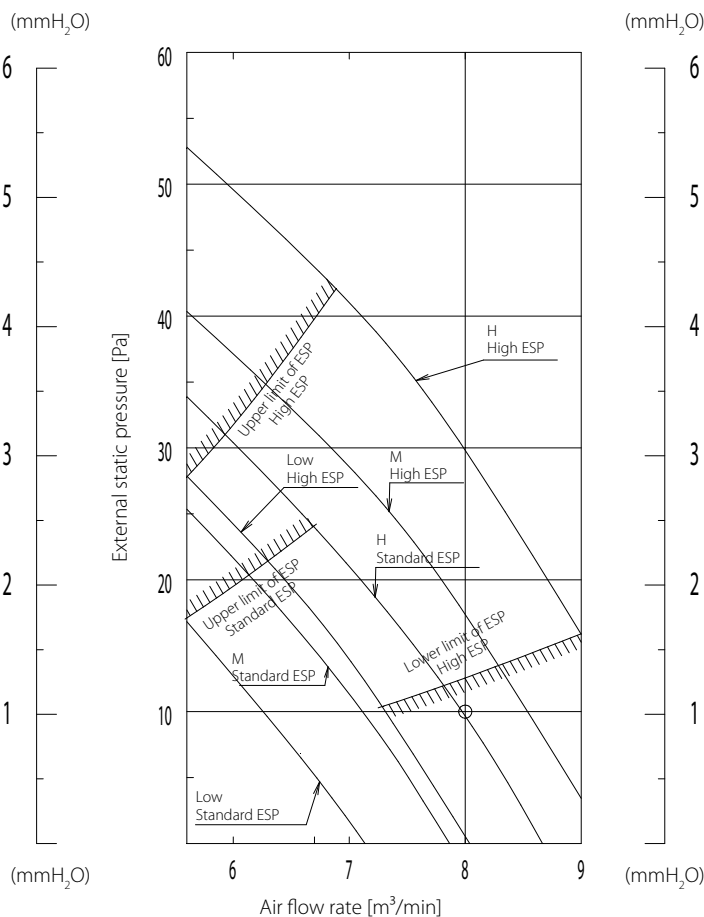


**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

**3D086736B**

**FXDQ32A3**



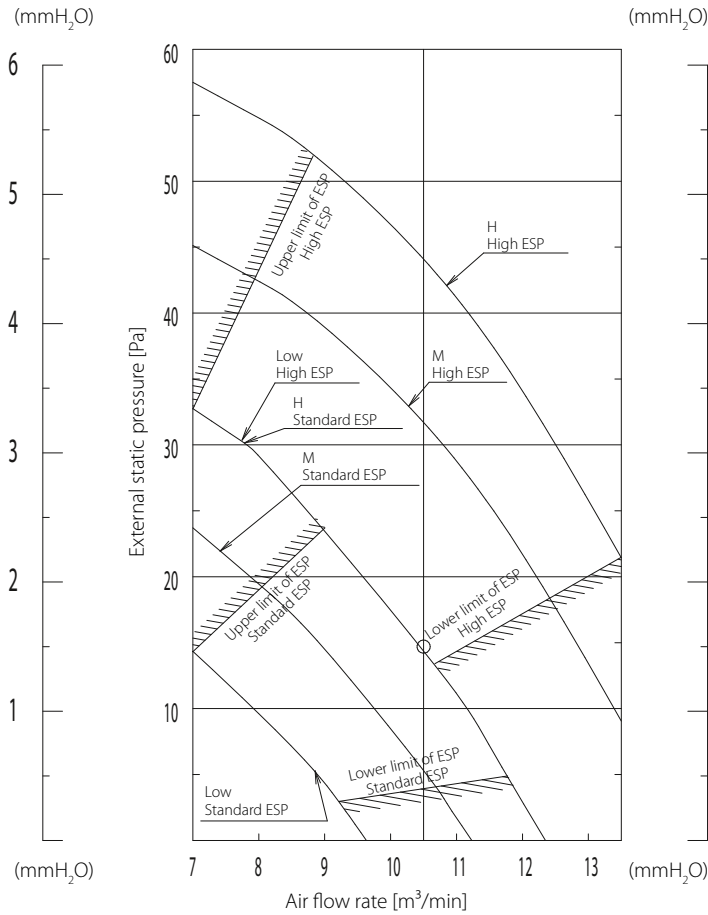
**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

**3D081425C**



### FXDQ40A3

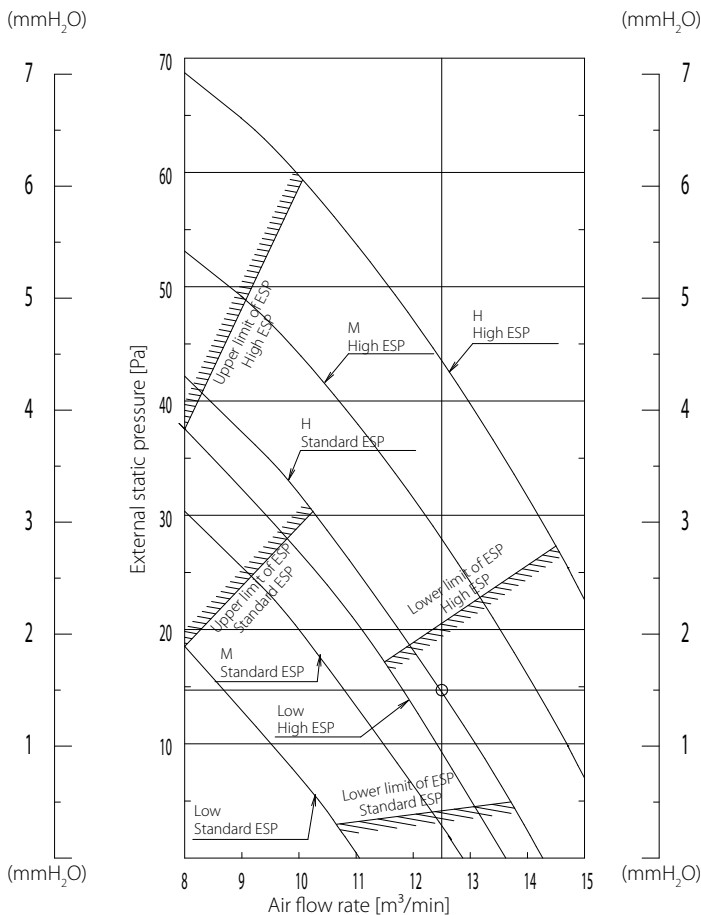


#### NOTES

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081426C

### FXDQ50A3

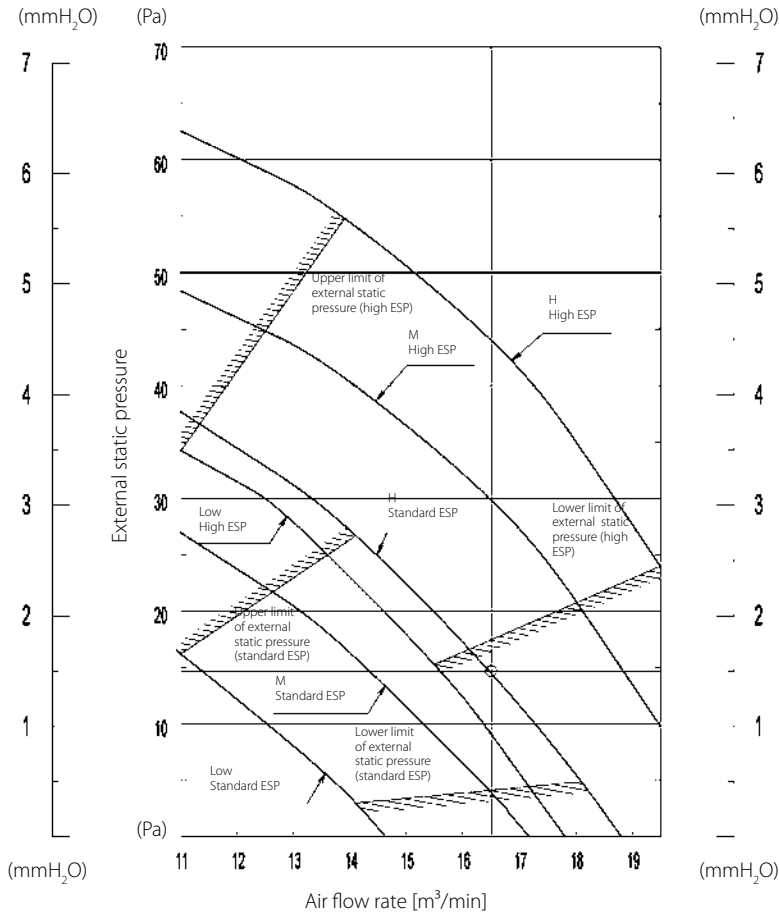


#### NOTES

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081427C

**FXDQ60A3**

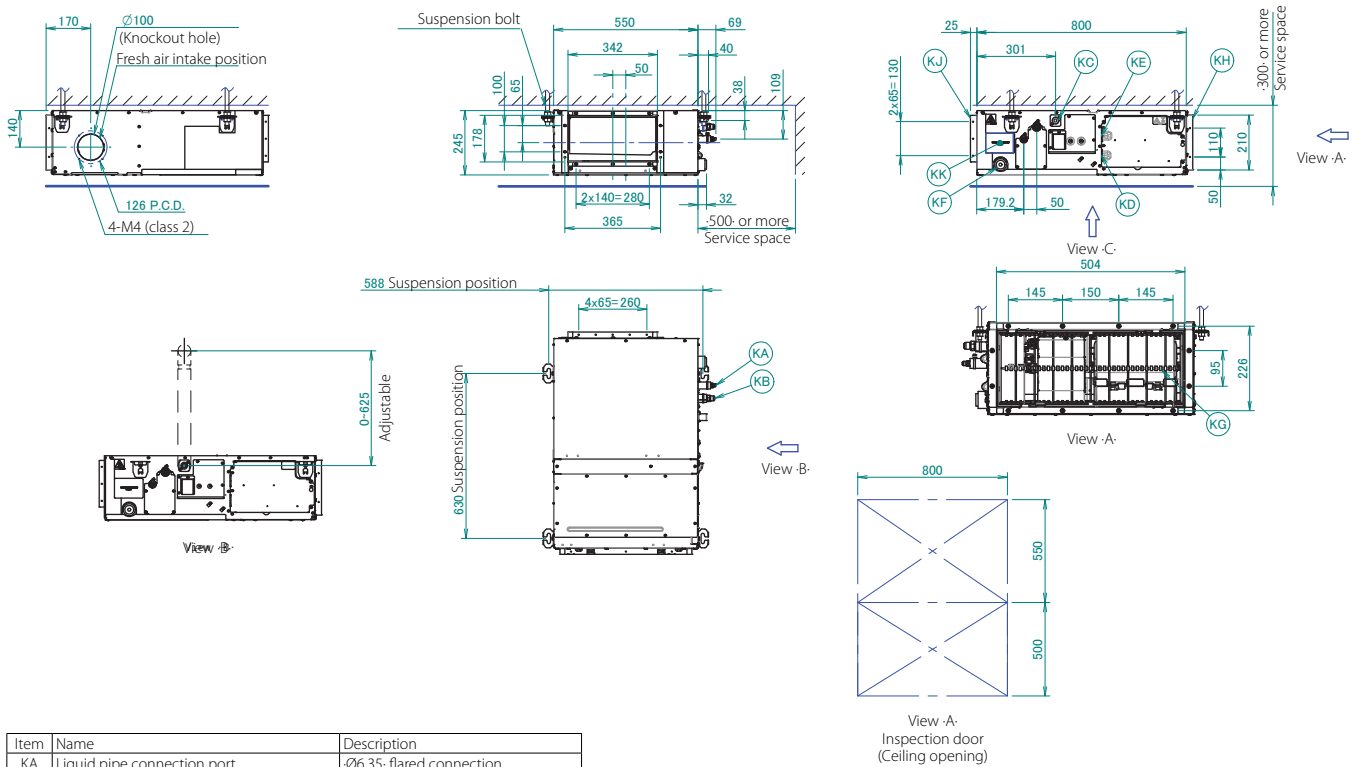


**NOTES**

1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FDQ-A2VEB model)
2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

**3D081429C**

**FXSA15-32A**



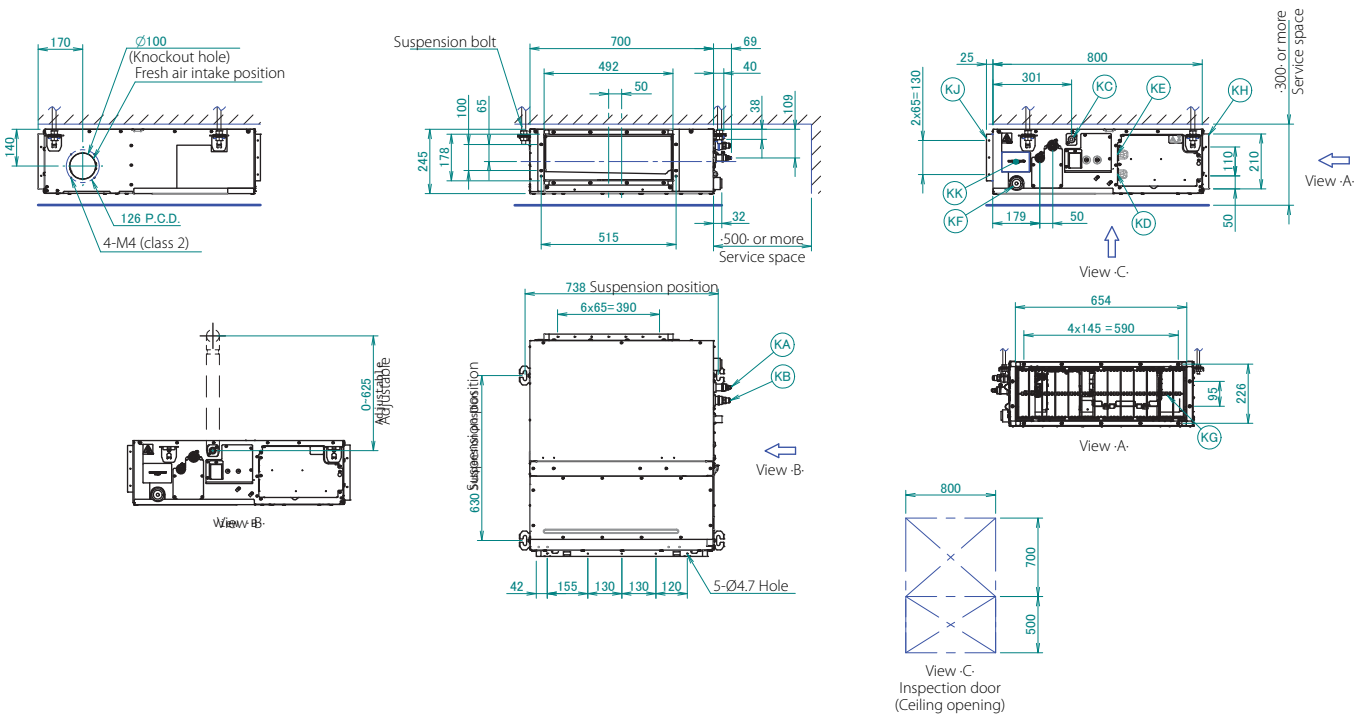
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø9.52- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

**3D128686A**

**FXSA40-50A**



Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø12.70- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

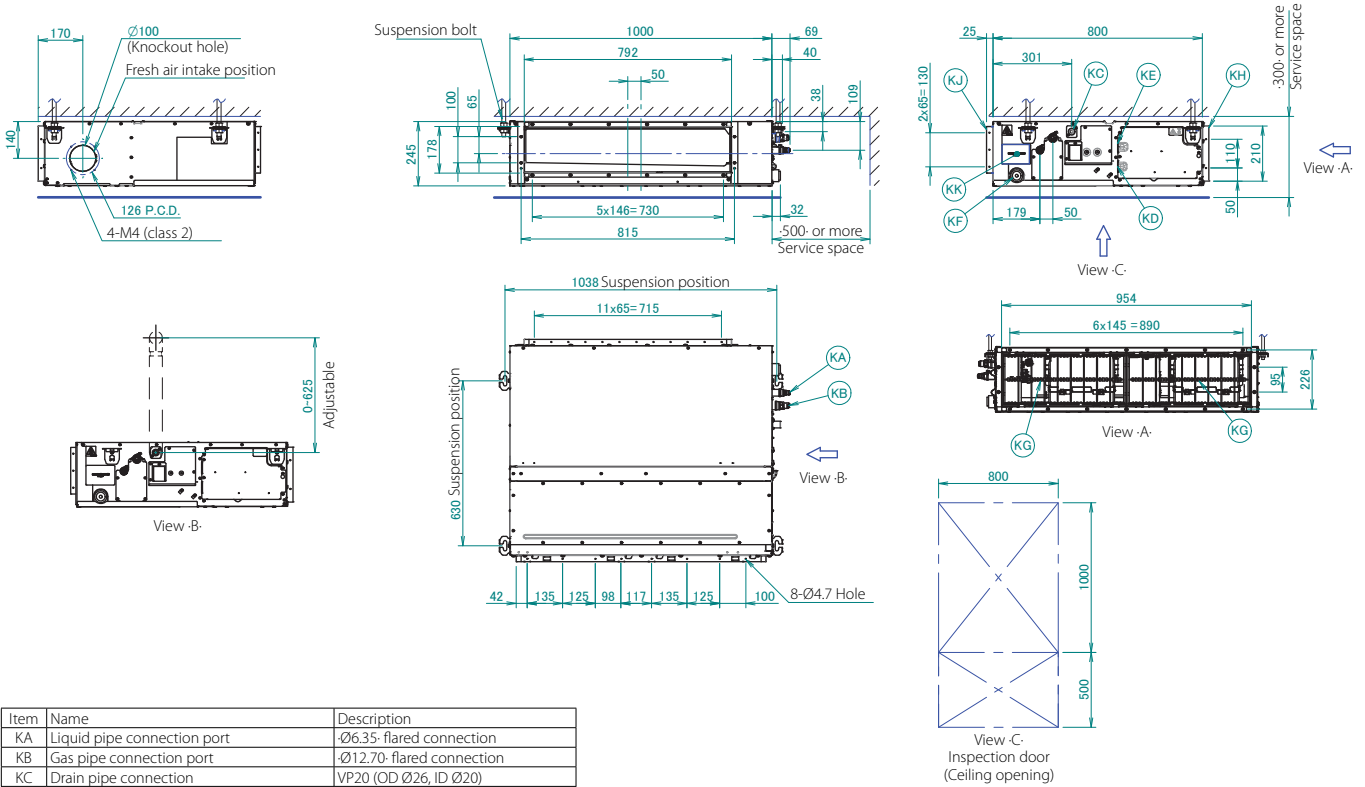
**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

**3D128715A**

Detailed technical drawings

**FXSA63-80A**



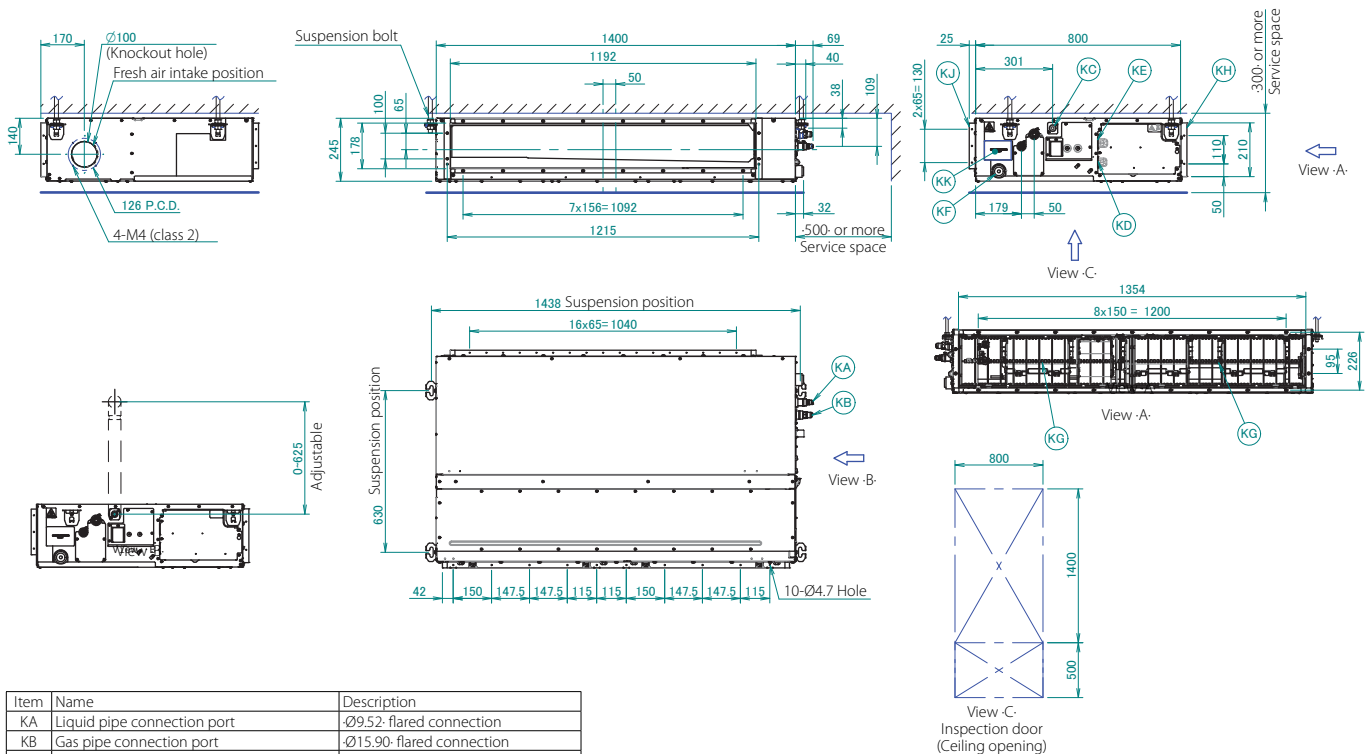
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø12.70- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

**3D128716A**

**FXSA100-125A**



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52- flared connection
KB	Gas pipe connection port	Ø15.90- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

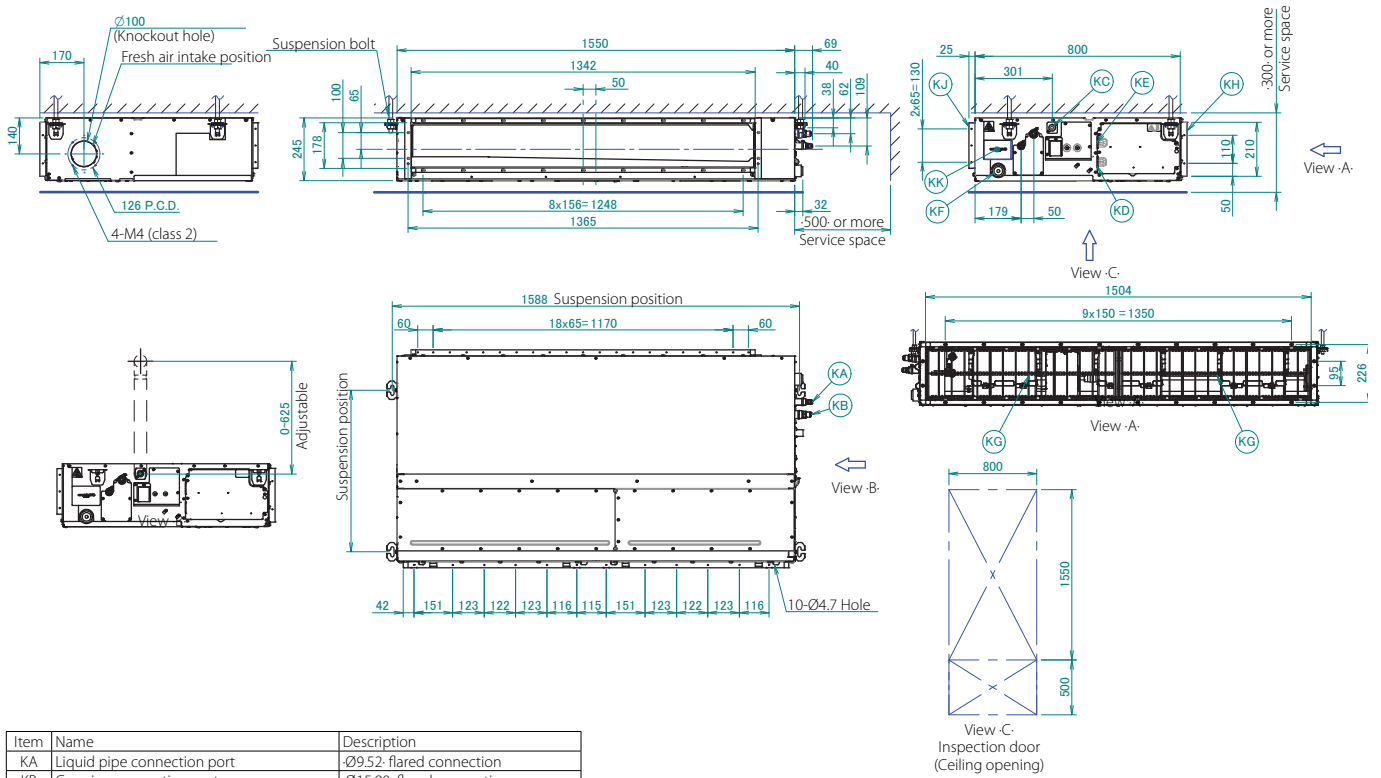
**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

**3D128719A**



### FXSA140A



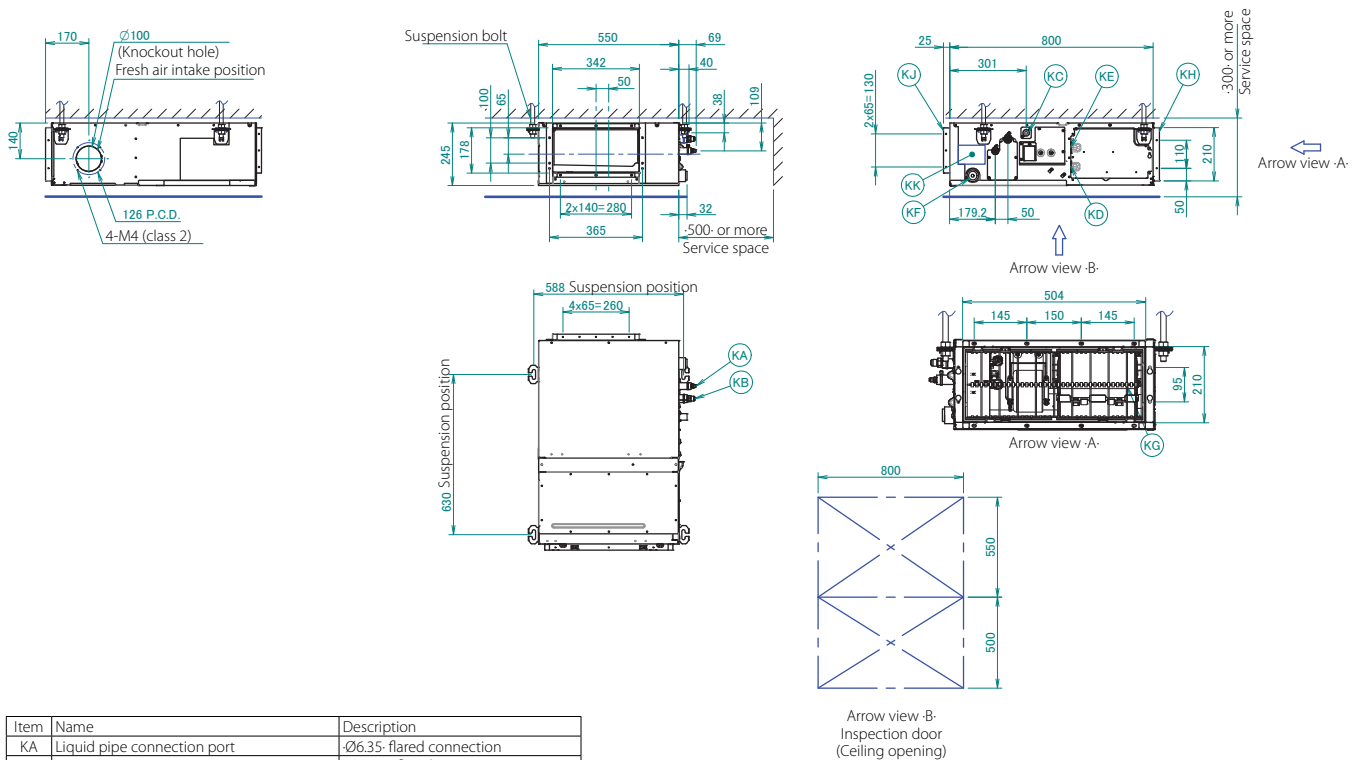
Item	Name	Description
KA	Liquid pipe connection port	Ø9.52- flared connection
KB	Gas pipe connection port	Ø15.90- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

#### NOTES

- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.
- In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

3D128720A

### FXSQ15-32A



Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø12.70- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

#### NOTES

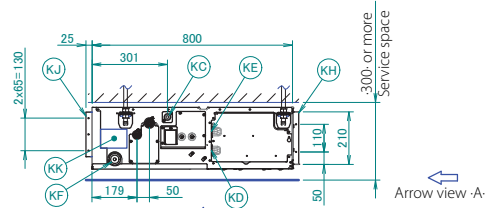
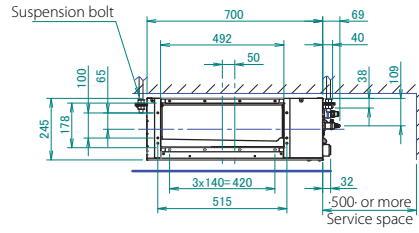
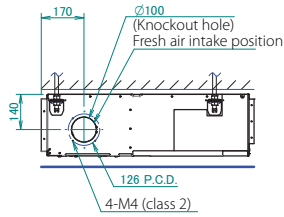
- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.

3D094888B

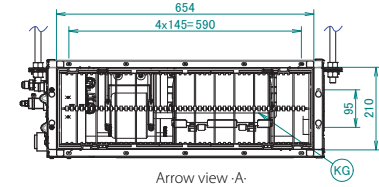
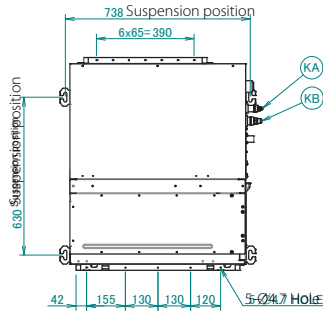


Detailed technical drawings

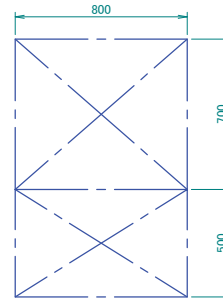
**FXSQ40-50A**



Arrow view -B



Arrow view -A



Arrow view -B  
Inspection door  
(Ceiling opening)

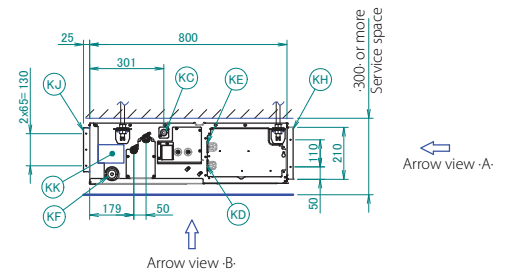
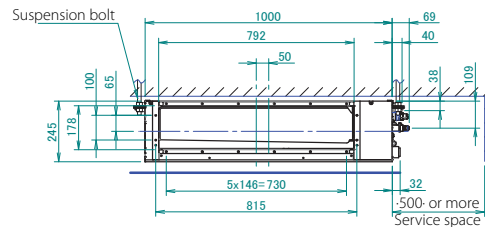
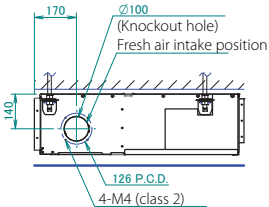
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø12.70- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

**NOTES**

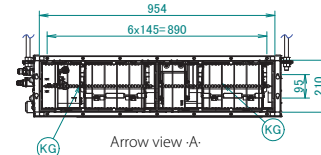
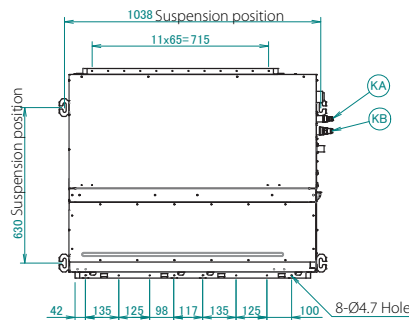
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D094919B**

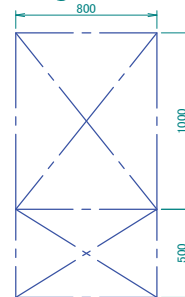
**FXSQ63-80A**



Arrow view -B



Arrow view -A



Arrow view -B  
Inspection door  
(Ceiling opening)

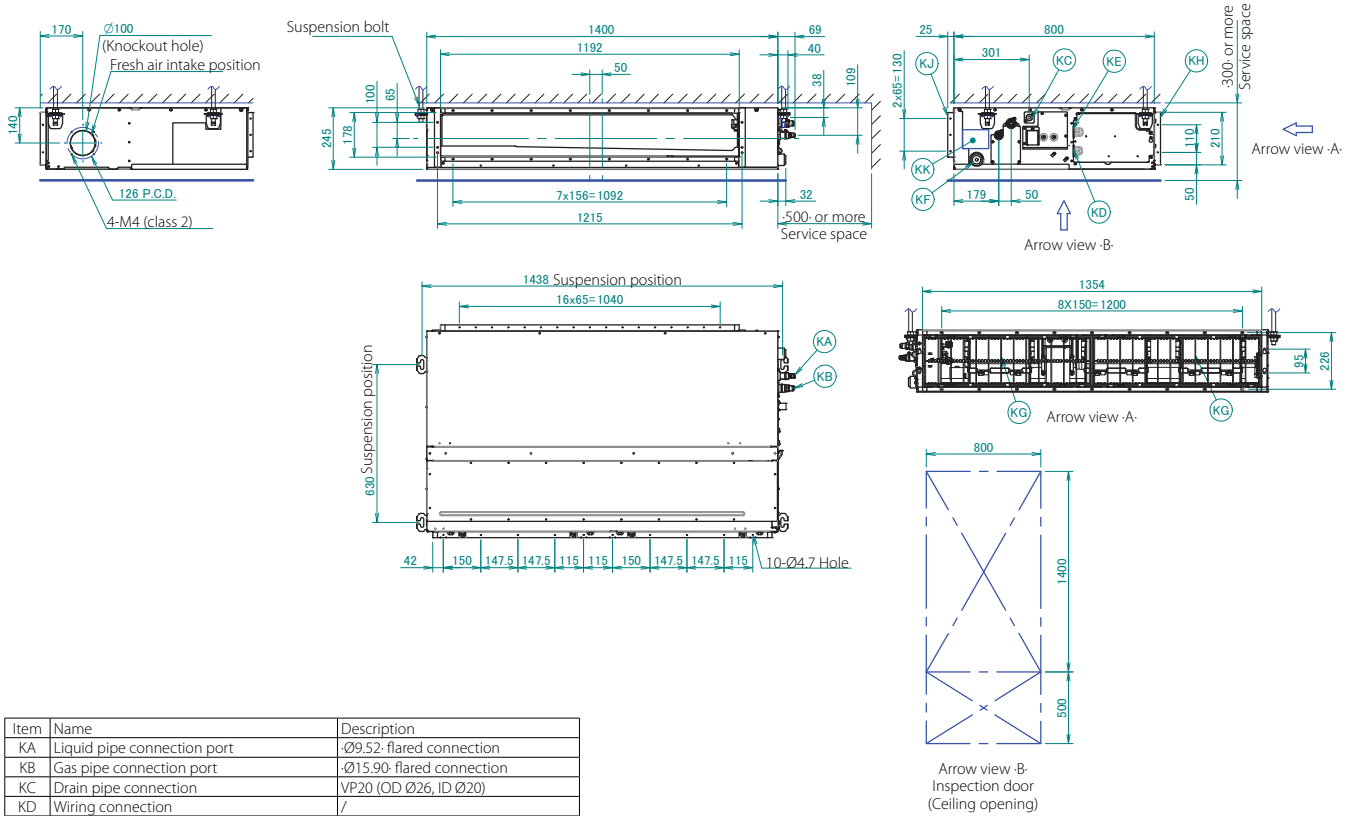
Item	Name	Description
KA	Liquid pipe connection port	Ø9.52- flared connection
KB	Gas pipe connection port	Ø15.90- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D094916B**

### FXSQ100-125A



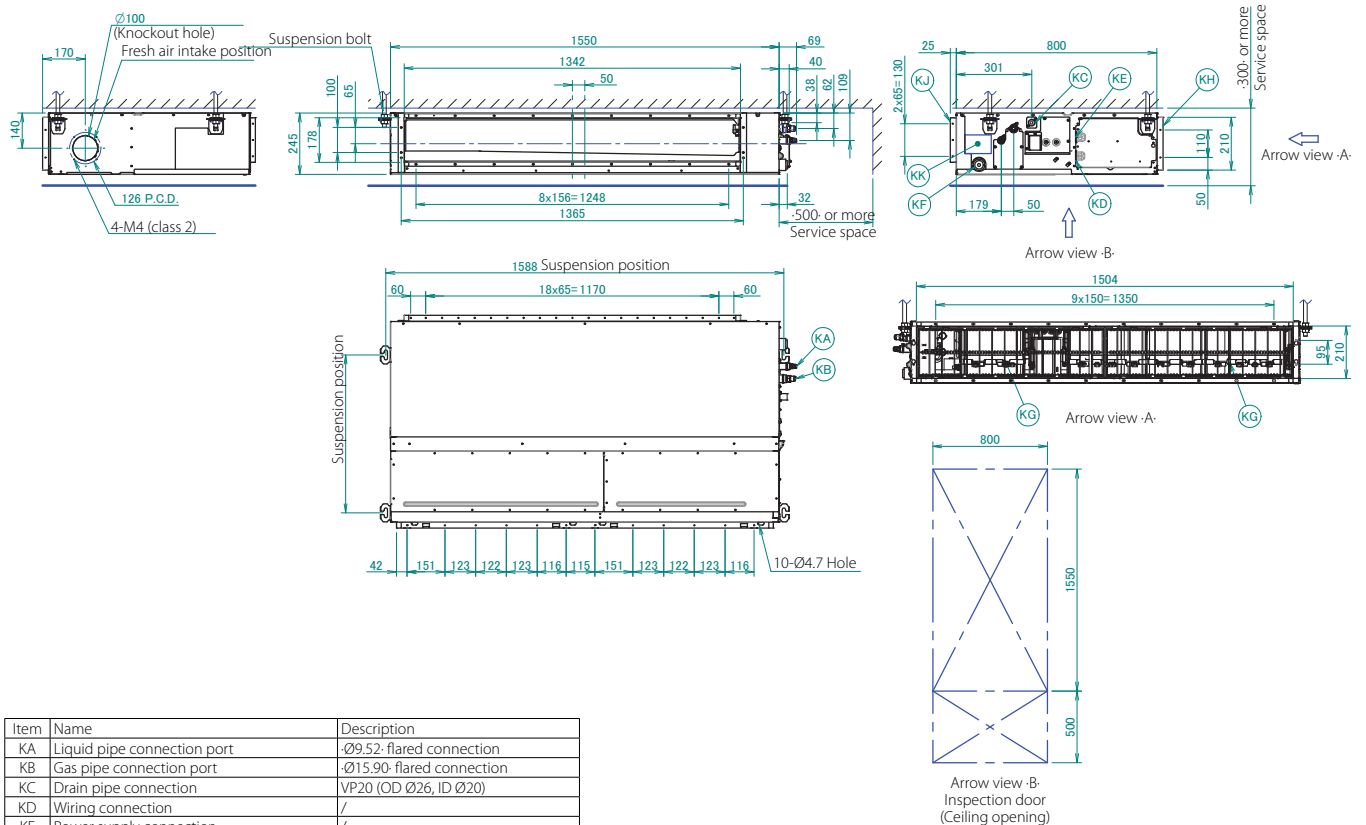
Item	Name	Description
KA	Liquid pipe connection port	Ø9.52- flared connection
KB	Gas pipe connection port	Ø15.90- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D094917B**

### FXSQ140A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52- flared connection
KB	Gas pipe connection port	Ø15.90- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

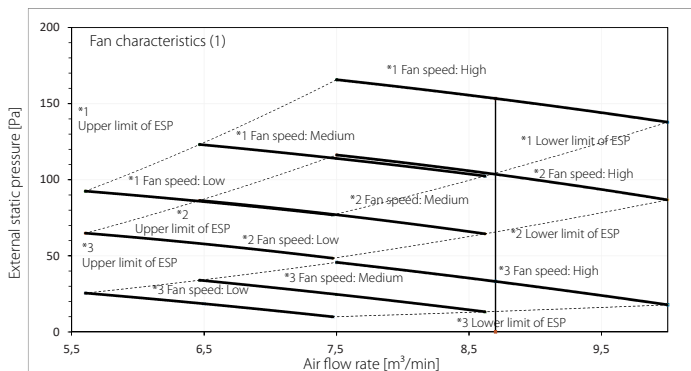
**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D094928B**

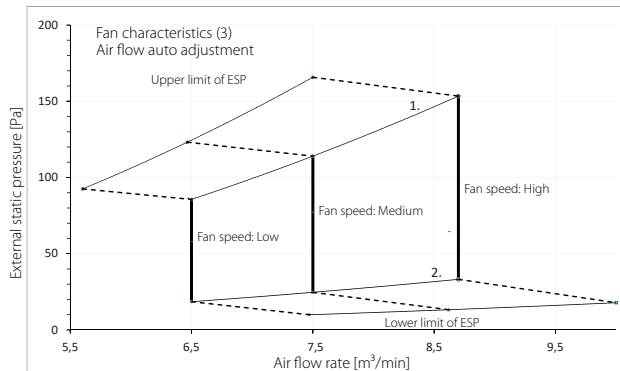
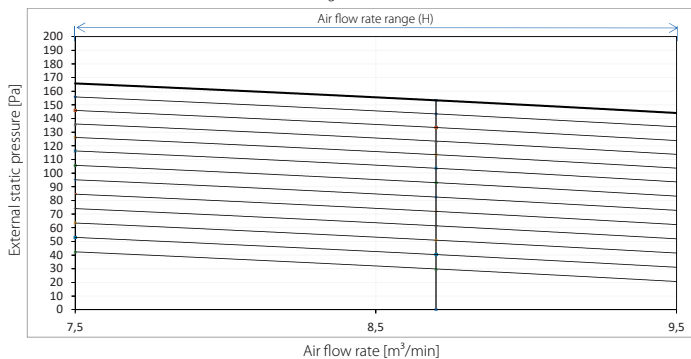


