





Advantages

With this interactive PDF we want to ensure you quickly find back the information you are looking for. Within this catalogue or via direct links to our business portal.

Focus on your business, we are here to help you.

We need your feedback

Fill out 5 simple questions to help us improve this catalogue. We 've put these questions on an online link, so we can easily process all surveys continuously.

TAKE THE ONLINE SURVEY »

Navigation

Sidebar links

The different chapters in the catalogue are shown at the side. You will be taken directly to the index page of the with a single click.

All page numbers clickable

Click any page number you see and you will go directly to the page.

VRV, a total commercial solution

Drastically reducing your running costs Top reliability Up to 6 times greater resistance against corrosion



Links to technical documentation

On the pages with technical drawings you can click the button above to get access to all technical drawings available for the product

VIEW ALL TECHNICAL DRAWINGS ON MY.DAIKIN.EU

Click to go back



Technology and Innovation Center

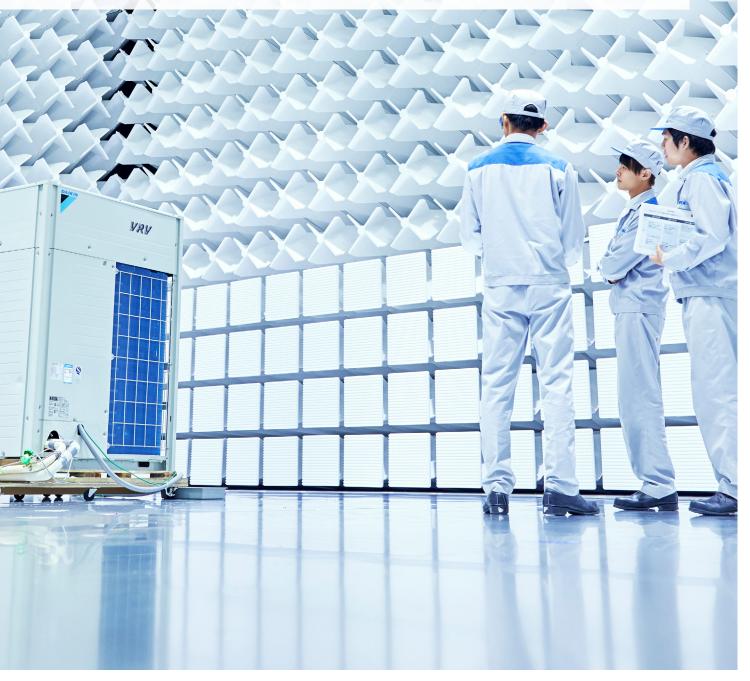
Creating value from the world's best technologies

The Technology and Innovation Center (TIC) aims to create new value based on the world's best technologies and highly differentiated products.

For this reason, people of diverse backgrounds gather across national borders from inside and outside the company to consolidate their strengths and, realizing collaborative innovation.

TIC has the latest generation of advanced, large capacity testrooms, enabling us to test larger systems and more precize then any other manufacturer, providing the most credible data to market.

You know when buying a Daikin unit it has been checked and tested like no other.



VRV

The solution for any commercial application, no matter the size.

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9 reasons why VRV is unique in the market



- > Variable Refrigerant Temperature for high seasonal efficiency
- NEW > Round flow cassette and concealed ceiling units with auto cleaning filter
 - > The best partner for your "green" project
 - A team of AP's across Europe who are there to help you
 - Daikin is the first HVAC-R manufacturer to achieve BES6001 certificates gaining additional BREEAM credits

2 Best comfort

- > Variable Refrigerant Temperature preventing cold draughts thanks to high outblow temperatures
- > True continuous heating during defrost
- > Low sound indoor and outdoor units
- > Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
- > Round flow cassette and concealed ceiling units with auto cleaning filter ensure optimum air quality

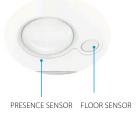




Check ongoing validity of certificate:









3 Top reliability

- > True technical cooling
- > Refrigerant cooled PCB
- > Most extensive testing before new units leave the factory
- > Widest support network and after sales service
- > All spare parts available in Europe
- > Preventive maintenance via i-Net
- > Round flow cassette and concealed ceiling units with auto cleaning filter further enhance reliability by extending smooth and trouble free operation due to clean air-filters

4 Stylish design products

- > Fully flat cassette, fully integrated in the ceiling
- > Daikin Emura, unique iconic design



DAIKIN EMURA



Market leading controls

NEW

A new, sleek wired controller designed to enhance the user experience



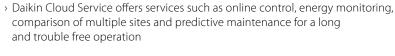




BRC1H51(9)W



- > 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, ...









Unique installation benefits

- > Automatic refrigerant charge and refrigerant containment check
- > 4-way blow ceiling suspended cassette (FXUQ)
- > Plug & play Daikin Air Handling Unit
- > Total solution including low and high temperature hydro box, Biddle air curtains
- > 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





seament displa



Inventor and market leader of VRV systems since 1982

- > Over 90 years of expertise in heat pump technology
- > Designed for and produced in Europe



- Unique outdoor unit range, with dedicated series for every application and climate conditions in design
- **VRV IV technologies**

Variable refrigerant temperature

- > 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)





Continuous heating

Real continuous heating providing heating even during defrost

- > Continuous indoor comfort ensured by the heat accumulating element or alternate defrost
- > An innovative alternative to traditional heating systems, enabling heat pumps to be used as monovalent heating source systems



Heat pump Heat recovery Replacement Water cooled

YRY IV

VRV configurator

Software for simplified commissioning, configuration and customisation

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

The VRV air conditioning system is the world's first individual air conditioning system with variable refrigerant flow control and was commercialised by Daikin in 1982. VRV is the trademark of Dakin Industries Ltd, which is derived from the technology we call "variable refrigerant volume". BREEAM is a registered trademark of BRE (the Building Research Establishment Ltd. Community Trade Mark E5778551). The BREEAM marks, logos and symbols are the Copyright of BRE and are reproduced by permission

In the spotlight

BIM: Building Information Modelling

What is BIM?

BIM is an intelligent model-based process that provides insight to help you plan, design, construct and manage buildings and infrastructure

Collaboration and clash control

BIM uses a 3D model to provide the right information, to the right people, at the right time. This process improves efficiency throughout the design and building phases and increases savings by discovering clashes during the design phase, rather than later on during the building phase.

Find out more at www.daikin.eu/BIM

Daikin and BIM – putting you ahead of competition

Daikin is amongst the first manufactureres to provide a full library of BIM objects for it's VRV products.

- ☑ Installers get an edge over competition where customers demand for BIM to be used
- Consultants have direct access to the base data through the objects, to design the system and see how our solutions can fit your project
- Customers have easy access to latest relevant information needed to maintain and manage the installation.



Green building solutions

Today's challenges

- ✓ In the near future the majority of new building projects in Europe are expected to be green
- 93% percent of developers & investors consider green certification important

Daikin: the best partner for your green project

- We have a team of accredited professionals (AP's) at your service that support you and your customer throughout the project
- Daikin offers solutions that maximise your BREEAM, LEED and WELL scores with heat recovery, Variable Refrigerant Temperature and i-Net.
- ☑ Daikin has successfully participated in many green and sustainable projects across Europe

BREEAM®



Case: Velocity, UK

☑ Energy performace certificate B

✓ VRV heat recovery ensures an energy cost of less than 9 euro/m³ compared to a typical cost of 29 euro/m³



User-friendly wired remote contoller with premium design

















Field settings

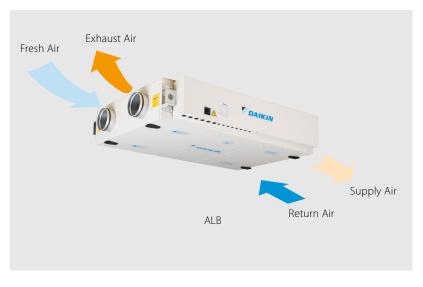
BRC1H51W/S/K

- ✓ Sleek and elegant design
- ✓ Intuitive touch button control
- ✓ 3 color versions
- Advanced settings and monitoring can be easily done via your smartphone
- ✓ Flat back for easy wall installation
- ✓ Compact to fit standard size socket boxes

Modular L: Premium efficiency heat recovery fresh air unit

Highlights

- ✓ 6 Predefined sizes
- ✓ Compliant with VDI 6022
- ☑ Exceeding ERP 2018 requirement
- ✓ Plug & Play Controls
- ☑ Best choice when Compactness is needed (only 280 mm height up to 550 m3/h)
- ☑ Easy installation and commissioning



Innovative outdoor units



VRV I - series

The "invisible" VRV IV heat pump

You can install highly efficient, reliable Daikin air conditioning systems in the most demanding locations while remaining invisible from street level.

Invisible

- ✓ Only the grilles are visible
- Seamless integration into surrounding architecture

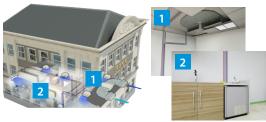
Intelligent

- Patented V-shape heat exchanger for the most compact unit ever
- ☑ Connectable to all VRV indoor units
- Total solution when combined with ventilation units, controls and Biddle air curtains

Intuitive

- ✓ Total flexibility as the outdoor unit is split up in 2 parts
- ☑ Easy and quick to transport and install
- Easy servicability, all components can be easily reached
- Compact and lightweight heat exchanger unit for quick installation without the use of lifting equipment







Split outdoor unit system:

- 1 heat exchanger unit installed in false ceiling
- 2 compressor unit installed in kitchen

INV IV W series

Air-to-water VRV

The new VRV IV W+ series brings a whole new range of features to increase your flexibility and make commissioning easier.

More flexibility

- Mixed connection of hydroboxes and VRV indoor units
- Connects to VRV or stylish indoor units such as Daikin Emura, Nexura, ...
- ightharpoonup Most compact casing in the market
- ✓ No heat dissipation allows installation in nonventilated indoor spaces

Unique zero heat dissipation principle



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

More capacity

☑ Up to 72% increased capacity (!) per model thanks to new compressor and larger heat exchanger, enabling design of smaller systems

Easier commissioning & servicing

- ☑ 3 digit, 7 segment display
- 5 output signals allowing external control of
 - ON-OFF (e.g. compressor)
 - Operation mode (cooling / heating)
 - Limit of capacity
 - Error signal
- Rotating switchbox



8 to 14 HP



16 to 28 HP











Most compact footprint in the market

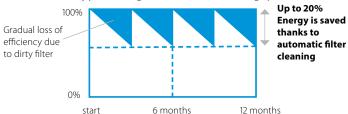
Extension of the range: from 8 up to 42 HP



Reduce running costs

 Automatic filter cleaning ensures high efficiencies and low maintenance costs because the filter is always clean

Efficiency profile change for duct indoor unit during operation



Minimal time required for filter cleaning

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

Unique technology

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



Improved indoor air quality

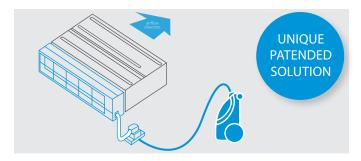
> Optimum airflow eliminates draft and insulates sound

Improved reliability

> Minimizes risks of system down due to dirty filters, extending long and trouble free operation

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



Concealed ceiling units

- > Ideal for hotels and residential applications
- > Cleaning team /owner can clean the filter



Round flow cassette

- > Ideal for retail
- > Staff/owner can clean the filter
- > No need to use a ladder to reach the unit

Combination table

	Split / Sky Air			VRV							
		FDXM-F3		FXDC		(DQ-/	A3				
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•

	Sky	VRV	
	FCAG-A	FCAHG-G	FXFQ-A
BYCQ140DG9	•	•	•
BYCQ140DGF9 (fine mesh)	•	•	•

Which VRV

system offers me the best solution?

Heat recovery or heat pump?

VRV Heat recovery

Additional credits for green building certificate



Extracted heat is used to deliver free hot water and heating









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

Components:



Outdoor unit



Indoor unit



3-pipe refrigerant piping



Single and multi 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:



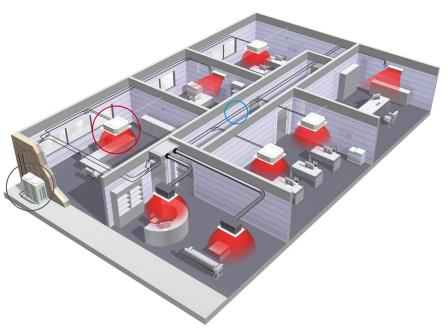
Outdoor unit



Indoor unit



2-pipe refrigerant piping



North

^{*} 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:







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
- > Reduce CO₂ emmisions 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:



Indoor unit



Refrigerant piping



Outdoor unit



(Geothermal) water loop



Which applications?



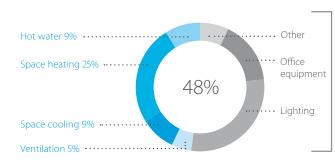
Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result, energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into a total solution managing up to 70% of a building's energy consumption giving large potential to cost saving.

- > **Heating and cooling** for year round comfort
- > Hot water for efficient production of hot water
- Underfloor heating /cooling
 for efficient space heating/cooling
- > **Ventilation** for high quality environments
- > Air curtains for optimum air separation
- > Controls for maximum operating efficiency
- > **Cooling** for server rooms, telecom shelters, ... in extreme conditions down to -20°C (via VRV heat recovery of Sky Air)
- > **Refrigeration** via our VRV based refrigeration units

Combine up to 70% of your building's energy consumption

Average hotel energy consumption

Average office energy consumption



Integrate third party equipment

One system,

multiple applications for hotels, offices, retail, home ...

Heating and cooling



- > Combine VRV indoor units with other stylish indoor units in one system
- > New round flow cassette sets the standard for efficiency and comfort
- > Extensive range of models and capacities for optimal selection

Intelligent control systems



- > Mini BMS which connects Daikin and third-party equipment
- > Integrate intelligent control solutions with energy management tools to reduce running costs

Low-temperature hydrobox



- > Highly efficient space heating through:
 - Underfloor heating
 - Low temperature radiators
- AHU water heat exchangers
- > Hot water from 25 °C to 45 °C
- > Cold water from +5°C to +20°C

Biddle air curtain



- > Payback time less than 1.5 years compared to electrical air curtain
- > A highly efficient solution for doorway climate separation

High temperature hydrobox



- > Efficient hot water production for:
 - Showers
 - Sinks
- Tapwater for cleaning
- $^{>}$ Hot water from 25 °C to 80 °C
- NEW > Connectable to VRV heat recovery and Water - cooled VRV

Ventilation



- > Widest range in DX ventilation from small heat recovery ventilation to large scale air handling units
- > Provides a fresh, healthy and comfortable environment





VRV for offices and banks

Efficiency in the workplace



Efficient building and facilities management are key to minimising operational costs

Our solutions for offices:

- Significantly reduced costs for hot water and heating by re-using heat recovered from areas requiring cooling
- Unique cassette integrating fully flat into architectural ceilings
- > Intelligent sensors
- maximise efficiency by raising the indoor set point or switching off the unit if there is nobody in the room
- maximise comfort by directing the air flow away from people to avoid cold draughts
- A complete Daikin mini Building Energy Management System (BEMS), with the Intelligent Touch Manager
- > Plug & play connection to air handling units for a healthier office atmosphere
- Hot water production for sanitary use (e.g. kitchens) and space heating (e.g. underfloor loops)
- > Truly reliable technical cooling down to -20°C, including duty rotation/standby function





VRV for hotels

Hospitality with economy



A hotel's reputation depends on how welcome and comfortable guests feel during their stay. Yet at the same time, hotel owners must maintain complete control of their operating costs and energy consumption.

Our solutions for hotels:

- > Low cost heating and hot water by recovering heat from areas requiring cooling
- The perfect personal environment for guests by simultaneously heating spaces while cooling others
- > Flexible installation: the outdoor unit can be installed outdoors to maximise hospitality space or indoors in minimize outdoor noise or in case of outdoor space constraints
- Concealed ceiling units developed for small, wellinsulated rooms such as hotel bedrooms, offering very low sound levels ensuring a good night's rest
- Smart energy management via Intelligent Touch Manager puts the hotel owner in full control of energy costs
- > Intelligent and user-friendly hotel room controllers change the set point automatically when a guest leaves the room or opens the window
- > Easy integration in hotel booking software
- Hot water production for bathrooms, underfloor heating and radiators up to 80°C

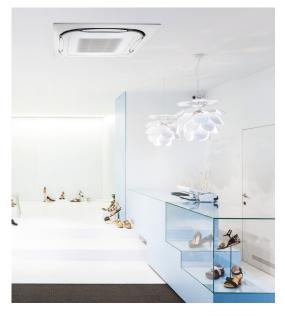


Hotel



Bank / Retail







VRV for retail

Reducing retail costs



VRV for residential use

There is no place like home



Want to know more about our commercial solutions?



Retailers are under pressure to reduce both store development costs and running costs. That is why affordable, energy-efficient solutions are vital for minimising lifetime costs, while ensuring compliance with the latest regulations.

Our retail solutions:

- > Compact inverter heat pump technology
- > Flexible installation: the outdoor unit can be installed outdoors to maximise commercial space or indoors to minimise external space or noise in city centres.
- > Unique round flow cassettes with autocleaning panel saving up to 50% of energy use compared to standard cassette units
- Intuitive touch screen intelligent Tablet Controller allowing multi site control via the Daikin Cloud Service
- > Easy to use remote control with lock-key function to avoid improper use
- > Individual control of each indoor unit or shop zone
- > Savings on running cost via pre/post trade modes, limiting energy use by lights, air conditioning, ...
- > The most efficient open-door solution with Biddle air curtains

A cost effective, low energy consumption heat pump system for home owners, offering maximum comfort

Our residential solutions:

- Lower CO₂ emissions compared to traditional heating systems
- > Compact outdoor unit design with a low sound level
- > Whisper-quiet indoor units down to 19dBA
- > Daikin Emura; iconic design wall mounted unit
- Unique Nexura floor standing unit offering the feel of a radiator with the efficiency of a heat pump
- > Units to be concealed in the wall or ceiling to make them completely unnoticed
- > User-friendly, intuitive touch control, controlling your entire shop including lights, sensors, ...
- Manage and control multiple shops from a central location via the Daikin Cloud Service
- > Up to 9 indoor units that can be connected to one outdoor unit

You Tube www.youtube.com/

DaikinEurope

Residential





VRV IV =

3 revolutionary standards

- > Variable Refrigerant Temperature
- Continuous comfort during defrost
- > VRV configurator

+ unique VRV IV core technologies

- > Newly developed inverter compressor
- > Refrigerant-cooled PCB
- > 4-side heat exchanger
- > Predictive control
- > Outer rotor DC fan motor

Unique variable refrigerant

temperature



The biggest leap since the inverter compressor

Thanks to its revolutionary variable refrigerant temperature technology (VRT), VRV IV 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)

How does it work?

VRF standard

Capacity is controlled only with the variation of the inverter compressor

Daikin VRV IV

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

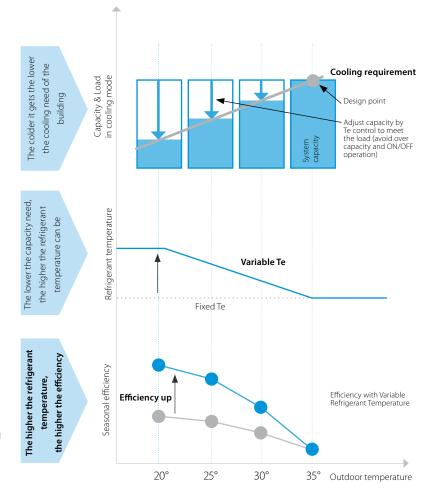
The capacity is controlled by the inverter compressor and variation of the evaporating (Te) and condensing (Tc) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

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



Calculate the benefit of variable refrigerant temperature for your project in our seasonal solutions calculator:

http://extranet.daikineurope.com/en/software/downloads/solutions-seasonal-simulator/default.jsp



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%.

How effective is the VRV IV heat pump technology?

The trial demonstrated that by using air, an infinitely renewable and free energy source, the VRV IV system provides a complete and environmentally sustainable solution for heating, cooling and ventilation in commercial applications. The trial also showed that only by monitoring climate control systems carefully and intelligently businesses can identify and control energy waste. **Contact Daikin for more infomation about monitoring services.**

8 Different modes to maximise efficiency and comfort

For maximum energy efficiency and customer satisfaction, the outdoor unit needs to adapt the evaporating/condensing temperature at the optimum point for the application.





How to set the different modes?

Set up the main operation mode of the system

Define how the system reacts to changing loads



of the system	to changing loads	
Step 1	Step 2	
Automatic* Evaporating AND condensing temperature automatically selected according to ambient temperature Quick reaction speed Top efficiency	Powerful	Where a quick increase of load is expected such as conference rooms. Quick reaction speed to changing load has priority, with temporarily colder outblow as a result.
Quick reaction specu	Quick	Same as above but slower response than the powerful mode.
The perfect balance: Achieves top efficiency throughout the year, reacts quickly on the hottest days	Mild *	This mode would be suitable for most office applications and it is the factory set mode. The perfect balance: Slower reaction speed with top efficiency
High sensible Target Te can be selected between 7°Cto 11°C	Powerful	Gives customer choice for fixing coil temperature which avoids cold draughts. A quick reaction speed to changing load has priority, with temporarily colder outblow as a result.
Quick reaction speed Top efficiency	Quick	Same as above but slower response.
	Mild	The air off temperature remains fairly constant. Suitable for low ceiling rooms.
Year round top efficiency	Eco	Coil temperature would not change due to fluctuating load. Suitable for computer or low ceiling rooms.
Basic Current VRF standard	No submodes	This is how most other VRF systems work and can be used for all general type of applications.

^{*} Factory setting

	VRV III 20HP (2 modules)	VRV IV 18HP (1 module)	
Period	March 2012 - February 2013	March 2013 - February 2014	
Avg (kWh/Month)	2.797	1.502	
Total (KWh)	33.562	18.023	
Total (€)	6.041	3.244	
Yearly (operation cost/m² (€/m²)	9,9	5,3	
	46% savings = € 2.797		

Measured data

Fashion store Unterhaching (Germany)

- > Floor space: 607m²
- > 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.

Real continuous heating

during defrost mode

VRV IV 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.

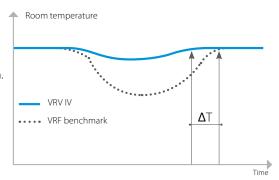
- Continuous indoor comfort ensured by the heat accumulating element and alternate defrost
- An innovative alternative to traditional heating systems





Heat pumps are known for their high energy efficiency in heating, but frost is accumulated on their heat exchanger during heating operation and this must be melted periodically using a defrost function that reverses the refrigeration cycle. This causes a temporary temperature drop and reduced comfort levels inside the building.

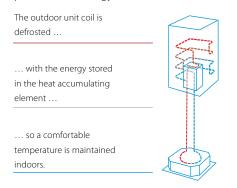
Defrosting can take over 10 minutes (depending on the size of the system) and occurs mostly between -7 and +7°C when humidity levels in the air are high. Humidity freezes on the coil, resulting firstly in poor performance and eventually low comfort levels. The VRV IV has changed the heating paradigm by providing heat even during defrost operation thus diminishing the temperature drop indoors and providing comfort at all times.



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.



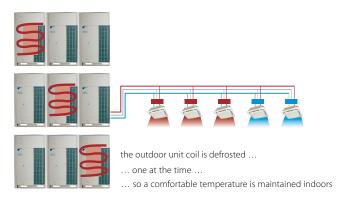
Available on:

Heat pump		
RYYQ8-20T(8)		

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.



Available on:

Heat pump	Heat recovery	Replacement VRV
RYYQ16-54T(8)	REYQ10-54T	RXYQQ16-42T
RXYQ16-54T(8)		RQCEQ280-848P3

VRV Configurator

Software for simplified commissioning, configuration and customisation

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





Configurator software for simplified commissioning

The VRV configurator 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.



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.

- > easy-to-read error report
- > clear menu indicating quick and easy on-site settings
- indication of basic service parameters to quickly check basic functions: high pressure, low pressure, frequency and operation time history of compressors, temperature of discharge/suction pipe.
- No need to unmount the big front panel of the unit thanks to the service access



Available on:

Heat recovery	Heat pump	Replacement VRV
REYQ-T	RYYQ-T(8)	RXYQQ-T
	RXYQ-T(8)	
	RXYSCQ-TV1 (only configurator, no 7 segment display)	
	RXYSQ-T8V/T8Y/TY1 (only configurator, no 7 segment display)	
	SB.RKXYQ-T(8) (only configurator, no 7 segment display)	

Unique VRV IV core technologies



Newly developed compressor

oatents

Full inverter

- > Enabling variable refrigerant temperature and low start-up currents
- > Stepless capacity control

Reluctance brushless DC motor

- > increased efficiency compared to AC motors by simultaneously using normal and reluctance
- > Powerful neodymium magnets efficiently generate high torque
- > High-pressure oil reduces thrust losses

High efficiency 6-pole motor

> 50% stronger magnetic field and higher rotation efficiency

Thixocasting process

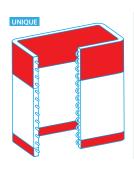
> Compression volume is increased by 50% thanks to a new high-durability material cast in a semimolten state



Refrigerant-cooled PCB

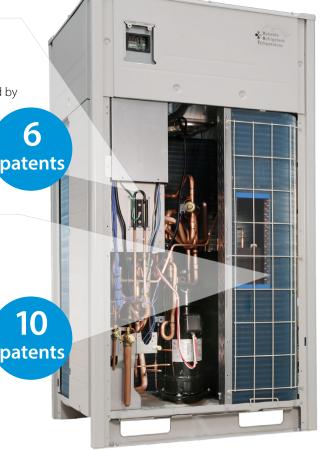
- > Reliable cooling because it is not influenced by ambient air temperature
- > Smaller switchbox for smoother air flow through the heat exchanger increasing heat exchange efficiency with 5%





4-sided, 3-row heat exchanger

- > Heat exchange surface up to 50% larger
- > (up to 235m²), leading to 30% more efficiency

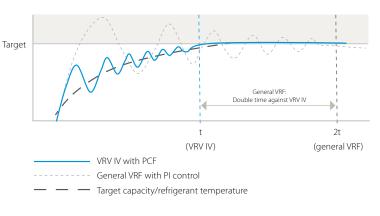


UNIQUE

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 i-Net software put us in the unique position of being able to analyse this data and develop the predictive control function.



VRV IV: PCF

Compressor works with predictive data for the control

> result: quick convergence to the target temperature and reduction of waste operation of the compressor

Half time against general VRF

General VRF: Pi control

Compressor works with feedback only for the control

> result: waste operation and longer time before reaching target set point

DC fan motor

UNIQUE

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

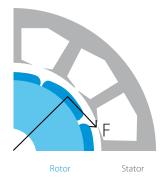
Sine wave DC inverter

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

DC fan motor

The use of a DC fan motor offers substantial improvements in operating efficiency compared to conventional AC motors, especially during low speed rotation.

Conventional motor with inner rotor



Daikin outer rotor



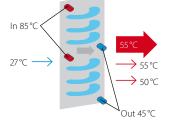
E-Pass heat exchanger

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.

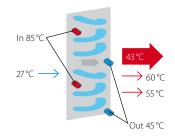
I-demand function

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

Standard heat exchanger



e-Pass heat exchanger



Power consumption



Time



VRV

Latest technology, highest efficiency

VRV, a total commercial solution

Drastically reducing your running costs Top reliability Up to 6 times greater resistance against corrosion	26
Comfort guaranteed at all times	28
Great design flexibility	30
Fast installation and commissioning Easy servicing	32

- Drastically reducing running costs
- Top reliability
- Up to 6 times greater resistance against corrosion

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.

Anti Corrosion Treatment

Special anti corrosion treatment of the heat exchanger provides 5 to 6 times greater resistance against acid rain and salt corrosion.

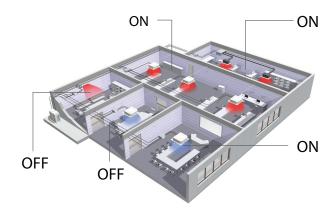
The provision of rust proof steel sheet on the underside of the unit gives additional protection.