### FXSQ15A FXSA15A



Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

Fan characteristics (2)  
Field setting with remote control



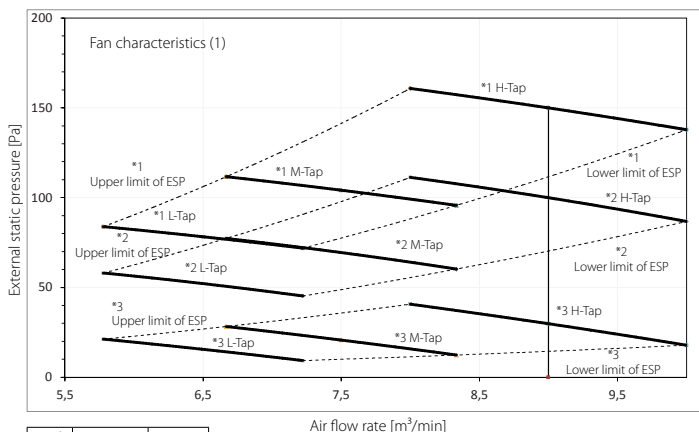
1. Upper limit of ESP by air flow auto adjustment  
2. Lower limit of ESP by air flow auto adjustment

#### NOTES

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

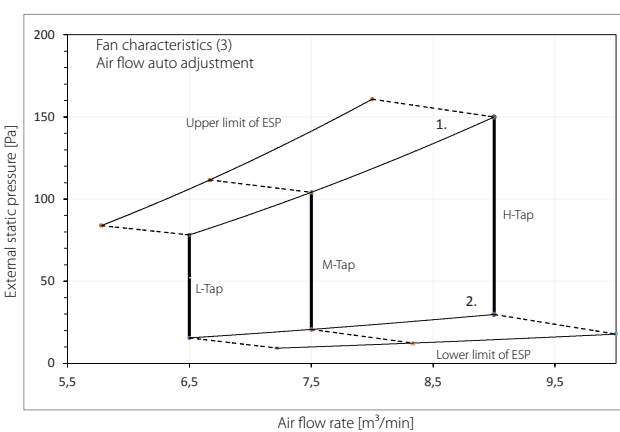
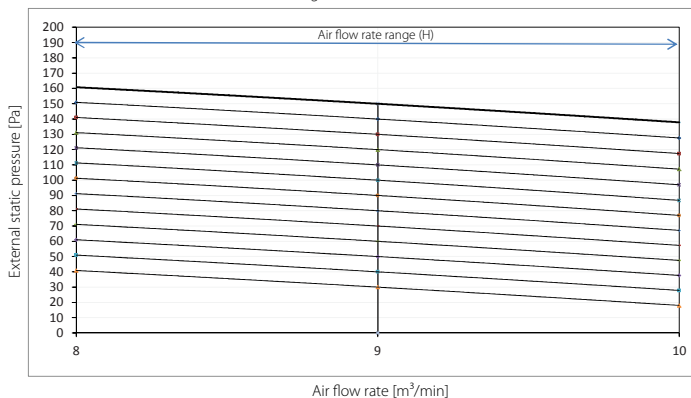
3D096999B

### FXSQ20-25A FXSA20-25A



Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

Fan characteristics (2)  
Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment  
2. Lower limit of ESP by air flow auto adjustment

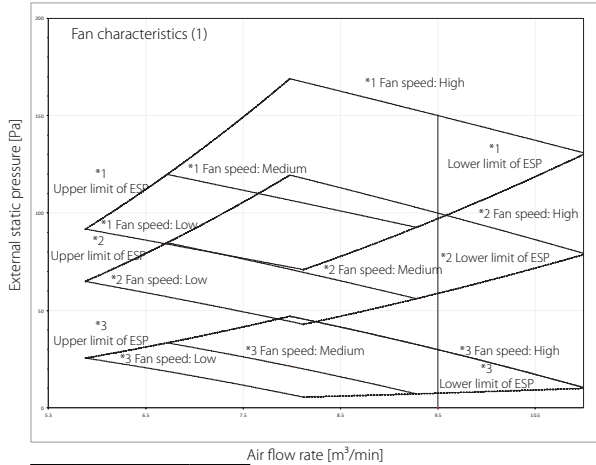
#### NOTES

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095680B

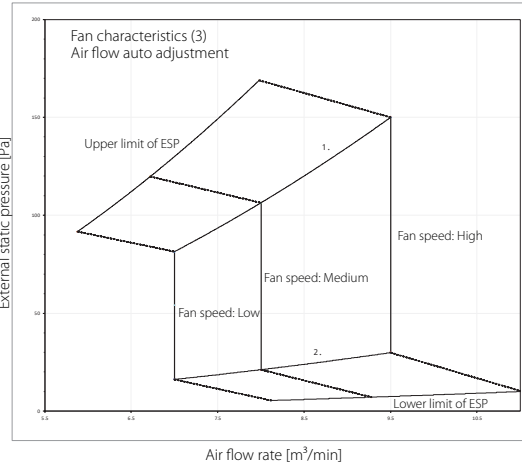
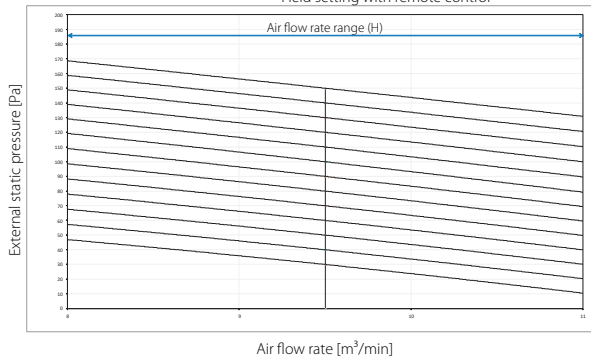


**FXSQ32A**  
**FXSA32A**



Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

Fan characteristics (2)  
Field setting with remote control



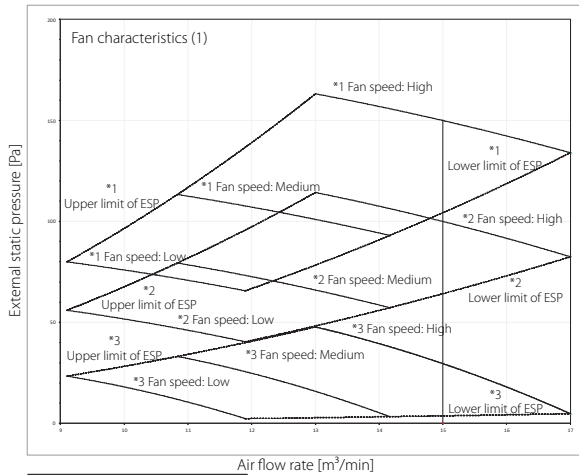
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

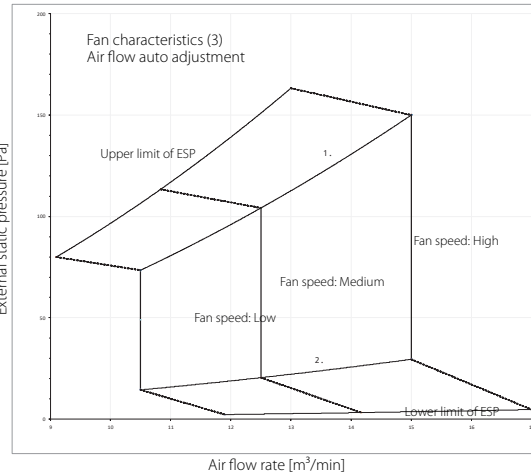
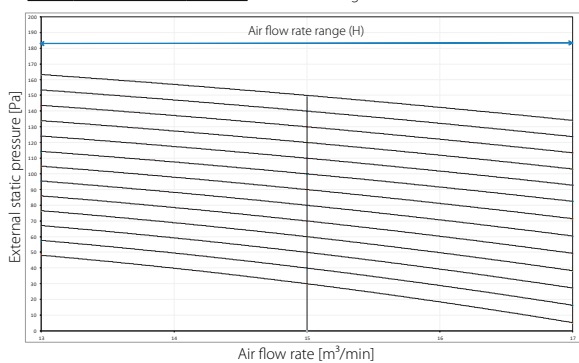
**3D095681B**

**FXSQ40A**  
**FXSA40A**



Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

Fan characteristics (2)  
Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

**NOTES**

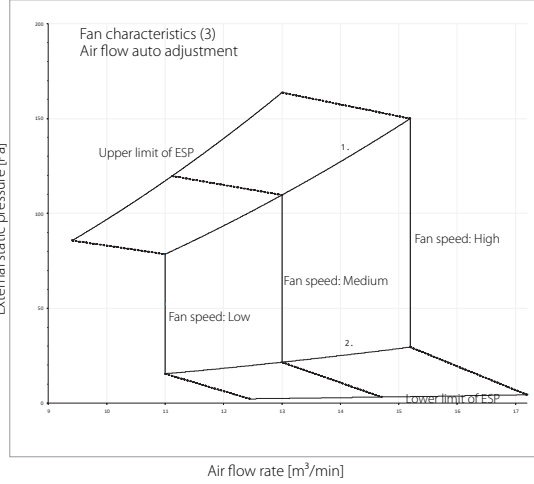
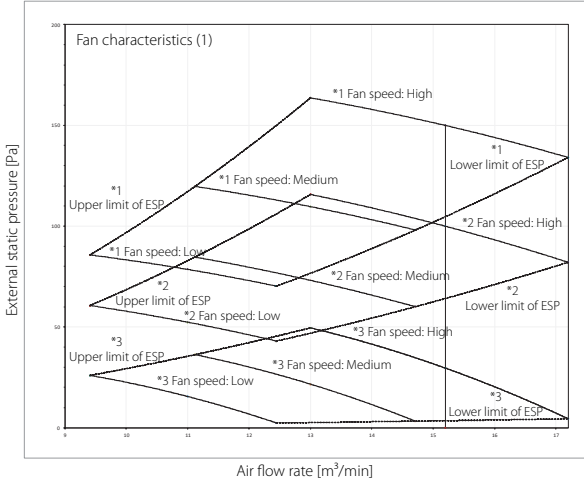
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

**3D095682B**

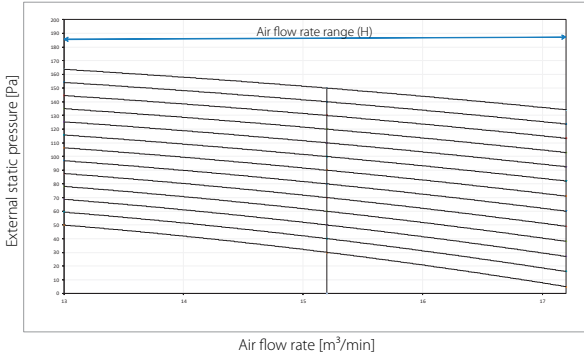


Detailed technical drawings

**FXSQ50A**  
**FXSA50A**



Fan characteristics (2)  
Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

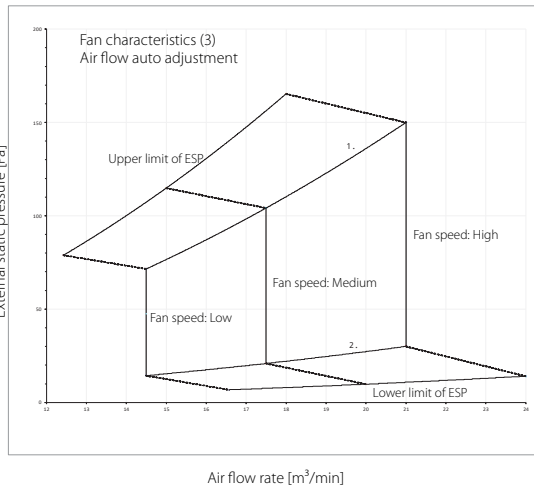
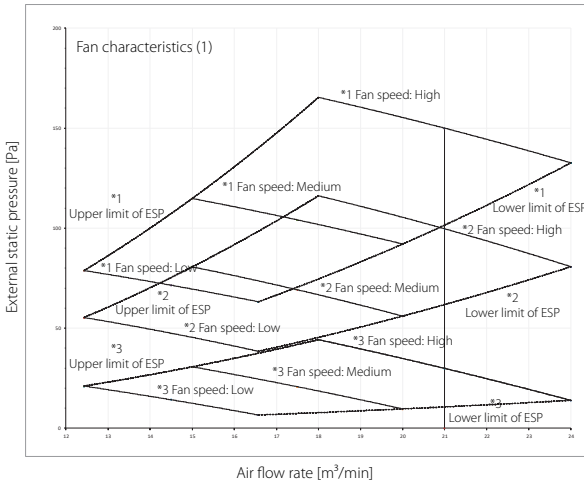
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

**NOTES**

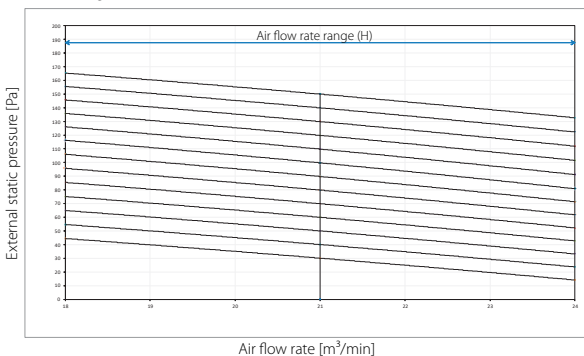
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

**3D095688B**

**FXSQ63A**  
**FXSA63A**



Fan characteristics (2)  
Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

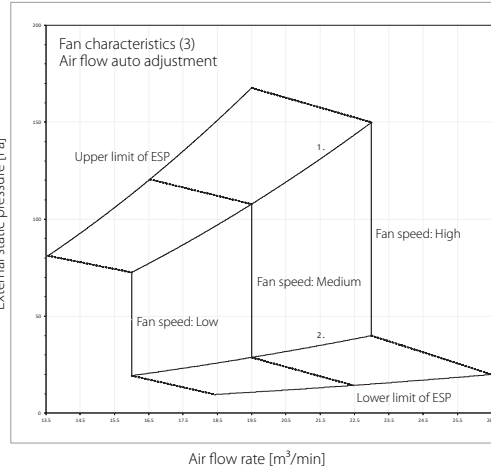
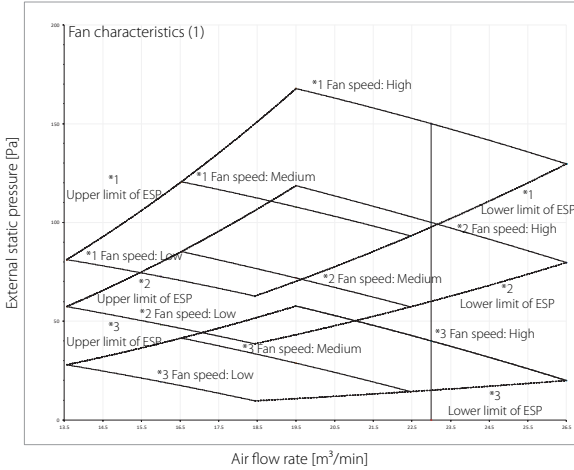
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

**NOTES**

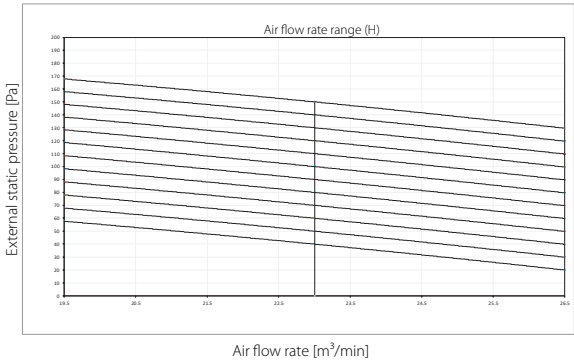
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

**3D095690B**

**FXSQ80A**  
**FXSA80A**



Fan characteristics (2)  
Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

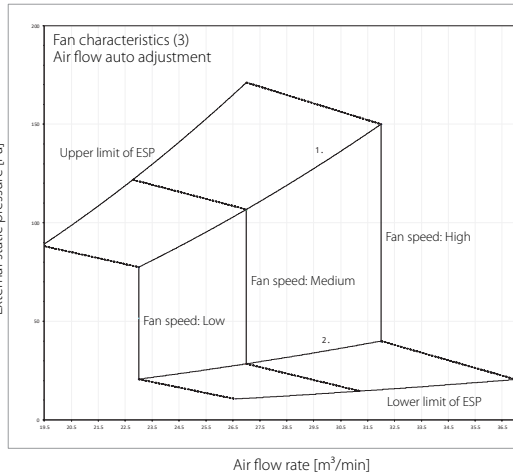
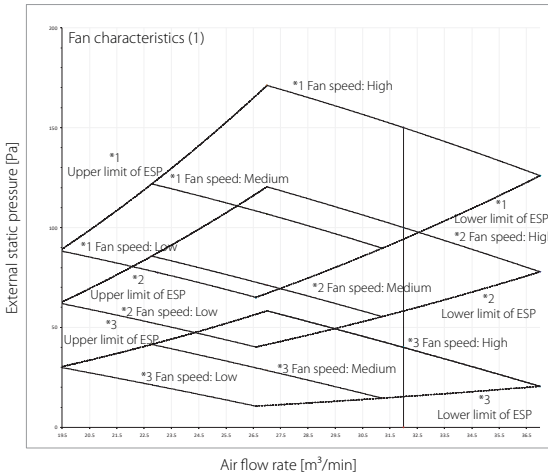
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

**NOTES**

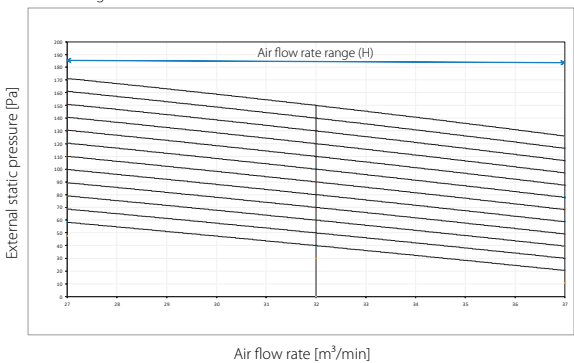
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

**3D095692B**

**FXSQ100A**  
**FXSA100A**



Fan characteristics (2)  
Field setting with remote control



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

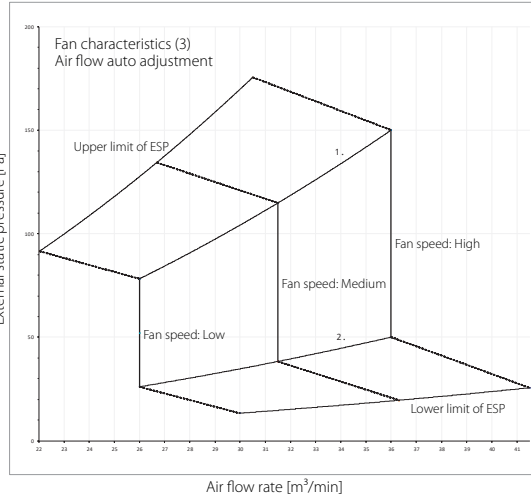
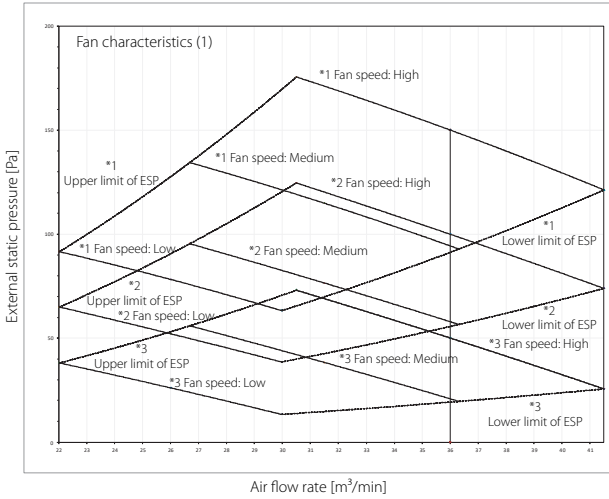
**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

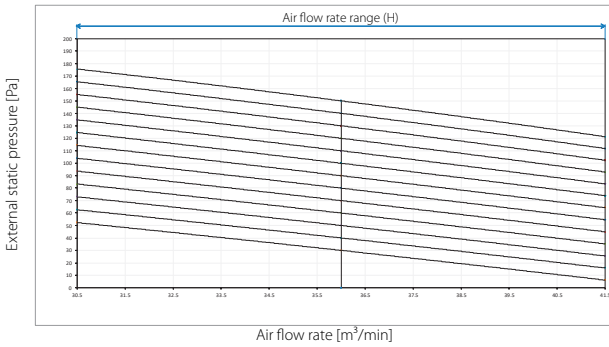
**3D095696B**



**FXSQ125A**  
**FXSA125A**



Fan characteristics (2)  
Field setting with remote control



- 1. Upper limit of ESP by air flow auto adjustment
- 2. Lower limit of ESP by air flow auto adjustment

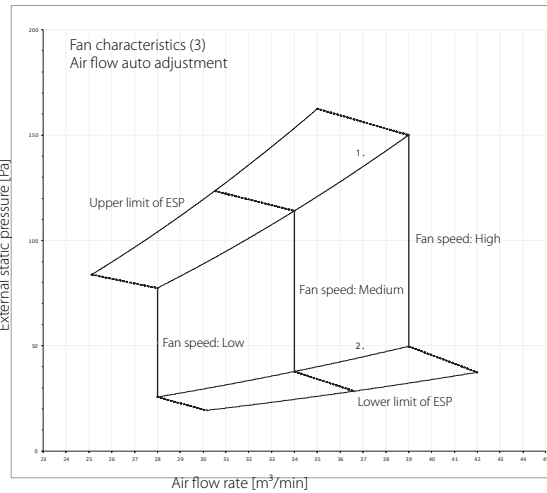
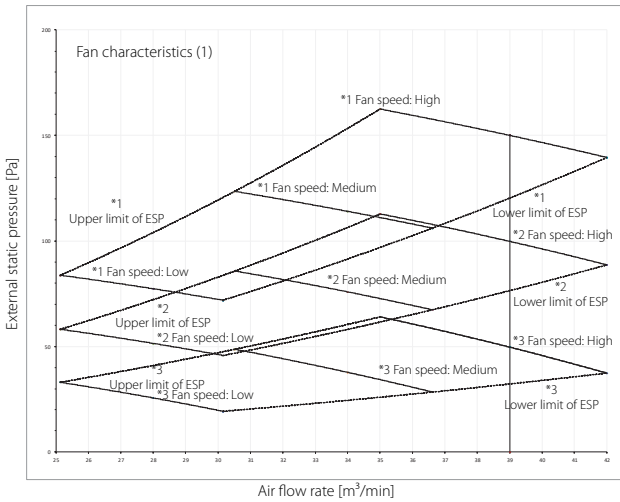
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

**NOTES**

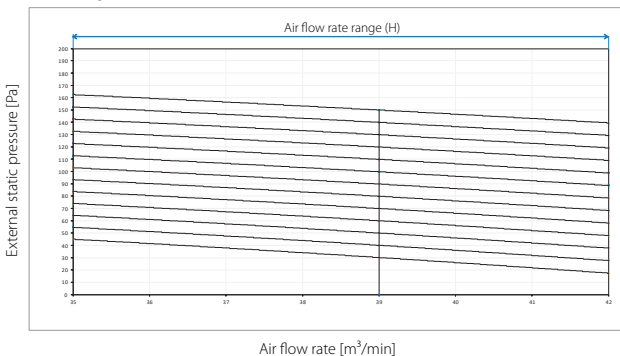
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

**3D095697B**

**FXSQ140A**  
**FXSA140A**



Fan characteristics (2)  
Field setting with remote control



- 1. Upper limit of ESP by air flow auto adjustment
- 2. Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

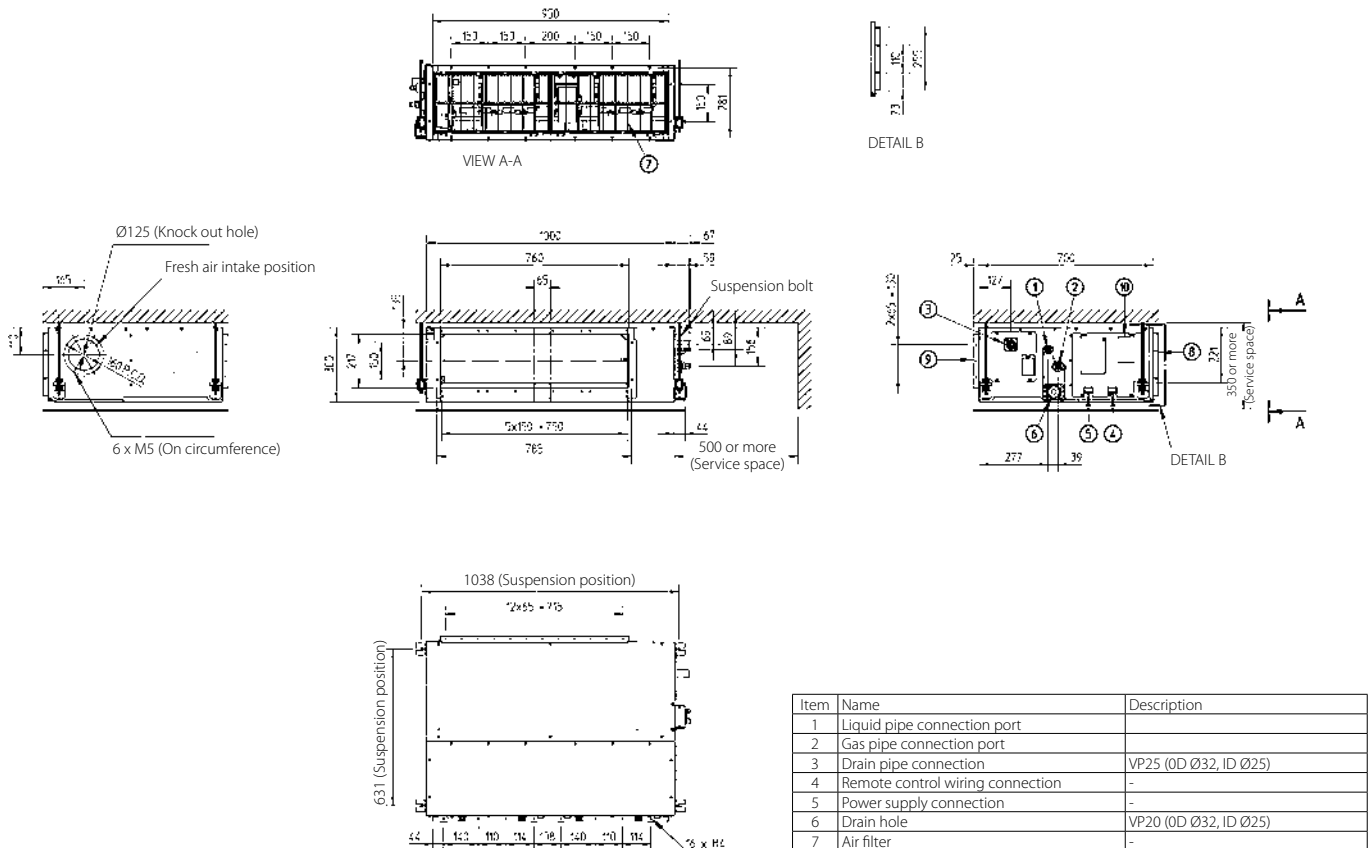
**NOTES**

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

**3D096688B**



**FXMA50A / FXMQ50P7**



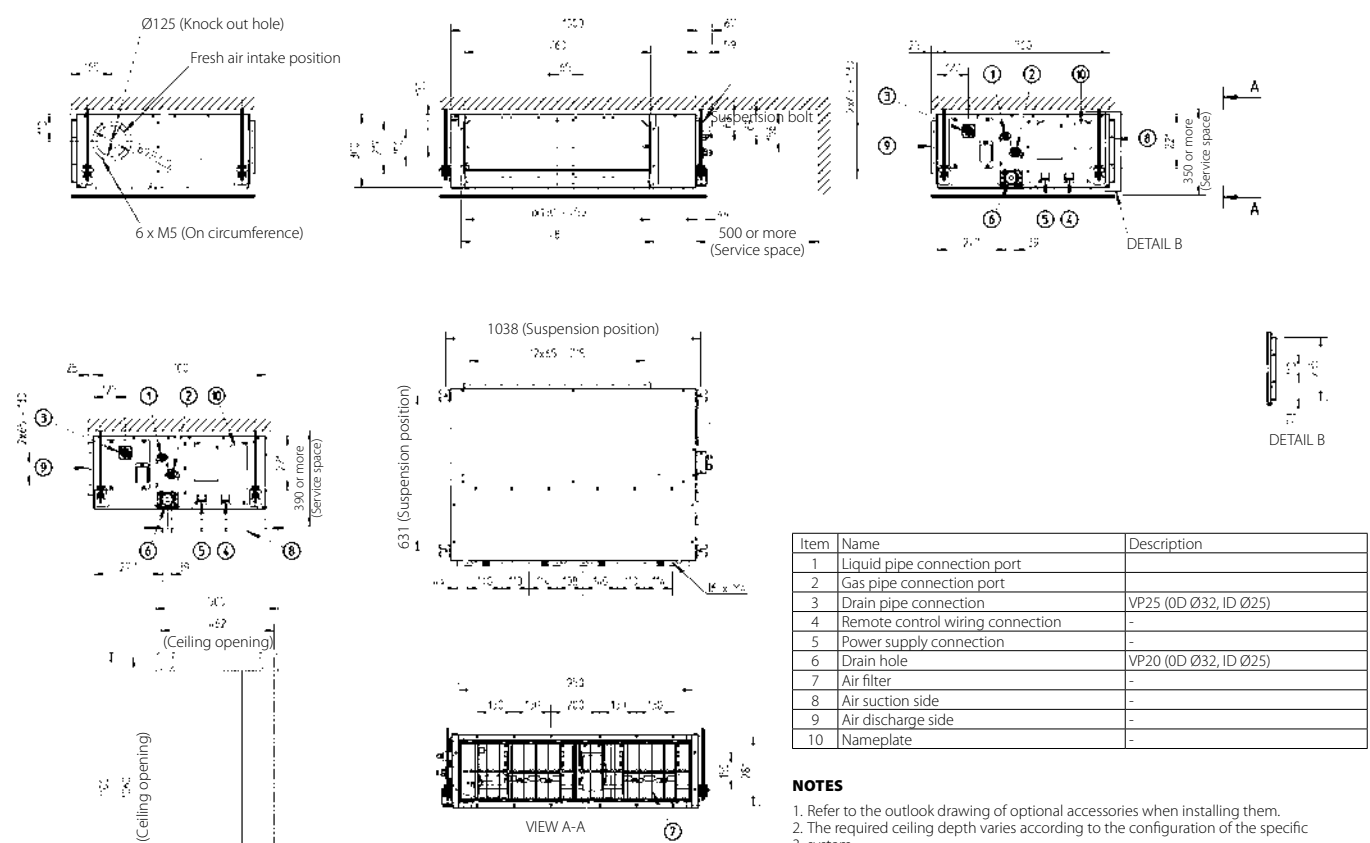
Item	Name	Description
1	Liquid pipe connection port	
2	Gas pipe connection port	
3	Drain pipe connection	VP25 (OD Ø32, ID Ø25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP20 (OD Ø32, ID Ø25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

**NOTES**

1. Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel. Refer to the 'filter installation method' drawing.

**3TW32694-1**

**FXMA 63-80A / FXMQ63-80P7**



Item	Name	Description
1	Liquid pipe connection port	
2	Gas pipe connection port	
3	Drain pipe connection	VP25 (OD Ø32, ID Ø25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP20 (OD Ø32, ID Ø25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

**NOTES**

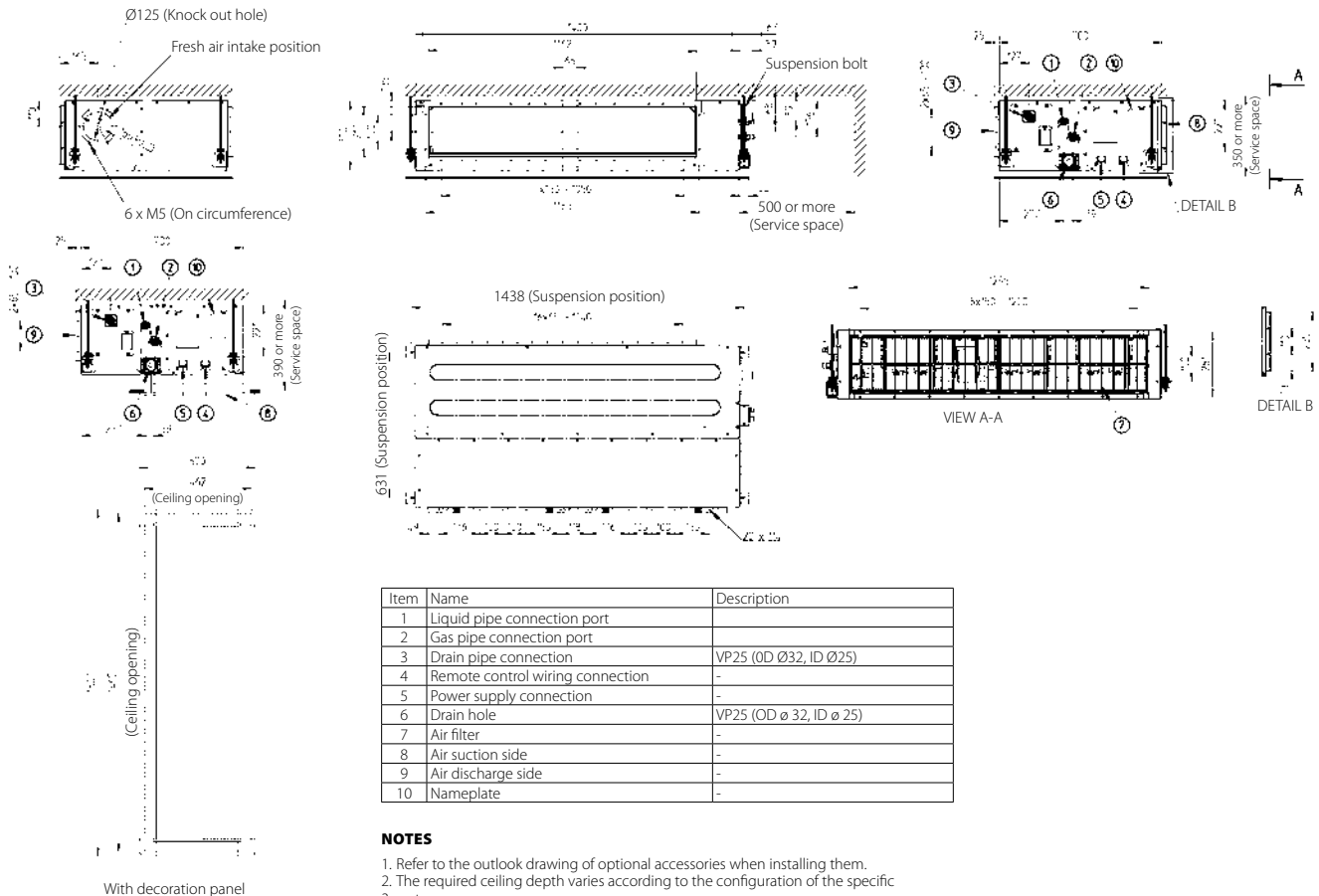
1. Refer to the outlook drawing of optional accessories when installing them.
  2. The required ceiling depth varies according to the configuration of the specific system.
  3. system.
  4. For maintenance of the air filter, it is necessary to provide a service access panel.
  5. panel.
- Optional decoration panel: BYB571DJW1 (light ivory white 10Y9/0.5)

**3TW31234-1B**



Detailed technical drawings

**FXMA100-125A / FXMQ100-125P7**



**3TW31254-1B**

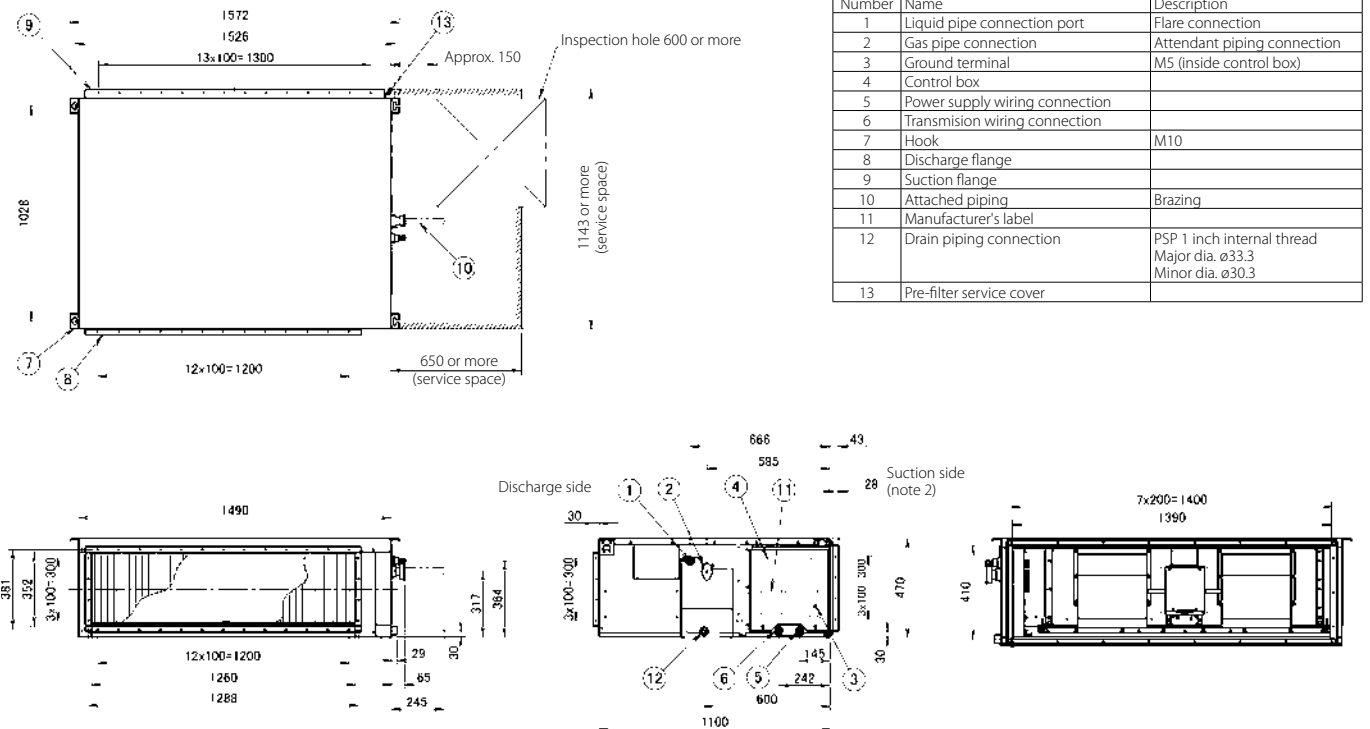
**FXMA200A**

Piping size (Field supply)

Indoor unit	Gas side	Liquid side
FXMA200A	Ø 19.1 attached piping	Ø 9.5

**NOTE**

1. Location of unit's manufacturer's label: Control box surface.
2. Mount the air filter at the suction side.  
(Select its dust collection efficiency (gravity method) 50% or more.)