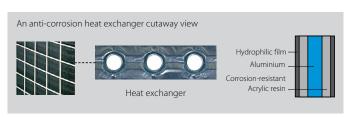
Performed tests:

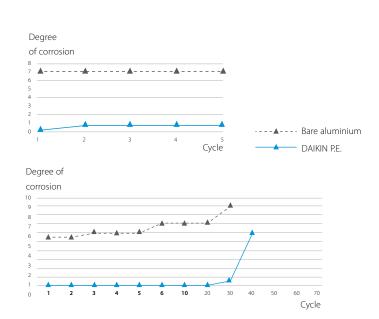
- > VDA Wechseltest
- > Contents of 1 cycle (7 days):
- > 24 hours salt spray test SS DIN 50021
- > 96 hours humidity cycle test KFW DIN 50017
- y 48 hours room temperature & room humidity testing period: 5 cycles

Kesternich test (SO2)

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







All inverter compressors

All inverter control compressors allow to control the refrigerant volume almost stepless. In this way the capacity perfectly matches the different loads in every room avoiding unnecessary energy use.

Additionally all inverter compressors also allow precise refrigerant temperature control, automatically adapting your VRV to your building and climate requirements, reducing running costs with 28%.

Even more, having no ON/OFF compressors, means total absence of high starting currents, which are being more and more limited by the grid operators and power suppliers.

Duty Cycling extends operation life

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

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).

Top quality Only brazed connections

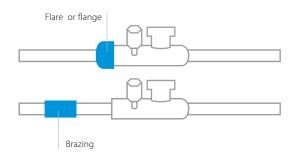
All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment. Also the connection of the outdoor in the main pipe is brazed.











Comfort guaranteed at all times

Coolina

Smart Control brings comfort

Stable room temperature

An electronic expansion valve, using PID (Proportional Integral Derivative) control, 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.

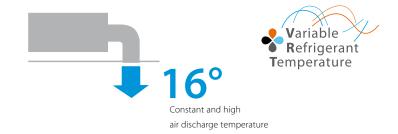
Note: The graph shows the data, measured in a test room assuming actual heating load. The thermostat can control stable room temperature at \pm 0.5°C from set point.

Stable room temperature Time VRV SERIES (DAIKIN indoor unit (PID controlled)) ON/OFF controlled indoor unit (2.5HP)

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.

Available on all VRV IV units



Continuous heating

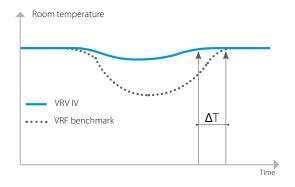
During defrost

- Indoor comfort not effected via the unique heat accumulating element or alternate defrost
- > The best alternative to traditional heating systems

Available on REYQ-T, RYYQ-T(8), RXYQ-T(8) and RXYQQ-T

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 quaranteed.





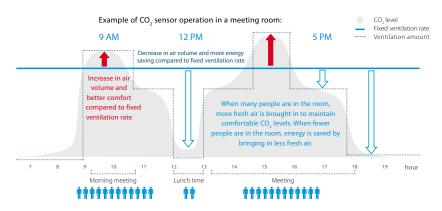
Single outdoor unit with multiple compressors



Multi outdoor unit system

Prevent energy losses from over-ventilation with CO₂ sensor

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO₂ sensor can be installed which switches off the ventilation system when there is enough fresh air in the room, thus saving energy.



Low indoor unit operation sound level

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

db(A)	Perceived loudness	Sound
0	Treshold of hearing	-
20	Extremely soft	Rustling leaves
40	Very soft	Quiet room
60	Moderately loud	Normal conversation
80	Very loud	City traffic noise
100	Extremely loud	Symphonic orchestra
120	Threshold of feeling	Jet taking off

Daikin indoor units:



25.5dB(A)

Connectable to all VRV heat pumps

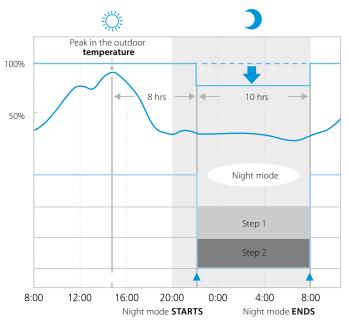
Connectable to VRV IV, VRV IV S-series and VRV IV W-series

Night quiet mode

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

Capacity* %Load %Operation Sound dBA

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



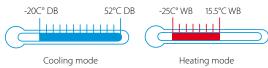
Example for VRV IV heat pump, factory setting.

Great design flexibility

Wide operation range

Air cooled

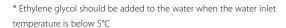
The VRV system can be installed practically anywhere. VRV air cooled outdoor units can cool between -20°C BD and +52°C DB outdoor ambient and can be used as monovalent heating system between -25°C WB and +15.5°C WB.

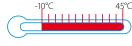


With the technical cooling function, the operation range in cooling of the heat recovery system is extended from -5°C to -20°C 1 , making it perfect for integrating server rooms.

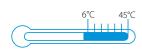
Water cooled

Standard water cooled outdoor units operation between 10°C & 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.





Heating mode water temperature

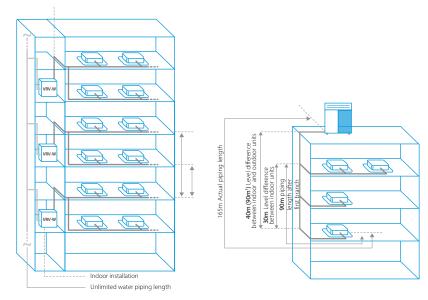


Cooling mode water temperature

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.

 $^{\mbox{\tiny 1}}$ Contact your local dealer for more information and restrictions



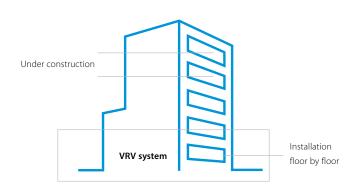
VRV IV example

	Air cooled	Water cooled
Total piping length	1000m	500m
Longest length actual (Equivalent)	165m (190m)	165m (190m)
Longest length after first branch	90m¹	40m (90m¹)
Level difference between indoor and outdoor units	90m¹	50m (40m²)
Level difference between indoor units	30m	30m

- 1 Contact your local dealer or consult technical literature for more information and restrictions
- 2 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 62

78.4 Pa

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





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 when compared to a chiller.



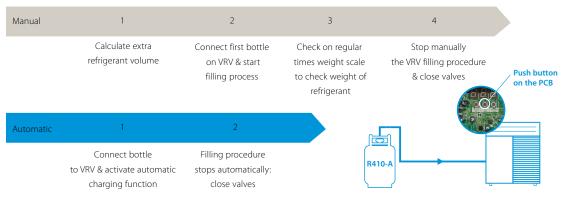
max. 398kg for a 20HP unit

Fast installation and commissioning

Easy servicing

Automatic charging & testing

Efficient use of time



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-T, RYYQ-T(8), RXYQ-T(8), RQYQ-P, RXYQQ-T, RQCEQ-P3





Compliance to F-gas regulation

Remote refrigerant containment check

Perform the refrigerant containment check remotely via intelligent Touch Manager.

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 for the following data:

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



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

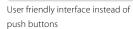
Available on RYYQ-T(8), RXYQ-T(8), REYQ-T Next to remote checking, the function can also be activated on-site via a push button on the PCB.

VRV configurator software

For simplified commissioning, configuration and customisation

Available on REYQ-T, RYYQ-T(8), RXYQ-T(8), RXYSCQ-TV1, RXYSQ-TY8V/T8Y/TY1, SB.RKXYQ-T(8) and RXYQQ-T







3 digit 7-segment display

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.

Compared to regular T-joints, where refrigerant distribution is far from optimal, the Daikin REFNET joints have specifically been designed to optimise refrigerant flow.

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



REFNET joint



REFNET joint



T-joint



REFNET header

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
- > Sheated 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 adress setting fuction is not available for centralized operation





VRV Outdoor Systems

For every application a solution

Overview of

functions













	VRV IV Heat recovery	VRV IV heat pump with continuous heating	VRV IV heat pump without continuous heating	VRV IV S-series (compact)	VRV IV i-series	VRV IV C-series	Replacement VRV IV heat pump	Replacement VRV III Heat recovery	VRV IV W*series
	REYQ-T	RYYQ-T(8)	RXYQ-T(8)	RXYSCQ-TV1 RXYSQ-T8V RXYSQ-T8Y RXYSQ-TY1	SB.RKXYQ-T (8)	RXYLQ-T	RQYQ-P RXYQQ-T	RQCEQ-P3	RWEYQ-T9
Page	44	52	52	54	62	72	77	76	88
Variable Refrigerant Temperature	•	•	•	•	•	•	•	×	•
Continuous heating (heat accumulating element)	×	•	×	×	×	×	×	×	-
Continuous heating (alternate defrost)	•	•	×	×	×	×	×	×	-
VRV configurator	•	•	•	•	•	•	•	×	•
7 segment display	•	•	•	×	×	•	•	×	•
Automatic refrigerant charge	•	•	•	×	×	•	•	•	×
Refrigerant containment check	•	•	•	×	×	•	×	×	×
Night quiet mode	•	•	•	•	•	•	•	•	-
Low noise function	•	•	•	•	•	•	•	•	-
Connectable to stylish indoor units (Daikin Emura, Nexura)	×	•	•	• (1)	×	•	×	×	• (1)
Connectable to LT hydrobox for hot water	•	•	•	×	×	•	×	×	•
Connectable to HT hydrobox for hot water	•	×	×	×	×	×	×	×	•
Full inverter compressors	•	•	•	•	•	•	•	•	•
Gas cooled PCB	•	•	•	not available on RXYSQ4,5,6,8TYI	×	•	•	×	×
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 / power limitation	•	•	•	•	•	•	•	•	•

Products overview **URV**

	Model		Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30
Air cooled - heat recovery	VRV IV heat recovery	Best efficiency & comfort solution 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	REYQ-T VRV IV				•	•	•	•	•	•	•	•	•	•	•	•	•
	VRV IV heat pump with continuous heating	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	RYYQ-T(8)				•	•	•		•	•	•	•					
	VRV IV with c	 Connectable to stylish indoor units (Daikin Emura, Nexura) Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating 										•	•	•	•	•	•	•	•
	VRV IV heat pump without continuous heating	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, Nexura) Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-T(9) VRV IV				•	•	•		•	•	•	•	•	•	•	•	•
t pump	VRVIV-S series Compact	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, Nexura) > Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact	•	•														
Air cooled - heat pump	VRVIV-S series	Space saving solution without compromising on efficiency 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, Nexura) Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSQT8V/ T8Y/TY1 VRV IV S-series T8\ TY	"/	•	•	•	•	•										
		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	SB.RKXYQ-T(8) VRV IV i-series		•		•												
E		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	RXYLQ-T VRY IV C-series					•	•		•	•	•	•	•	•	•	•	•
nent	heat recovery	Ouick & quality replacement for R-22 and R-407C systems > Cost-effective and fast replacement through re-use of exisiting piping > Drastically improve your comfort, efficiency and reliability > No interuption of daily business while replacing your system > Replace Daikin and other manufacturers systems safely	RQCEQ-P(3)*					•		•		•	•	•	•	•	•	•	•
Replacement	heat pump	Ouick & quality replacement for R-22 and R-407C systems Cost-effective and fast replacement through re-use of exisiting piping Drastically improve your comfort, efficiency and reliability No interuption of daily business while replacing your system Replace Daikin and other manufacturers systems safely Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQQ-T* VRV IV Q-series		•		•	•	•		•	•	•	•	•	•	•	•	•
Water cooled	Water cooled VRV IV	Ideal for high rise buildings, using water as heat source > Reduced CO2 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, Nexura > 2 analogue input signals allowing external control	RWEYQ-T9* YRY IV W-series				•	•	•		•	•	•	•	•	•	•	•	•

Ranges marked with '*' are not Eurovent certified. Multi combinations are not in scope of the Eurovent certification programme

Single unit

Multi combination

WIRT VI Meet Recovery REPOOT	
with LT/HT Hydroboxes With LT/HT Hydroboxes V	limit: 50 ~ 130%
with LTHydroboxes With Wash and Carbon Line Section 180 policy of the Se	
AHU connection EKEXV + EKEQMCBA	larger systems nydroboxes up to 200%
AHU connection EKEXV+ EKEQMCBA	on units) not allowed –
VRV IV series SB.RXXYQ-T(8)	allways neccessary
with only VRV indoor units with residential indoor units with THydroboxes HRV units VMM-, VKM- AHU connection EKEXV + EKEQPCBA AHU connection SEXPXY-PKYSCQ- With VRV indoor units only with residential indoor units only with vRV indoor units only	J is 50 ~ 110%
With residential indoor units only With residential indoor connection ratio with individual With residential indoor units only With residential indoor	
with LT Hydroboxes With U connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQMCBA With VRV Indoor units only With vRV indoor units only With residential indoor units only With residential indoor units only With VRV indoor units	<u> </u>
HRV units VAM., VKM. AHU connection EKEXV + EKEQMCBA	P and 20HP systems
AHU connection EKEXV + EKEQMCBA	larger systems systems (>20HP)
AHU connection EKEXV + EKEQFCBA AHU connection EKEXV + EKEQFCBA AHU connection ratio with AH AHU connection EKEXV + EKEQFCBA AHU connection ratio with AH AHU connection ratio with AH AHU connection ratio AHU connection EKEXV + EKEQFCBA AHU connection ratio is 90-100.	
Biddle air curtain CYV-DK- VRV IV-S RXYSQ-/RXYSCQ- O X X O O X Standard total system connection ratio with VRV indoor units only VRV IV i series SB.RKXYQ-T(8) VRV IV-S RXYSQ-T(8) VRV IV-S RXYSQ-T	J is 50 ∼ 110%
With VRV indoor units only With residential indoor units only WRV IV i series SB.RKXYQ-T(8) VRV IV i series SB.RKXYQ-T(8)	
with VRV indoor units only with residential indoor units only VRV IV i series SB.RKXYQ-T(8) VRV IV-C RXYLQ-T with VRV indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA VRV III-Q Replacement H/R VRV III-Q Replacement II-R VRV II	
with residential indoor units only VRV IV i series SB.RKXYQ-T(8) VRV IV-C RXYLQ-T With VRV indoor units only with residential indoor units only with residential indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA VRV III-Q Replacement H/R VRV III-Q Replacement H/R VRV III-Q Replacement H/R VRV III-Q Replacement H/R VRV IV X X X X V V X X V X X V X X V X X V X X X V X X X X V X X X X X V X	limit: 50 ~ 130%
VRV IV i series SB.RKXYQ-T(8) ✓ X X X ✓ ✓ X ✓ Standard total system connection ratio limit: 50 ~ 130% VRV IV-C RXYLQ-T with VRV indoor units only with residential indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA VRV III-Q Replacement H/R ✓ X X X ✓ X ✓ X ✓ X ✓ Standard total system connection ratio is 70~110 VRV III-Q Replacement H/R	
VRV IV-C RXYLQ-T with VRV indoor units only with residential indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA VRV III-Q Replacement H/R VRV III-Q Replacement H/R VRV III-Q Replacement H/R VRV IV-C RXYLQ-T O O X V V V V V V V V V V V V V V V V V	io limit: 80 ~ 130%
with VRV indoor units only with residential indoor units only with LT hydroboxes With LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA VRV III-Q Replacement H/R With VRV indoor units only With residential indoor: connection rat > Max. 32 indoor units, contact Daikin in systems (> 14HP) > Total system connection ration is 90	
with residential indoor units only with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA VRV III-Q Replacement H/R With residential indoor: connection ratio is 70~110 > With AHU connection ratio is 70~110 > With AHU only connection ratio is 90	limit: 70 ~ 130%
with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA With AHU only connection ration is 90 WRV III-Q Replacement H/R	
with LT hydroboxes AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA With AHU only connection ratio is 70~110 VRV III-Q Replacement H/R V V V V V V S Standard total system connection	io limit: 80 ~ 130%
AHU connection EKEXV + EKEQMCBA AHU connection EKEXV + EKEQFCBA With AHU only connection ration is 90 VRV III-Q Replacement H/R	case of multi-module
VRV III-Q Replacement H/R	%
	~110%
RQCEQ-P3 · V X X X X X ratio limit: 50 ~ 130%	
VRV IV-Q Replacement H/P RXYQQ-T ✓ x x x √ ✓ x ✓ > Standard total system connection ratio limit: 50 ~ 130%	
VRV IV-W Water-cooled VRV RWEYQ-T9 O O X O O O O > Standard total system connection ratio	limit: 50 ~ 130%
with VRV indoor units \(\sqr	
with split indoor units ✓ > Connection ratio: 80 ~ 130% > Max 32 indoor units, even on 16HP and	larger systems
with HT hydrobox	
AHU connection	J + X indoor is 50 ~ 110% HU only is 90~ 110%

O ... connection of indoor unit possible, but not neccessarily simultaneously with other allowed indoor units \checkmark ... connection of indoor unit possible even simultaneously with other checked units in the same row \mathbf{x} ... connection of indoor not possible on this outdoor unit system



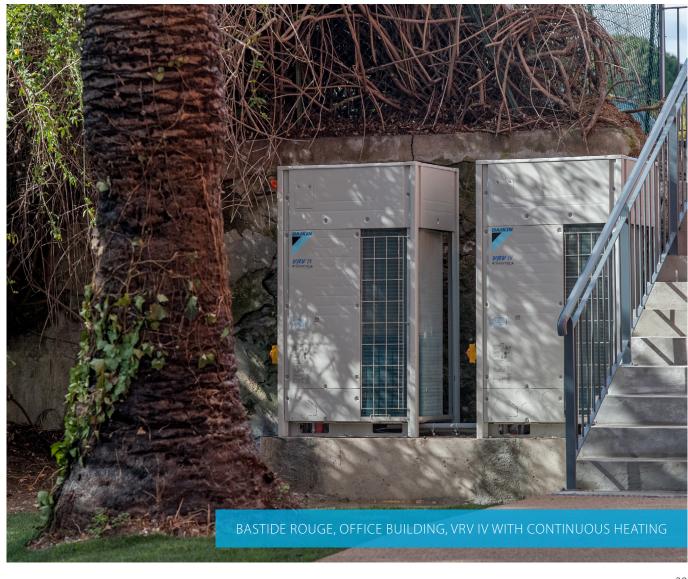






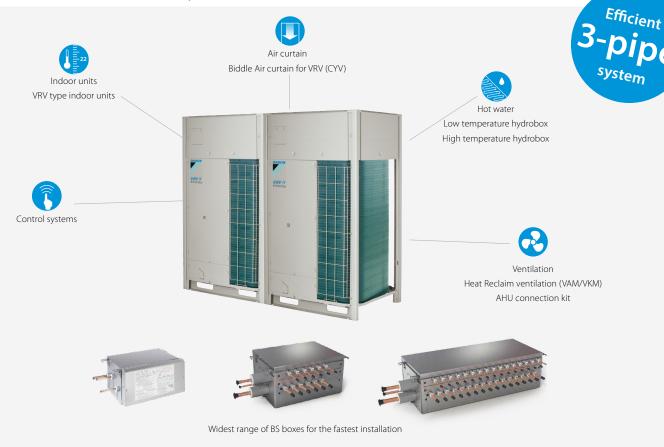






VRV IV heat recovery

Best efficiency and comfort solution





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

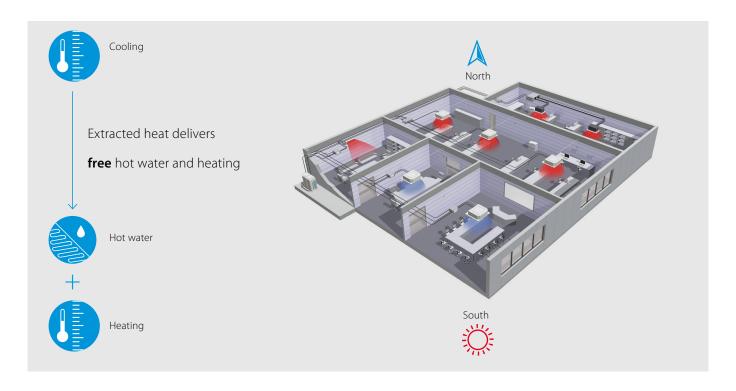
Continuous heating

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



"Free" heating and hot water production

Until now, most commercial buildings have relied on separate systems for cooling, heating, hot water and so on, which results in a lot of wasted energy.

An integrated heat recovery system reuses heat from offices, server rooms, to warm other areas or create hot water.

Improved efficiency

In heat-recovery operation the VRV IV is up to 15% more efficient compared to VRV III. In single mode operation, the seasonal efficiency of the system can be even as much as 28% higher - thanks to the variable refrigerant temperature technology - compared to a conventional VRF system.

Optimised Partition of Heat Exchanger for highest seasonal efficiency in heat recovery mode

Vertically divided heat exchanger with an optimized ratio for mix mode operation. This improves heat recovery efficiency by reducing radiation losses.

Wide heating operation range

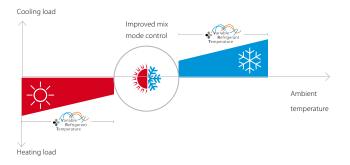
VRV IV heat recovery has a standard operation range down to -20°CWB in heating.

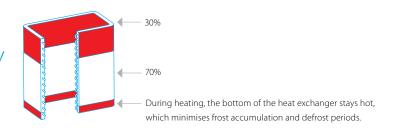
It can also provide cooling down to -20°CDB for technical server rooms Via field settings and specific system design.

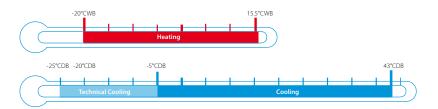
Maximum comfort

A VRV heat-recovery system allows simultaneous cooling and heating.

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







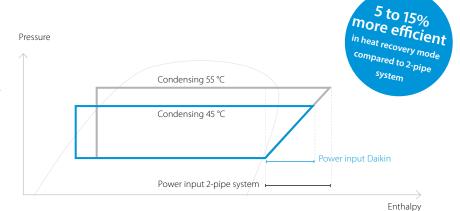
Advantages

of 3-pipe technology

More "free" heat

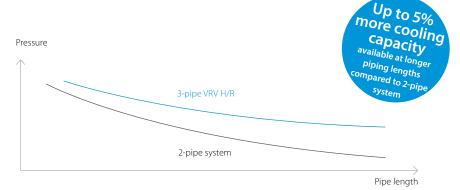
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

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 bigger pressure drop



Save on refrigerant

 Smaller diameter pipes and 3-pipe system results in up to 36% less refrigerant charge compared to 2-pipe systems, saving on refrigerant cost and reducing environmental impact

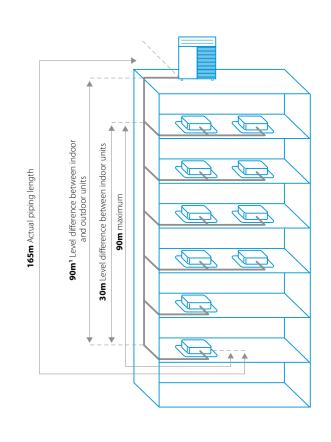
Freely combine outdoor units

Combine outdoor units flexibly to reduce your carbon footprint, optimise your system for continuous heating, and achieve the highest efficiency.

Flexible piping design

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

¹ Outdoor unit in highest position. Consult your local sales representative for restrictions on piping lengths



Fully redesigned 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

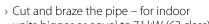
- > Unique to the market
- > Compact and light to install
- > No drain piping needed
- > Ideal for remote rooms
- > Technical cooling function
- > Connect up to 250 class unit (28 kW)
- > Allows multi-tenant applications

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

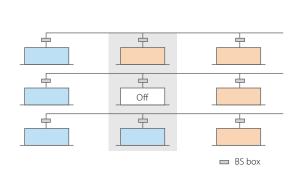
> No need to cut the pipe before brazing – for indoor units smaller or equal to 5.6 kW (50 class)





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



- > 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



Already fully compliant to LOT 21 - Tier 2

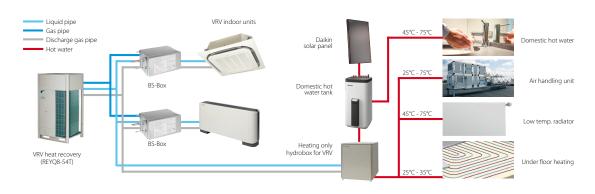
Outdoor unit			REYQ	8T		10T	12	T	14T		16T	18T		20T
Capacity range			HP	8		10	12	2	14		16	18		20
Cooling capacity	Prated,c		kW	22.4		28.0	33.	.5	40.0		15.0	50.4		52.0
Heating capacity	Prated,h		kW	13.7		16.0	18.	.4	20.6	2	23.2	27.9		31.0
	Max.	6°CWB	kW	25.0		31.5	37.	.5	45.0	5	50.0	56.5		63.0
ηs,c			%	212.4		222.0	216	5.9	226.6	2	16.8	216.2		210.3
ηs,h			%	146.8	В	152.3	155	5.5	138.4	1	38.9	149.1		148.1
SEER				5.4		5.6	5.5	5	5.7		5.5	5		5.3
SCOP				3.7		3.9	4.0	0		3.5			3.8	
Maximum number of	connectable	indoor units							64 (1)					
Indoor index	Min.			100.0)	125.0	150	0.0	175.0	2	0.00	225.0		250.0
connection	Nom.								-					
	Max.			260.0)	325.0	390	0.0	455.0	5	20.0	585.0		650.0
Dimensions	Unit	HeightxWidthxDepth	mm		1,	685x930x76	5				1,685x1,2	40x765		
Weight	Unit		kg	210			218		304		305		337	
Sound power level	Cooling	Nom.	dBA	78.0		79.0		81.0)		86.	0		88.0
Sound pressure level	Cooling	Nom.	dBA		58.0			61.0)	6	54.0	65.0		66.0
Operation range	Cooling	Min.~Max.	°CDB						-5.0~43.0					
	Heating	Min.~Max.	°CWB						-20.0~15.5	5				
Refrigerant	Type/GWP							F	R-410A/2,08	7.5				
3	Charge		kg/TCO2Eg	9.7/20	.2	9.8/20.5	9.9/2	20.7			11.8/	24.6		
Piping connections	Liquid	OD	mm		9,52				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		m						1,000					
Power supply		uency/Voltage	Hz/V					3	N~/50/380-	415				
Current - 50Hz		use amps (MFA)	Α	20		25		32			40)		50
Outdoor unit system	_	·	REYO	10T	13T	16T	18T	20T	22T	24T	26T	28T	30T	32T
		nit module 1	RETQ	REM		101	REYQ8T	201	REYQ10T		201	REYQ12T	301	REYQ16T
System		nit module 2		REMO5T		YQ8T	REYQ10T	DEV	YQ12T		DEVO14T		REYQ18T	
Cit	Outdoorur	iit module 2	LID			1	-		-	-	-	-	30	
Capacity range	D		HP kW	10	13	16	18	20	22	24	26	28		32
Cooling capacity	Prated,c			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	COCIMID	kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	37.1	39.7	44.4	46.4
	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
ης,ς			%	224.2	229.3	223.9	222.9	215.0	213.5	215.3	222.0	216.8	216.2	216.8
ηs,h			%	156.4	148.9	147.4	150.8	152.3	155.7	147.5	151.0	150.9	152.9	138.9
SEER				5.7	5.8	5.7	5.6	5.5	5.4	5.5	5.6		5.5	
SCOP				4.0		3.8		3.9	4.0		3.8		3.9	3.5
Maximum number of		indoor units		4050	442.0	2000	225.0	2500	64 (1)	2000	205.0	2500	275.0	400.0
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
connection	Nom.								-					
	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	9,52		12,7			15,9	1			9,1	
	Gas	OD	mm	22.2			28.6	1				34.9		
	HP/LP gas	OD	mm	19	0.1		2.2				28.6			
	Total piping length	•	m			500					1,	000		
Power supply		uency/Voltage	Hz/V						N~/50/380-				1	
Current - 50Hz	Maximum f	use amps (MFA)	Α		40		5	0			53		8	30