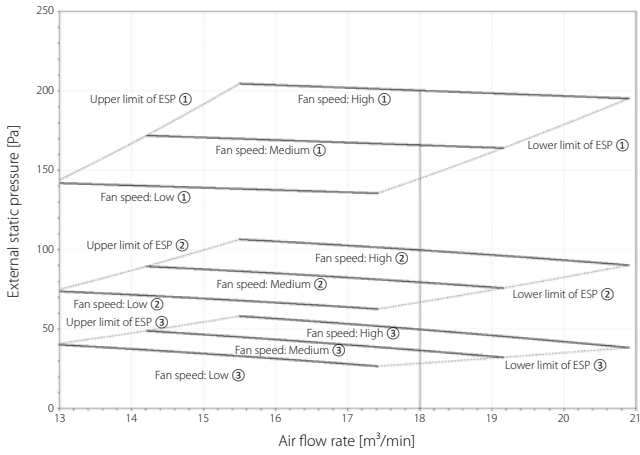


**3D117990A**

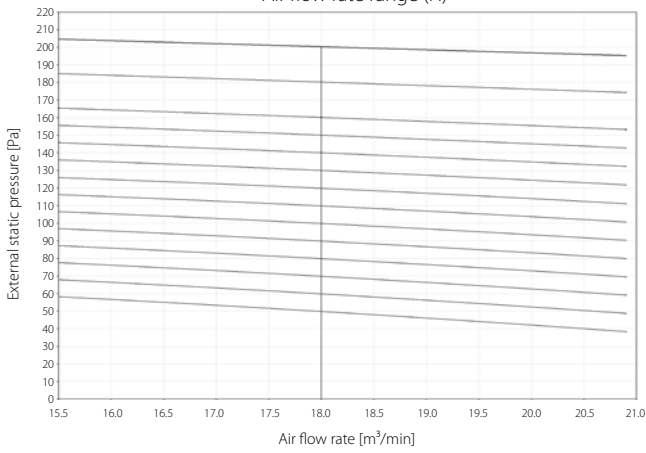


Detailed technical drawings

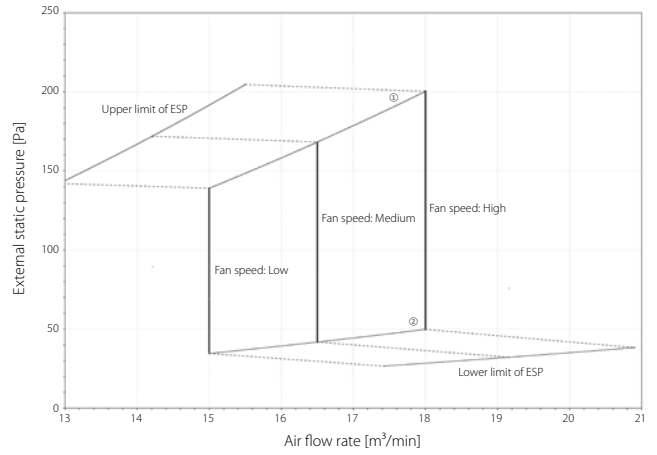
**FXMA50A**



Field setting with remote control  
Air flow rate range (H)



Air flow auto adjustment



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

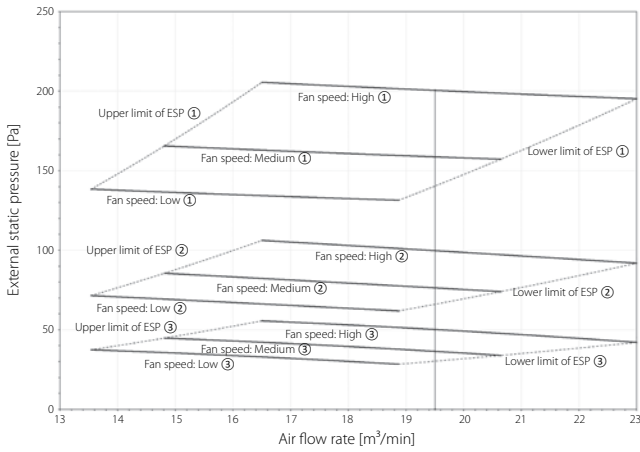
Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

**NOTES**

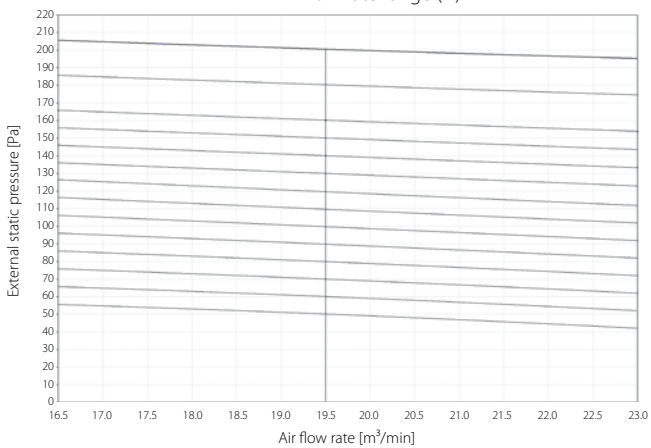
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External static pressure

**4D139872**

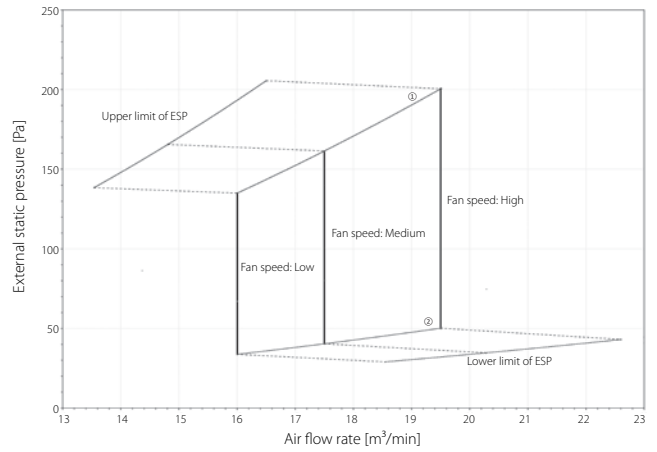
**FXMA63A**



Field setting with remote control  
Air flow rate range (H)



Air flow auto adjustment



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

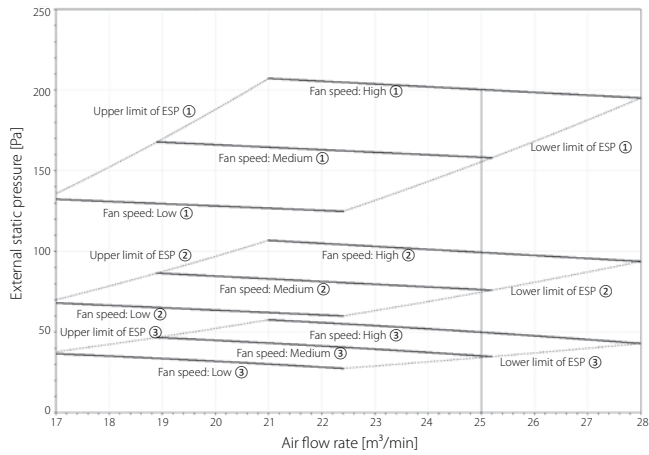
Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

**NOTES**

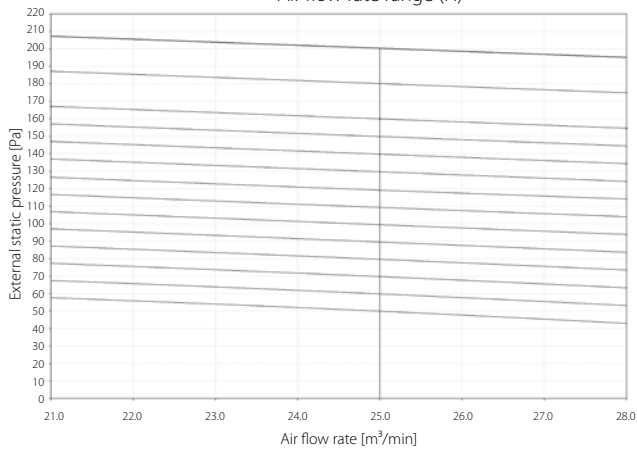
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External static pressure

**4D139877**

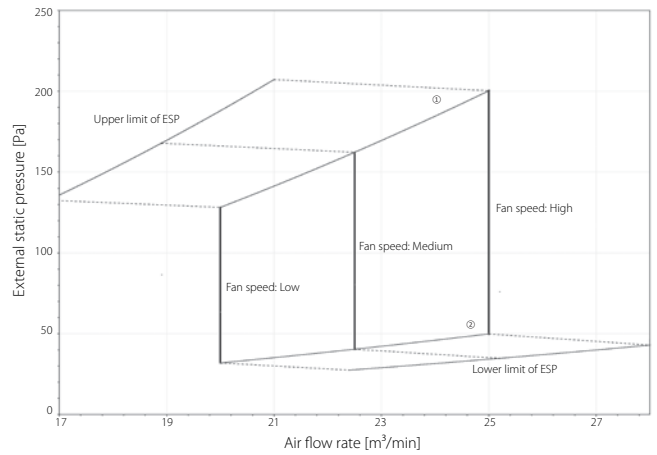
**FXMA80A**



Field setting with remote control  
Air flow rate range (H)



Air flow auto adjustment



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

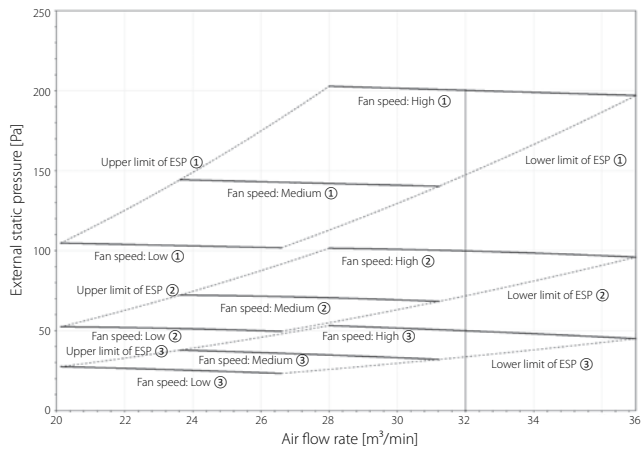
Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

**NOTES**

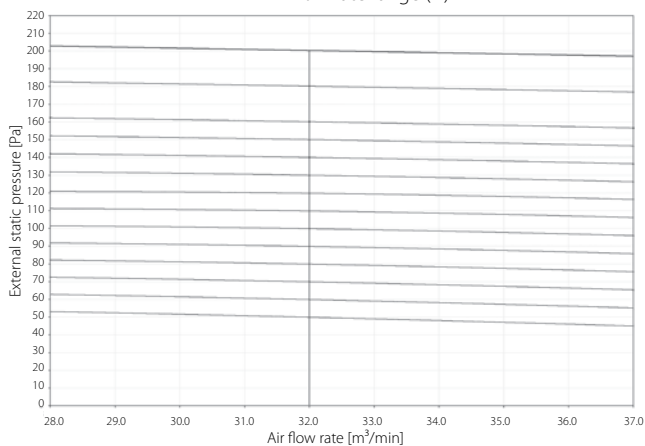
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External static pressure

**4D139872**

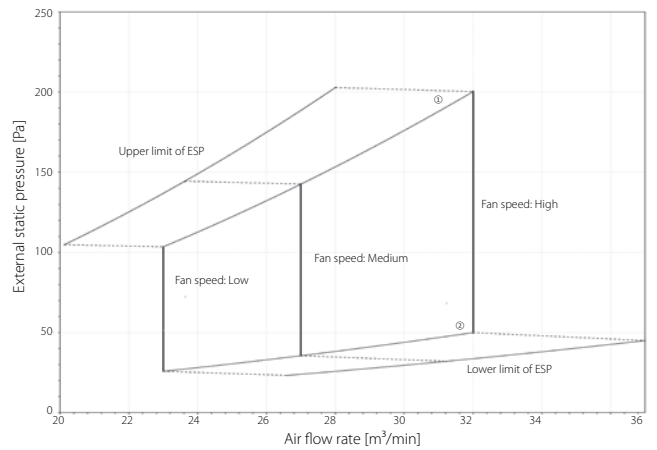
**FXMA100A**



Field setting with remote control  
Air flow rate range (H)



Air flow auto adjustment



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

**NOTES**

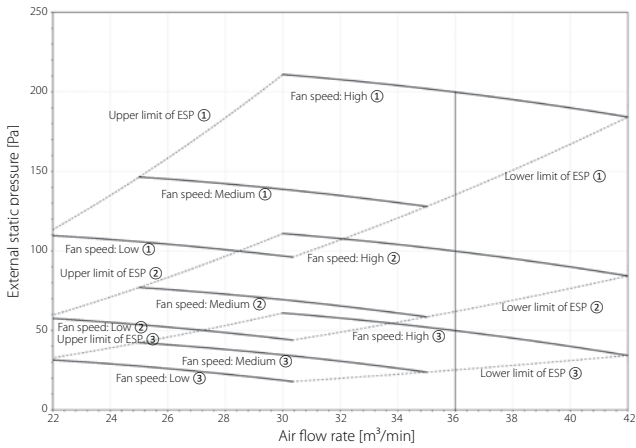
- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External static pressure

**4D139877**

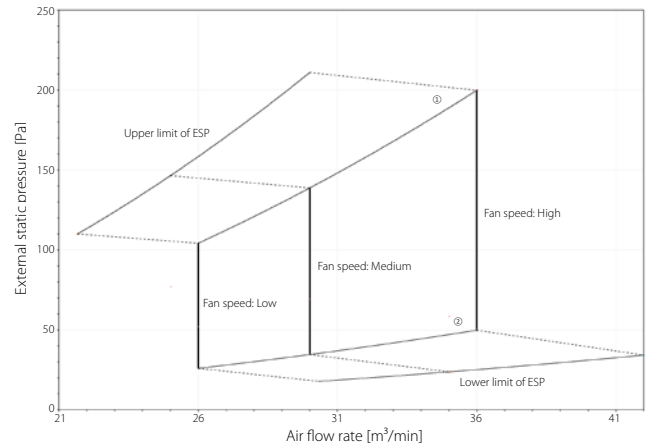
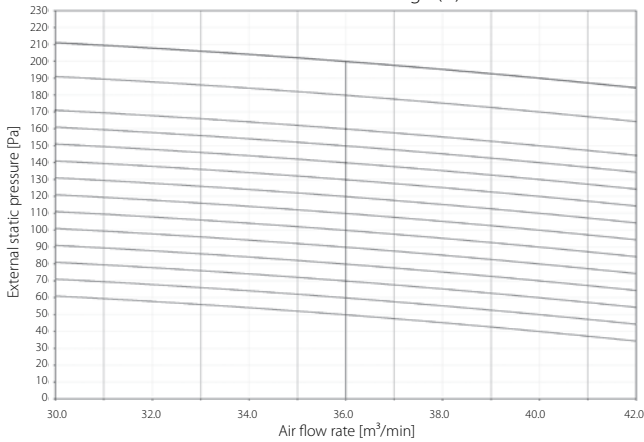


Detailed technical drawings

**FXMA125A**



Field setting with remote control  
Air flow rate range (H)



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

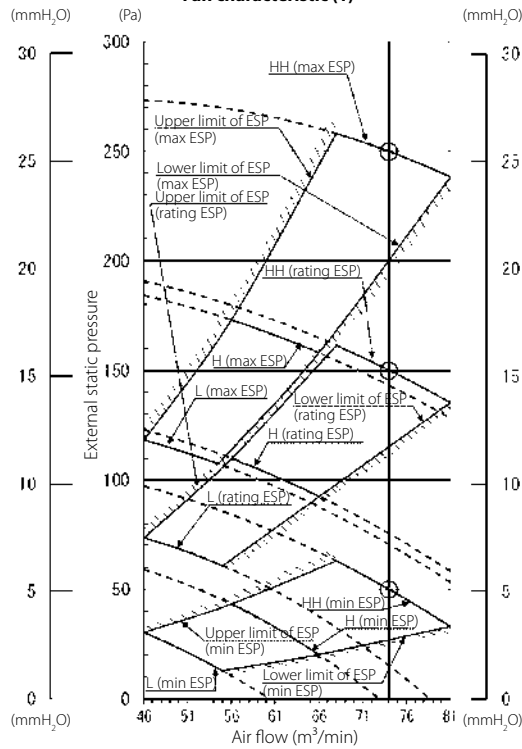
**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. ESP: External static pressure

**4D139872**

**FXMA200A**

**Fan characteristic (1)**

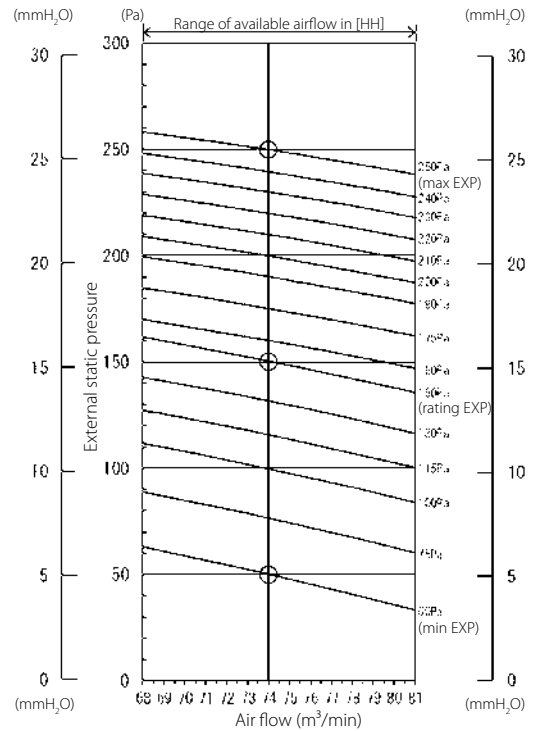


**NOTES**

1. As for this machine, setting is possible by 15 positions of ESP.
2. Fan characteristics (1) shows a fan characteristics at the time of "maximum ESP", "rating ESP", "minimum ESP" as a representative.
3. Fan characteristics (2) (for field setting of remote controller) shows a fan characteristics of each ESP of field setting possible air flow rate "HH".

**Fan characteristic (2)**

(For local setting of remote controller)



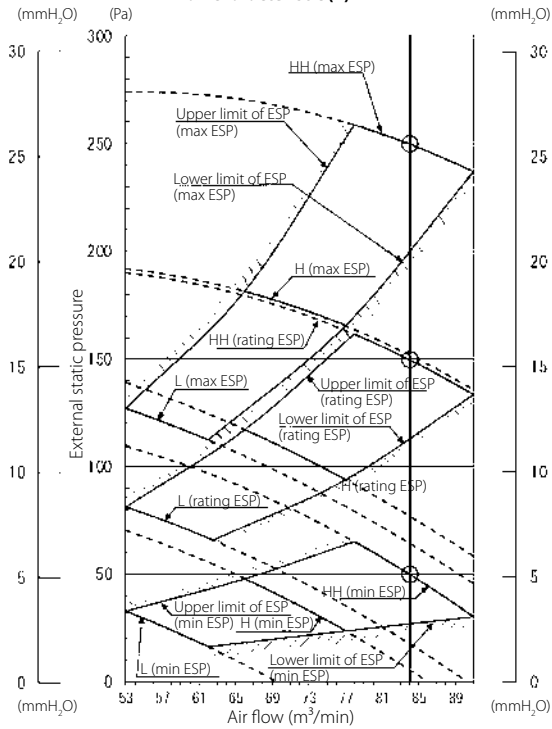
4. Please choose air flow rate by fan characteristics (1) and fan characteristics (2) by the resistance of a connected duct.
5. A remote controller can be used to change air flow rate of "HH", "H" and "L".
6. ESP: External static pressure.

**3D118402A**

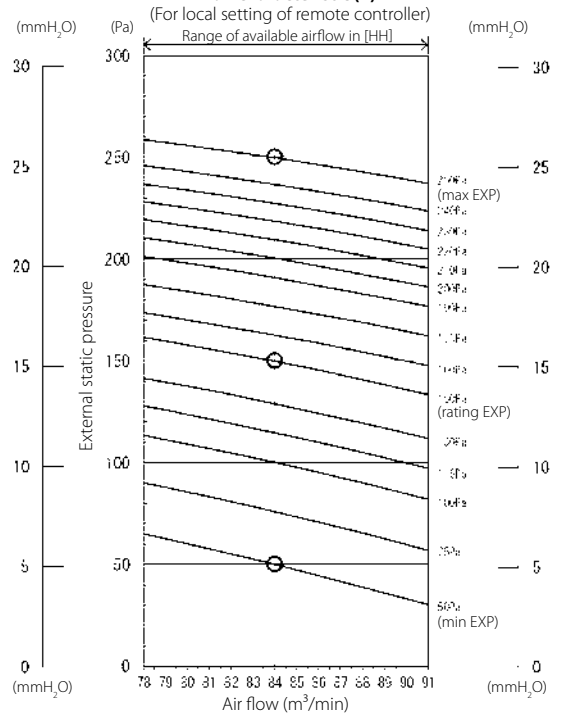


### FXMA250A

Fan characteristic (1)



Fan characteristic (2)



**NOTES**

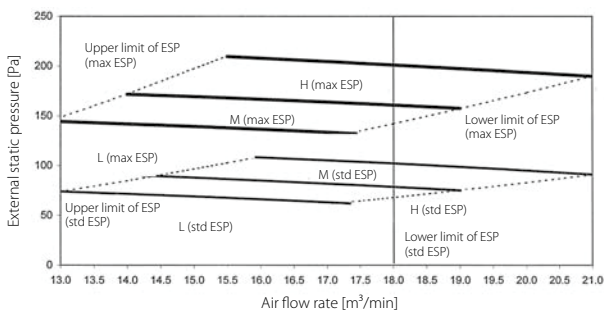
- As for this machine, setting is possible by 15 positions of ESP.
- Fan characteristics (1) shows a fan characteristics at the time of "maximum ESP", "rating ESP", "minimum ESP" as a representative.
- Fan characteristics (2) (for field setting of remote controller) shows a fan characteristics of each ESP of field setting possible air flow rate "HH".

- Please choose air flow rate by fan characteristics (1) and fan characteristics (2) by the resistance of a connected duct.
- A remote controller can be used to change air flow rate of "HH", "H" and "L".
- ESP: External static pressure.

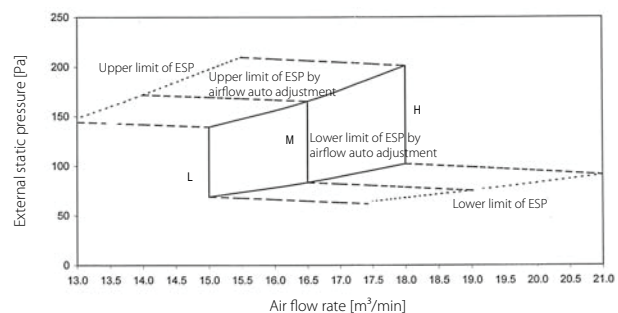
3D119002

### FXMQ50P7

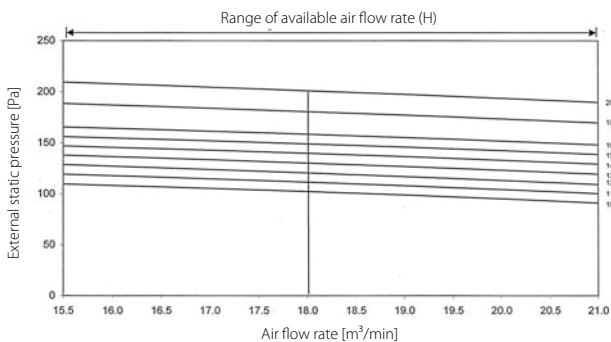
Fan characteristics (1)



Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)



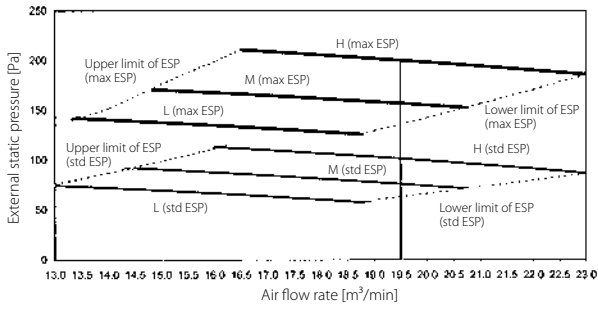
**NOTES**

- Fan characteristics as shown are in "fan only" mode.
- ESP: External static pressure

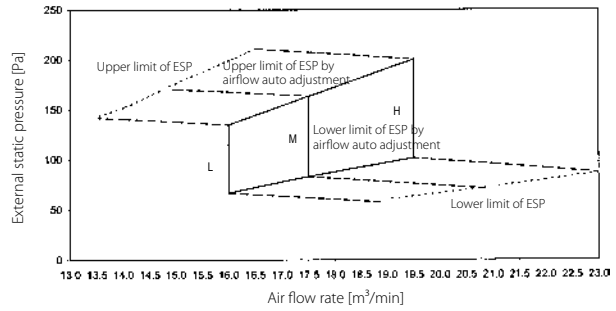
3TW32698-1

**FXMQ63P7**

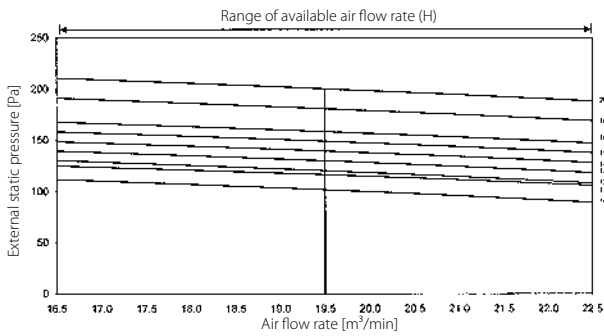
Fan characteristics (1)



Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)



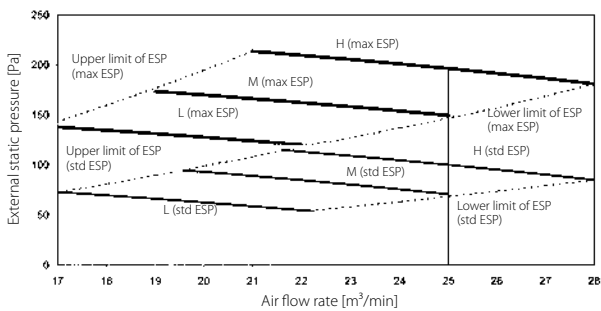
**NOTES**

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

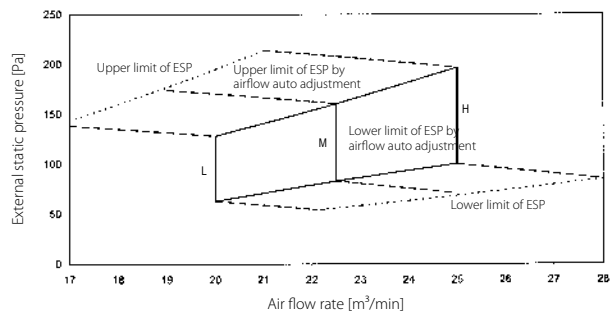
**3TW32708-1**

**FXMQ80P7**

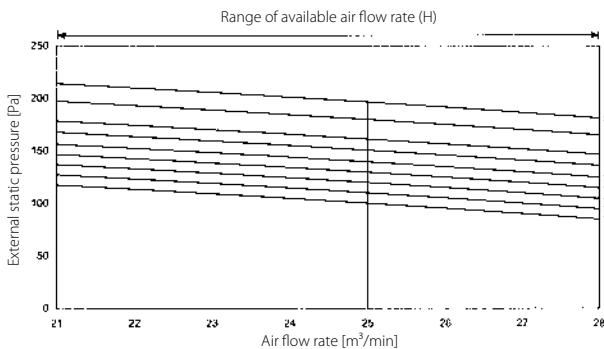
Fan characteristics (1)



Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)



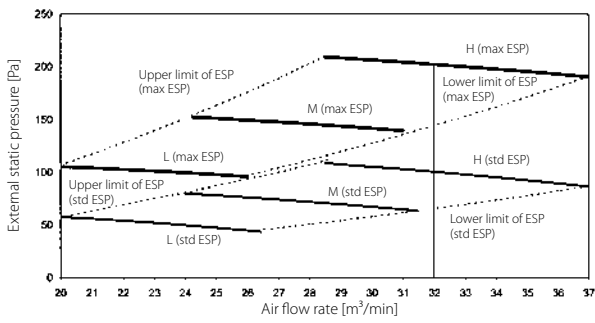
**NOTES**

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

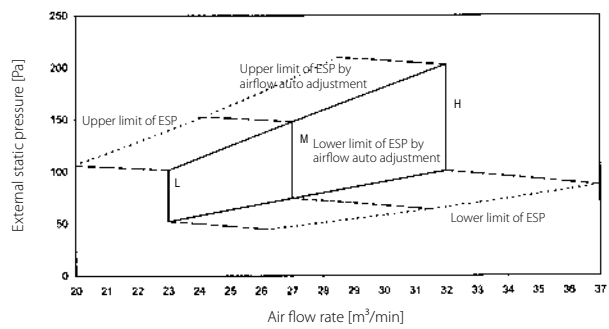
**3TW32718-1**

**FXMQ100P7**

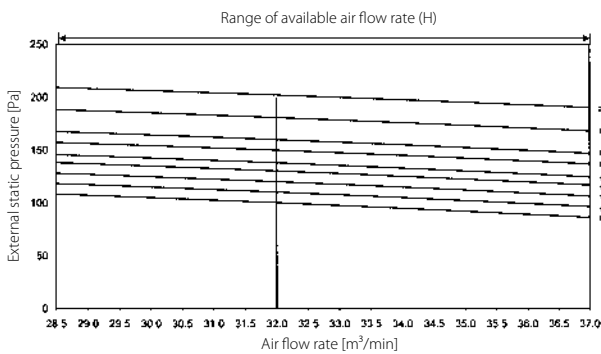
Fan characteristics (1)



Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)



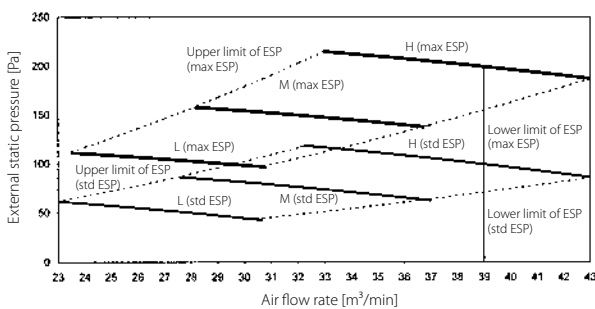
**NOTES**

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

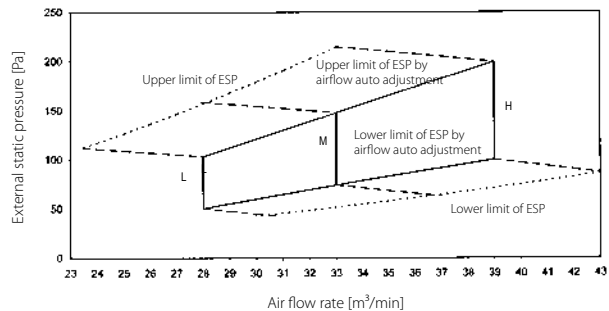
**3TW32728-1**

**FXMQ125P7**

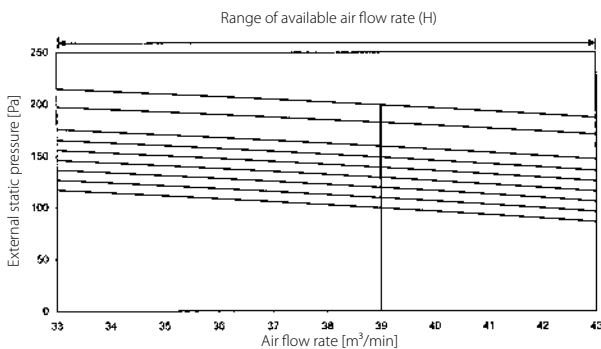
Fan characteristics (1)



Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)



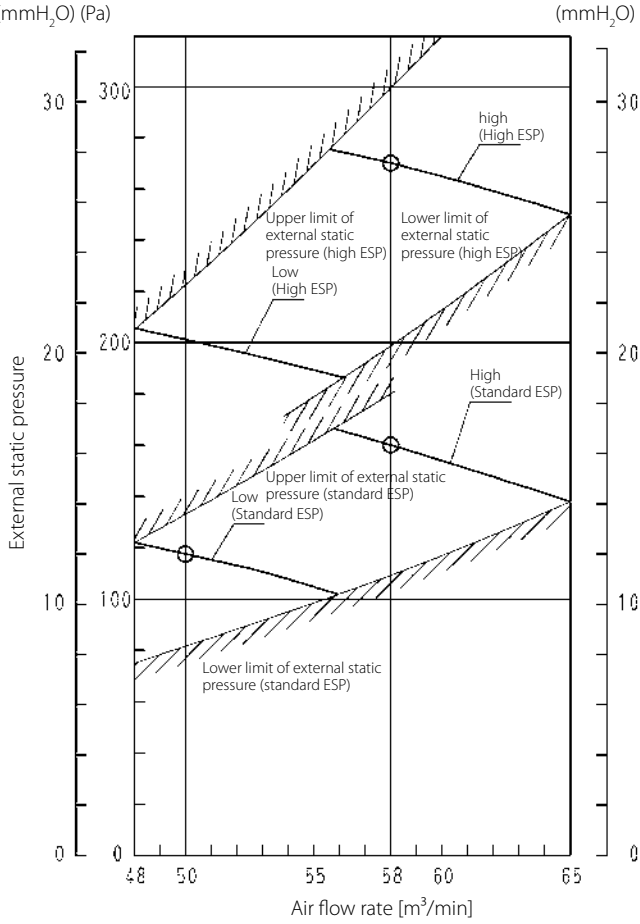
**NOTES**

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

**3TW32738-1**

**FXMQ200MB**

50Hz 220-240V  
(mmH<sub>2</sub>O) (Pa)



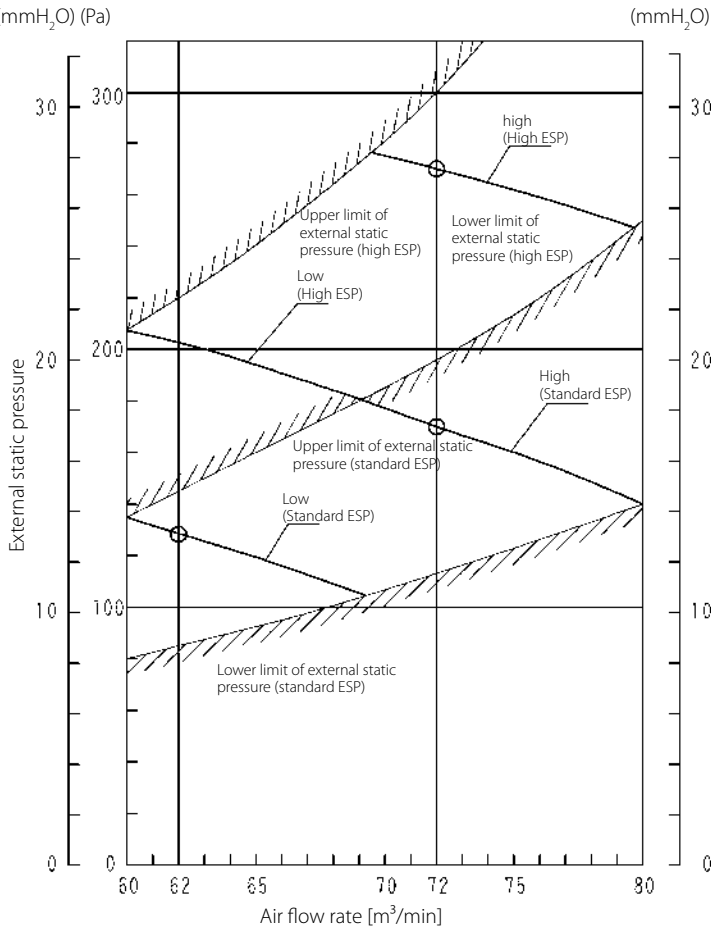
**NOTES**

1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

**4D095421**

**FXMQ250MB**

50Hz 220-240V  
(mmH<sub>2</sub>O) (Pa)



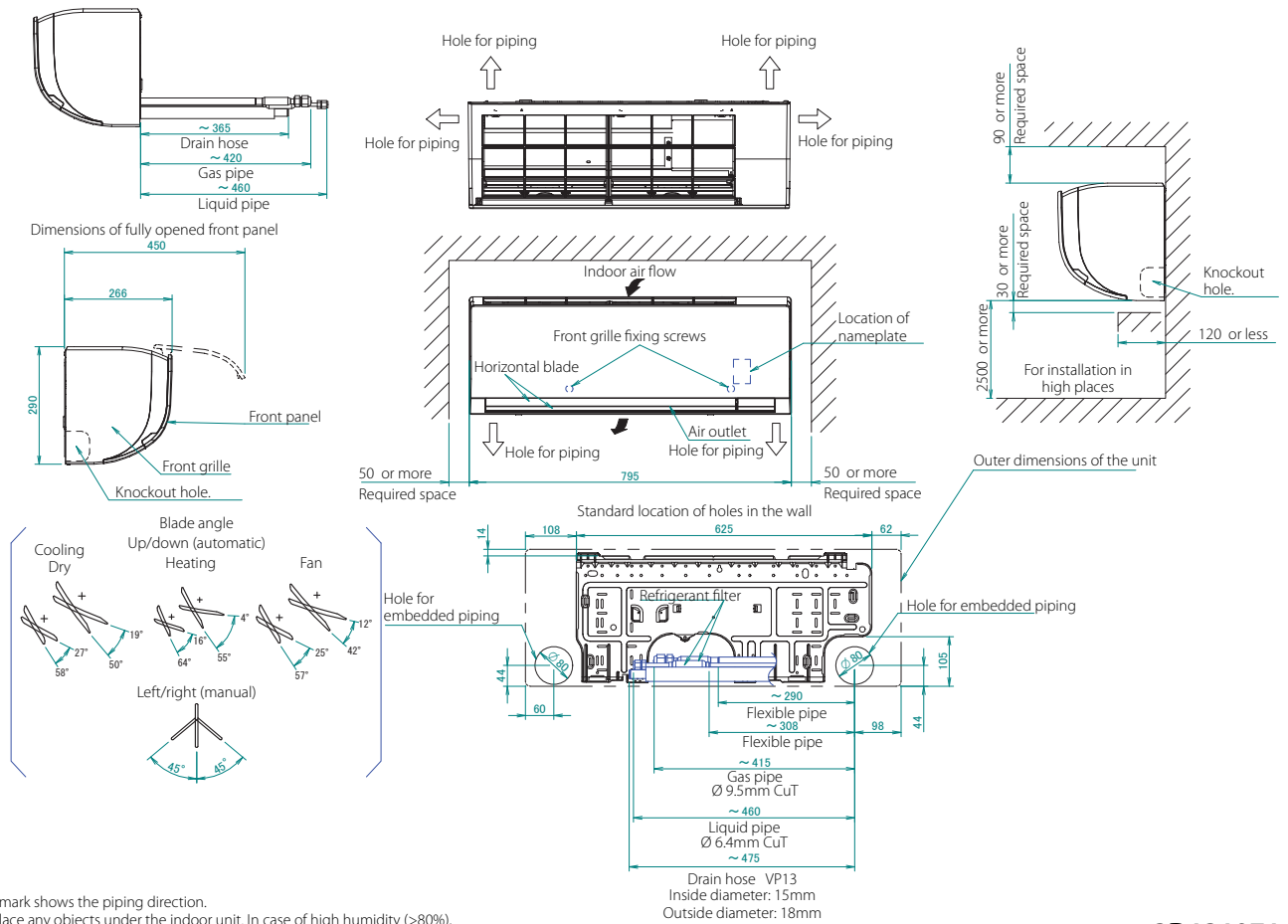
**NOTES**

1. Remote controller can be used to switch between 'HIGH' and 'LOW'.
2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

**4D095422**



### FXAA15-32A

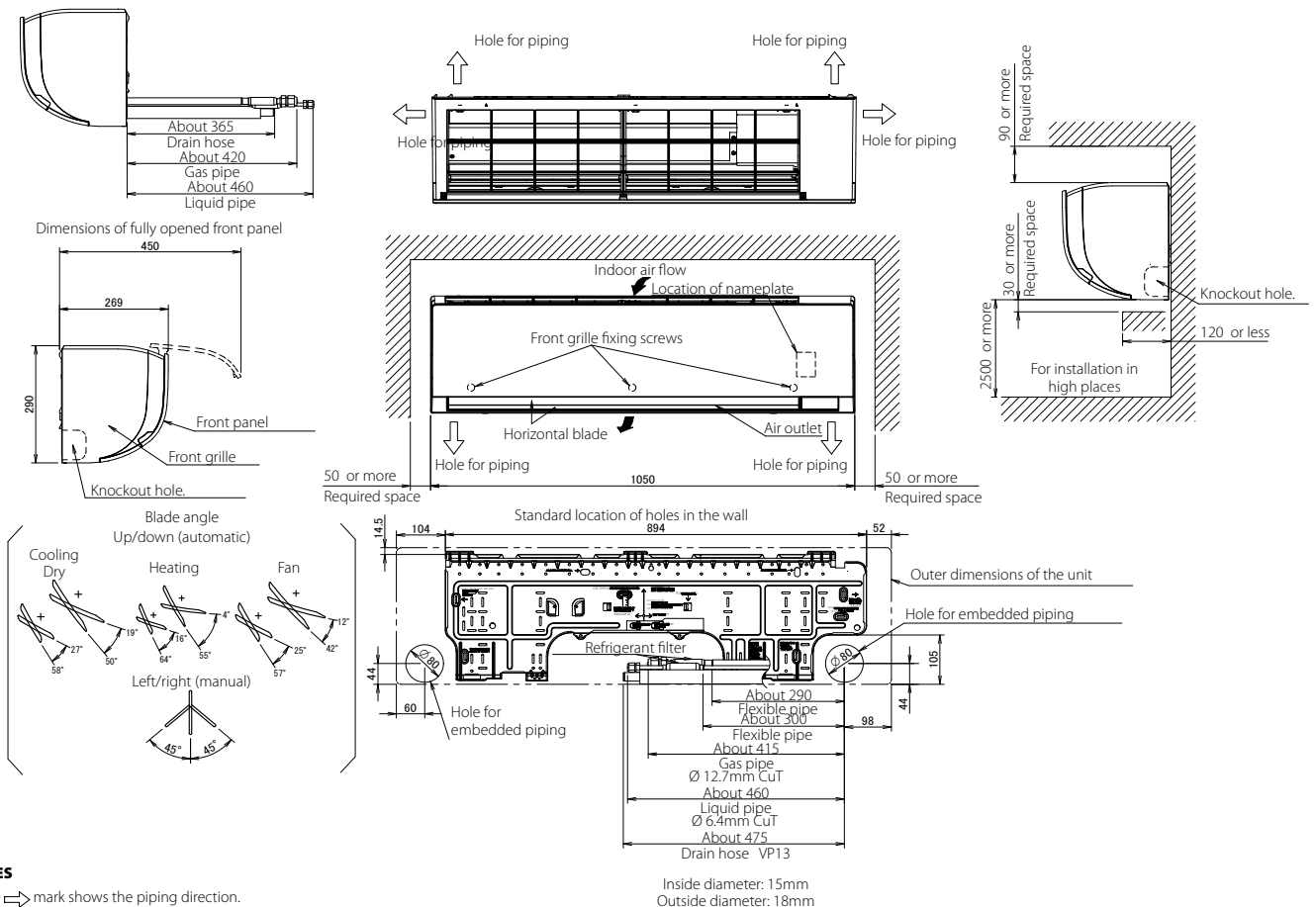


#### NOTES

- The ⇨ mark shows the piping direction.
- Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

3D131071

### FXAA40-63A



#### NOTES

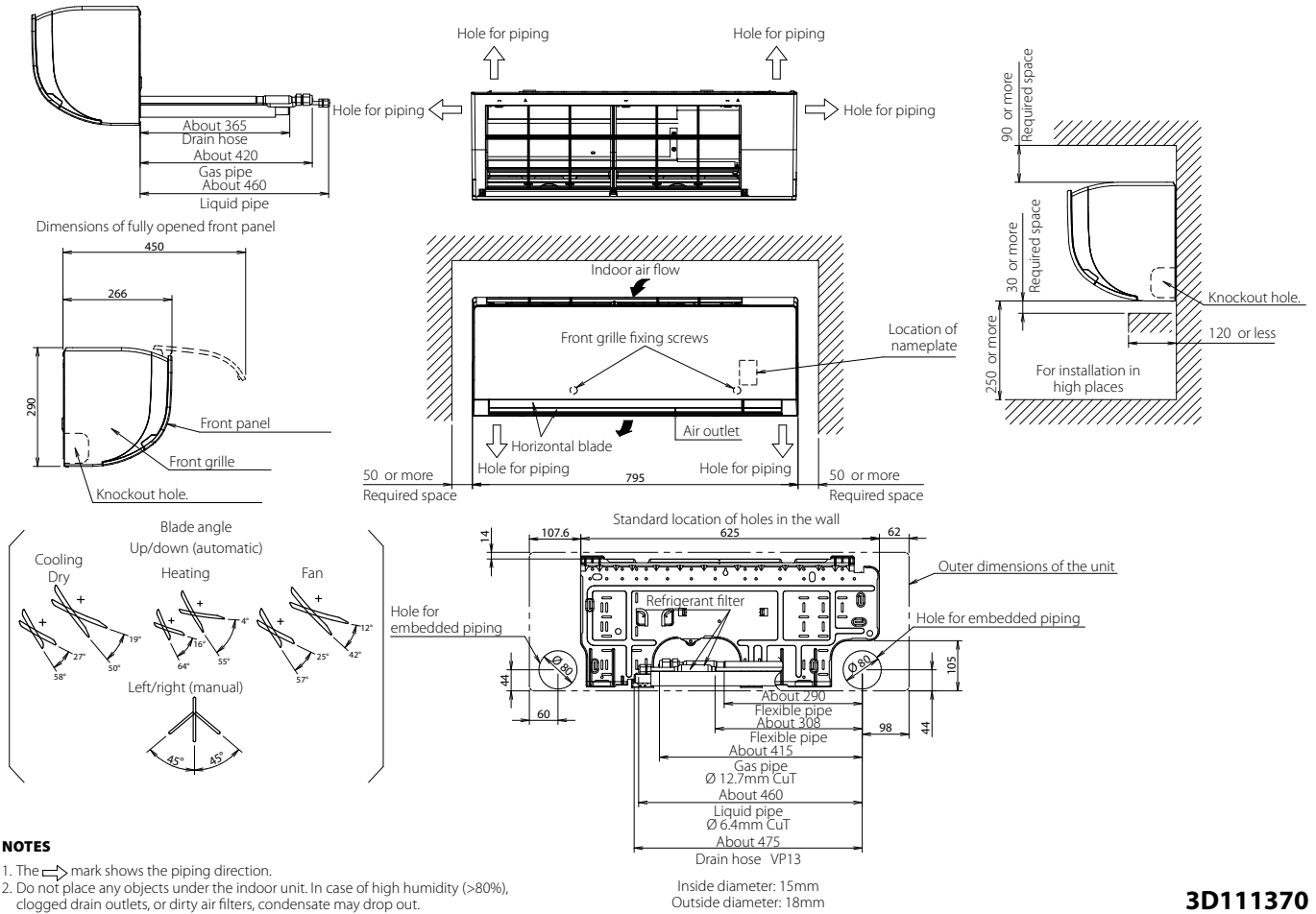
- The ⇨ mark shows the piping direction.
- Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

3D111369



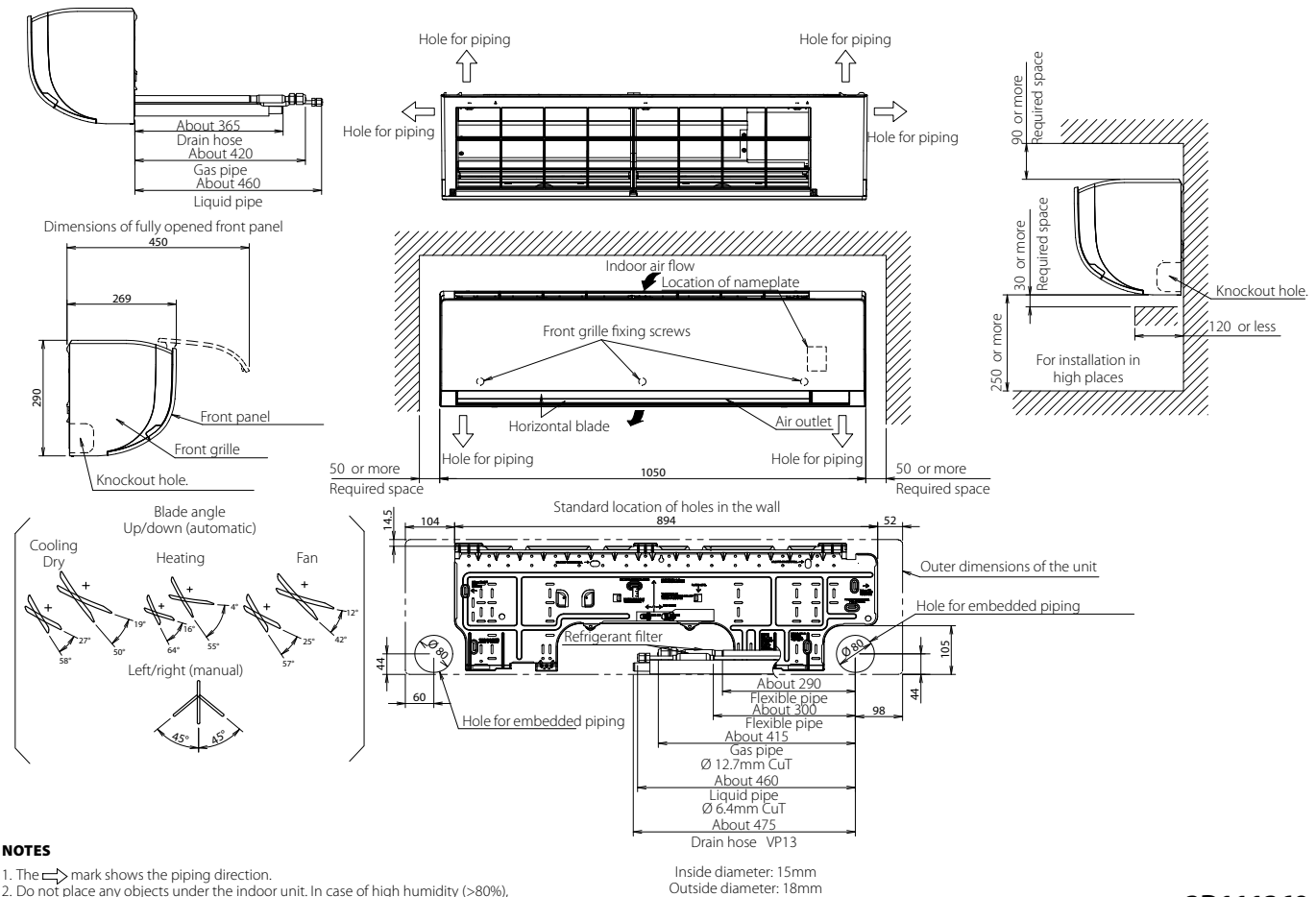
Detailed technical drawings

**FXAQ15-32A**



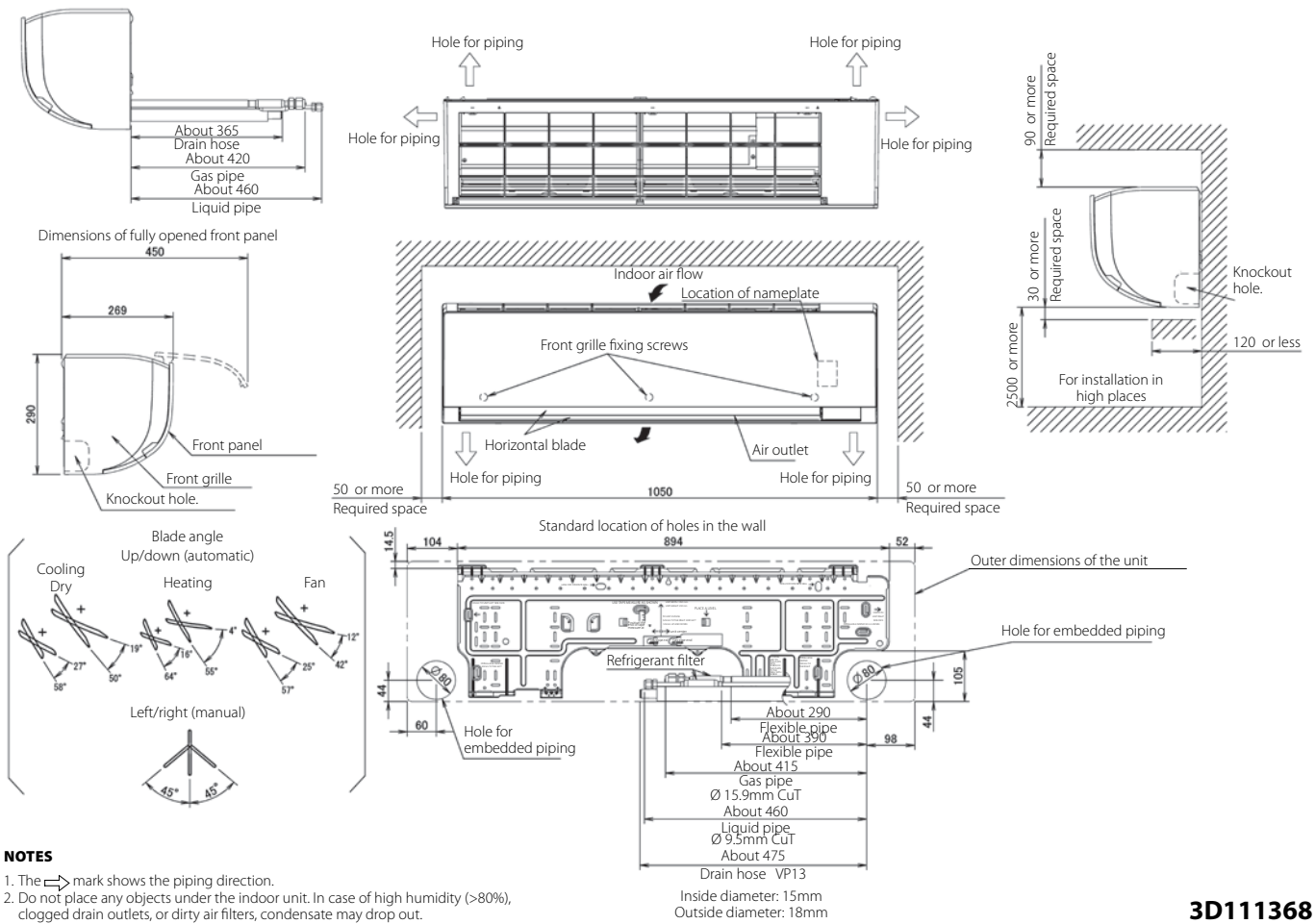
**3D111370**

**FXAQ40-50A**



**3D111369**

**FXAQ63A**



**NOTES**

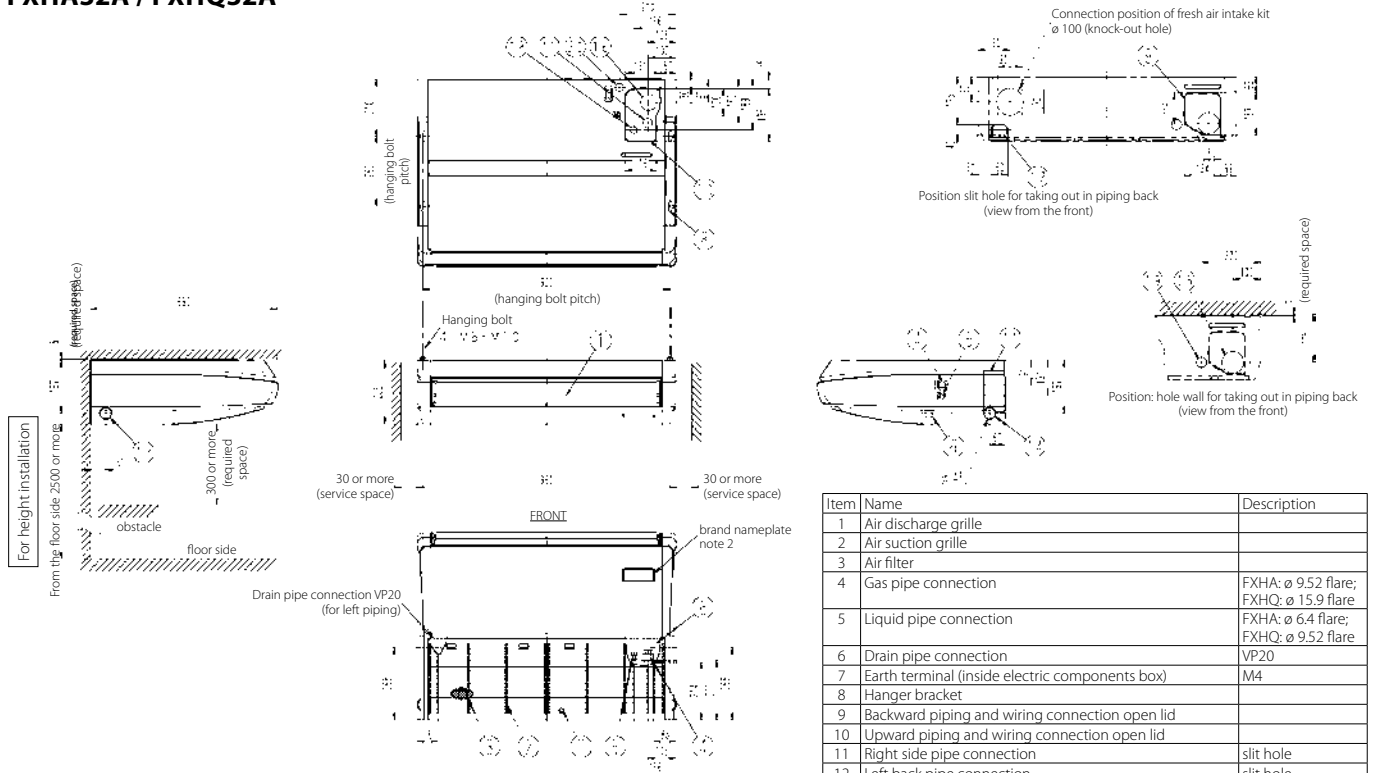
1. The  $\Rightarrow$  mark shows the piping direction.
2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

**3D111368**



## Detailed technical drawings

### FXHA32A / FXHQ32A



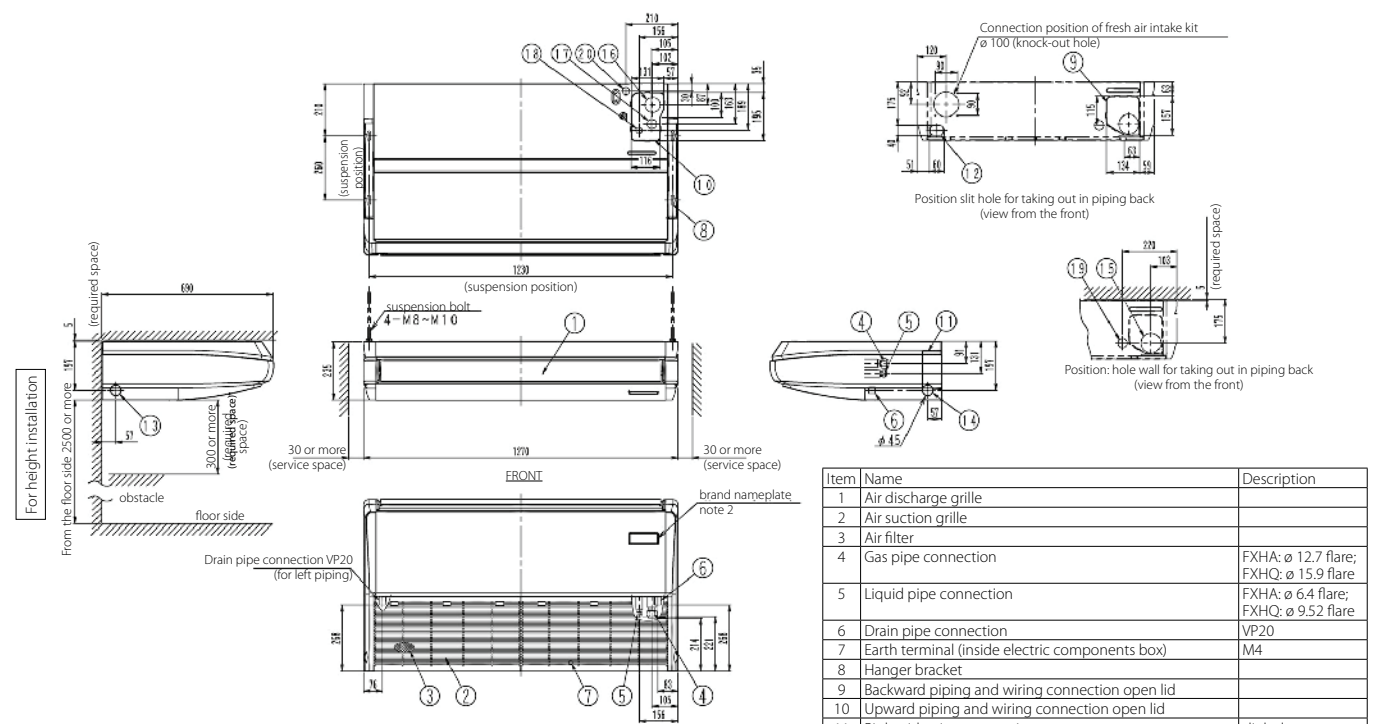
Item	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	FXHA: ø 9.52 flare; FXHQ: ø 15.9 flare
5	Liquid pipe connection	FXHA: ø 6.4 flare; FXHQ: ø 9.52 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection open lid	
10	Upward piping and wiring connection open lid	
11	Right side pipe connection	slit hole
12	Left back pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power source wiring and unit wiring back connection	ø 29
20	Power source wiring and unit wiring upper connection	ø 29

#### NOTES

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

3D080029

### FXHA50-63A / FXHQ63A



Item	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	FXHA: ø 12.7 flare; FXHQ: ø 15.9 flare
5	Liquid pipe connection	FXHA: ø 6.4 flare; FXHQ: ø 9.52 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection open lid	
10	Upward piping and wiring connection open lid	
11	Right side pipe connection	slit hole
12	Left back pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power source wiring and unit wiring back connection	ø 29
20	Power source wiring and unit wiring upper connection	ø 29

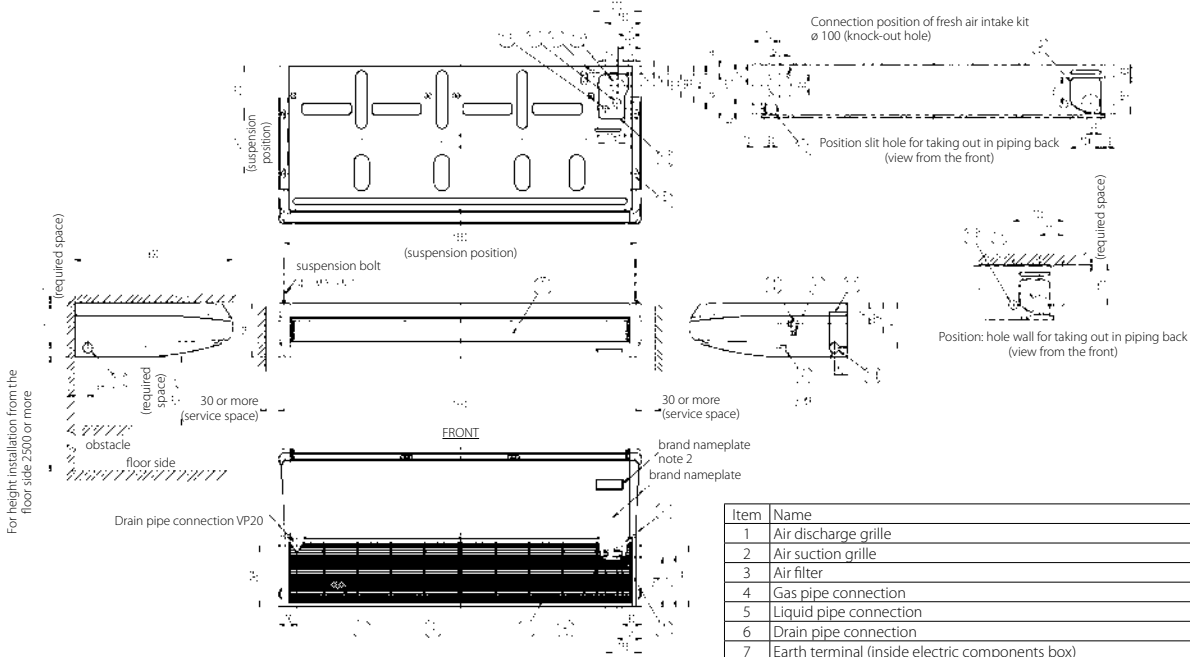
#### NOTES

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

3D069632A



**FXUA100A / FXUQ100A**



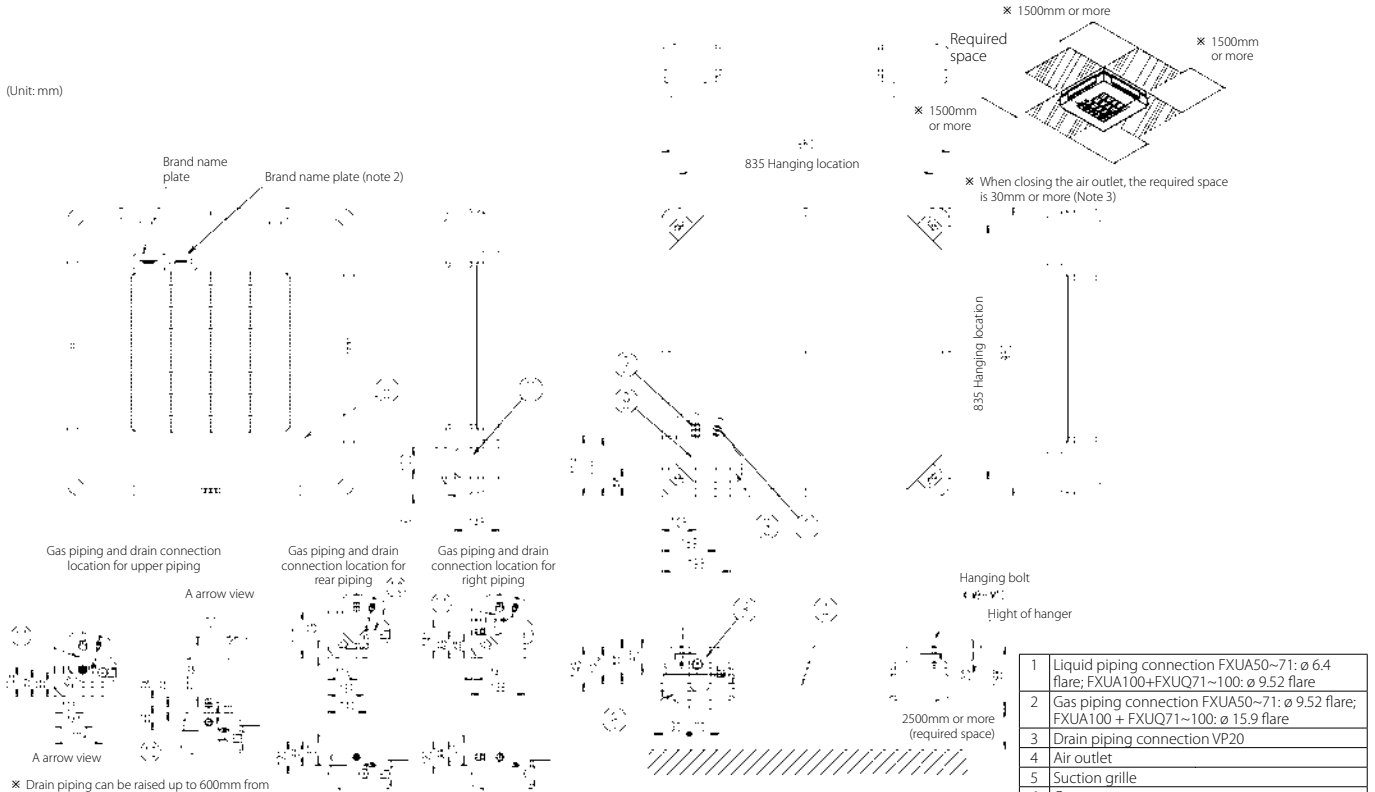
Item	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 15.9 flare
5	Liquid pipe connection	ø 9.52 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection open lid	
10	Upward piping and wiring connection open lid	
11	Right side pipe connection	slit hole
12	Left back pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power source wiring and unit wiring back connection	ø 29
20	Power source wiring and unit wiring upper connection	ø 29

**NOTES**

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. Don't put anything under indoor unit because dew may fall by reason of following:
  1. The humidity is 80% or more.
  2. The drain outlet is stopped up.
  3. The air filter is dirty.

**3D069633D**

**FXUA-A / FXUQ-A**



1	Liquid piping connection FXUA50~71: ø 6.4 flare; FXUA100+FXUQ71~100: ø 9.52 flare
2	Gas piping connection FXUA50~71: ø 9.52 flare; FXUA100 + FXUQ71~100: ø 15.9 flare
3	Drain piping connection VP20
4	Air outlet
5	Suction grille
6	Corner cover
7	Right Pipe / wiring connection
8	Rear Pipe / wiring connection
9	Piping penetration cover
10	Elbow (accessory) - External dia. ø 26
11	L-Bent piping (accessory) - ø 15.9 flare

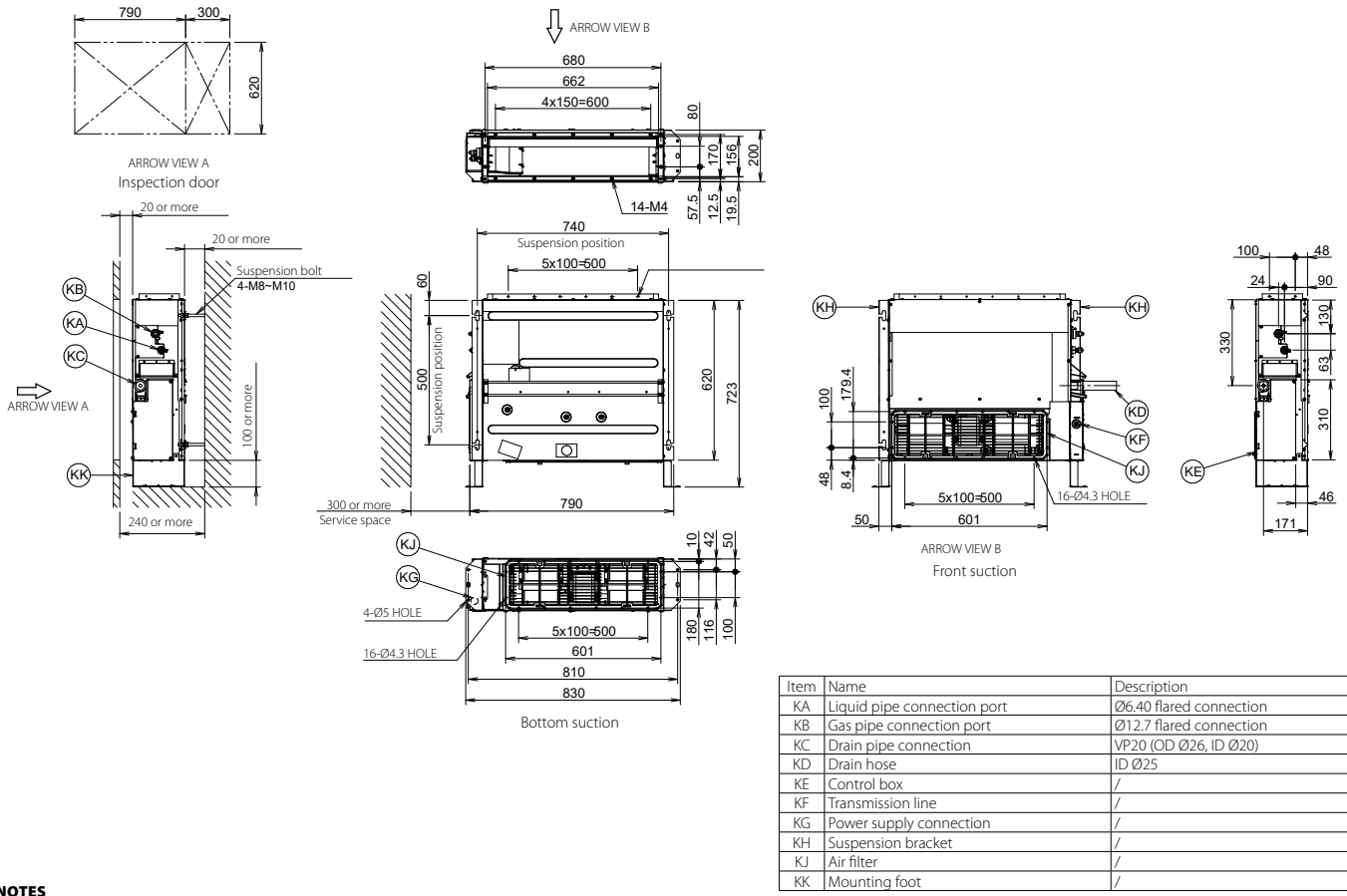
**NOTES**

1. Sticking locations for manufacturer's label: On the control box lid inside suction grille.
2. When installing an optional accessory, refer to the installation drawings.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
4. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity in more 80% or more, and drain outlet are choked up and the air filter are dirty, dew may fall.

**3D080135**

Detailed technical drawings

**FXNQ20-32A**

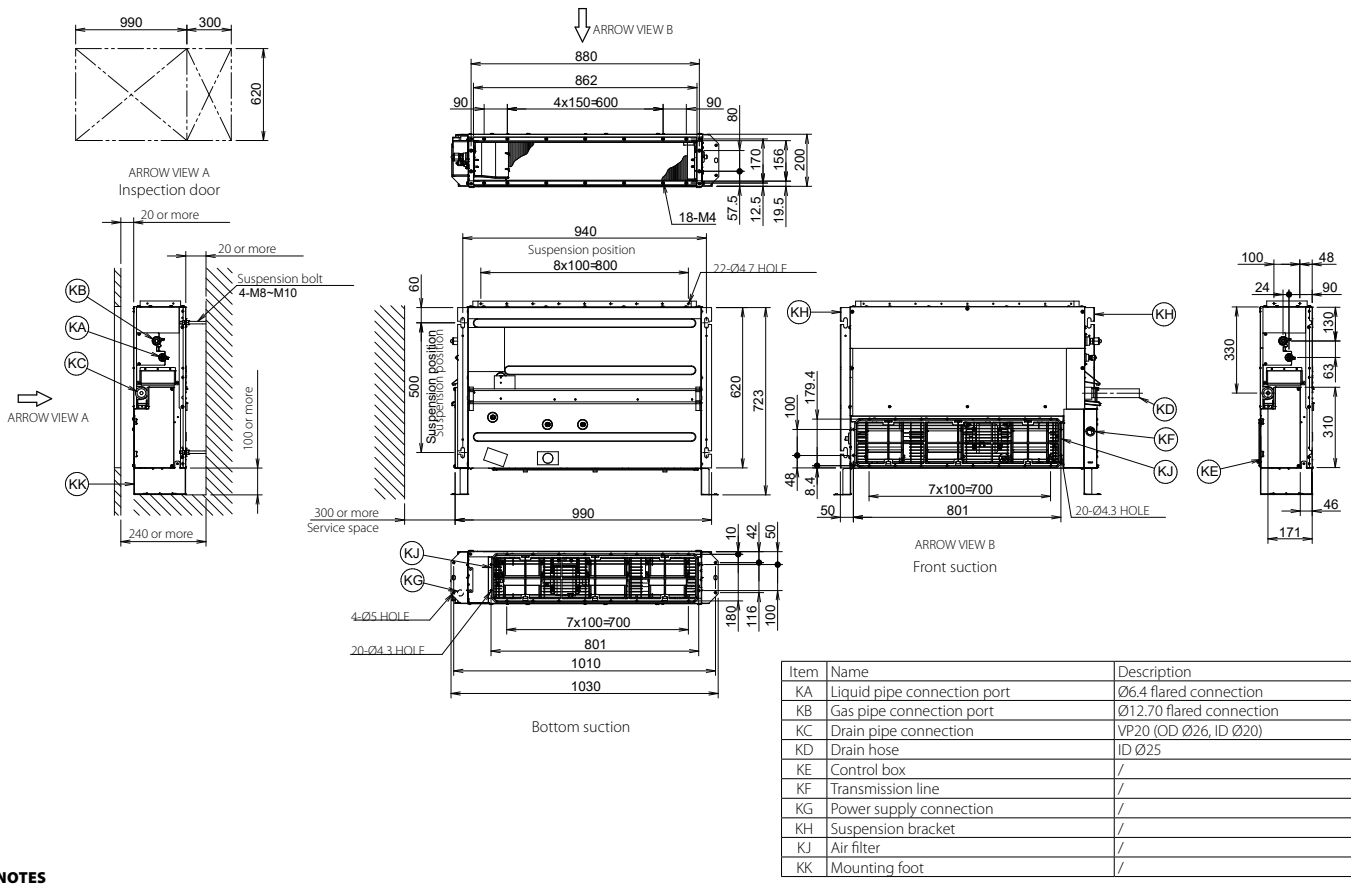


**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D096749A**

**FXNQ40-50A**

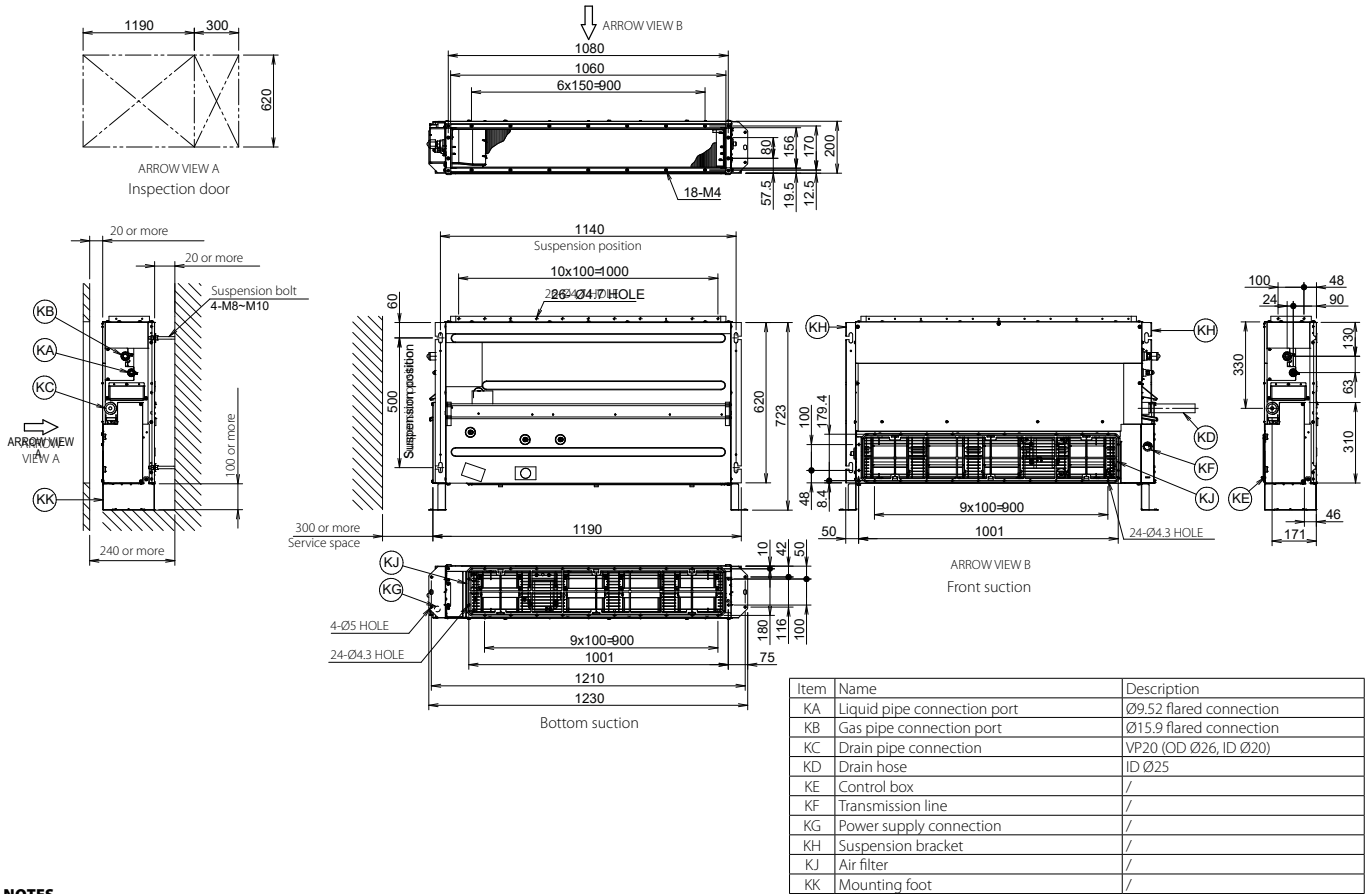


**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D096747**

**FXNQ63A**

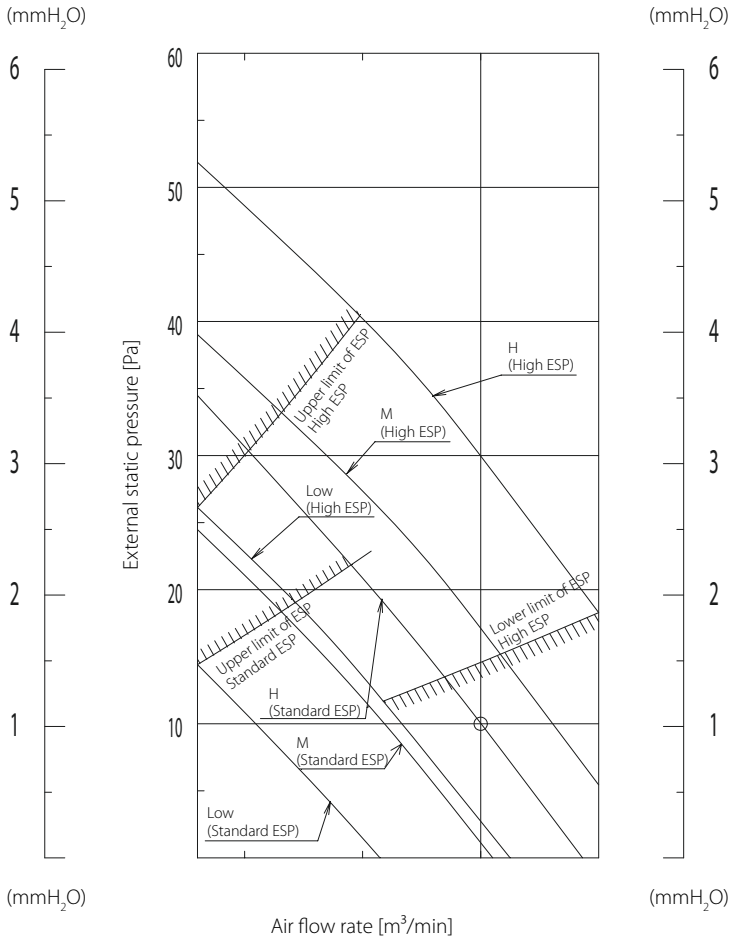


**NOTES**

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

**3D096740A**

**FXNQ20-25A**



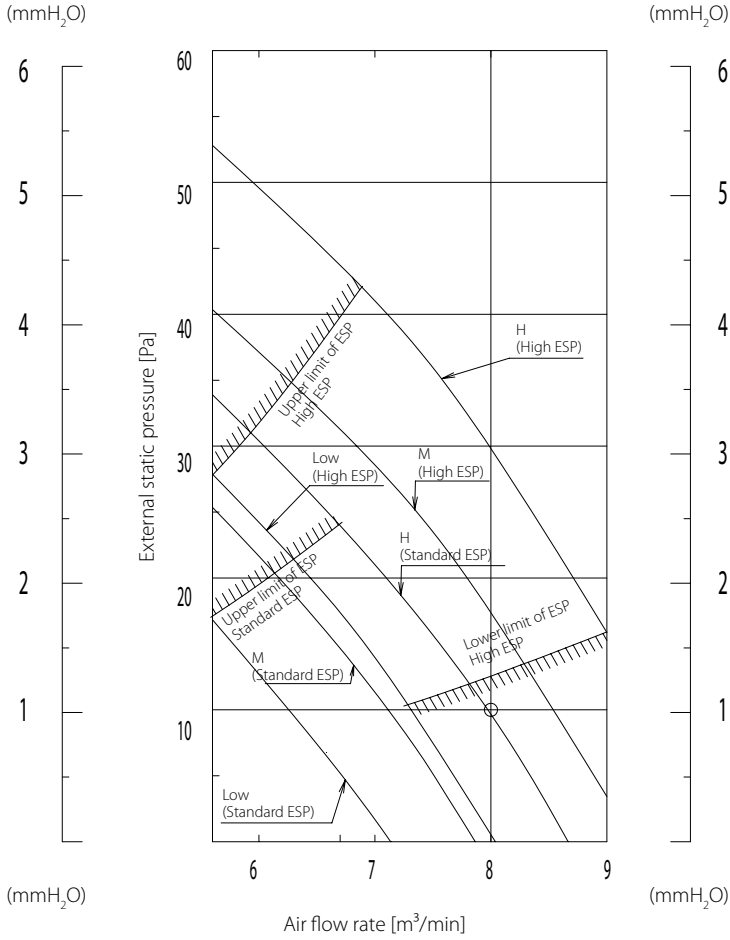
**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