REYQ10,13,16,18,20,22T



Outdoor unit			REYQ	34T	36T	38T	40T	42T	44T	46T	48T	50T	52T	54T
System	Outdoor un	it module 1		REY	Q16T	REYQ8T	REY	Q10T	REYQ12T	REYQ14T		REYQ16T		REYQ18
	Outdoor un	it module 2		REYQ18T	REYQ20T	REYO	Q12T			REYQ16T		REYQ18T		
	Outdoor un	it module 3			-	REY	Q18T		REY	Q16T			REYQ18T	
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	51.1	54.2	58.1	58.9	60.9	62.9	67.0	69.6	74.3	79.0	83.7
	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
ης,ς			%	216.4	213.2	215.3	21	7.6	216.8	219.7	216.8	216.5	216.3	216.2
ηs,h			%	146.8	146.1	151.3	153.0	145.7	145.6	138.2	138.9	144.1	148.0	149.6
SEER				5.5	5.4		5	.5		5.6		5	.5	
SCOP				3	3.7	3	.9	3	.7	3.	.5	3.7	3	.8
Maximum number of	f connectable	indoor units							64 (1)					
Indoor index	Min.			425.0	450.0	475.0	500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
connection	Nom.								-					
	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	1.3				
	HP/LP gas	OD	mm	2	8.6					34.9				
	Total piping length	System Actual	m						1,000					
Power supply	Phase/Freq	uency/Voltage	Hz/V						I~/50/380-4	115				
Current - 50Hz	Maximum f	use amps (MFA)	A	A 80 100 125						25				
Outdoor unit modu	le		REMQ						5T					
Dimensions	Unit	HeightxWidthxDepth	mm					1,	685x930x7	65				
Weight	Unit		kg						210					
Fan	External static pressure	Max.	Pa						78					
Sound power level	Cooling	Nom.	dBA						77.0					
Sound pressure level	Cooling	Nom.	dBA						56.0					
Operation range	Cooling	Min.~Max.	°CDB						-5.0~43.0					
	Heating	Min.~Max.	°CWB						-20.0~15.5					
Refrigerant	Type/GWP							R	-410A/2,08	7.5				
	Charge		kg/TCO2Eq						9.7/20.2					
Power supply	Phase/Freq	uency/Voltage	Hz/V					31	I~/50/380-4	115				
Current - 50Hz	Maximum f	use amps (MFA)	А						20					

(1) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system ($50\% \le CR \le 120\%$)

Individual branch selector for VRV IV heat recovery

- $\,{}^{\backprime}$ 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



Indoor unit				BS	1Q10A	1Q16A	1Q25A			
Power input	Cooling	Nom.		kW		0.005				
	Heating	Nom.		kW		0.005				
Maximum number o	f connectable indo	or units			6	8				
Maximum capacity in	ndex of connectable	e indoor units			15 < x ≤ 100	100 <x≤160< td=""><td>160<x≤250< td=""></x≤250<></td></x≤160<>	160 <x≤250< td=""></x≤250<>			
Dimensions	Unit	HeightxWid	dthxDepth	mm		207x388x326				
Weight	Unit			kg	1	2	15			
Casing	Material					Galvanised steel plate				
Piping connections	Outdoor unit	Liquid	OD	mm						
		Gas	OD	mm	15	5.9	22.2			
		Discharge gas	OD	mm	12	2.7	19.1			
	Indoor unit	Liquid	OD	mm		9.5				
		Gas	OD	mm	15	5.9	22.2			
Sound absorbing the	ermal insulation				Foan	ned polyurethane Flame-resistant needle	e felt			
Power supply	Phase					1~				
	Frequency			Hz		50				
	Voltage			V		220-240				
	Maximum fuse a	mps (MFA)		Α		15				

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



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 o	f connectable indo	or units			20	30	40	50	60	64			
Maximum number o	f connectable indo	or units per bra	nch					5					
Number of branches					4	6	8	10	12	16			
Maximum capacity ir	ndex of connectable	e indoor units			400	600		7.	50				
Maximum capacity ir	ndex of connectable	e indoor units p	er branch				1-	40					
Dimensions	Unit	HeightxWid	dthxDepth	mm	298x370x430	298x5	80x430	298x8	20x430	298x1,060x430			
Weight	Unit			kg	17	24	26	35	38	50			
Casing	Material						Galvanised	l 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. 2	20/O.D. 26)					
Sound absorbing the	ermal insulation						Urethane foam, p	olyethylene foam					
Power supply	Phase						1	~					
	Frequency			Hz			5	0					
	Voltage			V			220	-440	38				
	Maximum fuse a	mps (MFA)		A			1	5					

VRV IV heat pump

Daikin's optimum solution with top comfort





Air curtainBiddle Air curtain for VRV (CYV)





AHU connection kit

Variable
Refrigerant
Temperature

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



Wide range of indoor units

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





Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXG-LW/LS		•	•	•		•		
Wall mounted unit	CTXS-K	•			•				
Wall mounted unit	FTXS-K		•	•	•	•	•		
Wall mounted unit	FTXS-G							•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXS-F			•	•		•		
Flexi type unit	FLXS-B(9)			•	•		•	•	

VRV IV

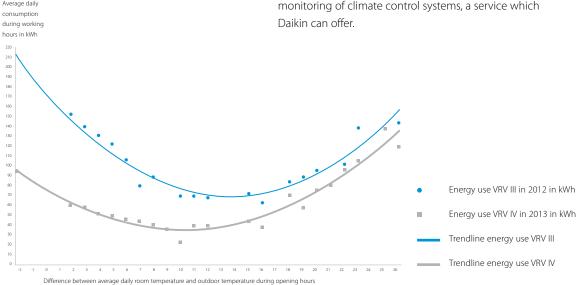
proven in practice: 40% more efficient

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.



	VRV III 20HP (2 modules)	VRV IV 18HP (1 module)
Period	March 2012 - February 2013	March 2013 - February 2014
Avg (kWh/Month)	2.797	1.502
Total (KWh)	33.562	18.023
Total (€)	6.041	3.244
Yearly (operation cost/m² (€/m²)	9,9	5,3
	46% saving	gs = € 2.797

Measured data

Fashion store Unterhaching (Germany)

- > Floor space: 607m²
- > 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.



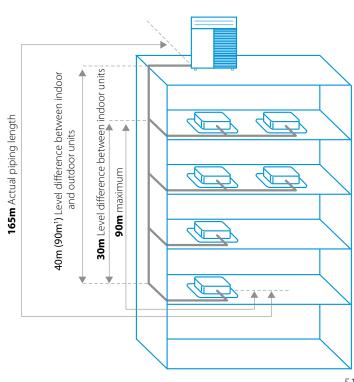
Free combination of outdoor units

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	90m¹
Level difference between indoor and outdoor units	90m¹
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

- > 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, Nexura, ...)
- > 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
- > 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

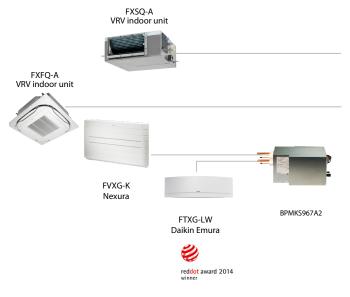


Already fully compliant to LOT 21 - Tier 2

Outdoor unit			RYYQ/RXY	Q	8T8		10T	12T	1-	4T	16T	18	T	20T
Capacity range			H	IP	8		10	12	1	4	16	18	3	20
Cooling capacity	Prated,c		k	w	22.4		28.0	33.5	40	0.0	45.0	50.	4	52.0
Heating capacity	Prated,h		k	w	13.7	1	16.0	18.4	20	0.6	23.2	27.	9	31.0
	Max.	6°CWB	k	w	25.0	3	31.5	37.5	4.	5.0	50.0	56.	.5	63.0
ηs,c				%	212.4	2	22.2	216.9	22	6.6	216.8	216	5.2	210.3
ηs,h				%	142.0	1	47.2	149.6	13	6.7	137.0	141	.4	145.4
SEER					5.4		5.6	5.5	5	.7		5.5		5.3
SCOP					3.6		3.8	3.8	3	.5	3.5	3.6	5	3.7
Maximum number o	f connectable	indoor units				'			64	(1)		'		
Indoor index	Min.				100		125	150	1	75	200	22	5	250
connection	Nom.			i	200		250	300	3	50		-		
	Max.				260		325	390	4	55	520	58	5	650
Dimensions	Unit	HeightxWidt	hxDepth m	m		1,685	x930x765				1,685x	1,240x765		
Weight	Unit		•	g	243		25	2		356			391	
Fan	Air flow rate	Cooling	Nom. m³/m	-		175			223			-		
Sound power level	Cooling	Nom.	dE		78.0		79	81.0	8	1		36.0		88.0
Sound pressure level	Cooling	Nom.	dE	A	58.0		58	61.0	6	51	64.0	65.	.0	66.0
Operation range	Cooling	Min.~Max.	°CI		.0~43.0		5~43	-5.0~43.0		-43		-5.0~-		
	Heating	Min.~Max.	°CW		0.0~15.)~15.5	-20.0~15.5		15.5		-20.0~		
Refrigerant	Type/GWP					-				/2,087.5				
	Charge		kg/TCO2	Ea 5	.9/12.3	6	/12.5	6.3/13.2		/21.5	10.4/21.7	11.7/	24.4 1	1.8/24.6
Piping connections	Liquid	OD	m		9,52		9.52	12,7		2.7	12,7		15,9	,
. iping connections	Gas	OD		_	19.1		22.2	,			28.6		.5/5	
	Total piping length			m					1 (000	20.0			
Power supply		quency/Voltage								/380-415				
Current - 50Hz		fuse amps (MF)		A	20		25	32		2		40		50
	maximum	ruse umps (iiii)												
Outdoor system			RYYQ/RXY	-		24T/24T8	26T	28T	30T	32T	34T	36T	38T/38T8	40T
System		nit module 1		_	0	8		12			16		8	10
	Outdoor u	nit module 2		1	2	16	14	16	18	16	18	20	10	12
	Outdoor u	nit module 3						-					20	18
Capacity range				_	2	24	26	28	30	32	34	36	38	40
Cooling capacity	Prated,c			_	1.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4	111.9
Heating capacity	Prated,h		k	W 34	1.4	36.9	37.1	39.7	44.4	46.4	51.1	56.4	59.4	58.9
	Max.	6°CWB	k	W 69	9.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5	125.5
ηs,c				% 21	3.5	215.3	222.0	216.8	216.2	216.8	216.4	213.2	213.6	217.6
ηs,h				% 15	0.0	144.5	143.8	142.6	138.8	137.0	141.8	145.7	147.6	145.7
SEER				5	.4	5.5	5.6		5	.5			5.4	5.5
JLLN				3.	.8	3.	.7	3.6	3	.5	3.6	3.7	3.8	3.7
									64	(1)				
SCOP Maximum number o	f connectable	indoor units					225.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0
SCOP Maximum number o Indoor index	f connectable	indoor units		27	5.0	300.0	325.0	330.0						
SCOP		indoor units		27	5.0	300.0	325.0	330.0		-				
SCOP Maximum number o Indoor index	Min.	indoor units			5.0	780.0	845.0	910.0	975.0	1,040.0	1,105.0	1,170.0	1,235.0	1,300.0
SCOP Maximum number o Indoor index connection	Min. Nom.	e indoor units OD	m	71.		780.0				1,040.0	1,105.0 9,1	1,170.0	1,235.0	1,300.0
SCOP Maximum number o Indoor index connection	Min. Nom. Max.		m	71. m	5.0	780.0			975.0	1,040.0	-	1,170.0	1,235.0	1,300.0
SCOP Maximum number o Indoor index	Min. Nom. Max. Liquid	OD OD	m	71. m	5.0 15,	780.0		910.0	975.0	1,040.0	-	1,170.0		1,300.0
SCOP Maximum number o Indoor index connection	Min. Nom. Max. Liquid Gas Total piping length	OD OD	m Actual	71. m m 28	5.0 15,	780.0		910.0	975.0 .9	1,040.0 1	-	1,170.0		1,300.0









Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Daikin Emura - Wall mounted unit	FTXG-LW/LS		•	•	•		•		
Wall mounted unit	CTXS-K	•			•				
Wall mounted unit	FTXS-K		•	•	•	•	•		
Wall mounted unit	FTXS-G							•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXS-F			•	•		•		
Flexi type unit	FLXS-B(9)			•	•		•	•	

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

Outdoor system				RYYQ/RXYQ	42T	44T	46T	48T	50T	52T	54T		
System	Outdoor u	nit module 1			10	12	14		16		18		
	Outdoor u	nit module 2					16			1	8		
	Outdoor u	nit module 3					16		18				
Capacity range				HP	42	44	46	48	50	52	54		
Cooling capacity	Prated,c			kW	118.0	123.5	130.0	135.0	140.4	145.8	151.2		
Heating capacity	Prated,h	Prated,h		kW	60.9	62.9	67.0	69.6	74.3	79.0	83.7		
	Max.	6°CWB		kW	131.5	137.5	145.0	150.0	156.5	163.0	169.5		
ηs,c				%	217.6	216.8	219.7	216.8	216.5	216.3	216.2		
ηs,h				%	143.3	143.2	136.9	137.0	139.9	142.0	142.1		
SEER						5.5	5.6		5	.5			
SCOP					3	3.7	3	.5		3.6			
Maximum number o	fconnectable	indoor unit	s				64 (1)						
Indoor index	Min.				525.0	550.0	575.0	600.0	625.0	650.0	675.0		
connection	Nom.							-					
	Max.				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							41.3					
	Total piping length	System	Actual	m				1,000					
Power supply	Phase/Fred	quency/Volta	ige	Hz/V				3N~/50/380-415					
Current - 50Hz	Maximum	fuse amps (N	ΛFA)	A		100 125							
Outdoor unit modu	1_			RYMQ	8T	10T 12T 14T 16T 18T							
Dimensions	-	11-1-1-4-34	المساملة:	-	81			141	-	_	20T		
	Unit Unit	Heightxw	idthxDepth	mm kg	188	1,685x930x765	95	24	1,085X1,	240x765	19		
Weight Fan	Air flow rate	Cooling	Nom.	m³/min	162	175	185	223	260	251	261		
ran		Max.	Nom.		102	1/5	185		200	251	201		
	External static pressure			Pa	78 Vertical								
	Discharge (direction											
Sound power level	Cooling	Nom.		dBA	78	Propeller fan 78 79 81 86 86.0							
Sound pressure level	Cooling	Nom.		dBA			81 86 61 64				88.0 66.0		
Operation range	Cooling	Min.~Max		°CDB									
Operation range	Heating	3											
Pofrigorant	, , , , , , , , , , , , , , , , , , ,					-20~15.5 -20.0~15.5 R-410A/2,087.5							
Refrigerant Type/GWP				5.9/12.3	6/12.5	6.3/13.2	10.3/21.5	10.4/21.7	11.7/24.4	11.8/24.			
Power supply	Charge	quency/Volta	200	kg/TC02Eq Hz/V	3.9/ 12.3	0/12.3		3N~/50/380-415		11.//24.4	11.0/24.		
			•		20	25				40	50		
Current - 50Hz	iviaximum	fuse amps (N	/IFA)	Α	20	25	3	2	40	40	50		

VRV IV S-series heat pump

The most compact VRV

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





(such as Daikin Emura)

Indoor units
VRV type indoor units
Residential type indoor units



Air curtainBiddle Air curtain for VRV (CYV)



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







Variable
Refrigerant
Temperature

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 (Daikin Emura, Nexura)
- > Full inverter compressors
- > Gas cooled PCB (not available on RXYSQ4,5,6,8 T8Y/TY1)
- > Reluctance brushless DC compressor
- > Sine wave DC inverter
- > DC fan motor
- > E-pass heat exchanger
- > I demand function
- > Manual demand function

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 low 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 it's compact dimensions, offering you air conditioning while being almost unnoticeable.