**3D086736B**



**FXNQ32A**

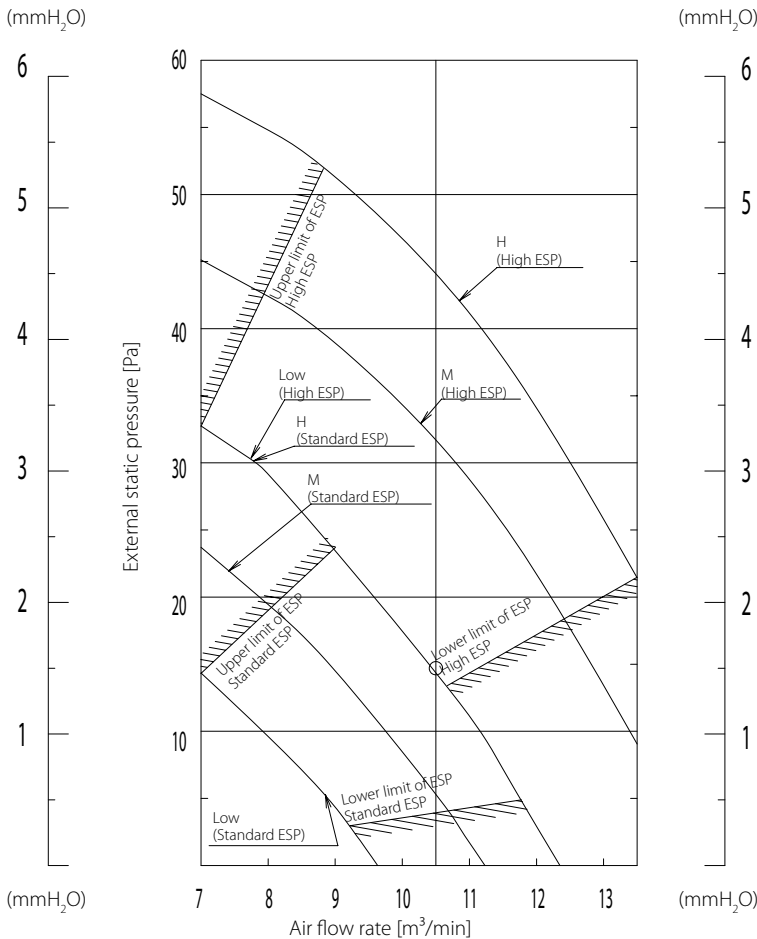


**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

**3D081425C**

**FXNQ40A**



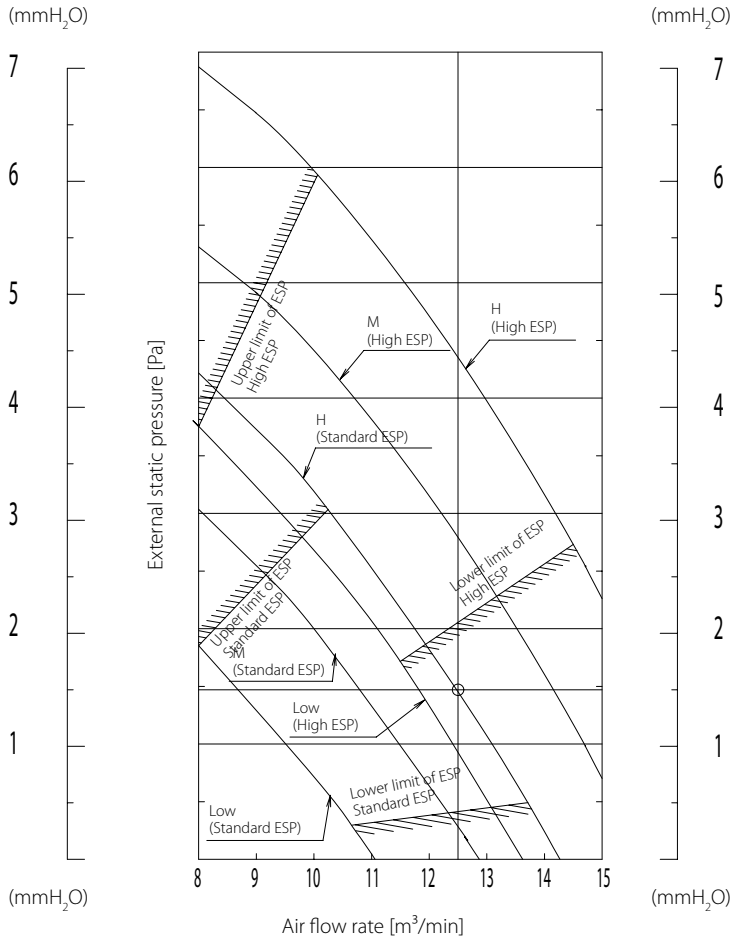
**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

**3D081426C**



**FXNQ50A**

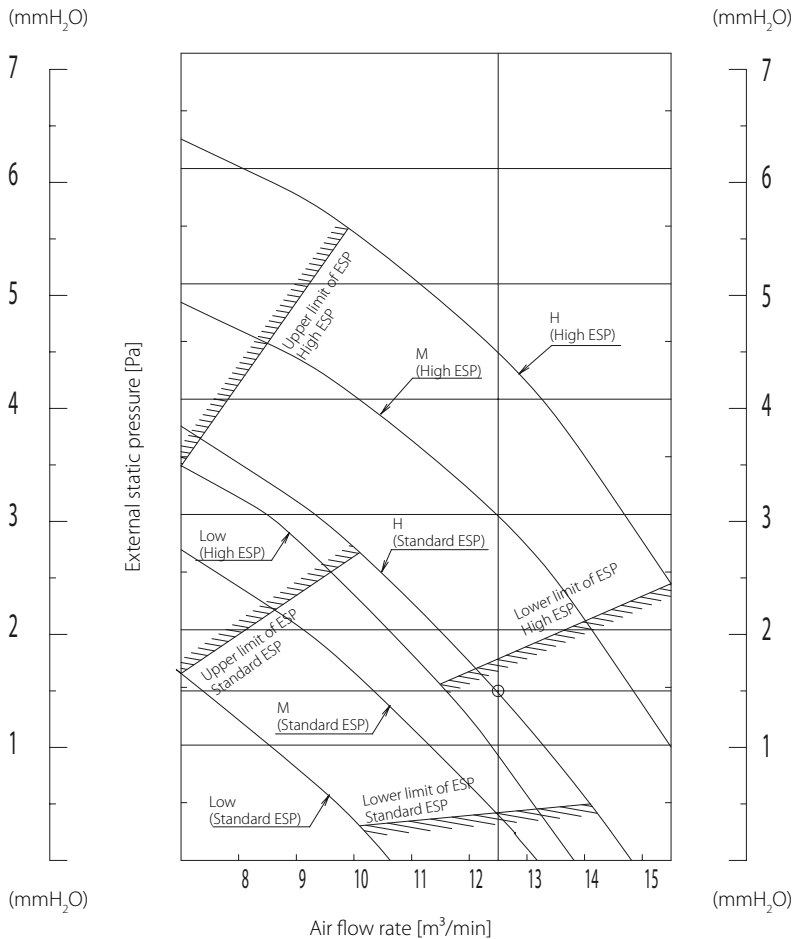


**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

**3D081427C**

**FXNQ63A**



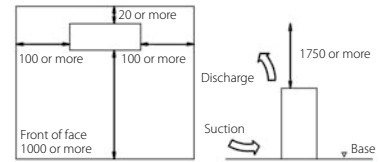
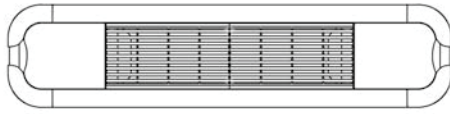
**NOTES**

1. The remote controller can be used to switch between 'high' and 'low'.
2. The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting..

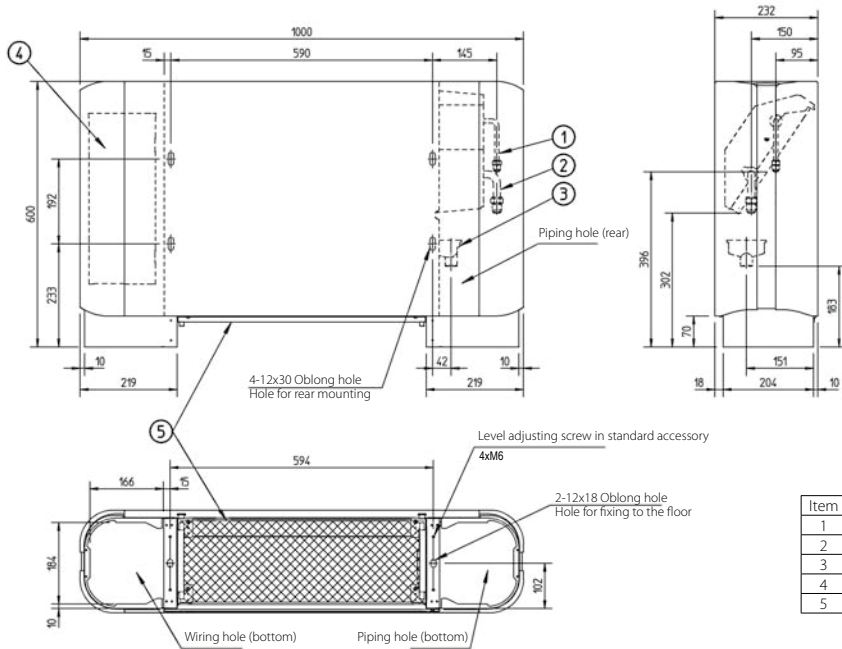
**3D081429C**



**FXLQ20-25P**



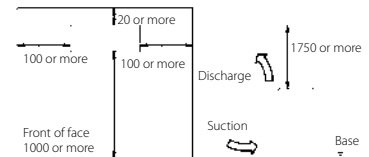
Required installation space



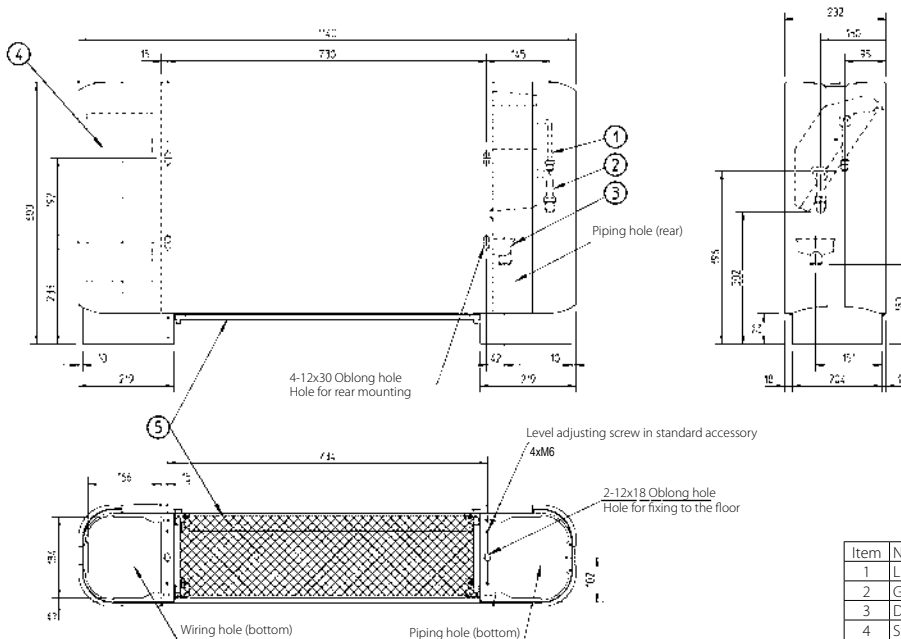
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	-
5	Air filter	-

**3TW32294-1**

**FXLQ32-40P**



Required installation space

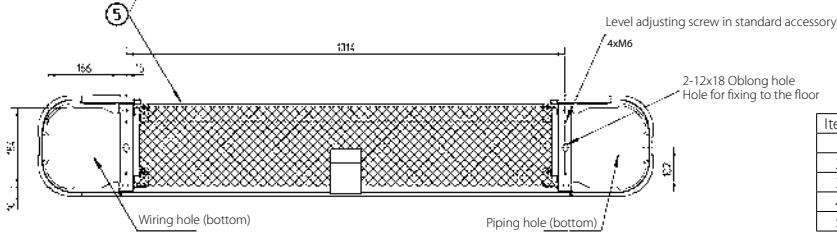
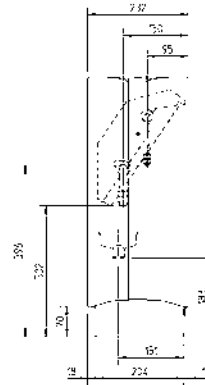
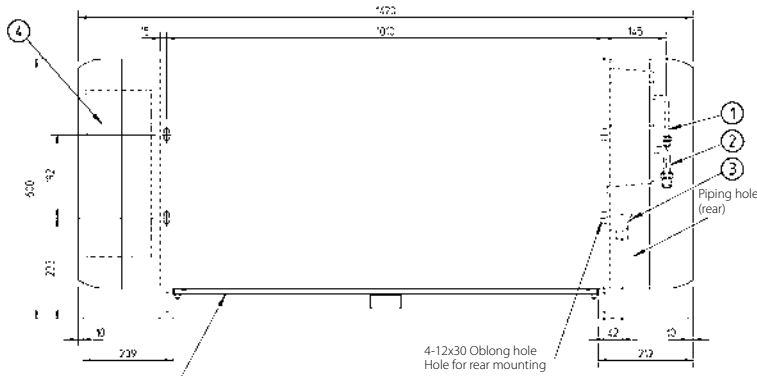
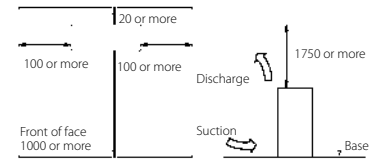
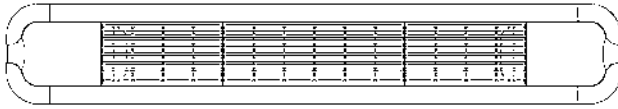


Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	-
5	Air filter	-

**3TW32314-1**



**FXLQ50-63P**



Model	A	B
FXL050	Ø6.4	Ø12.7
FXL063	Ø9.5	Ø15.9

Item	Name	Description
1	Liquid pipe connection	ØA Flare connection
2	Gas pipe connection	ØB Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	-
5	Air filter	-

**3TW32334-1**



Technical drawings  
**Hot water**

HXY-A8

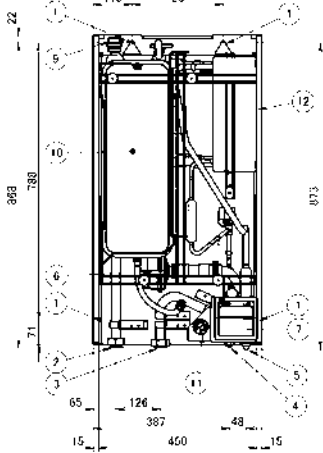
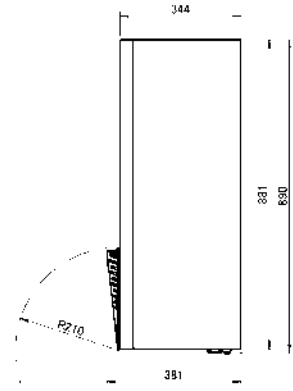
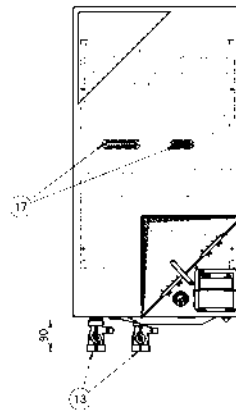
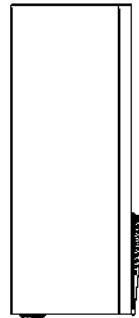
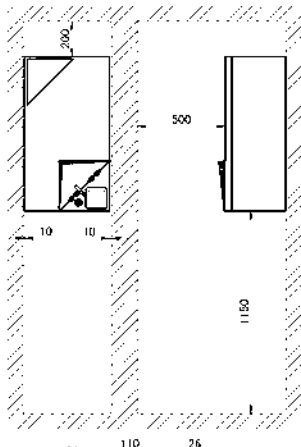
315

HXHD-A8

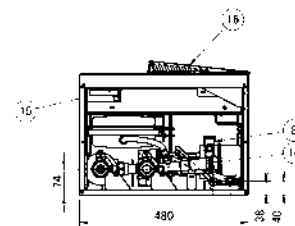
316

### HXY-A8

Required space for service and ventilation

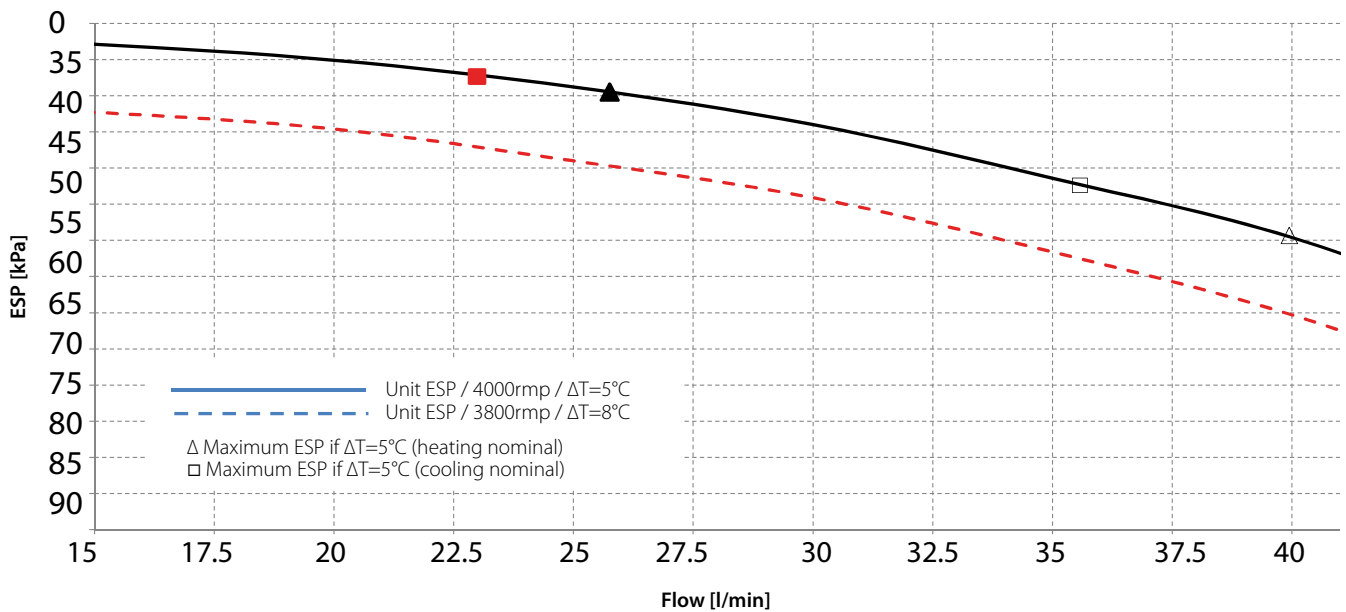


1	Hole (ø12) for fixation to the wall
2	Water out connection (1-1/4" F BSP)
3	Water in connection (1-1/4" F BSP)
4	Refrigerant liquid connection ø9.52 (flare)
5	Refrigerant suction connection ø15.9 (flare)
6	Pump
7	User interface
8	Safety valve (pressure)
9	Air purge
10	Expansion vessel
11	Pressure gauge
12	Heat exchanger (refrigerant / water)
13	Shut off valve with drain / fill valve (1-1/4" F BSP) (included accessory)
14	Water filter
15	Power supply / Communication wire entrance
16	Service door
17	Switchbox terminals



3D079938

### HXY-A8



ESP: External Static Pressure  
Flow: Water flow through the unit

#### NOTES

1. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction. See also the minimum and maximum allowed water flow range in the technical specifications.
2. Water quality must be according to EU directive 98/83 EC.

3D097625

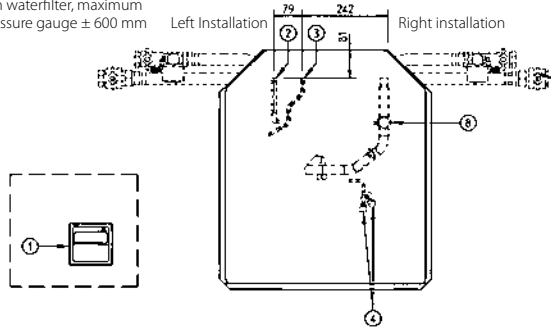
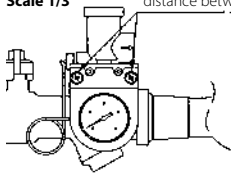


Detailed technical drawings

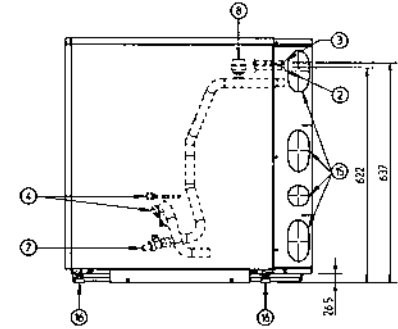
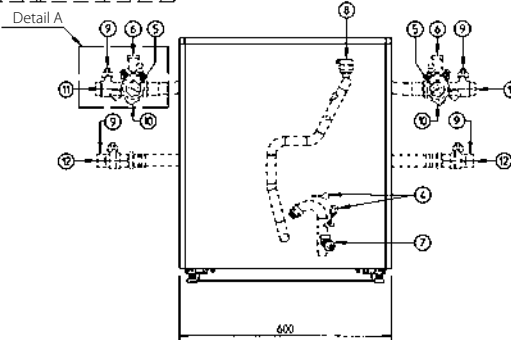
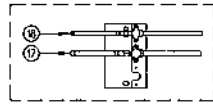
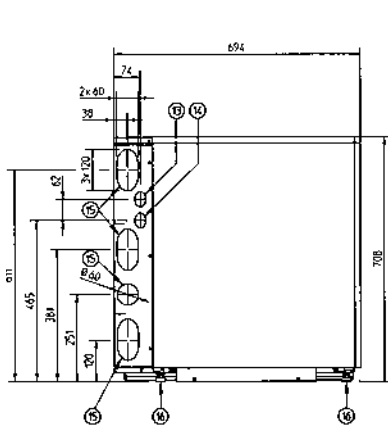
**HXHD125A8**

**Detail A**  
Scale 1/3

If required (e.g. Wall fixation)  
Pressure gauge can be removed from waterfilter, maximum  
distance between waterfilter and pressure gauge  $\pm 600$  mm

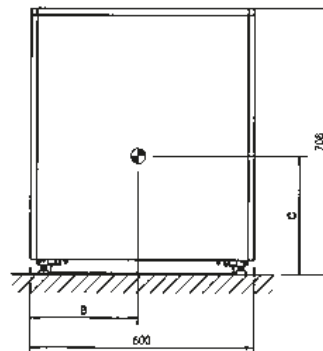
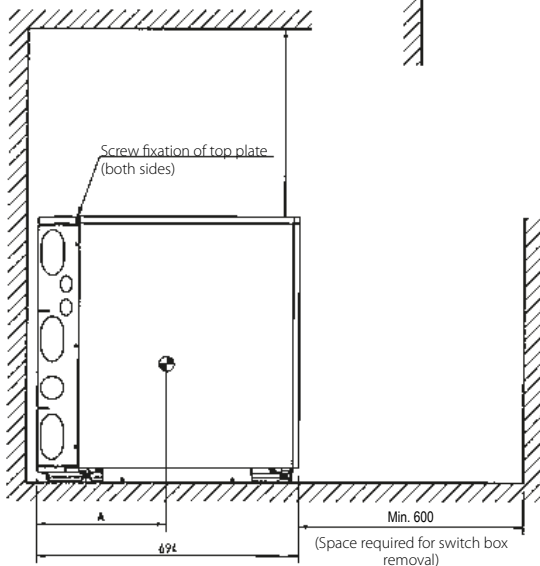
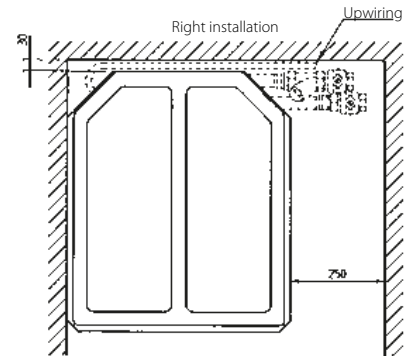
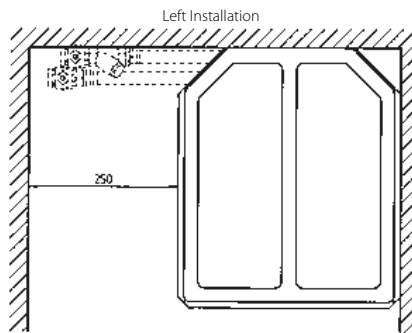


1	Remote control (delivered as accessory) Installation location is outside the unit
2	Discharge pipe connection $\phi 12.7$ solder (R410a)
3	Liquid pipe connection $\phi 9.5$ solder (R410a)
4	R134a Service ports 5/16" flare (2x)
5	Pressure gauge
6	Blow off valve
7	Drain valve water circuit
8	Air purge
9	Shut-off valves (2x)
10	Water filter
11	Water in connection G 1" (female)
12	Water out connection G 1" (female)
13	Control wiring intake (knock-out hole $\phi 37$ )
14	Power supply wiring intake (knock-out hole $\phi 37$ )
15	Knock-out holes for refrigerant piping and water piping
16	Levelling feet
17	Discharge stop valve $\phi 12.7$ solder (R410a)
18	Liquid stop valve $\phi 9.5$ solder (R410a)



**3TW59914-1B(1)**

**HXHD125A8**

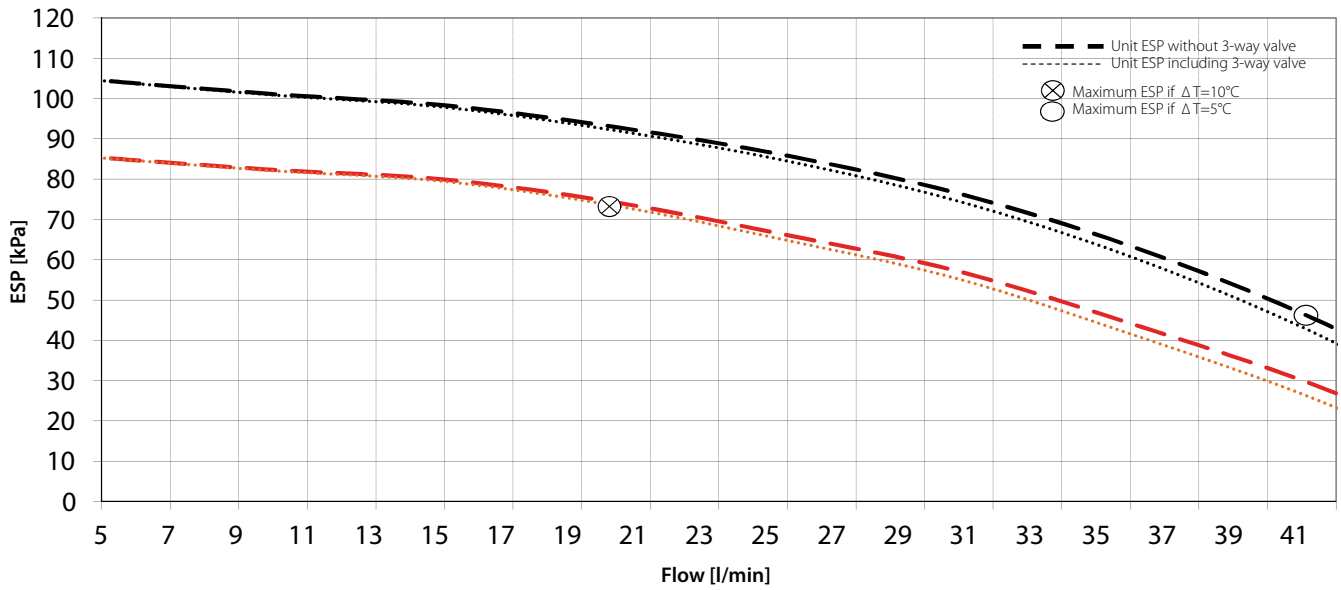


Model	A	B	C
HXHD-A8	355	270	300

**3TW59914-1B(2)**



### HXHD125A8



**NOTES**

1. The ESP curves are the maximum ESP curves for different (T types (pump rpm=4200 for (T=5°C; pump rpm=3800 for (T=10°C).
2. The pump of the indoor unit is inverter-controlled and functions to have a fixed (T between the return water temperature and the leaving water temperature.  
In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

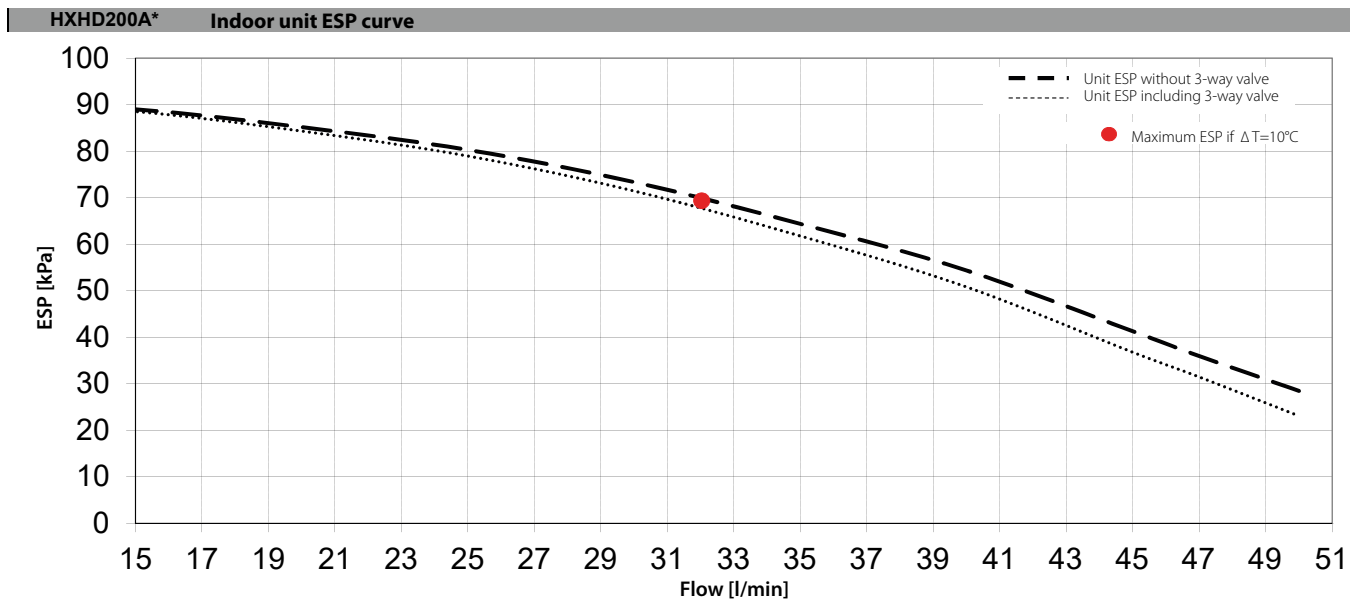
ESP: External Static Pressure  
Flow: water flow through the unit

**WARNING**

1. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction.  
See also the minimum and maximum allowed water flow range in the technical specifications.
2. Water quality must be according to EU directive 98/83 EC.

**3D097621**

### HXHD200A8



**NOTES**

1. The ESP curves are the maximum ESP curves, with and without domestic hot water tank installed on top of the indoor unit (pump rpm: 4000).  
The pump of the indoor unit is inverter-controlled and functions to have a fixed ΔT between the return water temperature and the leaving water temperature.
2. In case of installing a domestic hot water tank, there is an additional pressure drop over the 3-way valve (delivered as an accessory with the tank).

ESP: External Static Pressure  
Flow: water flow through the unit

**WARNING**

1. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction.  
See also the minimum and maximum allowed water flow range in the technical specifications.
2. Water quality must be according to EU directive 98/83 EC.

**3D113718**

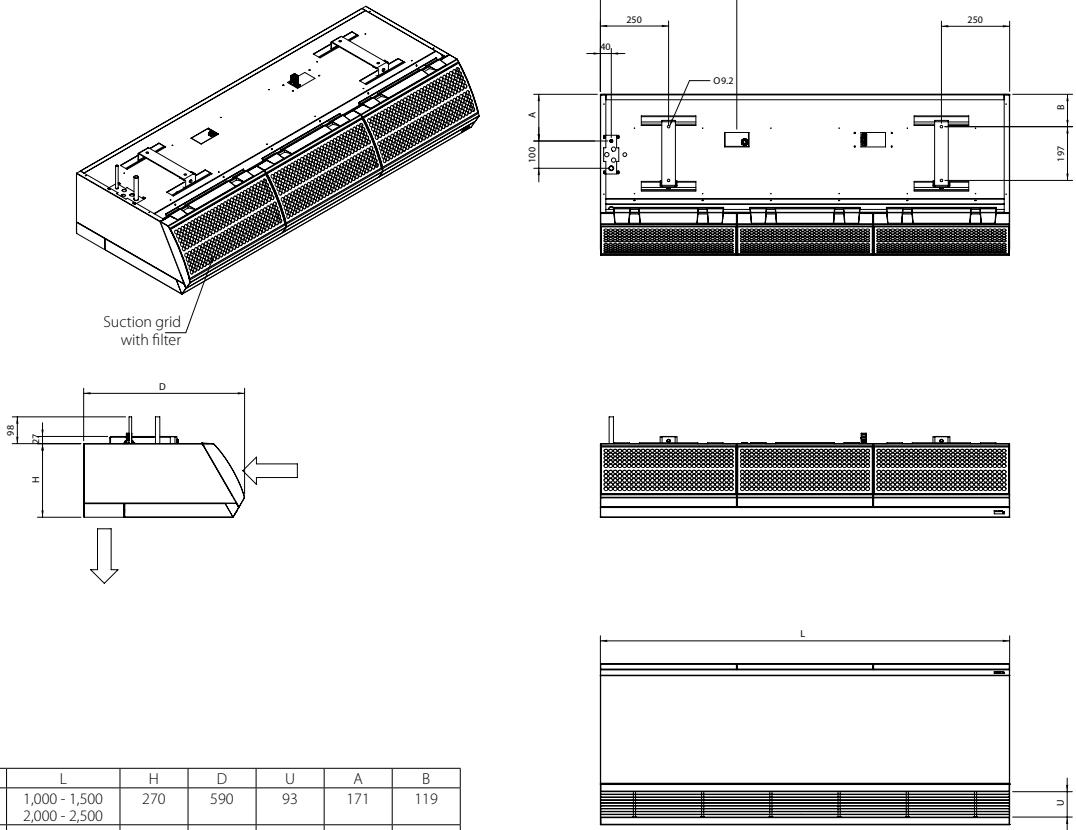


Technical drawings  
**Biddle air curtains**

CYVS\_DK / CYVM\_DK / CYVL\_DK

320

**CYVS\_DK\_FBN/FSN / CYVM\_DK\_FBN/FSN / CYVL\_DK\_FBN/FSN**



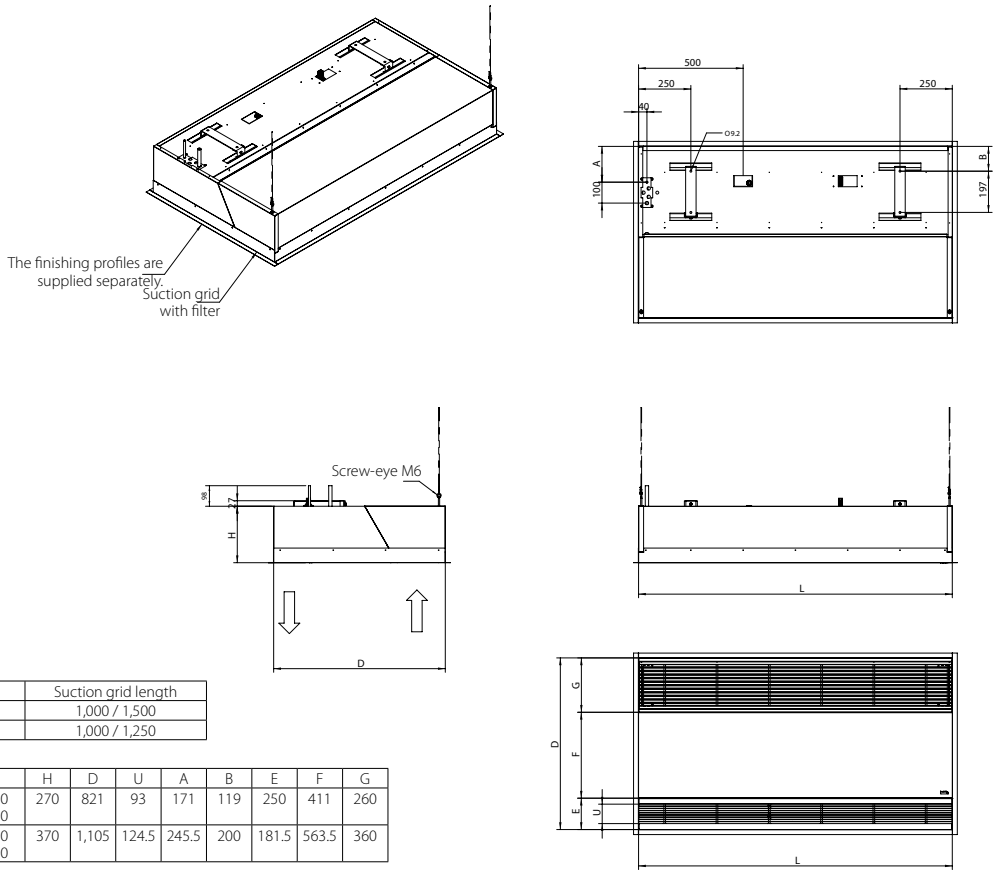
Type	L	H	D	U	A	B
CYVS-DK-FBN/FSN	1,000 - 1,500	270	590	93	171	119
CYVM-DK-FBN/FSN	2,000 - 2,500					
CYVL-DK-FBN/FSN	1,000 - 1,500	370	774	124.5	245.5	200
	2,000 - 2,500					

**NOTES**

1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

**CU0954X-000**

**CYVS\_DK\_CBN/CSN / CYVM\_DK\_CBN/CSN / CYVL\_DK\_CBN/CSN**



Number of suction grids per device

Device length	Number	Suction grid length
1000 / 1500	1	1,000 / 1,500
2000 / 2500	2	1,000 / 1,250

\*1 drain grid per device

Type	L	H	D	U	A	B	E	F	G
CYVS-DK-CBN/CSN	1,000 - 1,500	270	821	93	171	119	250	411	260
CYVM-DK-CBN/CSN	2,000 - 2,500								
CYVL-DK-CBN/CSN	1,000 - 1,500	370	1,105	124.5	245.5	200	181.5	563.5	360
	2,000 - 2,500								

**NOTES**

1. The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.  
2. The mounting holes for finishing profiles in a lowered ceiling (L+8) x (D+8) mm

**CU0955X-000**







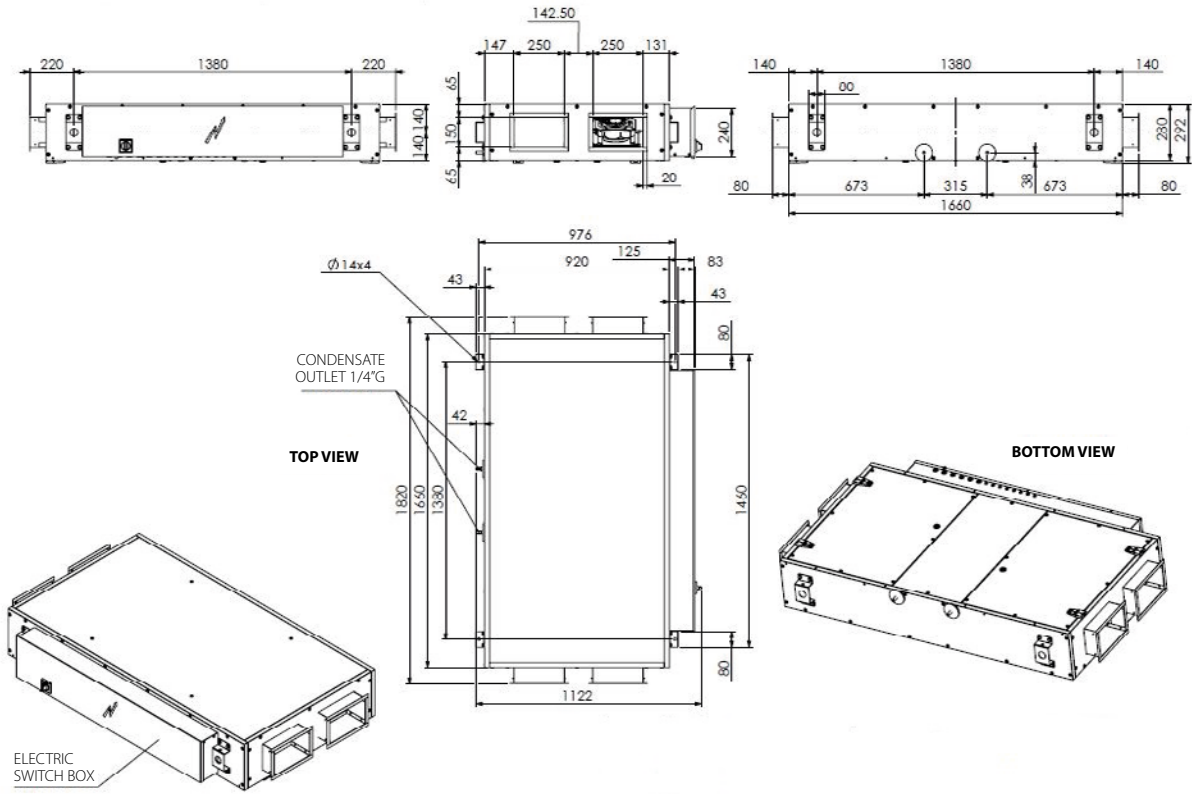
## Technical drawings

# Ventilation

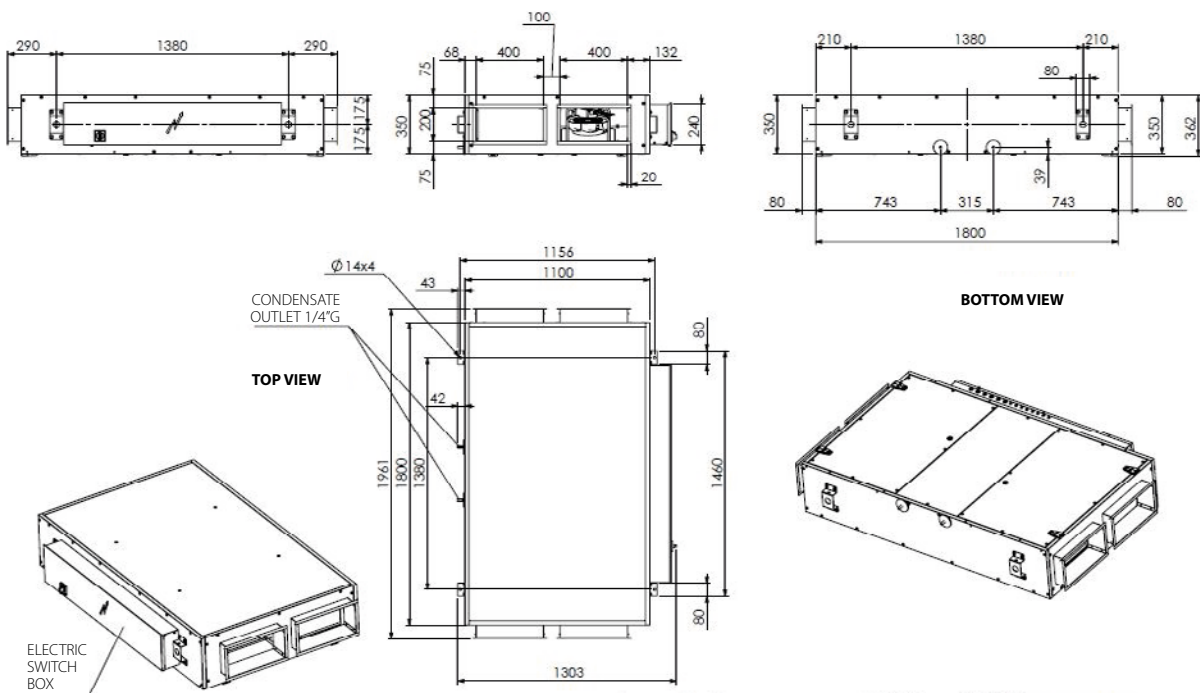
ALB-LBS/RBS	323
VAM-FC / VAM-J	329
EKVDX-A	337
VKM-GBM	342



## ALB02RBS/LBS

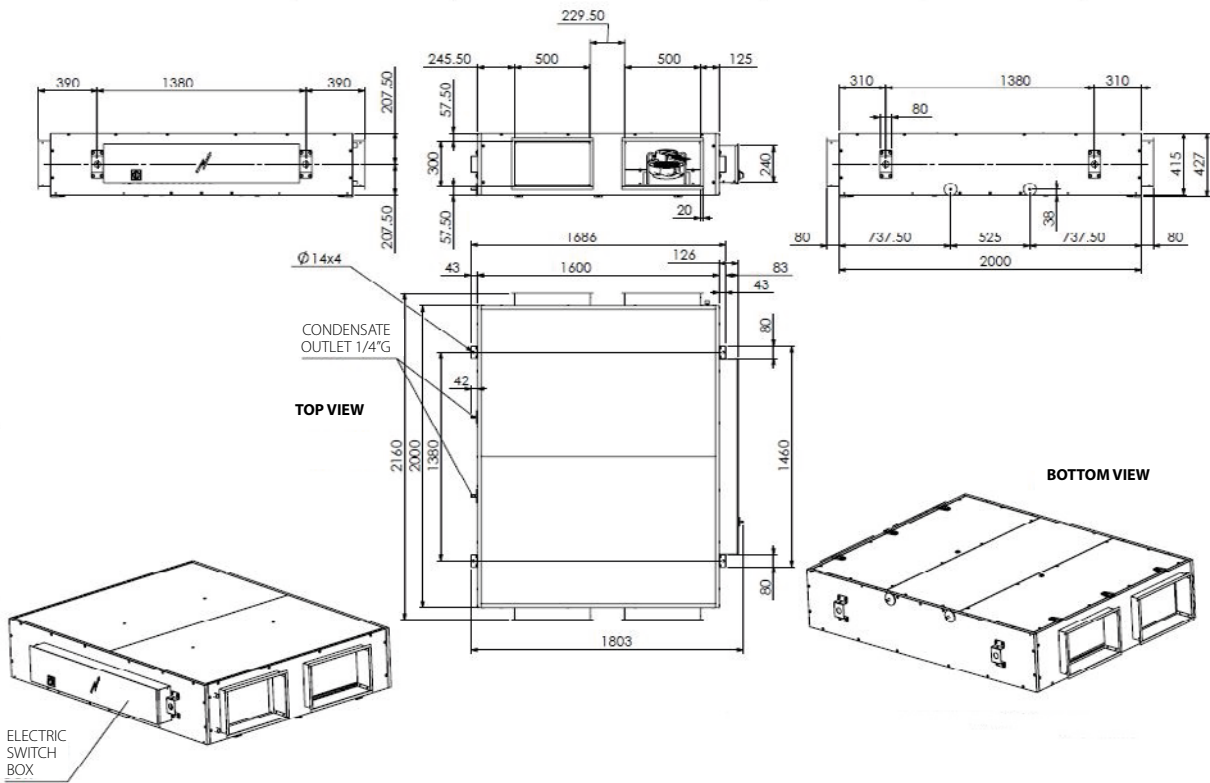


## ALB03RBS/LBS

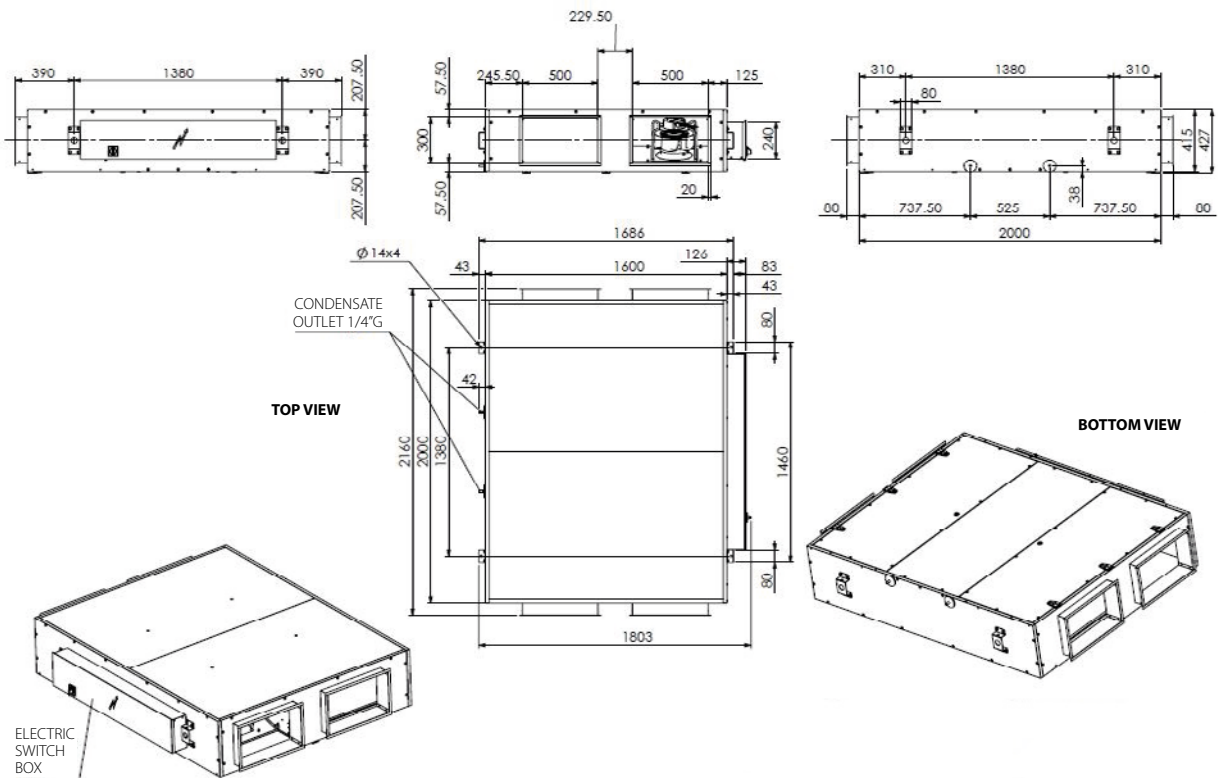




### ALB04RBS/LBS

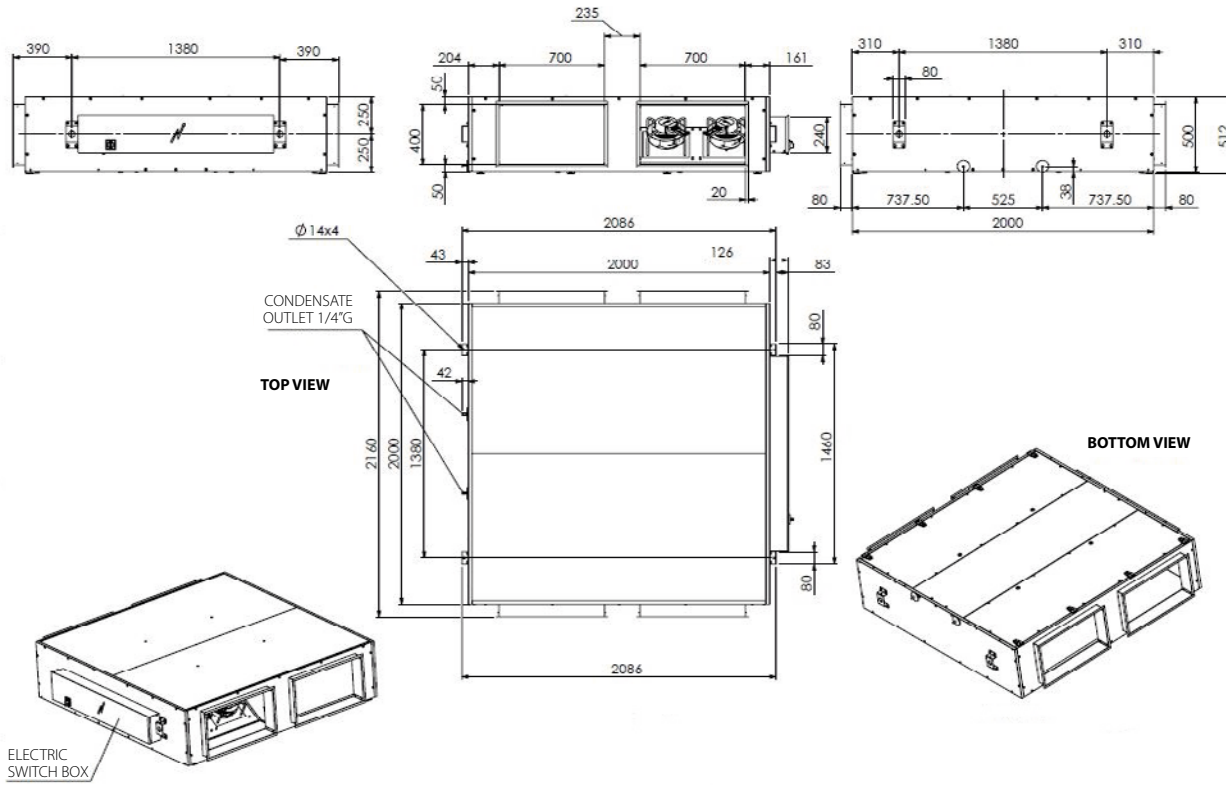


### ALB05RBS/LBS

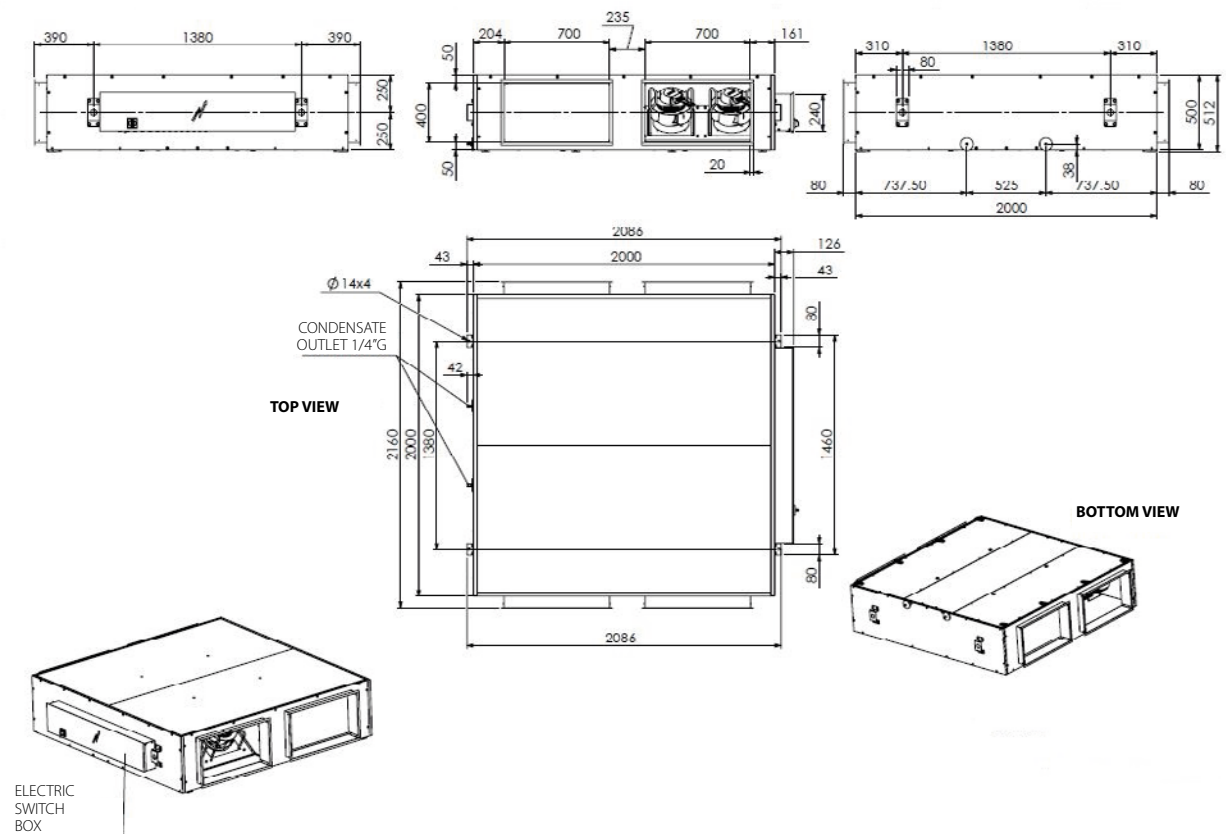




### ALB06RBS/LBS

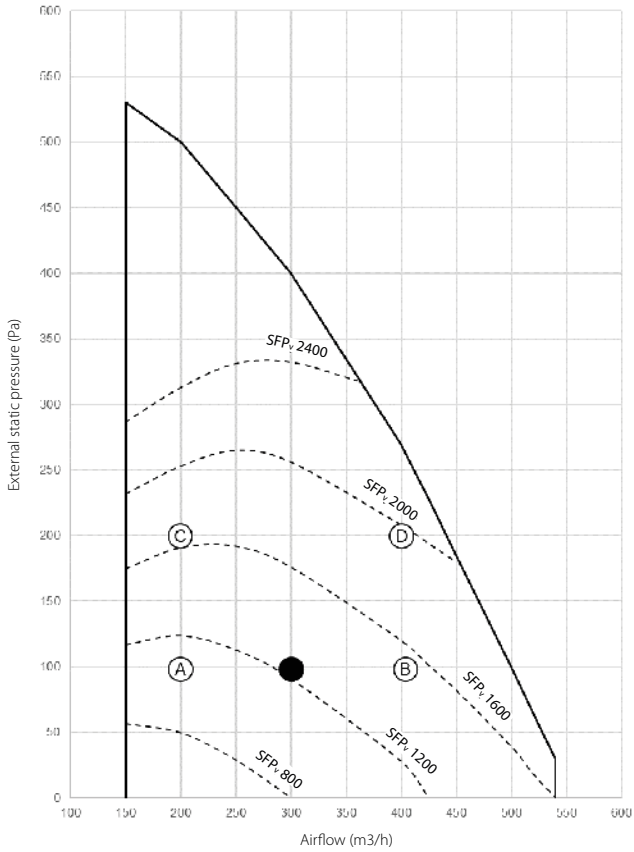


### ALB07RBS/LBS





### ALB02RBS/LBS



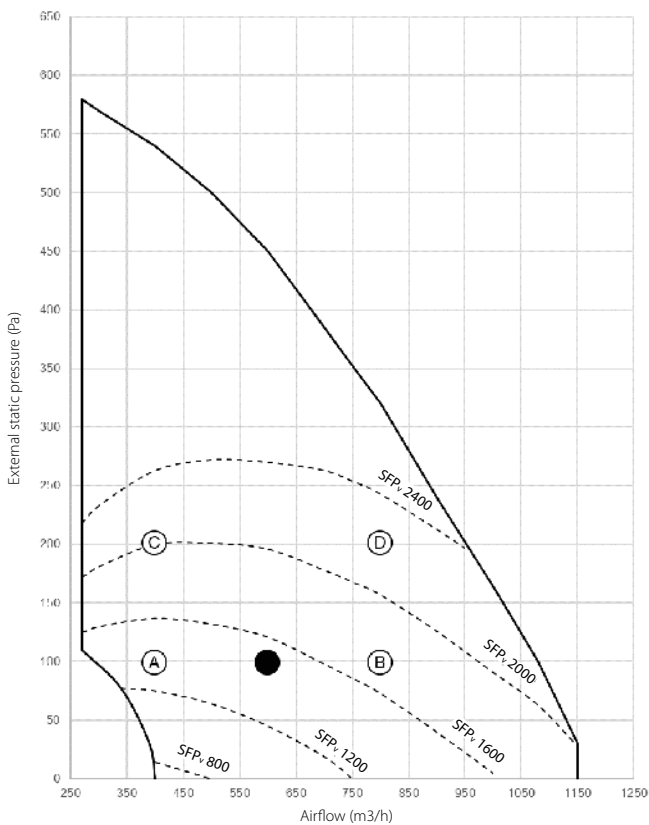
The diagram shows the available external pressure for the duct system given an airflow.

**SFP<sub>v</sub> = Specific Fan Power (W/m<sup>3</sup>/s)**

The SFP<sub>v</sub> curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

● Nominal working point

### ALB03RBS/LBS



The diagram shows the available external pressure for the duct system given an airflow.

**SFP<sub>v</sub> = Specific Fan Power (W/m<sup>3</sup>/s)**

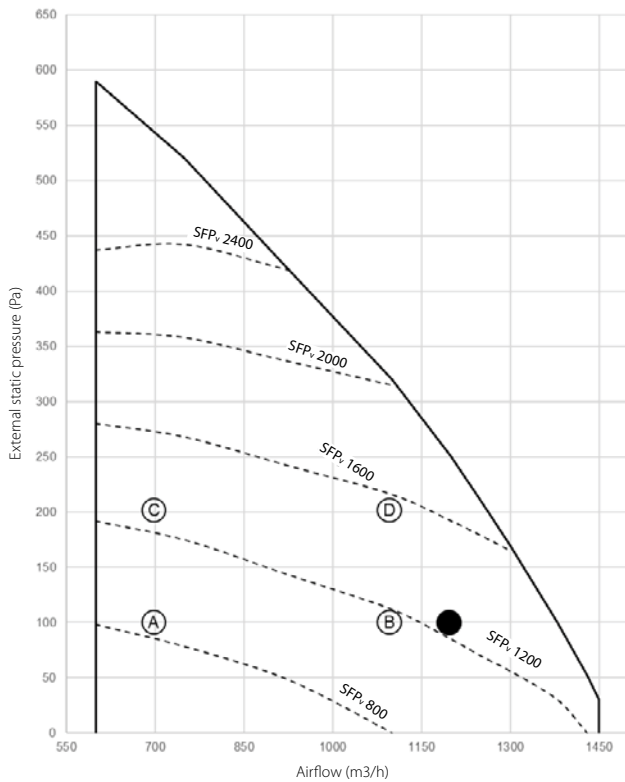
The SFP<sub>v</sub> curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

● Nominal working point





## ALB04RBS/LBS



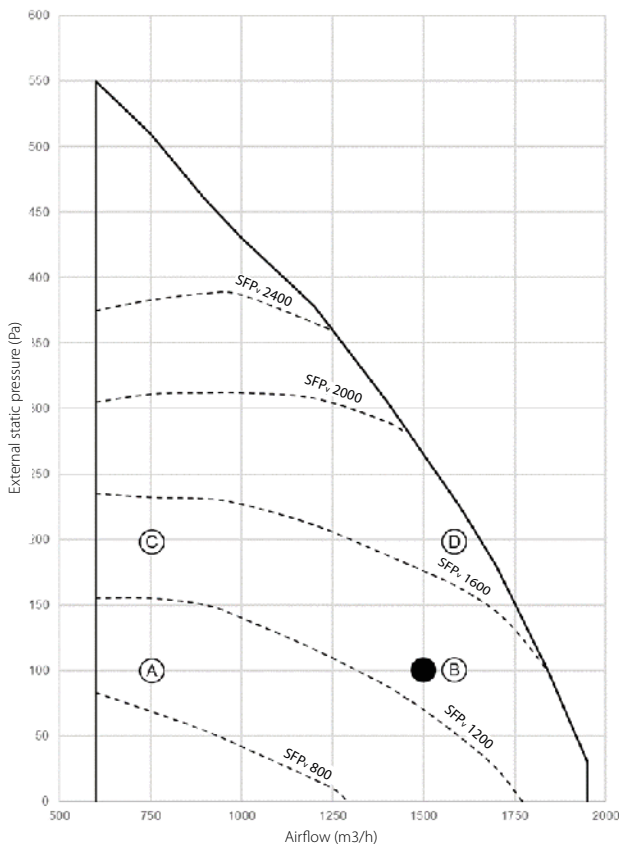
The diagram shows the available external pressure for the duct system given an airflow.

**SFPv = Specific Fan Power (W/m<sup>3</sup>/s)**

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

● Nominal working point

## ALB05RBS/LBS



The diagram shows the available external pressure for the duct system given an airflow.

**SFPv = Specific Fan Power (W/m<sup>3</sup>/s)**

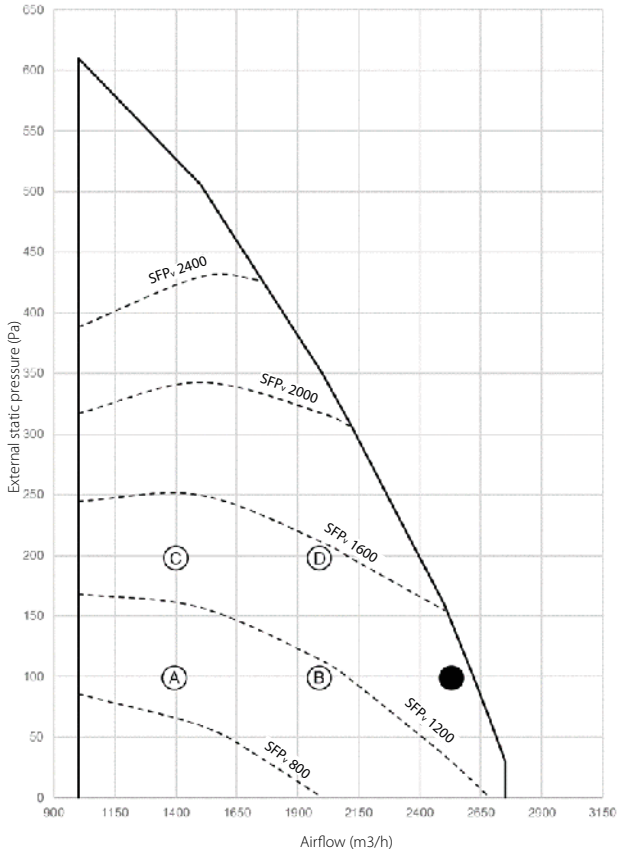
The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

● Nominal working point





### ALB06RBS/LBS



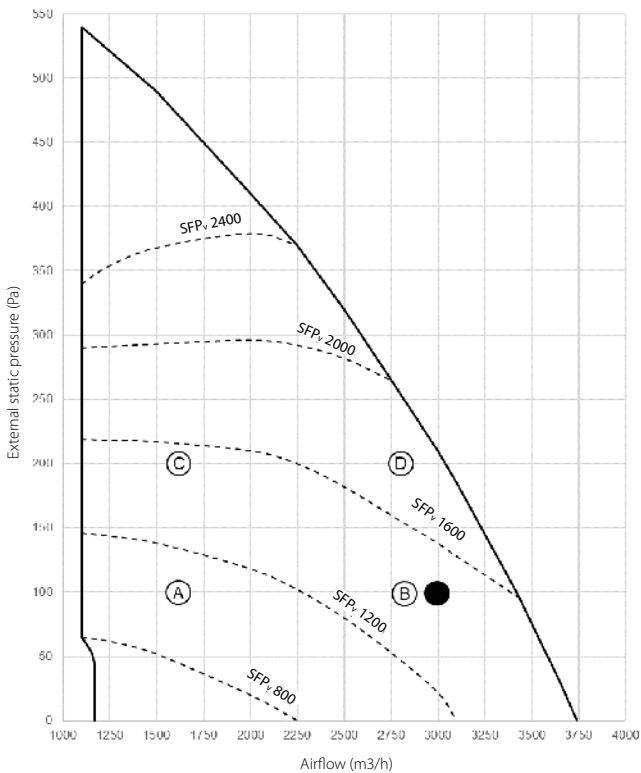
The diagram shows the available external pressure for the duct system given an airflow.

**SFPv = Specific Fan Power (W/m<sup>3</sup>/s)**

The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

● Nominal working point

### ALB07RBS/LBS



The diagram shows the available external pressure for the duct system given an airflow.

**SFPv = Specific Fan Power (W/m<sup>3</sup>/s)**

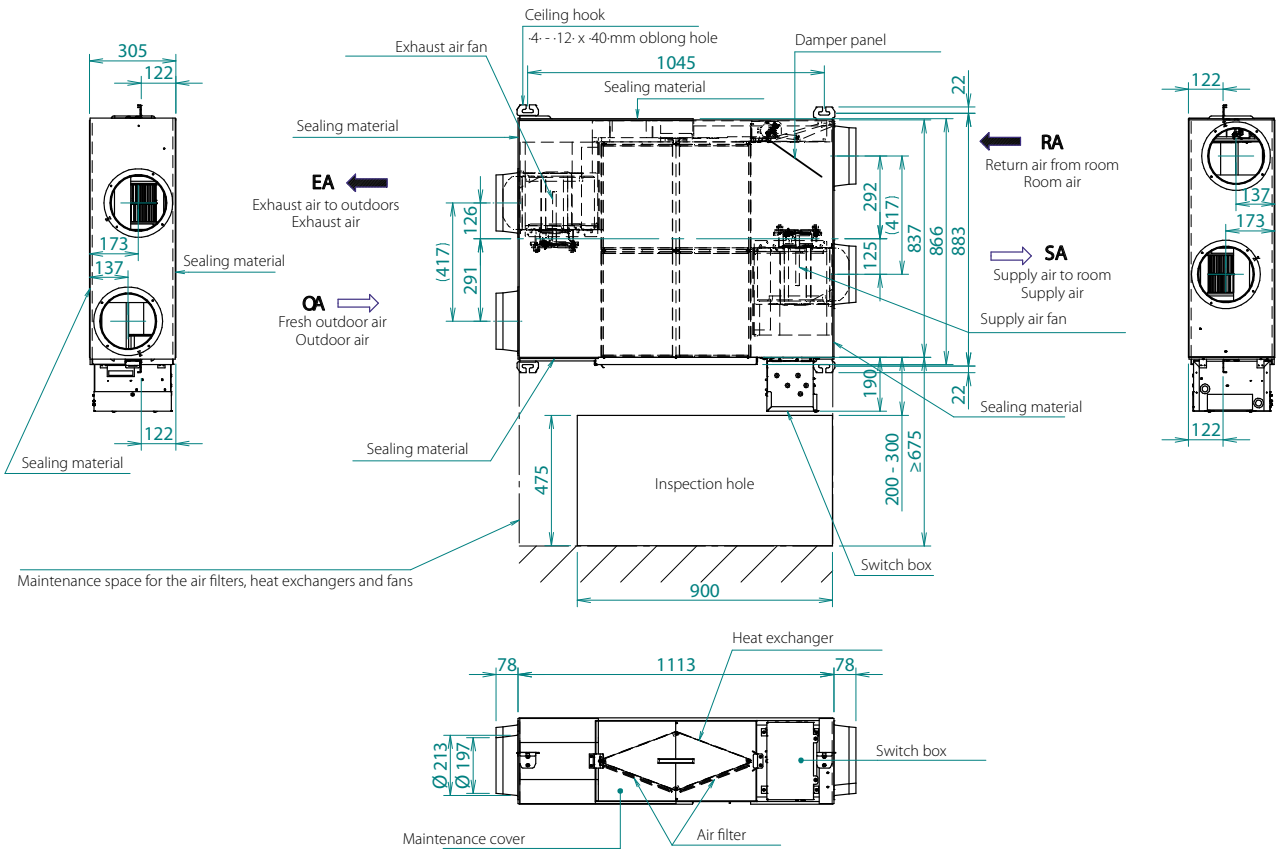
The SFPv curves are referring to the complete unit. Moreover, it includes power to both supply and extract fan divided by either the supply or extract volume whichever is the greater.