Unnoticeable for parapet installation

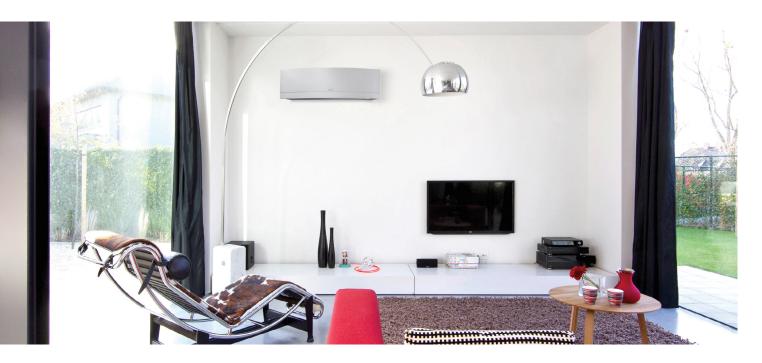


Low height make the unit invisible from inside and unnoticeable from the outside

Space saving design

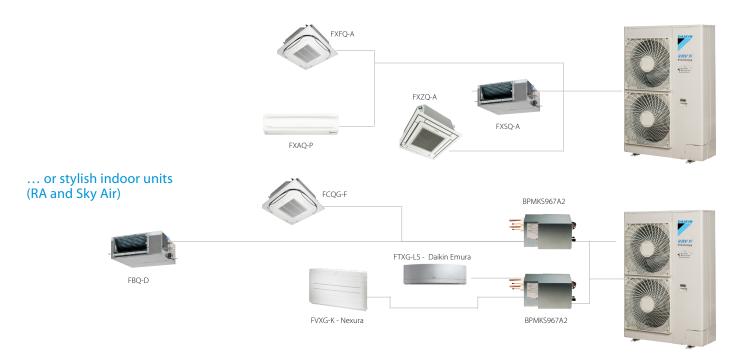
The VRV S-series is slimmer and more compact, resulting in significant savings in installation space.





Wide range of indoor units

Connect VRV units...



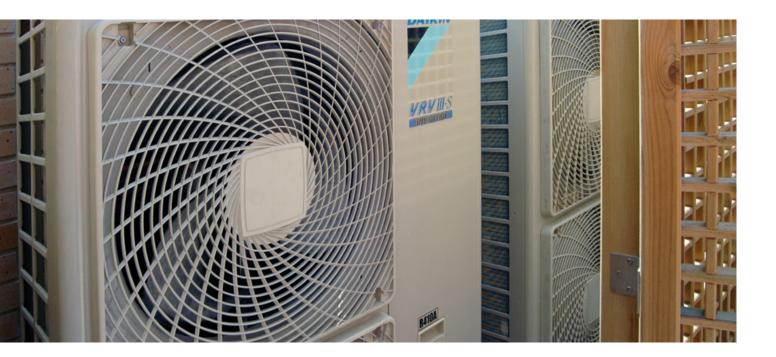
Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-A				•		•	•	•
Fully flat cassette	FFA-A			•	•		•	•	
Slim concealed ceiling unit	FDXM-F3			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A			•	•		•	•	•
Daikin Emura - Wall mounted unit	FTXG-LW/LS		•	•	•		•		
Wall mounted unit	CTXS-K	•			•				
Wall mounted unit	FTXS-K		•	•	•	•	•		
Wall mounted unit	FTXS-G							•	•
Ceiling suspended unit	FHA-A				•		•	•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXS-F			•	•		•		
Concealed floorstanding unit	FNA-A			•	•		•	•	
Flexi type unit	FLXS-B(9)			•	•		•	•	

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

 $[\]ensuremath{^{\star}}\xspace$ VRV indoor units and stylish indoor units cannot be combined.

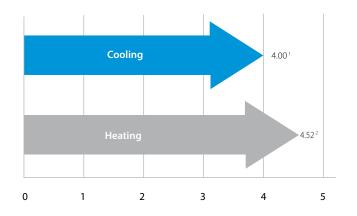
^{*} To connect stylish indoor units a BPMKS unit is needed



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.

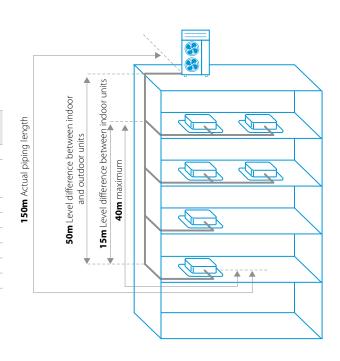
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, 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 ¹)	30m
Level difference between indoor units	15m	15m

¹ Outdoor unit in lowest position

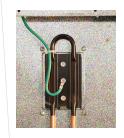


VRV IV S-series

technologies

Super aero grille

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



Refrigerantcooled 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%

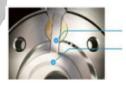
Improved fan blades







Air streams are smoothed around V-cut and reduces air flow loss



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

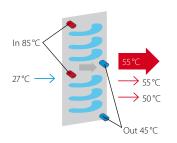
E-Pass heat exchanger

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.

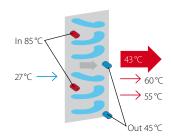
I-demand function

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

Standard heat exchanger

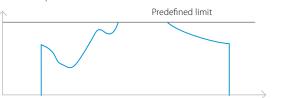


e-Pass heat exchanger



Time

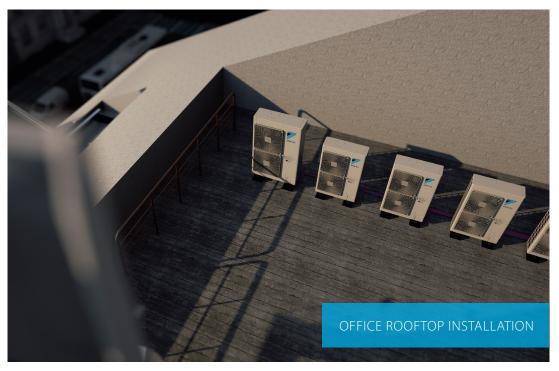
Power consumption















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 cutains
- > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- > 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



Already fully compliant to LOT 21 - Tier 2

Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-A				•		•	•	•
Fully flat cassette	FFA-A			•	•		•	•	
Slim concealed ceiling unit	FDXM-F3			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXG-LW/LS		•	•	•		•		
Wall mounted unit	CTXS-K	•			•				
Wall mounted unit	FTXS-K		•	•	•	•	•		
Wall mounted unit	FTXS-G							•	•
Ceiling suspended unit	FHA-A				•		•	•	
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXS-F			•	•		•		
Concealed floorstanding unit	FNA-A			•	•		•	•	
Flexi type unit	FLXS-B(9)			•	•		•	•	

Outdoor unit			RXYSCQ	4TV1	5TV1				
Capacity range			HP	4	5				
Cooling capacity	Prated,c		kW	12.1 (1.000)	14.0 (1.000)				
Heating capacity	Prated,h		kW	8.4	9.7				
	Max.	6°CWB	kW	14.2	16.0				
ηs,c			%	322.8	303.4				
ηs,h			%	182.3	185.1				
SEER				8.1	7.7				
SCOP				4.6	4.7				
Maximum number of	f connectable	indoor units		64 (1)					
Indoor index	Min.			50.0	62.5				
connection	Nom.			-					
	Max.			130.0	162.5				
Dimensions	Unit	HeightxWidthxDepth	mm	823x940x460					
Weight	Unit		kg	9.	4				
Sound power level	Cooling	Nom.	dBA	68.0	69.0				
Sound pressure level	Cooling	Nom.	dBA	51.0	52.0				
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	9,	52				
	Gas	OD	mm	15	.9				
	Total piping length	System Actual	m	30	00				
Power supply	Phase/Freq	uency/Voltage	Hz/V	1~/50/2	20-240				
Current - 50Hz	Maximum f	use amps (MFA)	A	3.	2				

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





VRV IV S-series heat pump

Space saving solution without compromising on efficiency

- > 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 cutains
- > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- > Wide range of units (4 to 12HP) suitable for projects up to 200m² with space limitations
- > Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- > Contains all standard VRV features





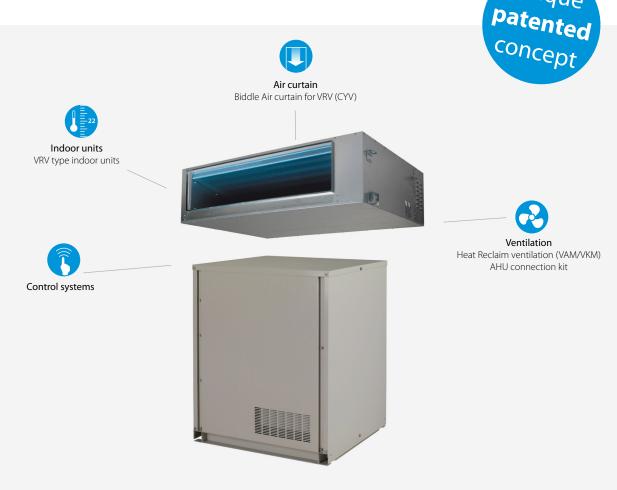
Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-A				•		•	•	•
Fully flat cassette	FFA-A			•	•		•	•	
Slim concealed ceiling unit	FDXM-F3			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXG-LW/LS		•	•	•		•		
Wall mounted unit	CTXS-K	•			•				
Wall mounted unit	FTXS-K		•	•	•	•	•		
Wall mounted unit	FTXS-G							•	•
Ceiling suspended unit	FHA-A				•		•	•	
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXS-F			•	•		•		
Concealed floorstanding unit	FNA-A			•	•		•	•	
Flexi type unit	FLXS-B(9)			•	•		•	•	

Outdoor unit			RXYSQ	4T8V	5T8V	6T8V	4T8Y	5T8Y	6T8Y	8TY1	10TY1	12TY1
Capacity range			HP	4	5	6	4	5	6	8	10	12
Cooling capacity	Prated,c		kW	12.10	14.00	15.50	12.10	14.00	15.50	22.4	28.0	33.5
Heating capacity	Prated,h		kW	8.00	9.20	10.20	8.00	9.20	10.20	14.9	19.6	23.5
	Max.	6°CWB	kW	14.2	16.0	18.0	14.2	16.0	18.0	25.0	31.5	37.5
ης,ς			%	278.9	270.1	278.0	269.2	260.5	268.3	247.3	247.4	256.5
ηs,h			%	171.6	182.9	192.8	154.4	164.5	174.1	165.8	162.4	169.6
SEER				7.0	6.8	7.0	6.8	6.6	6.8	6	.3	6.5
SCOP				4.4	4.6	4.9	3.9	4.2	4.4	4.2	4.1	4.3
Maximum number of	f connectable	indoor units						64 (1)				
Indoor index	Min.			50.0	62.5	70.0	50.0	62.5	70.0	100.0	125.0	150.0
connection	Nom.							-				
	Max.			130.0	162.5	182.0	130.0	162.5	182.0	260.0	325.0	390.0
Dimensions	Unit	HeightxWidthxDepth	mm			1,345x9	000x320			1,430x940x320	1,615x9	940x460
Weight	Unit		kg			10	04			144	175	180
Sound power level	Cooling	Nom.	dBA	68.0	69.0	70.0	68.0	69.0	70.0	73.0	74.0	76.0
Sound pressure level	Cooling	Nom.	dBA	50.0	51	1.0	50.0	51	.0	55	5.0	57.0
Operation range	Cooling	Min.~Max.	°CDB			-5.0	-46.0				-5.0~52.0	
	Heating	Min.~Max.	°CWB					-20.0~15.5				
Refrigerant	Type/GWP						ı	R-410A/2,087.	5			
	Charge		kg/TCO2Eq	O2Eq 3.6/7.5 5.5/11.5 7.0/14.6						7.0/14.6	8.0/16.7	
Piping connections	Liquid	OD	mm	mm 9,52							12,7	
	Gas	OD	mm	15	5.9	19.1	1:	5.9	19).1	22.2	25.4
	Total piping length	System Actual	m	m 300								
Power supply	Phase/Freq	uency/Voltage	Hz/V	1	N~/50/220-24	10			3N~/50/	380-415		
Current - 50Hz	Maximum f	use amps (MFA)	А		32			16		2	.5	32

VRV IV i-series heat pump

for indoor installation





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

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

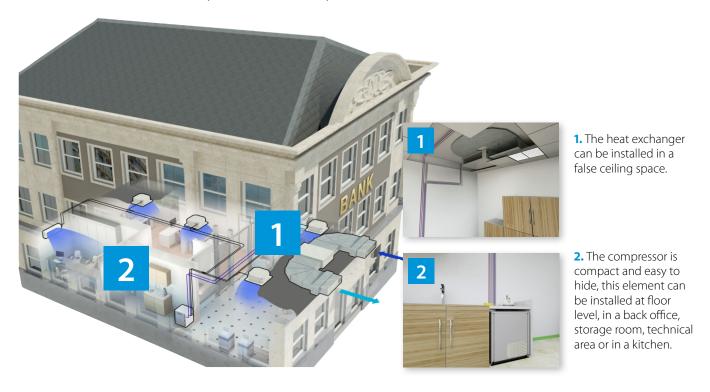
Lightweight parts can be installed by two people



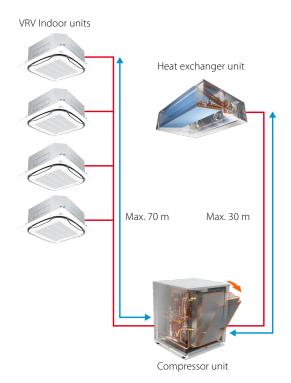
Unique split outdoor unit for indoor installation

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.