● Nominal working point



Detailed technical drawings

VAM350-500J

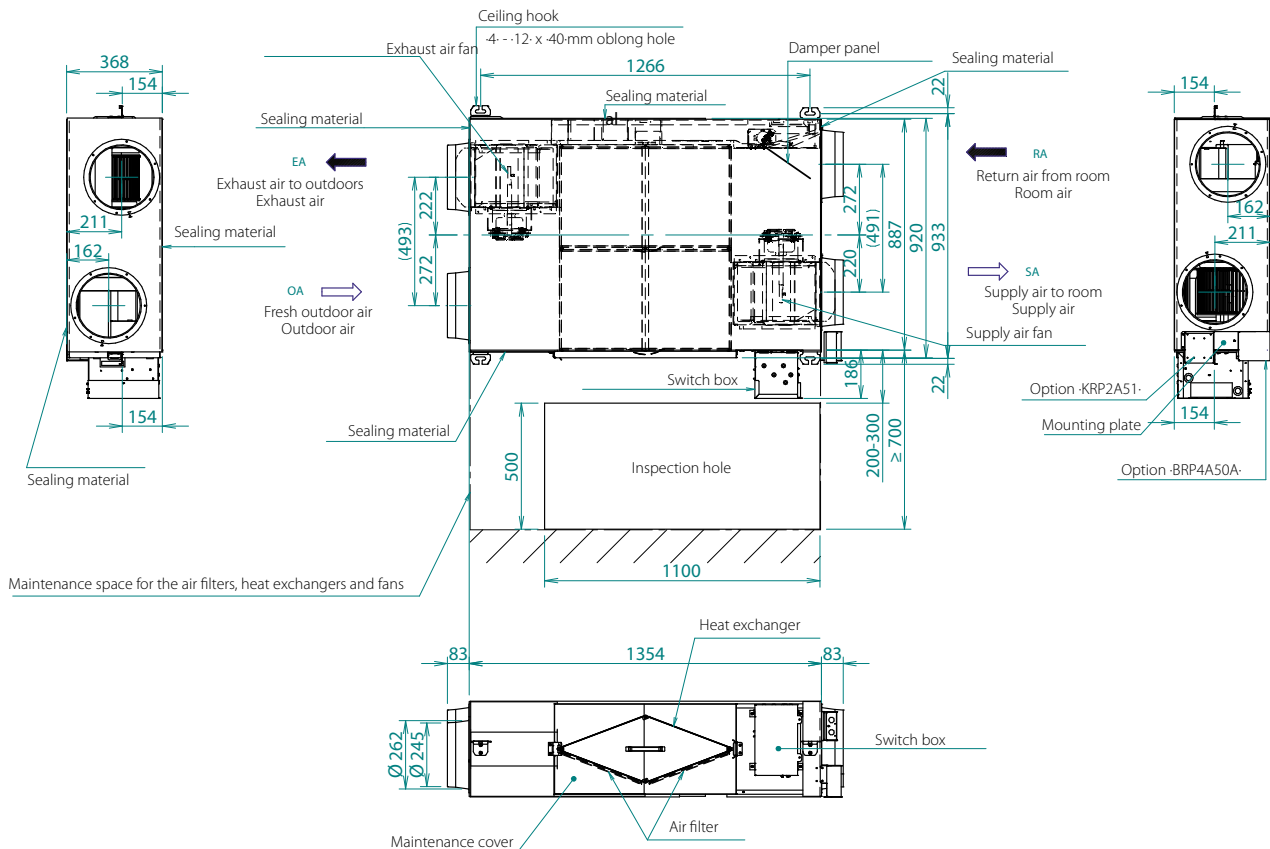


NOTES

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112815C

VAM650J

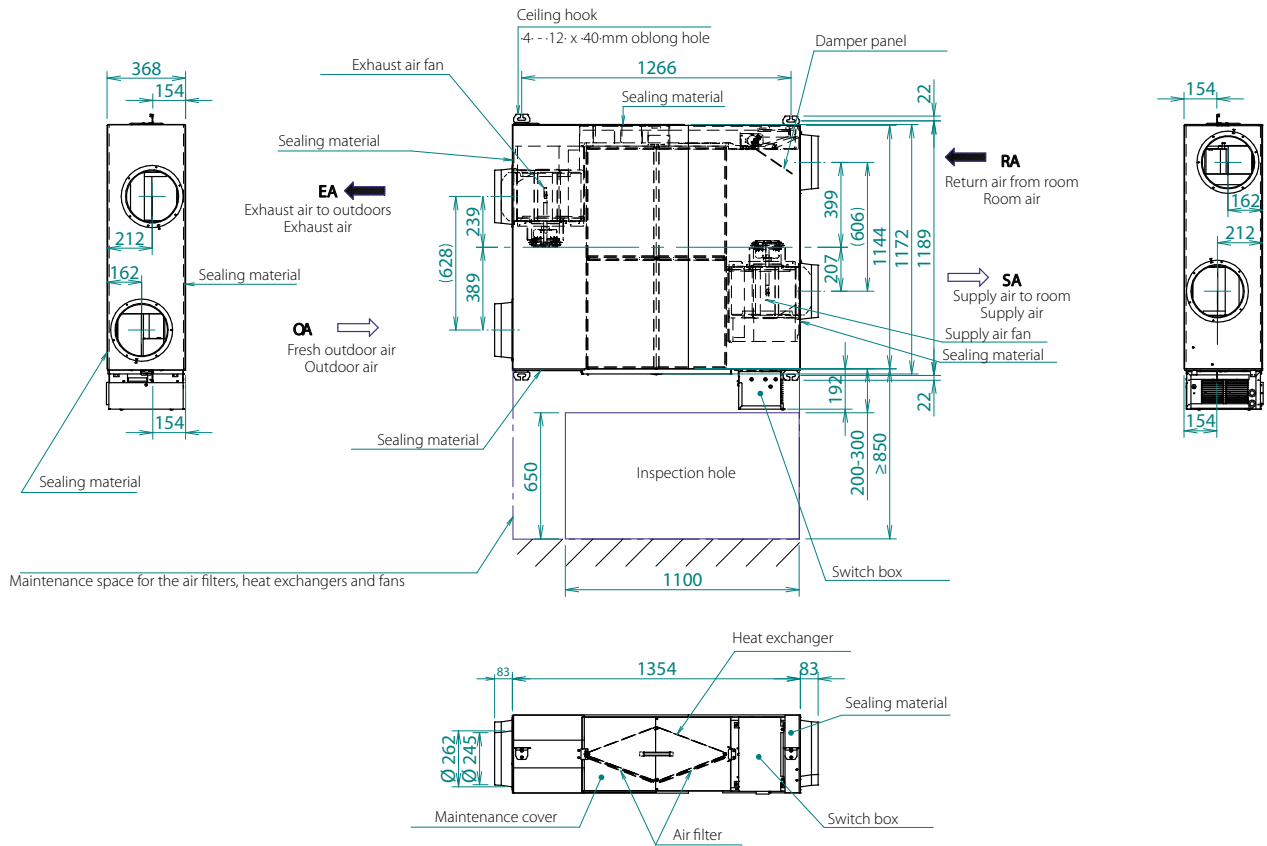


NOTES

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D113502A

**VAM800-1000J**

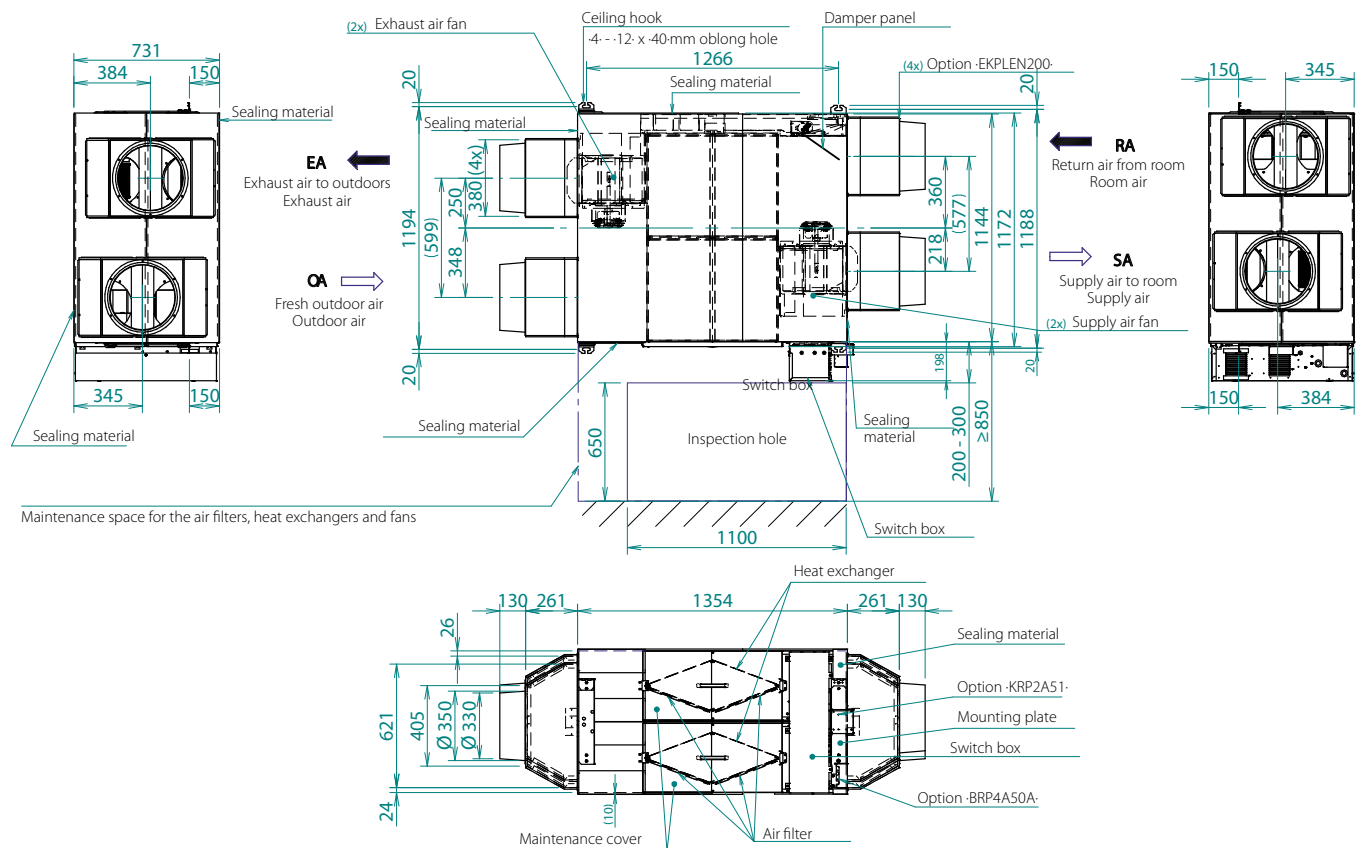


**NOTES**

1. To perform maintenance on the air filter, it is required to provide a service access panel.

**3D112817D**

**VAM1500-2000J**

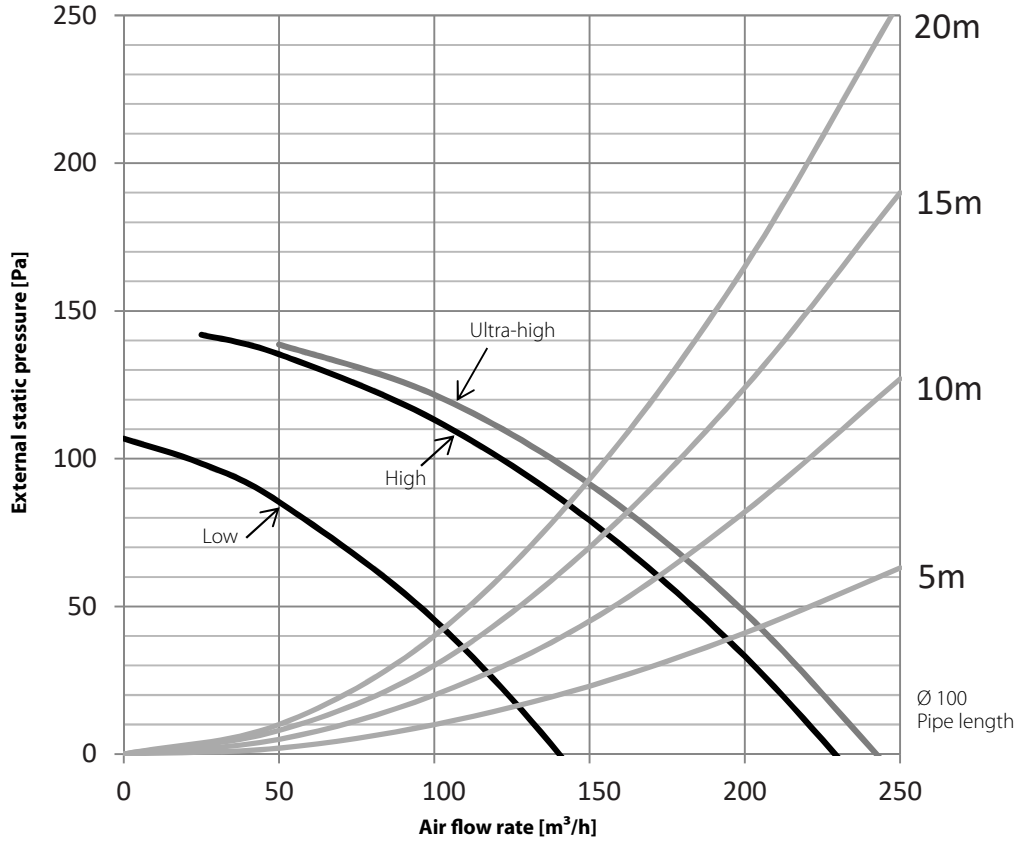


**NOTES**

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

**3D112818C**

**VAM150FC9**

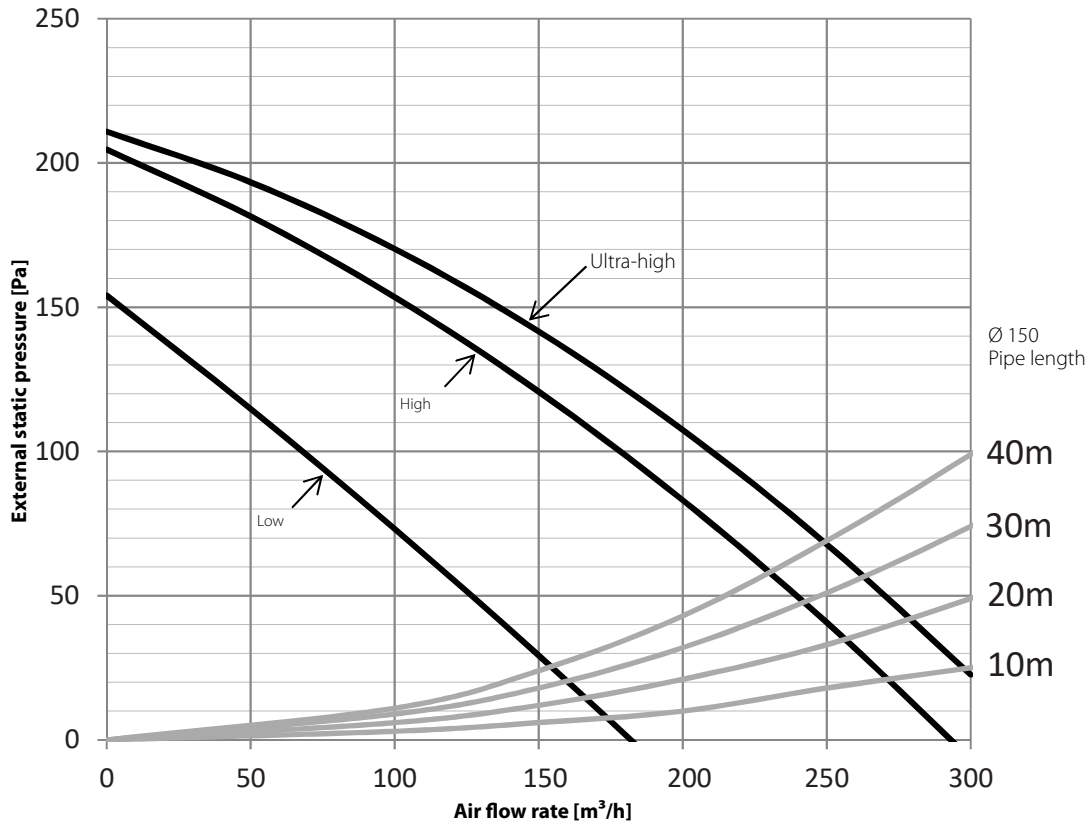


**NOTES**

1. The fan speeds are valid for ~230-V, ~50-Hz power supply.

**4D100379A**

**VAM250FC**



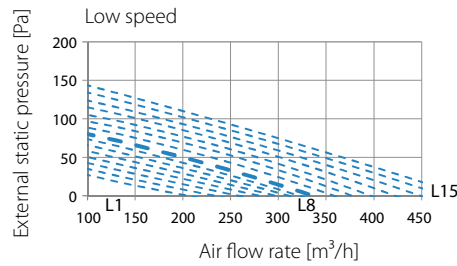
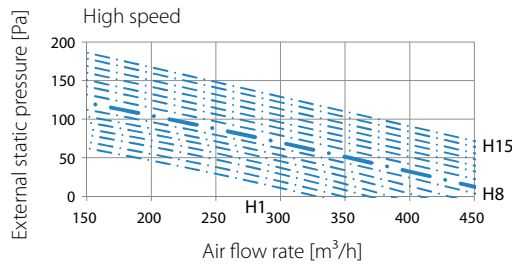
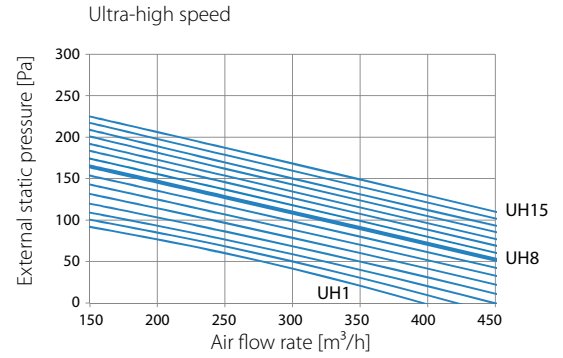
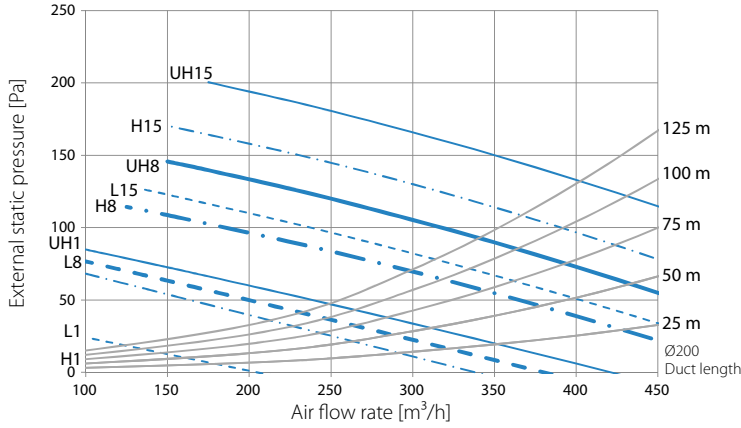
**NOTES**

1. The fan speeds are valid for ~230-V, ~50-Hz power supply.

**4D100380A**



**VAM350J**



— Ultra-high speed  
- · - High speed  
- - - Low speed

**NOTES**

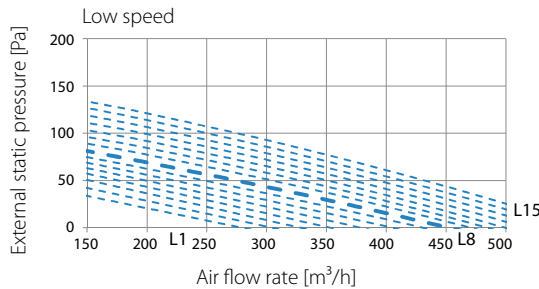
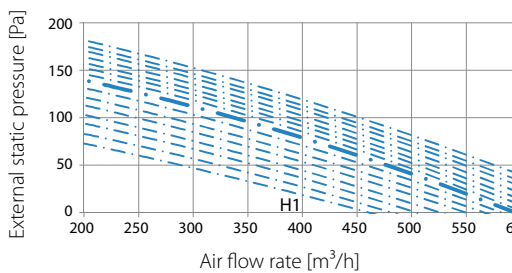
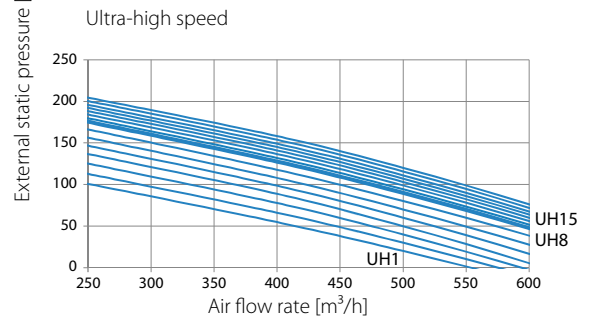
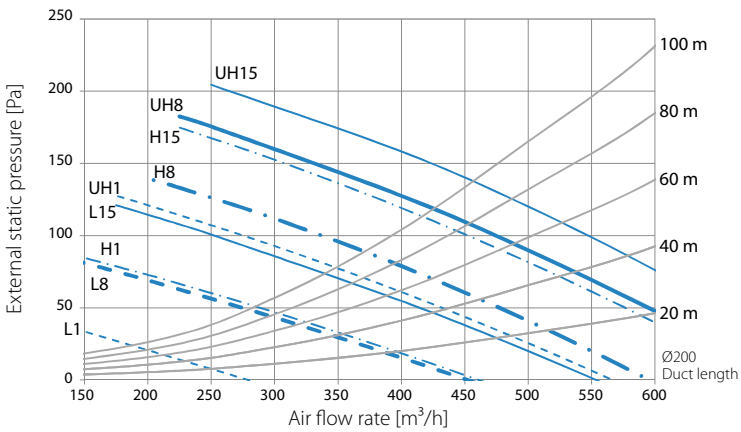
- The fan curves are determined with  $\cdot 1/3$  of the ESP on the outdoor side (EA & OA), and  $\cdot 2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

**LEGEND**

- L1 = Low speed lower limit  
L8 = Low speed factory setting  
L15 = Low speed upper limit  
H1 = High speed lower limit  
H8 = High speed factory setting  
H15 = High speed upper limit  
UH1 = Ultra-high speed lower limit  
UH8 = Ultra-high speed factory setting  
UH15 = Ultra-high speed upper limit

**3D113493B**

**VAM500J**



— Ultra-high speed  
- · - High speed  
- - - Low speed

**NOTES**

- The fan curves are determined with  $\cdot 1/3$  of the ESP on the outdoor side (EA & OA), and  $\cdot 2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

**LEGEND**

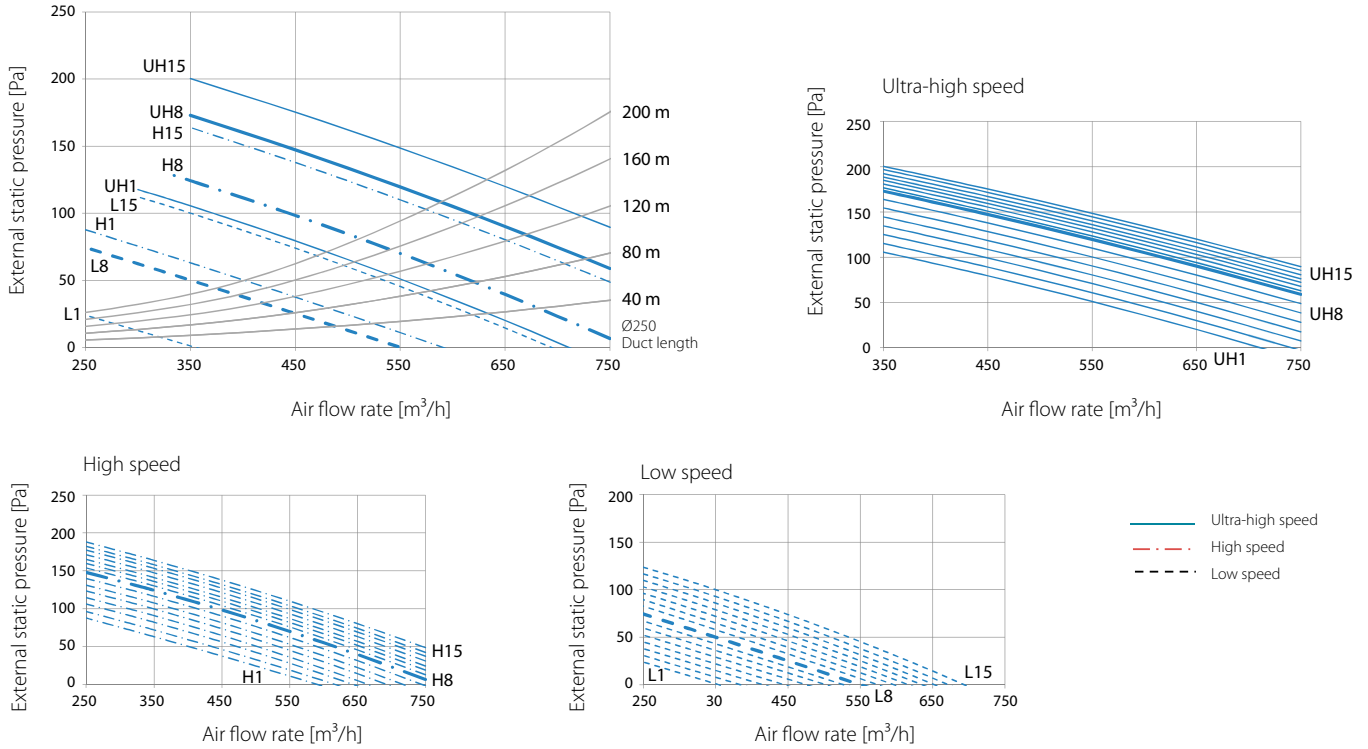
- L1 = Low speed lower limit  
L8 = Low speed factory setting  
L15 = Low speed upper limit  
H1 = High speed lower limit  
H8 = High speed factory setting  
H15 = High speed upper limit  
UH1 = Ultra-high speed lower limit  
UH8 = Ultra-high speed factory setting  
UH15 = Ultra-high speed upper limit

**3D113494B**



Detailed technical drawings

**VAM650J**



**NOTES**

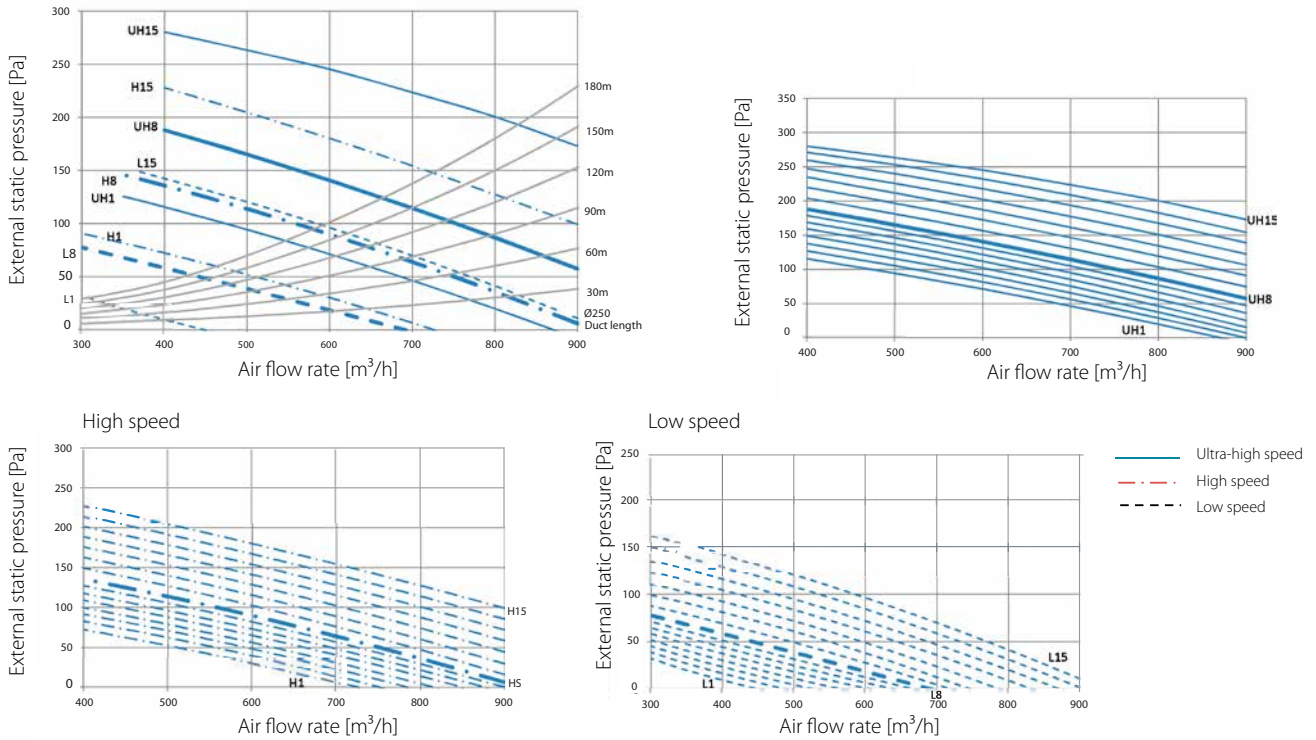
- The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

**LEGEND**

- L1 = Low speed lower limit
- L8 = Low speed factory setting
- L15 = Low speed upper limit
- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

**3D113495B**

**VAM800J**



**NOTES**

- The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

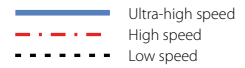
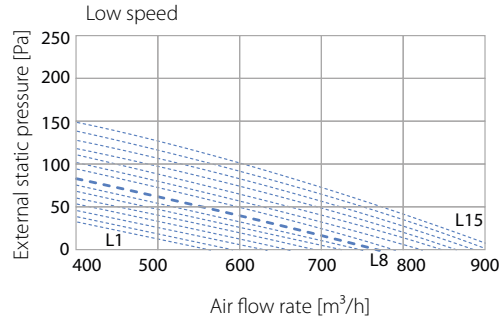
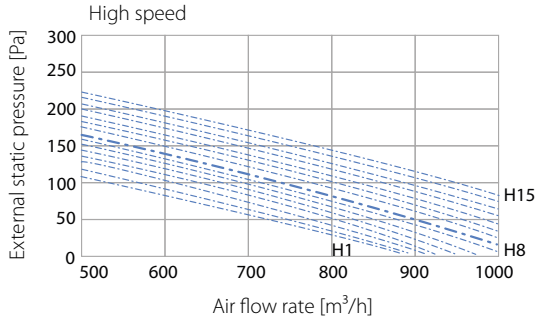
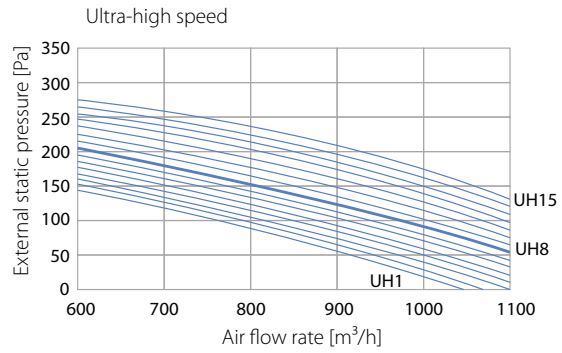
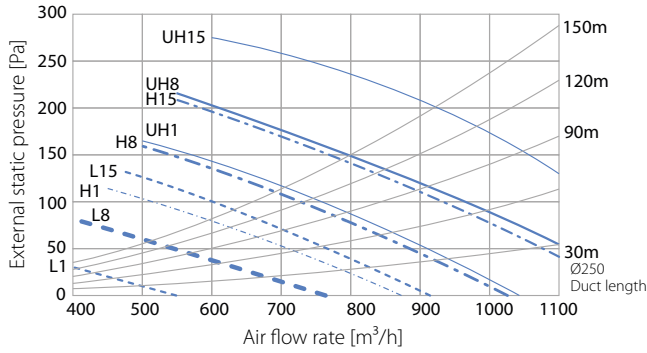
**LEGEND**

- L1 = Low speed lower limit
- L8 = Low speed factory setting
- L15 = Low speed upper limit
- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

**3D112837A**



**VAM1000J**



**NOTES**

- The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

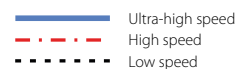
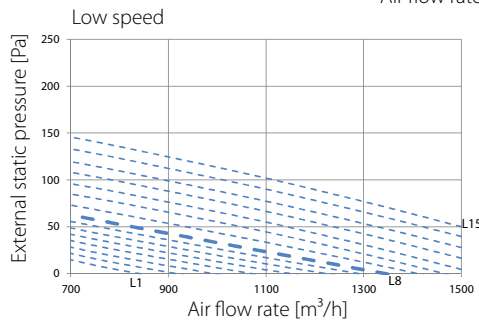
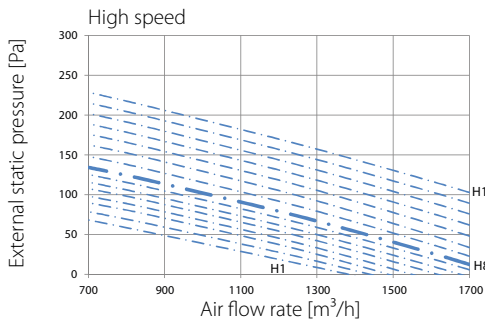
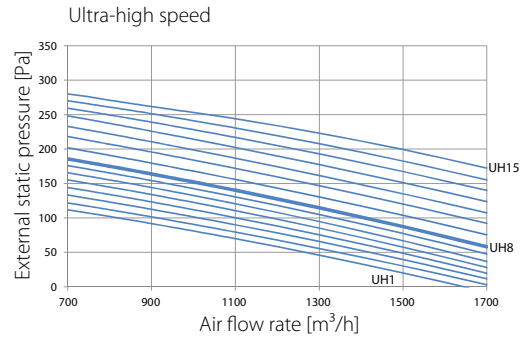
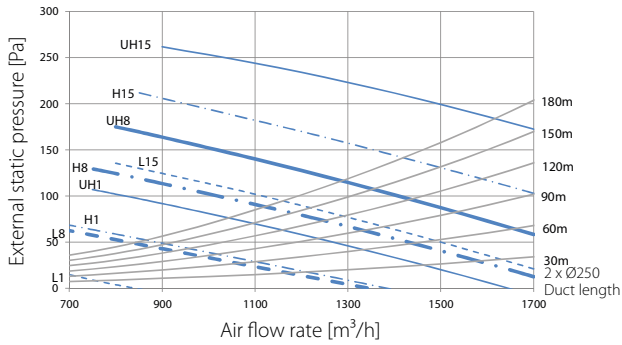
**LEGEND**

- L1 = Low speed lower limit
- L8 = Low speed factory setting
- L15 = Low speed upper limit
- H1 = High speed lower limit
- H8 = High speed factory setting

- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

**3D112832A**

**VAM1500J**



**NOTES**

- The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

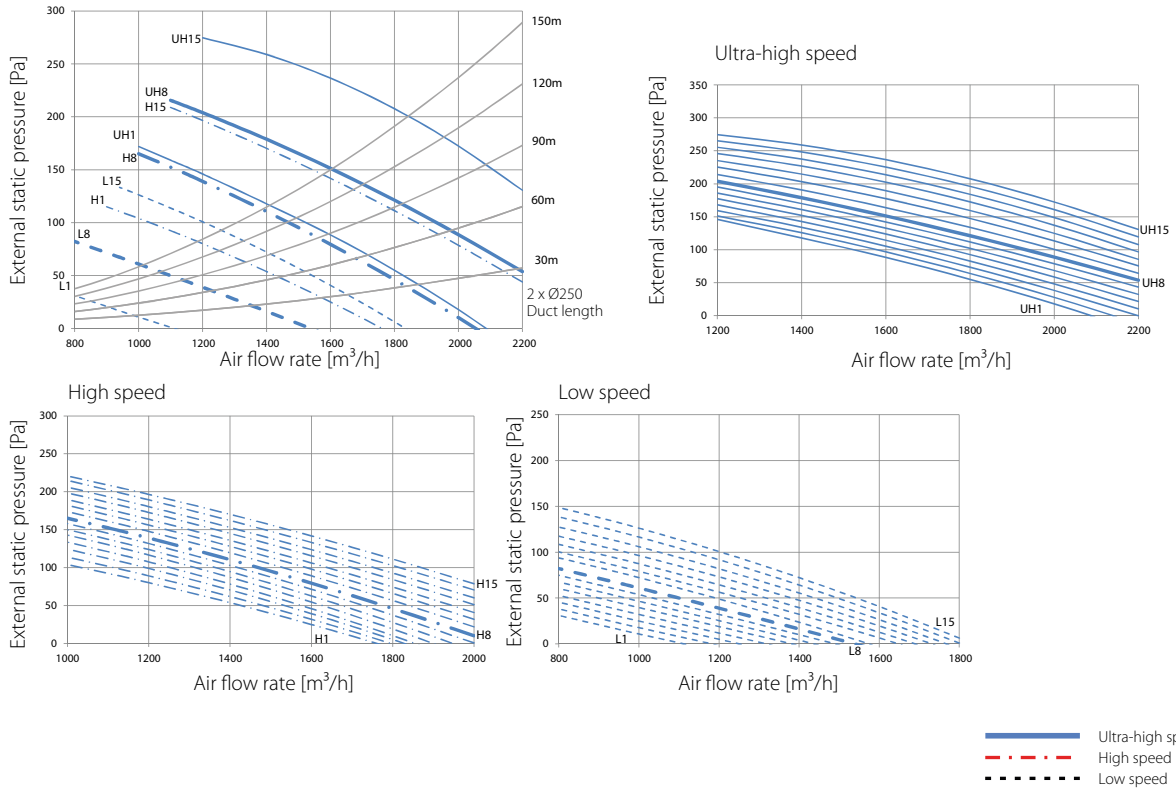
**LEGEND**

- L1 = Low speed lower limit
- L8 = Low speed factory setting
- L15 = Low speed upper limit
- H1 = High speed lower limit
- H8 = High speed factory setting

- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

**3D112838A**

VAM2000J



NOTES

- The fan curves are determined with 1/3 of the ESP on the outdoor side (EA & OA), and 2/3 of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- Measured according to JIS B 8628 - 2003.

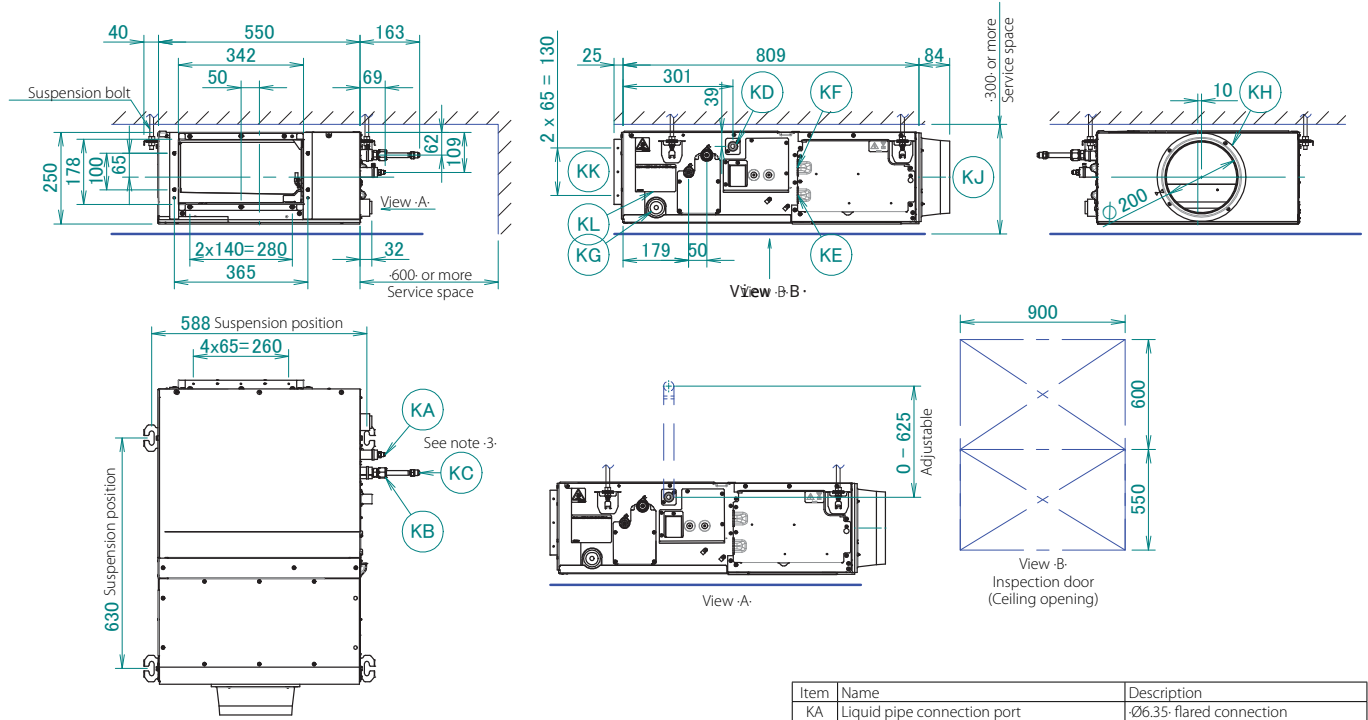
LEGEND

- L1 = Low speed lower limit
- L8 = Low speed factory setting
- L15 = Low speed upper limit
- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

3D112839A



### EKVDX32A



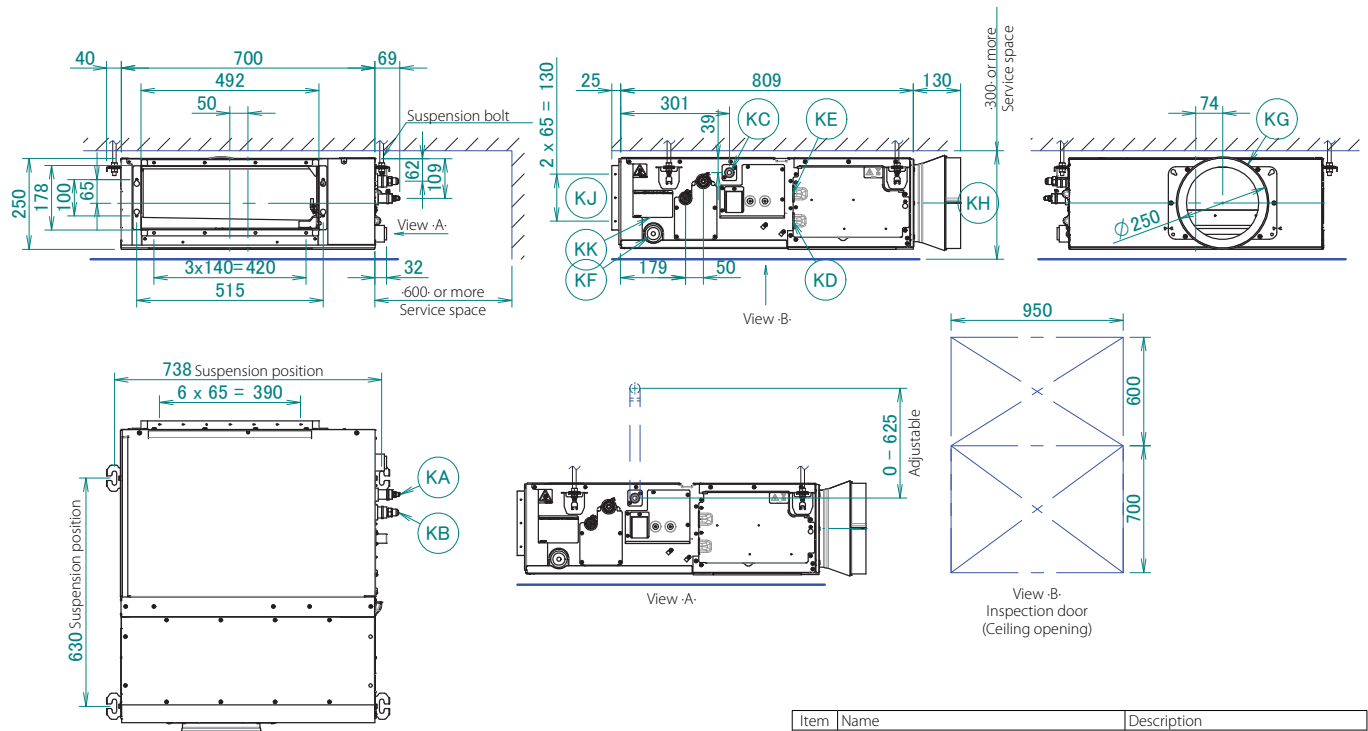
#### NOTES

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. Mandatory in case of using R32 refrigerant

Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø12.70- flared connection
KC	Accessory pipe	Ø9.52- flared connection
KD	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KE	Wiring connection	/
KF	Power supply connection	/
KG	Drain outlet	VP20 (OD Ø26, ID Ø20)
KH	Air inlet flange	/
KJ	Air suction side	/
KK	Air discharge side	/
KL	Nameplate	/

3D127967

### EKVDX50A



#### NOTES

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

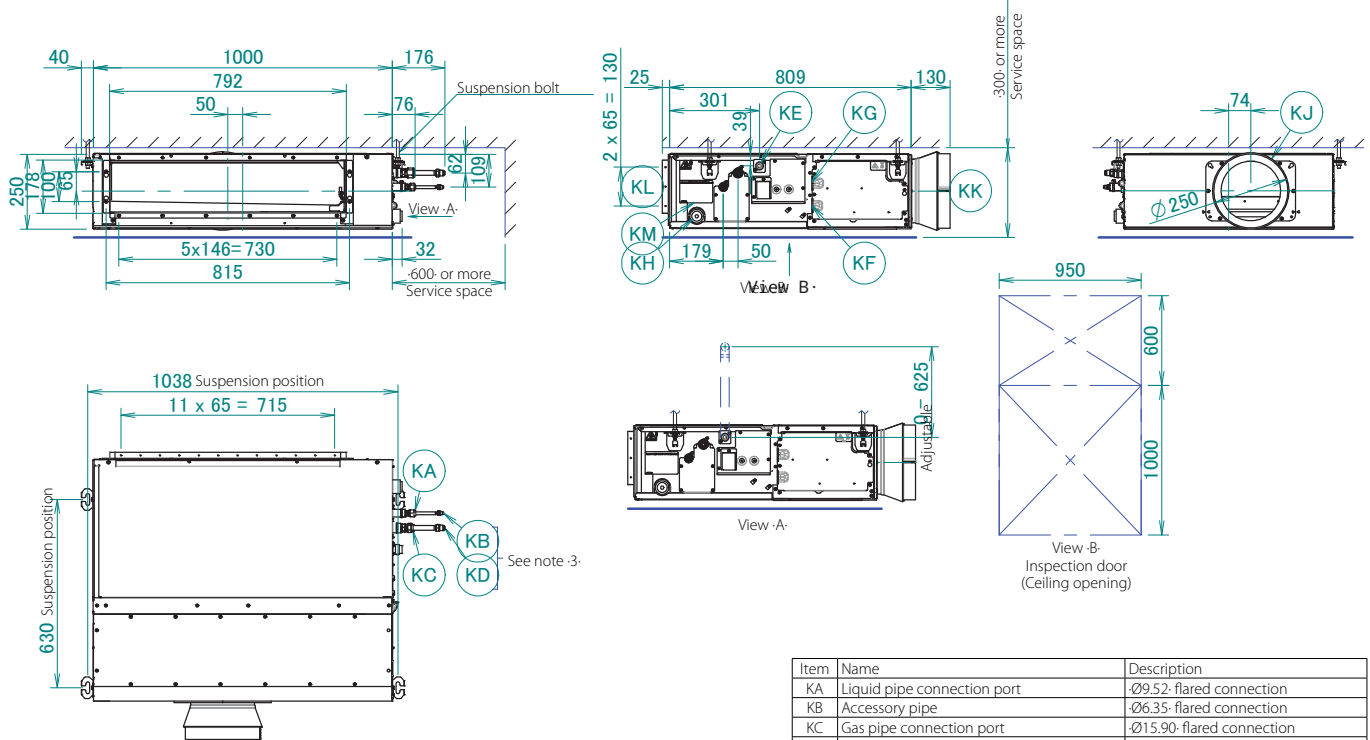
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35- flared connection
KB	Gas pipe connection port	Ø12.70- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air inlet flange	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

3D127968



## Detailed technical drawings

### EKVDX80A



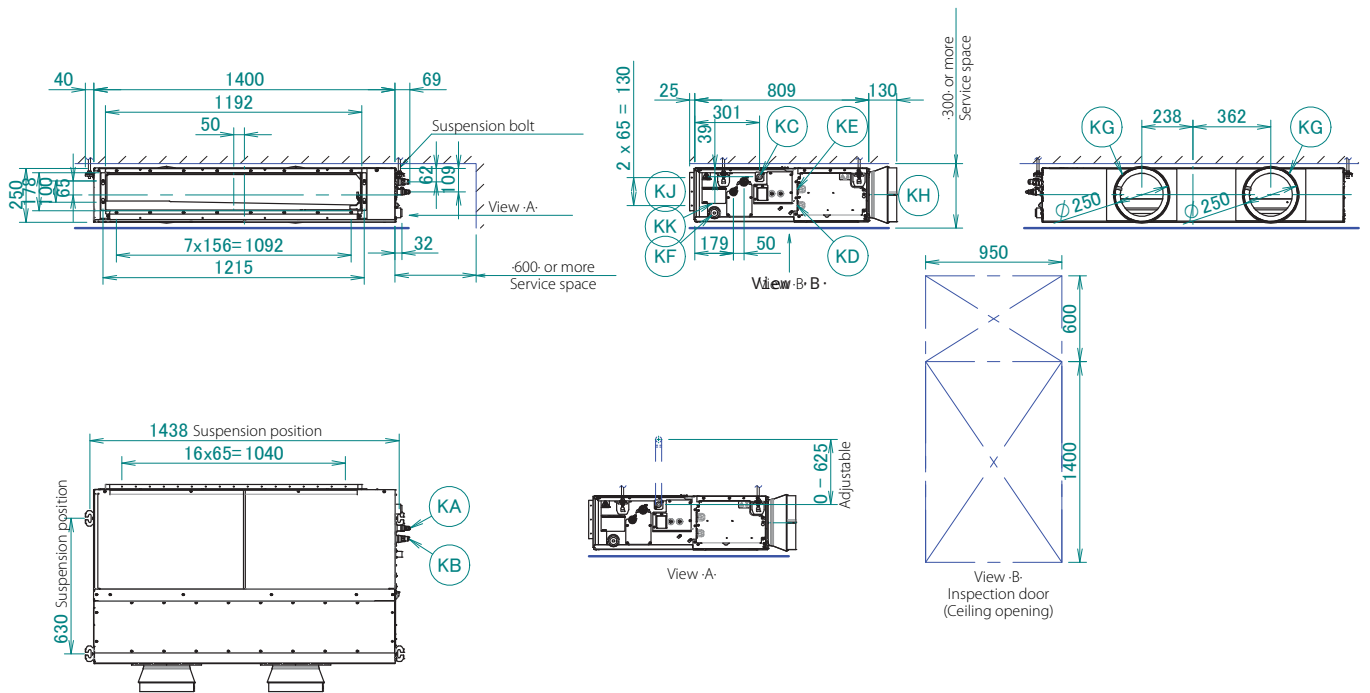
#### NOTES

1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. Mandatory in case of using R32-refrigerant

Item	Name	Description
KA	Liquid pipe connection port	-Ø9.52- flared connection
KB	Accessory pipe	-Ø6.35- flared connection
KC	Gas pipe connection port	-Ø15.90- flared connection
KD	Accessory pipe	-Ø12.70- flared connection
KE	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KF	Wiring connection	/
KG	Power supply connection	/
KH	Drain outlet	VP20 (OD Ø26, ID Ø20)
KJ	Air inlet flange	/
KK	Air suction side	/
KL	Air discharge side	/
KM	Nameplate	/

3D127969

### EKVDX100A



#### NOTES

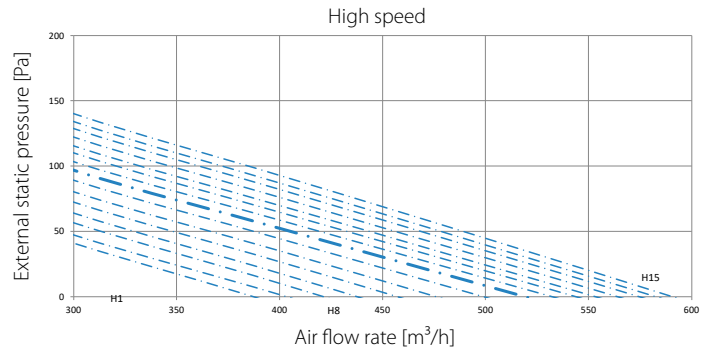
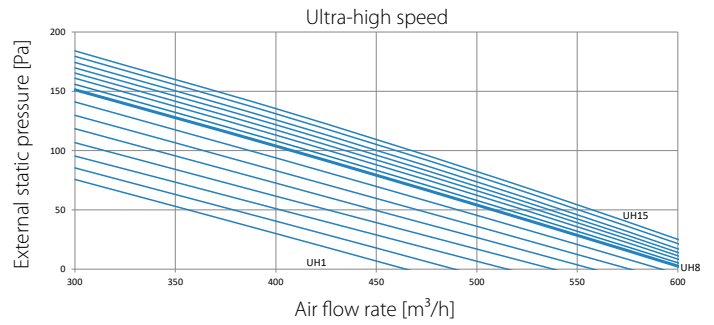
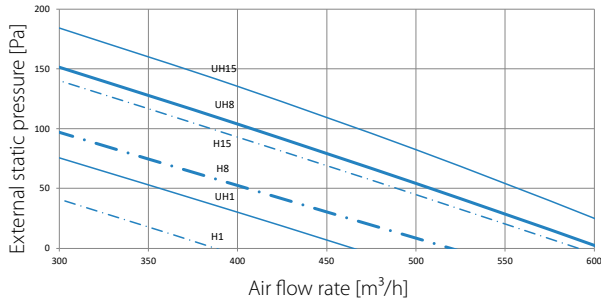
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

Item	Name	Description
KA	Liquid pipe connection port	-Ø9.52- flared connection
KB	Gas pipe connection port	-Ø15.90- flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air inlet flange	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

3D127970



## EKVDX32A



### LEGEND

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

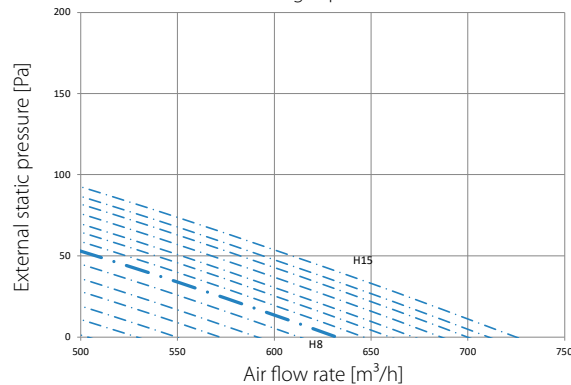
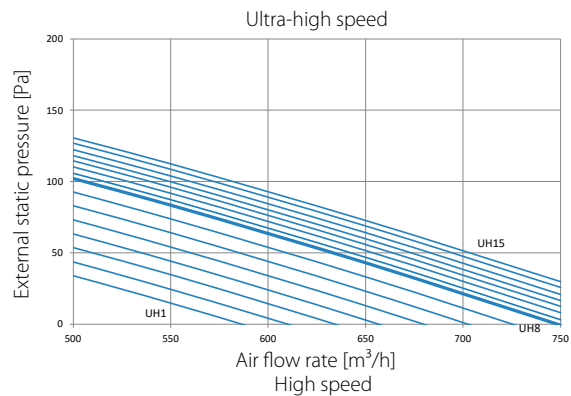
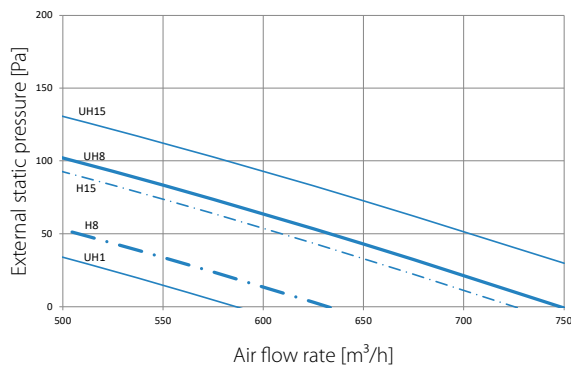
- Ultra-high speed
- - - High speed

### NOTES

1. The fan curves are determined with  $-1/3$  of the ESP on the outdoor side (EA & OA), and  $-2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the  $\Delta$ VAM airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.
3. Unit operation with R32 refrigerant is possible in the shaded area of the graphs, but the R32 safety alarm will be triggered if the system airflow drops within this area during operation. No selection in this area is allowed.
4. Measured according to JIS B 8628 - 2003.

3D138264

## EKVDX50A



### LEGEND

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

- Ultra-high speed
- - - High speed

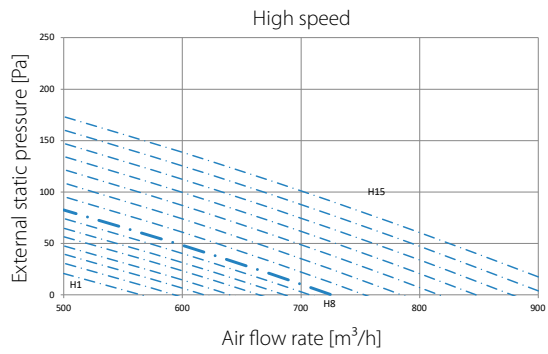
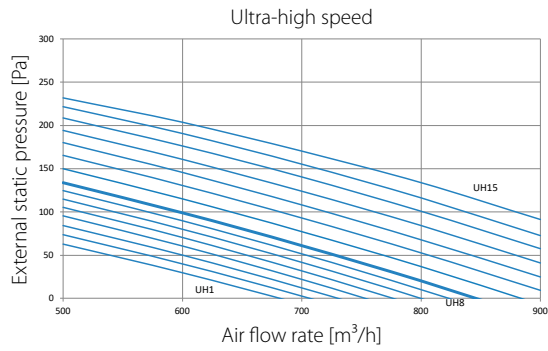
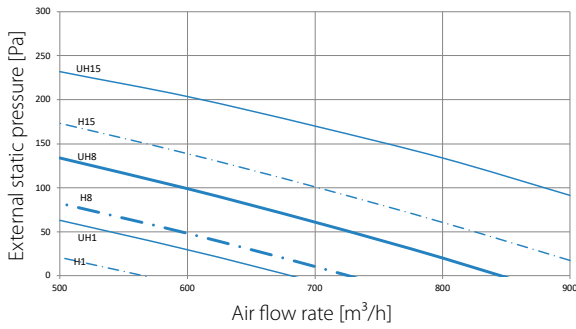
### NOTES

1. The fan curves are determined with  $-1/3$  of the ESP on the outdoor side (EA & OA), and  $-2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the  $\Delta$ VAM airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.
3. Measured according to JIS B 8628 - 2003.

3D138265



**EKVDX50A**



**LEGEND**

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

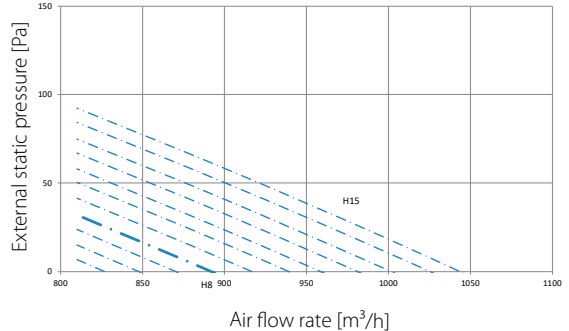
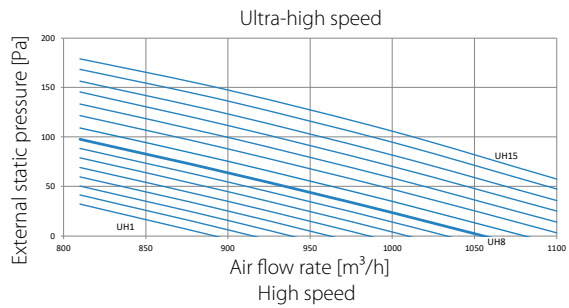
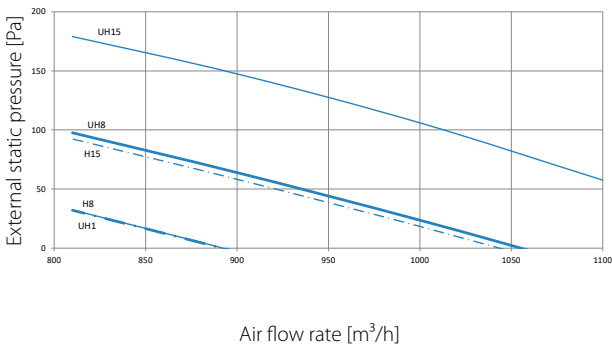
- Ultra-high speed
- · - · High speed

**NOTES**

1. The fan curves are determined with  $\cdot 1/3$  of the ESP on the outdoor side (EA & OA), and  $\cdot 2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the  $\cdot VAM$  airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
3. Measured according to JIS B 8628 - 2003.

**3D138266**

**EKVDX80A**



**LEGEND**

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

- Ultra-high speed
- · - · High speed

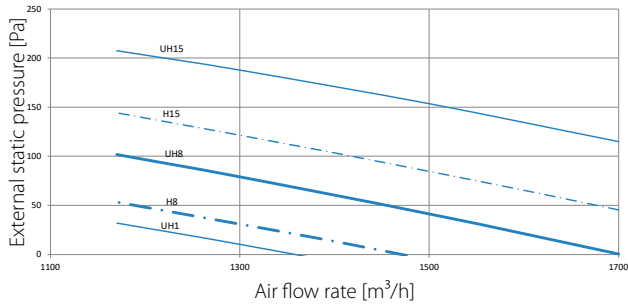
**NOTES**

1. The fan curves are determined with  $\cdot 1/3$  of the ESP on the outdoor side (EA & OA), and  $\cdot 2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
2. The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the  $\cdot VAM$  airflow is out of this range, the compressor of the outdoor unit may stop for self-protection purposes.
3. Measured according to JIS B 8628 - 2003.

**3D138267**



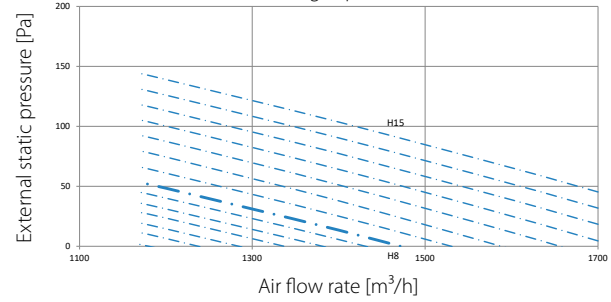
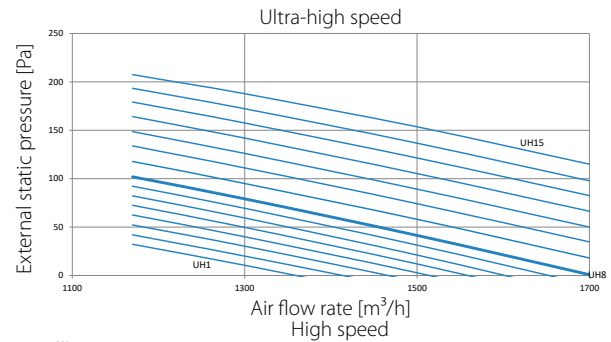
## EKVDX100A



### LEGEND

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

- Ultra-high speed
- - - High speed

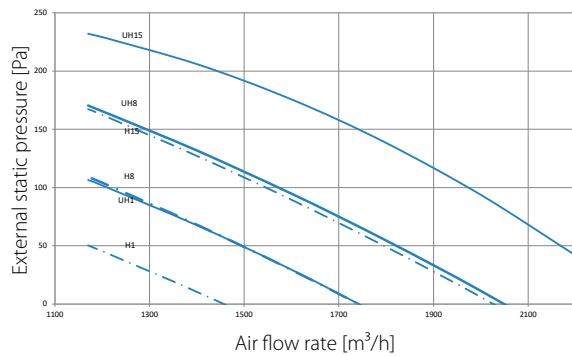


### NOTES

- The fan curves are determined with  $-1/3$  of the ESP on the outdoor side (EA & OA), and  $-2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
RA = Room air  
SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the  $\Delta VAM$  airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.
- Measured according to JIS B 8628 - 2003.

3D138268

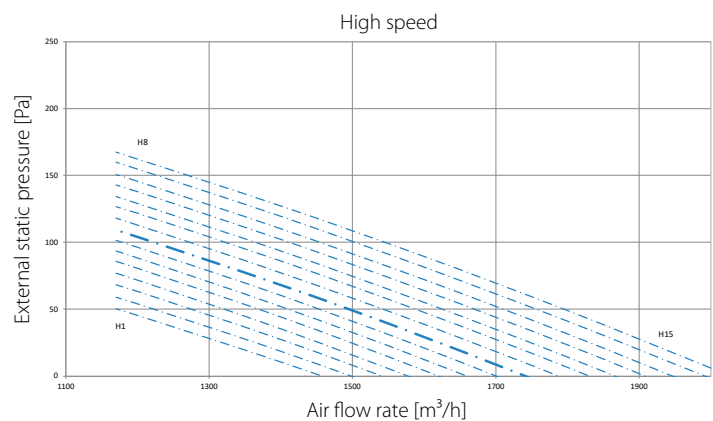
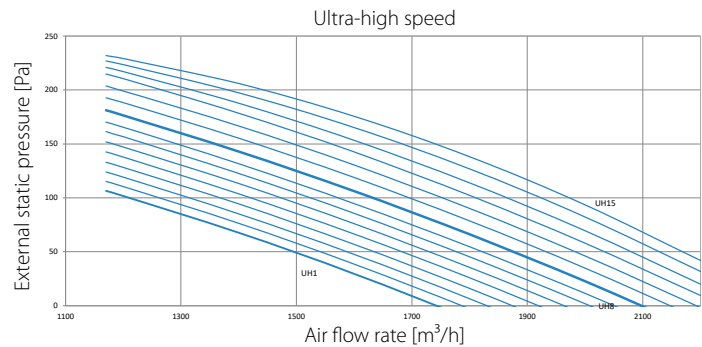
## EKVDX100A



### LEGEND

- H1 = High speed lower limit
- H8 = High speed factory setting
- H15 = High speed upper limit
- UH1 = Ultra-high speed lower limit
- UH8 = Ultra-high speed factory setting
- UH15 = Ultra-high speed upper limit

- Ultra-high speed
- - - High speed

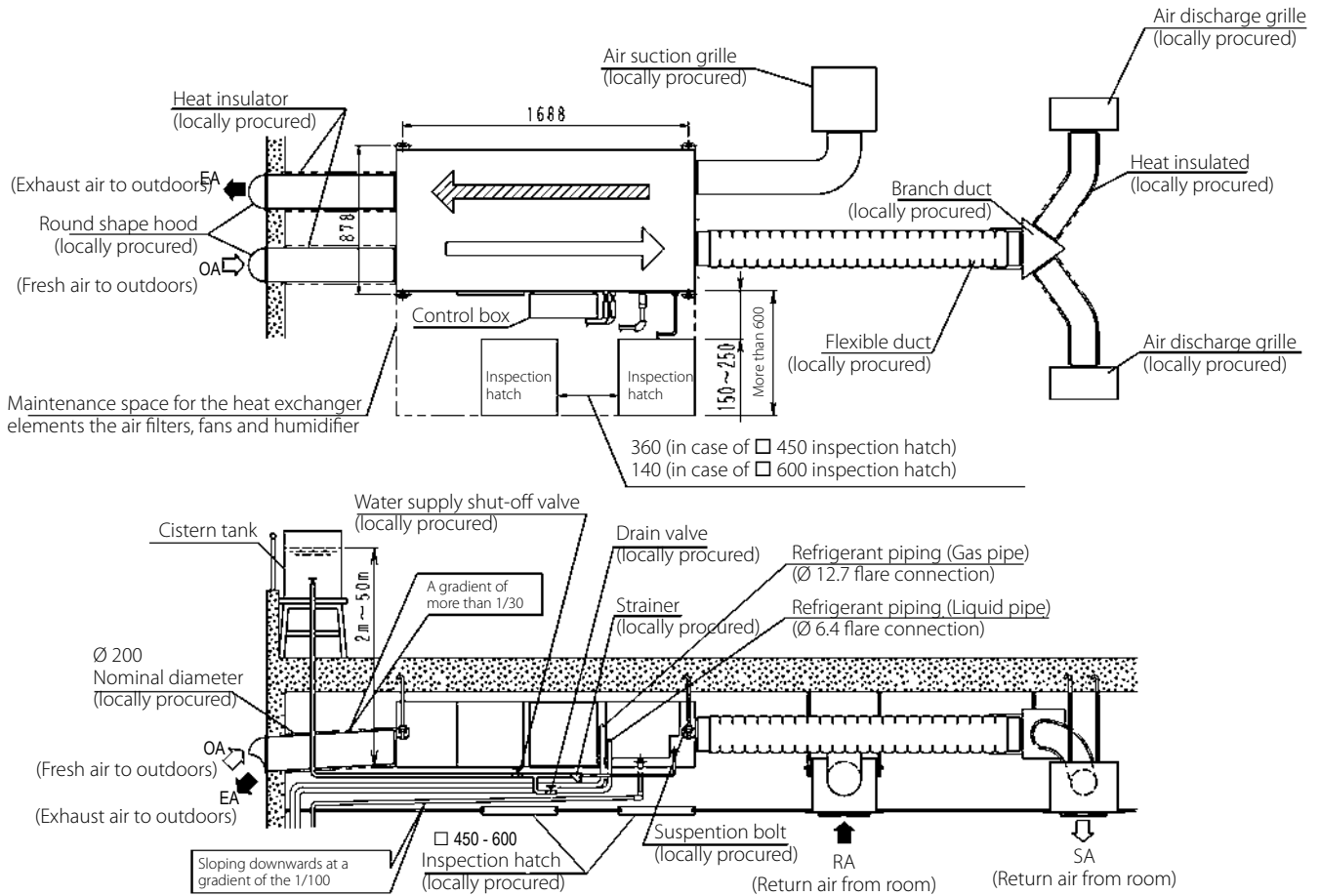


### NOTES

- The fan curves are determined with  $-1/3$  of the ESP on the outdoor side (EA & OA), and  $-2/3$  of the ESP on the indoor side (RA & SA).  
EA = Exhaust air  
OA = Outdoor air  
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SA = Supply air
- The designed airflow of the system at H and UH tap should be kept as shown in the graphs. If the  $\Delta VAM$  airflow is out of this range, the compressor of the outdoor unit may stop for selfprotection purposes.
- Measured according to JIS B 8628 - 2003.

3D138269

VKM50GBM

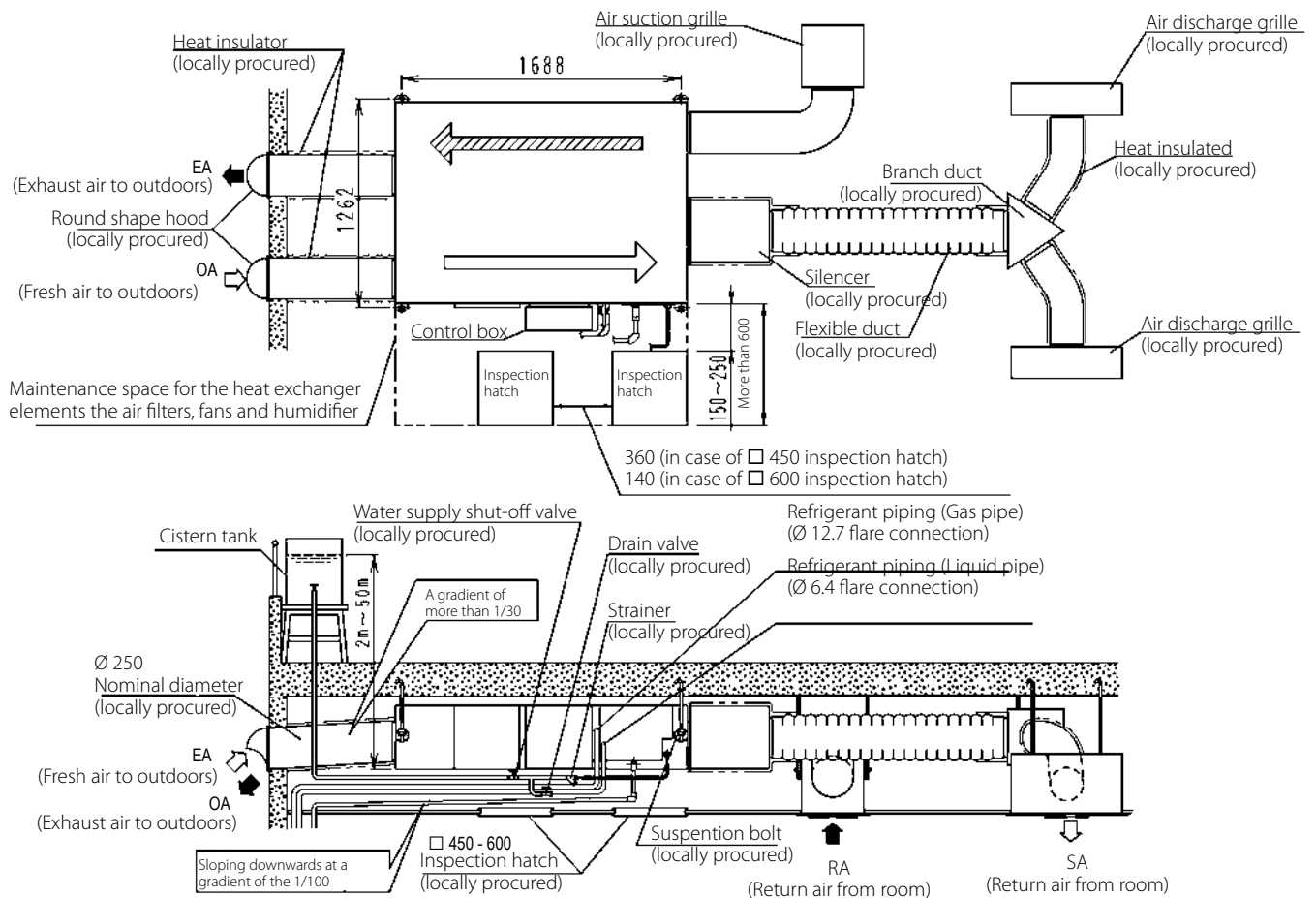


NOTES

1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
3. Do not turn the unit upside down.
4. Use city water or clean water.  
Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm<sup>2</sup> to 5 kg/cm<sup>2</sup>)
7. Make sure the supply water is between 5°C and 40°C in temperature.
8. Insulate the water supply piping to prevent condensation from forming.
9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
11. Install in a location where the air around the unit or taken into the humidifier will not drop below 0°C.
12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
13. In areas where freezing may occur, always take steps to prevent the pipes from freezing.
14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
15. Feed clean water. If the supply water is hard water, use a water softener because of short life.  
Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)



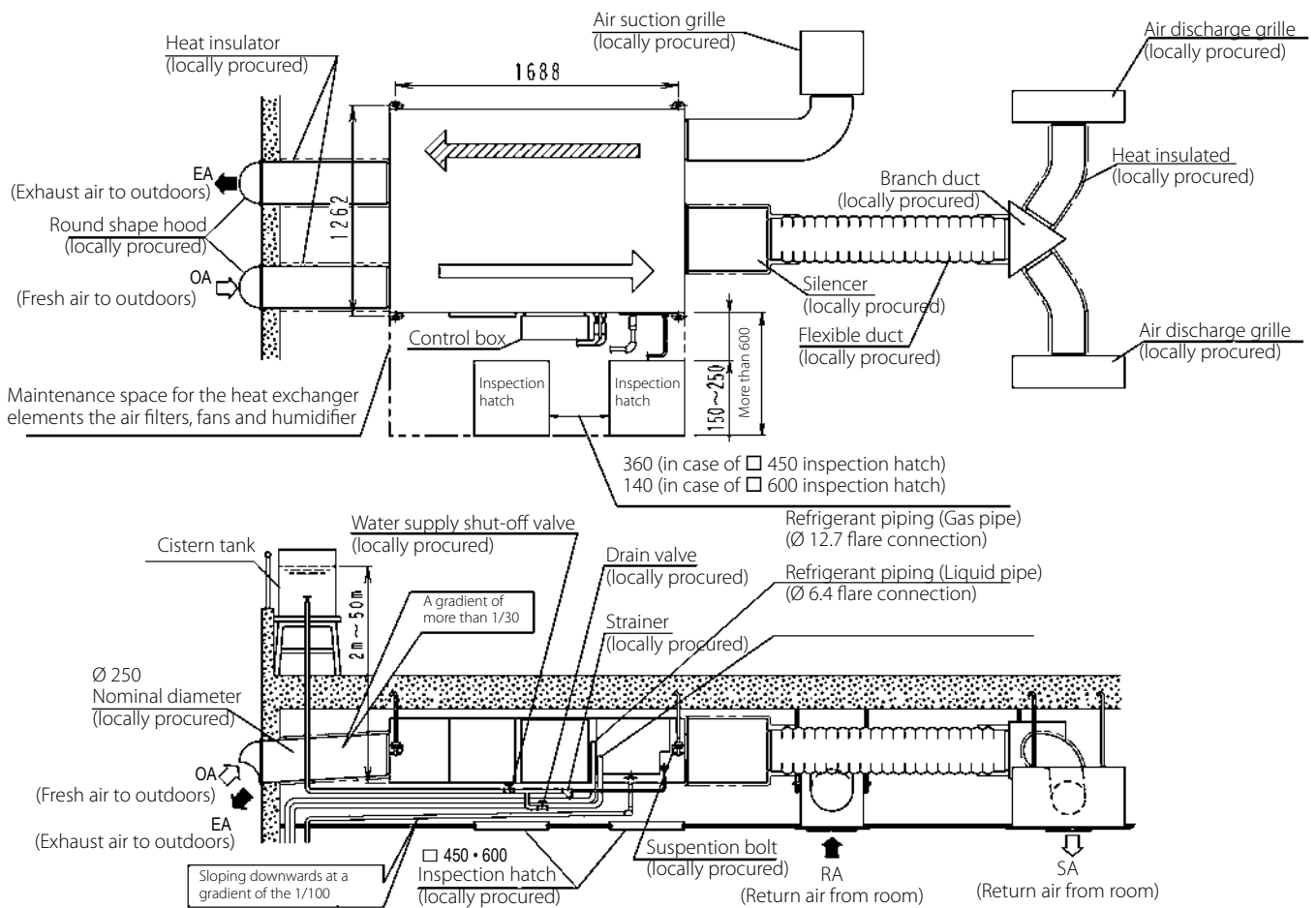
VKM80GBM



NOTES

1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters heat exchange elements, and fans can easily be inspected and serviced.)
2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water, also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
3. Do not turn the unit upside down.
4. Use city water or clean water.  
Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm<sup>2</sup> to 5 kg/cm<sup>2</sup>)
7. Make sure the supply water is between 5°C and 40°C in temperature.
8. Insulate the water supply piping to prevent condensation from forming.
9. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
11. Install in a location where the air around the unit or taken into the humidifier will not drop below 0°C.
12. Do not use a bent cap or a round hood as the outdoor hood if they might get rained on directly (we recommend using a deep hood) (optional accessory).
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14. Do not place something which shouldn't get wet at the below of this unit. The dew would fall at following case, where humidity is 80% more, or the exit of drain socket is choked up, or the air filter is very dirty.
15. Feed clean water. If the supply water is hard water, use a water softener because of short life.  
Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)

VKM100GBM

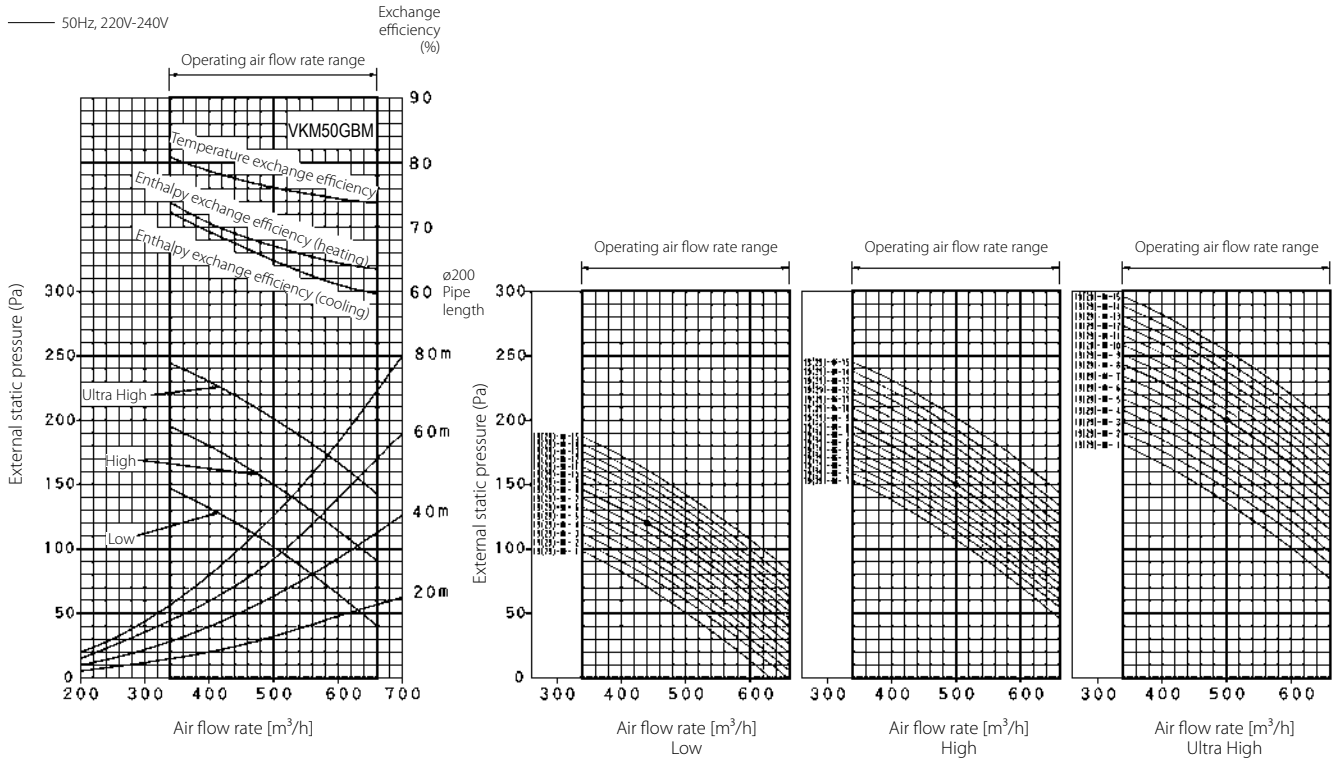


NOTES

1. Leave space for servicing the unit and include inspection hatch. (Always open a hole on the side of the control box so that the air filters, heat exchange elements, fans and humidifier elements can easily be inspected and serviced.)
2. Install the two outdoor ducts with down slope (slope of 1/30 or more) to prevent entry of rain water. Also, provide insulation for three ducts (outdoor ducts and indoor supply air duct) to prevent dew condensation. (Material: glass wool of 25mm thick)
3. Do not turn the unit upside down.
4. Use city water or clean water.  
Include water supply piping with strainer, a water supply shut-off valve, and a drain valve (both locally procured) somewhere along the water supply piping that can be reached from the inspection.
5. It is impossible to connect the water supply piping directly to public piping. Use a cistern tank (of the approved type), if you need to get your water supply from public piping.
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10. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
11. Install in a location where the air around the unit or taken into the humidifier will not drop below 0°C.
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15. Feed clean water. If the supply water is hard water, use a water softener because of short life.  
Life of humidifying element is about 3 years (4,000 hours), under the supply water conditions of hardness: 150 mg/L. (Life of humidifying element is about 1 years (1500 hours), under the supply water conditions of hardness: 400 mg/L.)



## VKM50GBM

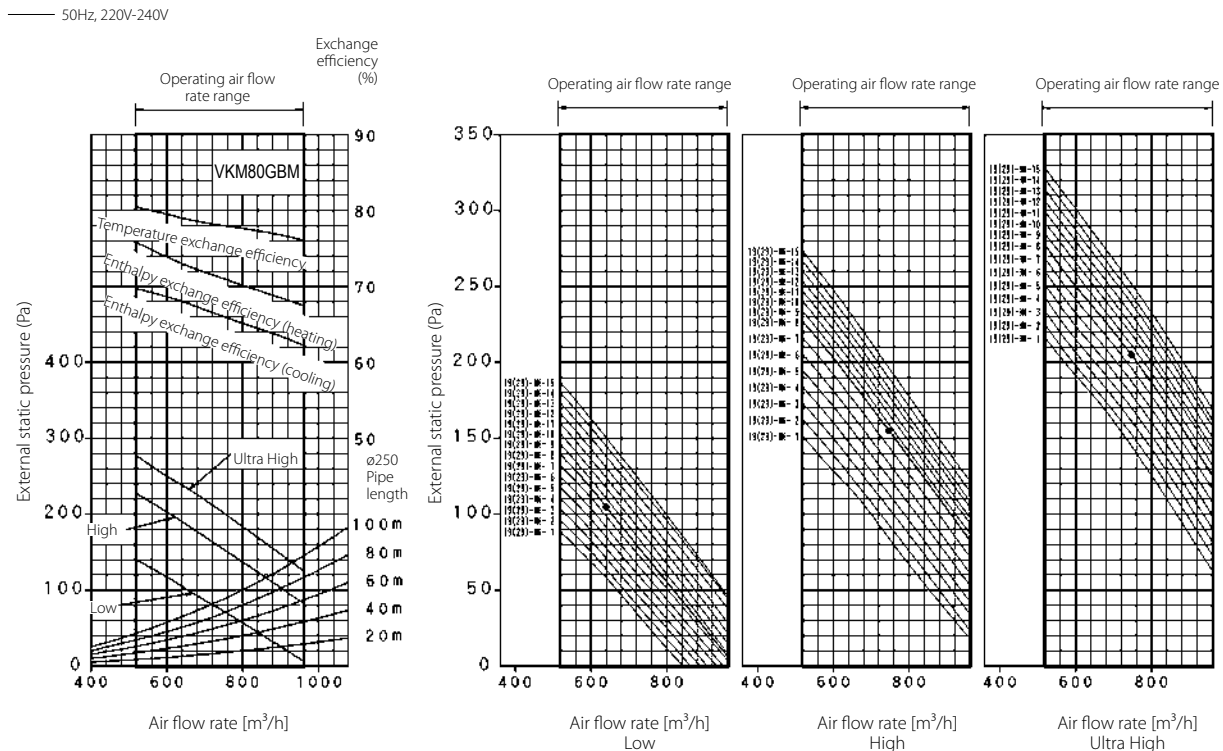


### [READING OF PERFORMANCE CHARACTERISTICS]

- For example: 19(29)-✕-07  
Mode no.: 19(29)  
First code: ✕ (Supply [2] Exhaust [3])  
Second code no.: 07
- Rated point: ●
- The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082901

## VKM80GBM



### [READING OF PERFORMANCE CHARACTERISTICS]

- For example: 19(29)-✕-07  
Mode no.: 19(29)  
First code: ✕ (Supply [2] Exhaust [3])  
Second code no.: 07
- Rated point: ●
- The characteristic of each tap becomes a setup of the characteristic of the same code number.

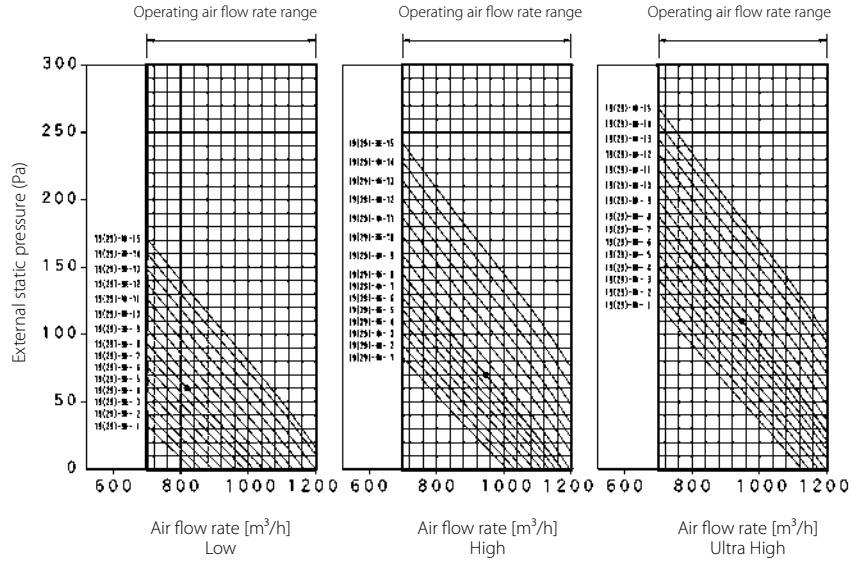
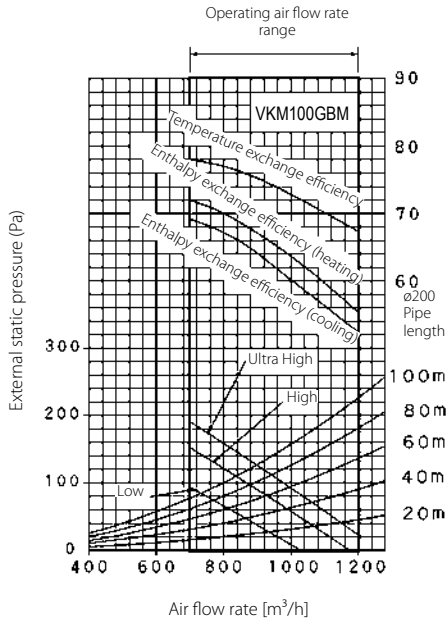
3D082902



VKM100GBM

— 50Hz, 220V-240V

Exchange efficiency (%)



[READING OF PERFORMANCE CHARACTERISTICS]

- For example: 19(29)-\*-07  
 Mode no.: 19(29)  
 First code: \* (Supply [2] Exhaust [3])  
 Second code no.: 07
- Rated point: ●
- The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082903

## Power supply

T1	=	3~, 220V, 50Hz
V1	=	1~, 220-240V, 50Hz
VE	=	1~, 220-240V/220V, 50Hz/60Hz*
V3	=	1~, 230V, 50Hz
VM	=	1~, 220~240V/220~230V, 50Hz/60Hz
W1	=	3N~, 400V, 50Hz
Y1	=	3~, 400V, 50Hz

\* For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.

## Conversion table refrigerant piping

inch	mm
1/4"	6.4 mm
3/8"	9.5 mm
1/2"	12.7 mm
5/8"	15.9 mm
3/4"	19.1 mm
7/8"	22.2 mm
1 1/8"	28.5 mm
1 3/8"	34.9 mm
1 5/8"	41.3 mm
1 3/4"	44.5 mm
2"	50.8 mm
2 1/8"	54 mm
2 5/8"	66.7 mm

## F-gas regulation

Any refrigeration system that contains fluorinated greenhouse gases is in scope of the F-gas regulations.

For fully/partially pre-charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels and in the notes underneath the specification tables in this catalogue.

For non pre-charged equipment (including, but not limited to racks): its functioning relies on fluorinated greenhouse gases.

The F-gas regulations do not apply to systems that contain only natural refrigerants such as propane or carbon dioxide.

## Measuring conditions

### Air conditioning

1) Nominal cooling capacities are based on:	
Indoor temperature	27°CDB/19°CWB
Outdoor temperature	35°CDB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m
2) Nominal heating capacities are based on:	
Indoor temperature	20°CDB
Outdoor temperature	7°CDB/6°CWB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m

### Refrigeration

ZEAS	Chilling	Evaporating temp. -10°C; outdoor temp. 32°C; Suction SH10°C
	Freezing	Evaporating temp. -35°C; outdoor temp. 32°C; Suction SH10°C
Conveni-Pack	Mix Air conditioning and refrigeration operating mode	Indoor temp. 27°CDB/19°CWB; outdoor temp. 32°CDB; piping length:7.5m; level difference: 0m; refrigeration side: Evaporating temp. -10°C; outdoor temp. 32°CDB; Suction SH: 10°C
	Mix heating and refrigeration operating mode (Heating recovery 100% mode)	Indoor temp. 20°C; outdoor temp. 7°CDB,6°CWB; advertised refrigerant load (Evaporating temp. -10°C; Suction SH: 10°C); piping length:7.5m; level difference: 0m
Booster unit		Evaporating temp. -35°C; outdoor temp. 32°C; suction SH 10K; saturated temp. to discharge pressure of booster unit -10°C
CCU/SCU	Medium temperature application	Medium temperature application: Outside ambient temp. 32°C; Evaporating temp. = -10°C and 10K superheat;
	Low temperature application	Low temperature application: Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature
Zanotti	Uni-Block, Bi-Block, Wineblock	High temperature: When normally running : +10°C / +30°C Medium temperature: When normally running : 0°C / 30°C Low temperature: When normally running : -20°C / +30°C
	CU (one , twin, and more compressor(s))	Medium temperature: Outside ambient temp. 32°C; Evaporating temp. = -10°C and 20°C suction gas temperature Low temperature: Outside ambient temp. 32°C; Evaporating temp. = -35°C and 20°C suction gas temperature

### Applied systems

Air cooled	Cooling only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump	Evaporator: 12°C/7°C Condenser: 40°C/45°C	Ambient: 35°C Ambient: 7°CDB/6°CWB
Water cooled	Cooling only		Evaporator: 12°C/7°C Condenser: 30°C/35°C
	Heating only		Evaporator: 12°C/7°C Condenser: 40°C/45°C
Condenserless chiller			Evaporator: 12°C/7°C Condensing temperature: 45°C / liquid temperature: 40°C
Fan coil units	Cooling		Indoor temperature 27°CDB, 19°CWB; entering water temperature 7°C, water temperature rise 5K
	Heating	2-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 45°C, water temperature drop 5K
		4-pipe	Indoor temperature 20°CDB, 15°CWB; entering water temperature 65°C, water temperature drop 10K
Air Handling Units	Temperature and humidity conditions: Extract air 22°C / 50%; Fresh air -10°C / 90%		

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks). The sound power level is an absolute value indicating the "power" which a sound source generates. For more detailed information please consult our technical databooks.



# Meet our superhero: VRV 5 heat recovery



The next-generation climate control solution, purpose-built to support the decarbonisation of buildings.

**The new VRV 5 Heat Recovery system has dynamic superpowers that ensure maximum comfort and flexibility while significantly reducing a building's environmental footprint.**

**Stretch:** With the widest range of indoor and outdoor units on the market and great piping flexibility, VRV 5 Heat Recovery suits any commercial building – and can be installed practically anywhere, thanks to its low sound levels and high ESP.

**Shirudo Technology:** Thanks to built-in Shirudo Technology, VRV 5 Heat Recovery offers maximum flexibility out of the box. With all measures factory-integrated, the technology takes complete care of small room applications in your buildings, without any additional considerations, field supplied equipment or time-consuming studies.

**Sustainability:** VRV 5 Heat Recovery is more sustainable over its lifecycle, reducing indirect emissions through market-leading seasonal efficiency and highly effective 3-pipe heat recovery. Built specifically for R-32 refrigerant, it reduces Global Warming Potential (GWP) by 71% compared to R-410A systems.

**Smart:** VRV 5 Heat Recovery is geared for smart comfort. Variable Refrigerant Temperature allows the system to be fully customised to the customer's requirements, ensuring maximum energy efficiency.

**Support:** Never fear, support is always here for you and your clients. We offer total flexibility and peace of mind from design and specification all the way through to remote monitoring and proactive system maintenance.

Learn more by visiting [www.daikin.co.uk/vrv5hr](http://www.daikin.co.uk/vrv5hr)

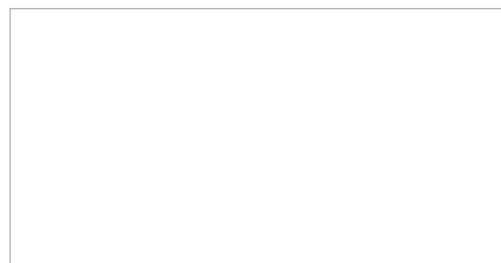


**VRV 5**

**BLUEEVOLUTION**



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