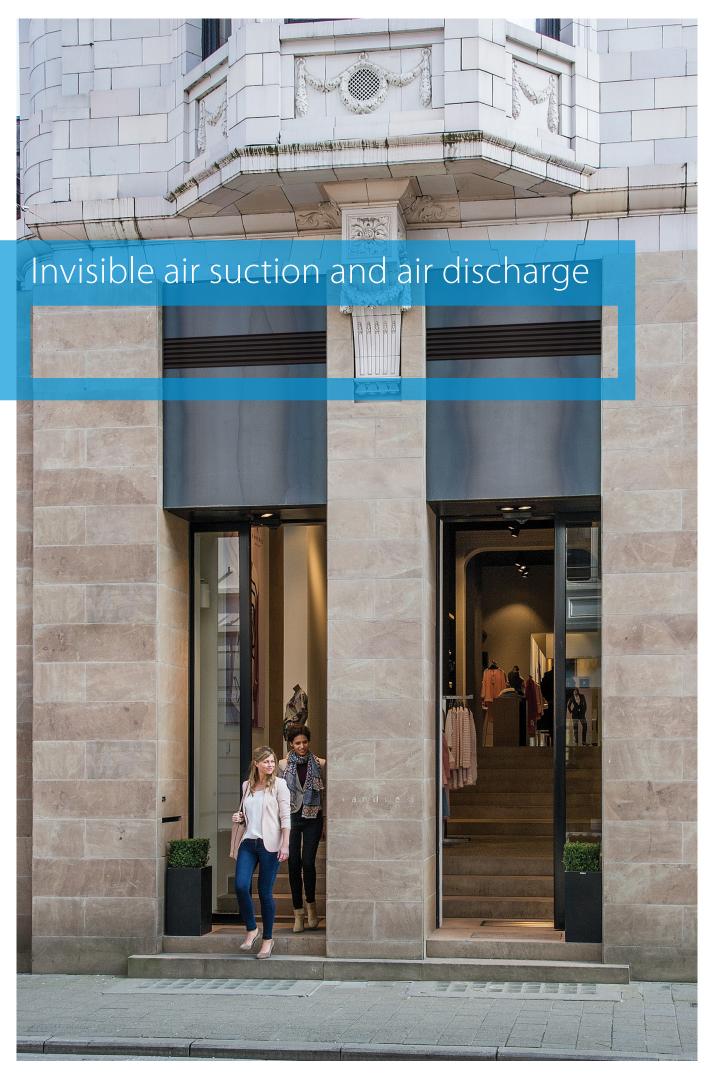
Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



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)



The problem solver

for many installation issues

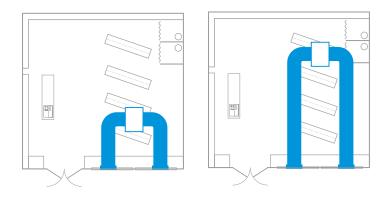
Example 1 High flexibilty

The other way around: install the modules where if 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

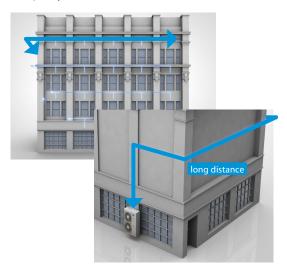
Shorter pipe runs to the indoor units reduces installation costs compared to rooftop or back alley installation

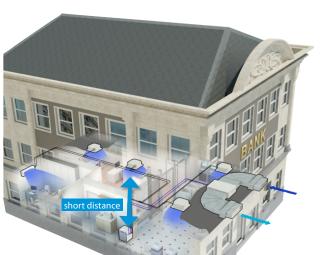
Back alley or rooftop needs very long piping lengths

- > 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

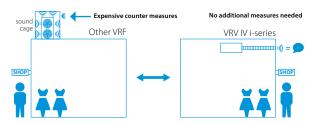
To comply with city regulation countermeasures are needed for standard units

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

Reduced floor space Other VRF VRV IV i-series technical aera stock kitchen

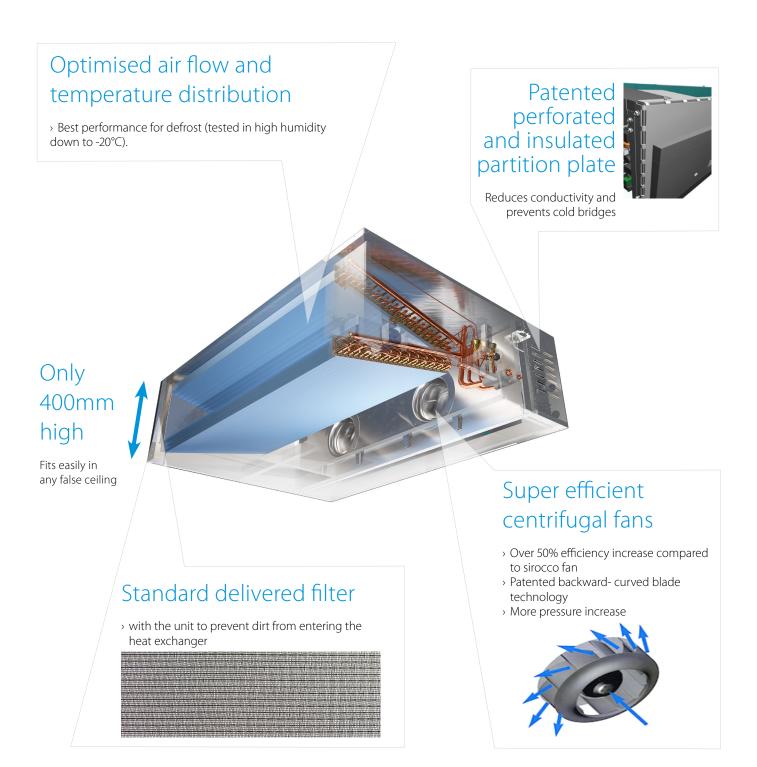
With VRV IV i-series you easily comply with city regulation without additional measures

- 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





Compressor unit with rotating switchbox

Flexible and easy to install







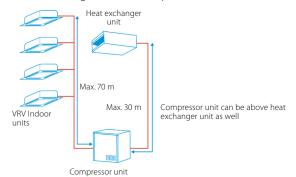
VRV IV heat pump for indoor installation

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

- > 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
- > Contains all standard VRV features

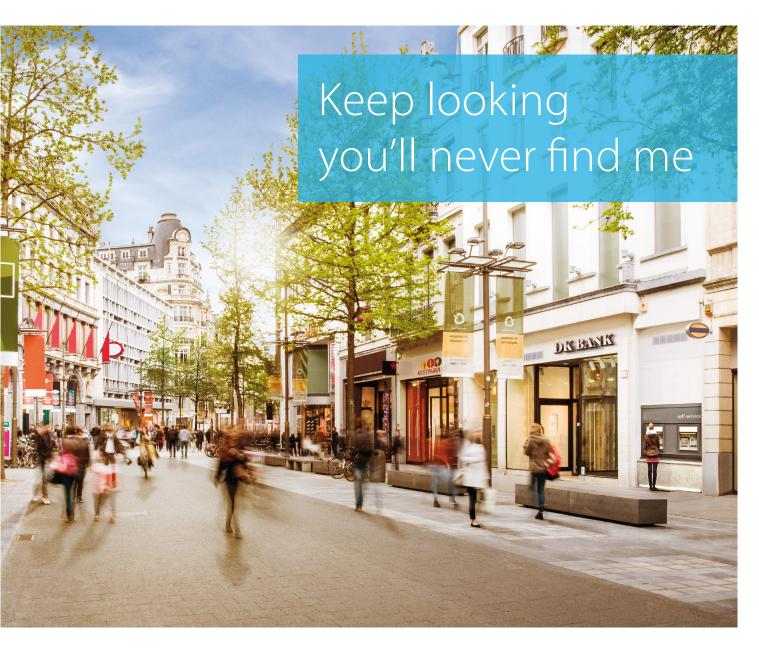


Already fully compliant to LOT 21 - Tier 2

Outdoor system			SB.RKX	YQ	5T8	8T
System	Heat exchanger unit				RDXYQ5T8	RDXYQ8T
	Compressor unit				RKXYQ5T8	RKXYQ8T
Capacity range				HP	5	8
Cooling capacity	Prated,c			kW	14.0 (1.000)	22.4 (1.000)
Heating capacity	Prated,h			kW	10.4	12.9
	Max. 6°CWB	. 6°CWB			16.0	25.0
ης,ς				%	200.1	191.1
ηs,h				%	149.3	140.9
SEER					5.1	4.9
SCOP					3.8	3.6
Maximum number o	f connectable indoor units				10	17
Indoor index	Min.				62.5	100.0
connection	Nom.				125.0	200.0
	Max.				162.5	260.0
Piping connections	Between Compressor	Liquid	OD r	nm	12	.7
	module (CM) and heat exchanger module (HM)	Gas	OD r	nm	19.1	22.2
Between Compressor Liquid			OD r	nm	9.5	52
	module (CM) and indoor units (IU)			nm	15.9	19.1
	Total piping length	System	Actual	m	140	300

Outdoor unit mo	ماريام			Heat exchar	nger module	Compress	or module	
Outdoor unit mo	auie			5T8	8T	5T8	8T	
Dimensions	Unit	HeightxWidthxDepth	mm	397x1,4	56x1,044	701x600x554	701x760x554	
Weight	Unit		kg	95	103	79	105	
Fan	Air flow rate	Cooling Nom.	m³/min	55	100	-		
Sound power level	Cooling	Nom.	dBA	77.0	81	60.0	64	
Sound pressure level	Cooling	Nom.	dBA	47.0	54	47.0	48	
Refrigerant	Type/GWP				-	R-410A/2,087.5		
	Charge kg/TC0		kg/TCO2Eq	-	/-	2.00/4.20	4.00/8.35	
Power supply	wer supply Phase/Frequency/Voltage Hz/V			1N~/50	/220-240	3N~/50/380-415		
Current - 50Hz	Maximum fuse amps (MFA) A		A	10	10	16	20	





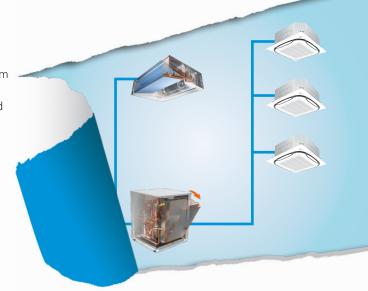
The city secret

Unseen in the best places

Our VRV IV i-series offers you a truly unique solution for installations where you need a totally invisible system. It is compact and easy to hide indoors, with only the grilles being visible outside. Split into two lightweight components, the compressor can be installed at floor level in a storage room or technical area, and the heat exchanger unit, which is only 400 mm high, can be installed in a standard false ceiling. The VRV IV i-series has a patented V-shaped heat exchanger which boosts efficiency. So your customer can now enjoy all the power of a fully invisible VRV system.











VRV 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



Combination table

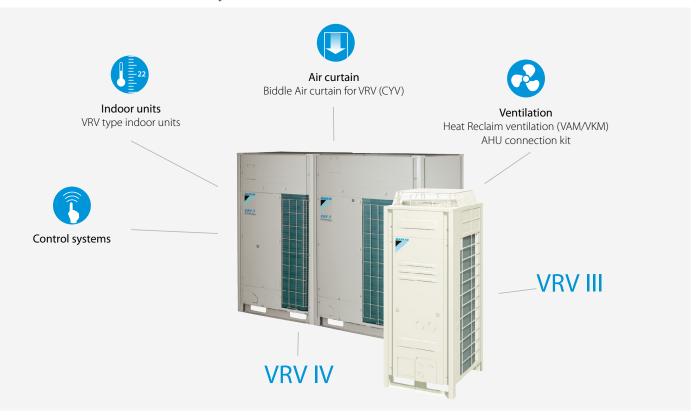
	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP	34HP	36HP	38HP	40HP	42HP
RXMLQ8T				••	•												
RXYLQ10T	•				•	••	•				•••	••	•				
RXYLQ12T		•					•	••	•			•	••	•••	••	•	
RXYLQ14T			•						•	••					•	••	•••

Outdoor unit				RXMLQ8T7Y1B	RXYLQ10T7Y1B	RXYLQ12T7Y1B	RXYLQ14T7Y1B
				For multi combination only			
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
	Low. amb	Peak capacity (-15°C)	kW	25.0	31.5	37.5	45.0
ηs,c			%	-	251.4	274.4	270.1
ηs,h			%	-	114.3	137.6	133.3
SEER				-	6.36	6.93	6.83
SCOP				-	3.68	6.93	6.83
Maximum number o	f connectable	indoor units			64	(1)	
Indoor index	Min.			-	175	210	245
connection	Max.			-	325	390	455
Dimensions	Unit	HeightxWidthxDepth	mm		1,657 x 1,	240 x 765	
Weight	Unit		kg	295	295	295	295
Sound power level	Cooling	Nom.	dBA	75	77	81	81
Sound pressure level	Cooling	Nom.	dBA	55	56	59	59
Operation range	Cooling	Min.~Max.	°CDB		-5 ~	43	
	Heating	Min.~Max.	°CWB		-25 ~	15,5	
Refrigerant	Type/GWP				R-410A	/ 2,087.5	
	Charge		kg/TCO2Eq		11.8/	24.63	
Piping connections	Liquid	OD	mm	9.5	52	1.	2.7
	Gas	OD	mm	19.1	22.2	2	3.6
	Total piping length	System Actual	m		50	00	
Power supply	Phase/Freq	uency/Voltage	Hz/V		3~/50/	380-415	

(1) Actual number of connectable indoor units depends on the indoor unit type and the connection ratio restriction for the system

Replacement VRV

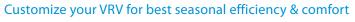
Quick & quality replacement for R-22 and R-407C systems





Heat pump

Variable refrigerant temperature





VRV configurator

Software for simplified commissioning, configuration and customisation

- > 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

YRYII-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

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

Replacement technology



The quick and quality way of upgrading R-22 and R-407C systems

These benefits will convince your customer

Drastically improve your efficiency, comfort and reliability

Avoid loss of business

Replacing now prevents unplanned, lengthy downtime of air conditioning systems. It also avoids loss of business for shops, complaints from guests in hotels, lower working efficiency and loss of tenants in offices.

Quick and easy installation

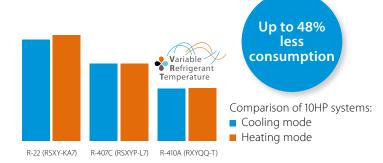
No interruption of daily business while replacing the system thanks to phased-in, fast installation.

Smaller footprint, more performance

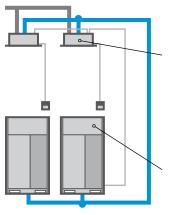
Thanks to a smaller footprint, Daikin outdoor units save space. Also, more indoor units can be connected to the new outdoor unit compared to the old system, allowing to increase capacity.

Lower long-term costs

EU Directives prohibit system repairs with R-22 after January 1, 2015. Delaying the required R-22 replacement until an unplanned system breakdown is a losing game. Replacement day will come. Installing a technically advanced system lowers energy consumption and maintenance costs from day one.



Keep your refrigerant piping



The Daikin low-cost upgrade solution

Replace indoor units and BS boxes

Contact your local dealer to check compatibility in case you need to keep the indoor units.

Replace outdoor units

Your copper pipes will last for multiple generations

- copper pipes used in air conditioning systems tested by Daikin will last over 60 years after installation.
- Japan/China have replaced with VRV Q-series already 10 years ago!

Umeda Center Building, Japan

- \rightarrow original A/C system: 20 years in us
- > replacement with VRV Q-series:
- > capacity up from 1620HP to 2322HP
- > SHASE renewal award:





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.

Compare installation steps

Conventional solution

- 1 Recover refrigerant
- 2 Remove units
- 3 Remove refrigerant pipes
- 4 Install new piping and wiring
- 5 Install new units
- 6 Leak test
- 7 Vacuum drying
- 8 Refrigerant charging
- 9 Collect contamination
- 10 Test operation

VRV-Q

- 1 Recover refrigerant
- 2 Remove units

Re-use existing piping and wiring

- 3 Install new units
- 4 Leak test
- 5 Vacuum drying
- 6 Auromatic refrigerant charging, cleaning and testing



Up to 45% shorter installation time

Automatic refrigerant charge

The unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and ensures that the system will operate perfectly. Not knowing the exact piping lengths because of changes or mistakes in case you didn't do the original installation or replacing a competitor installation no longer poses a problem.

Automatic pipe cleaning

There is no need to clean inside piping as this is handled automatically by the VRV-Q unit. Finally the test operation is performed automatically to save time.



One touch convenience:

- Measure and charge refrigerant
- Automatic pipe cleaning
- > 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 70% can be realized, by virtue of 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
- 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-T only)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors (RXYQQ-T only)
- > Possibility to add indoor units and increase capacity without changing the refrigerant piping
- > Possibility to spread the various stages of repclacement thanks to the modular design of the VRV system
- Free combination of outdoor units to meet installation space or efficiency requirements (RXYQQ-T only)





Outdoor unit syster	n			RQCEQ	280P3	360P3	460P3	500P3	540P3	636P3	712P3	744P3	816P3	848P3
System	Outdoor un	it module	1		RQEQ140P3	RQEQ180P3	RQEQ	140P3	RQEQ180P3	RQEQ212P3	RQEQ	140P3	RQEQ180P3	RQEQ212P3
	Outdoor un	it module 2	2		RQEQ140P3	RQEQ180P3	RQEQ140P3	RQEC	(180P3	RQEQ212P3	RQEQ	180P3	RQEQ	212P3
	Outdoor un	it module :	3			-		RQEQ180P3	3	RQEQ212P3	RQEQ180P3		RQEQ212P3	3
	Outdoor un	it module 4	4					-				RQEC	212P3	
Capacity range				HP	10	13	16	18	20	22	24	26	28	30
Cooling capacity	Prated,c			kW	28.0	36.0	46.0	50.0	54.0	60.0	70.0	72.0	78.0	80.0
Heating capacity	Prated,h			kW	32.0	40.0	52.0	56.0	60.0	67.2	78.4	80.8	87.2	89.6
ηs,c				%	200	185	191	201	198	186	19	94	204	187
ηs,h				%	159	157	161	150	148	157	153	1	55	157
Maximum number o	fconnectable	indoor uni	ts		21	28	34	39	43	47	52	56	60	64
Indoor index	Min.				140	180	230	250	270	318	356	372	408	424
connection	Nom.				280	360	5	00	540	636	712	744	816	848
	Max.				364	468	598	650	702	827	926	967.0	1,061	1,102
Piping connections	Liquid	OD		mm	9.52	12	2.7		15	5.9			19.1	
	Gas	OD		mm	22.2	25.4			28.6				34.9	
	Total piping length	System	Actual	m					3	00				
Power supply	Phase/Freq	uency/Volt	age	Hz/V					3~/5	0/400				
Current - 50Hz	Maximum f	use amps (l	MFA)	Α	30	40	50	(50	70	8	0	9	0
Outdoor unit modu	le			ROEO-P3		140P3			18	0P3			212P3	
Dimensions	Unit	HeightxW	/idthxDepth	mm					1,680x6	635x765				
Weight	Unit			kg				175					179	
Fan	Air flow rate	Cooling	Nom.	m³/min		95					110			
	Туре								Prope	ller fan				
Sound power level	Cooling	Nom.		dBA		79				33			87	
Sound pressure level	Cooling	Nom.		dBA						-				
Operation range	Cooling	Min.~Max	ζ.	°CDB					-5-	~43				
,	Heating	Min.~Max	ζ.	°CWB					-20~	~15.5				
Refrigerant	Type/GWP								R-410A	/2,087.5				
-	Charge			kg/TCO2Eq		10.3/21.	5		10.6	/22.1			11.2/23.4	
Power supply	Phase/Freq	uency/Volt	age	Hz/V					3~/50/	380-415				
Current - 50Hz	Maximum f	use amps (MFA)	Α		15			2	20			22.5	







Replacement VRV, heat pump



Already fully compliant to LOT 21 - Tier 2

Outdoor unit				RXYQQ	RQYQ140	P :	8T	10T	12T		14T	16T	18	3T	20T
Capacity range				HP	5		8	10	12		14	16	1.	8	20
Cooling capacity	Prated,c			kW	14.0	2	2.4	28.0	33.5		40.0	45.0	50).4	52.0
Heating capacity	Prated,h			kW	16.0	1	3.7	16.0	18.4		20.6	23.2	27	'.9	31.0
3 . ,	Max.	6°CWB		kW	-	2	25.0	31.5	37.5		45.0	50.0	56	5.5	63.0
ηs,c				%	194	2	12.4	222.0	216.9)	226.6	216.8	210	6.2	210.3
ηs,h				%	137	14	42.0	147.2	149.6	5	136.7	137.0	14	1.4	145.4
SEER					-		5.4	5.6	5.5		5.7		5.5		5.3
SCOP					-		3.6		3.8		3.5	5	3.	.6	3.7
Maximum number o	f connectable	indoor units			10						64 (1)				
Indoor index	Min.				62.5	10	0.00	125.0	150.0)	175.0	200.0	225	5.0	250.0
connection	Nom.				125	2	200	250	300		350	400	45	50	500
	Max.				162.5	26	60.0	325.0	390.0)	455.0	520.0	58	5.0	650.0
Dimensions	Unit	HeightxWi	dthxDepth	mm	1,680x635x7	65	1,	685x930x76	55			1,685	x1,240x76	5	
Weight	Unit			kg	175	1	187		194		30	5		314	
Fan	Air flow rate	Cooling	Nom.	m³/min	95	1	162	175	185		223	260	25	51	261
Sound power level	Cooling	Nom.		dBA	79	7	'8.0	79.0		81.0			86.0		88.0
Sound pressure level	Cooling	Nom.		dBA	-		58.0)		61.0		64.0	65	5.0	66.0
Operation range	Cooling	Min.~Max.		°CDB	-5~43					-5	.0~43.0				
	Heating	Min.~Max.		°CWB	-20~15.5					-20	0.0~15.5				
Refrigerant	Type/GWP								R	410A/2,08	7.5				
	Charge			kg/TCO2Eq	11.1/23.2	5.9	/12.3	6.0/12.5	6.3/13	.2 10	0.3/21.5	10.4/21.7	11.7/	/24.4 1	1.8/24.6
Piping connections	Liquid	OD		mm	9.52		9,52	2			12,7			15,9	
	Gas	OD		mm	15.9	1	9.1	22.2				28.6			
	Total piping length	System	Actual	m	300						300				
Power supply	Phase/Freq	uency/Volta	ge	Hz/V	3~/50/380-4	15				3N~/	50/380-415				
Current - 50Hz	Maximum f	use amps (N	IFA)	Α	15		20	25		32			40		50
Outdoor system				RXYQQ	22T	24T	26T	28T	30T	32T	34T	36T	38T	40T	42T
System	Outdoor un	it module 1		ioriqq	RXYQQ10T	RXYOO8T		RXYOO12T		72 .	RXYOO16T		RXYO08T		Q10T
5,5	Outdoor un					RXYQQ16T	RXYOO14T	RXYQQ16T		RXYOO16T			RXYQQ10T		
	Outdoor un				IMIQQIZI	intiggioi	INTIQQITI	IIXIQQIOI	- INTEGRATOR	INTIQUIOT	IIIIQQIOI	INTIQUE	RXYQQ20T	RXYQQ18T	RXYQQ16
Capacity range	outdoor un	it module 5		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	102.4	111.9	118.0
Heating capacity	Prated,h			kW	34.4	36.9	37.1	39.7	44.4	46.4	51.1	56.4	59.4	58.9	60.9
ricuting capacity	Max.	6°CWB		kW	69.0	75.0	82.5	87.5	94.0	100.0	106.5	113.0	119.5	125.5	131.5
ηs,c	maxi	0 0110		%	213.5	215.3	222.0	216.8	216.2	216.8	216.4	213.2	213.6		7.6
				70	213.3				138.8	137.0	141.8	145.7	147.6	145.7	143.3
-				%	1500	144 5						1 1517	, .0		
ηs,h				%	150.0 5.4	144.5	143.8	142.6				5	4		. 5
ηs,h SEER				%	5.4	5.5	5.6		5.	5	3.6	-	.4		i.5
ηs,h SEER SCOP	f connectable	indoor units		%		5.5	_	3.6		5 5	3.6	3.7	3.8		i.5 i.7
ns,h SEER SCOP Maximum number o		indoor units		%	5.4 3.8	5.5	5.6	3.6	5.	5 5 64 (1)		3.7	3.8	3	7
ns,h SEER SCOP Maximum number o Indoor index	Min.	indoor units		%	5.4 3.8 275.0	5.5 3	5.6 5.7 325.0	3.6	375.0	5 5 64 (1) 400.0	425.0	3.7 450.0	3.8 475.0	500.0	525.0
ns,h SEER SCOP Maximum number o Indoor index	Min. Nom.	indoor units		%	5.4 3.8 275.0 550	5.5 300.0 600	5.6 3.7 325.0 650	3.6 350.0 700	375.0 750	5 5 64 (1) 400.0 800	425.0 850	3.7 450.0 900	3.8 475.0 950	500.0 1,000	525.0 1,050
ns,h SEER SCOP Maximum number o Indoor index connection	Min. Nom. Max.				5.4 3.8 275.0 550 715.0	5.5 300.0 600 780.0	5.6 5.7 325.0	3.6	375.0	5 5 64 (1) 400.0	425.0 850 1,105.0	3.7 450.0	3.8 475.0	500.0	525.0 1,050
ns,h SEER SCOP Maximum number o Indoor index connection	Min. Nom. Max. Liquid	OD		mm	5.4 3.8 275.0 550 715.0	5.5 300.0 600 780.0	5.6 3.7 325.0 650	3.6 350.0 700 910.0	375.0 750 975.0	5 5 64 (1) 400.0 800	425.0 850	3.7 450.0 900	3.8 475.0 950 1,235.0	500.0 1,000 1,300.0	525.0 1,050
ns,h SEER SCOP Maximum number o Indoor index connection	Min. Nom. Max. Liquid Gas	OD OD		mm mm	5.4 3.8 275.0 550 715.0	5.5 300.0 600 780.0	5.6 3.7 325.0 650	3.6 350.0 700 910.0	375.0 750	5 5 64 (1) 400.0 800 1,040.0	425.0 850 1,105.0	3.7 450.0 900	3.8 475.0 950 1,235.0	500.0 1,000	525.0 1,050
-	Min. Nom. Max. Liquid Gas Total piping length	OD	Actual	mm	5.4 3.8 275.0 550 715.0	5.5 300.0 600 780.0	5.6 3.7 325.0 650	3.6 350.0 700 910.0	375.0 750 975.0	5 5 64 (1) 400.0 800	425.0 850 1,105.0 19,1	3.7 450.0 900	3.8 475.0 950 1,235.0	500.0 1,000 1,300.0	525.0

Water cooled VRV IV W+ series

Ideal for high rise buildings, using water as heat source

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





VRV IV standards: Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator **NEW**

Software for simplified commissioning, configuration and customisation

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





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

Total solution







Biddle air curtain



NEW Nexura



NEW Air handling unit for ventilation

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 cooing in the technical room
- > Control heat dissipation to achive maximum efficiency: set target technical room temperature and unit regulates actual heat dissipation











Intelligent Manager



NEW High temperature hydrobox





With all existing standard functions

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

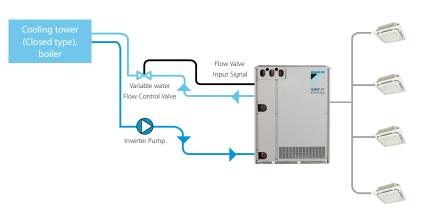
Maximum design flexibility and installation speed

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

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



Single port

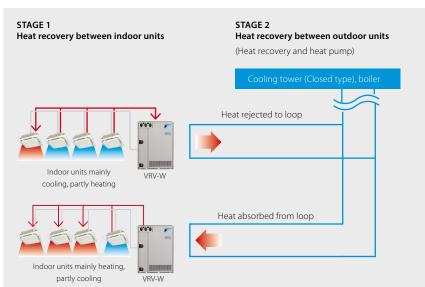
Multi port: 4 – 6 – 8 – 10 – 12 – 16



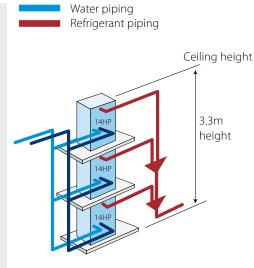


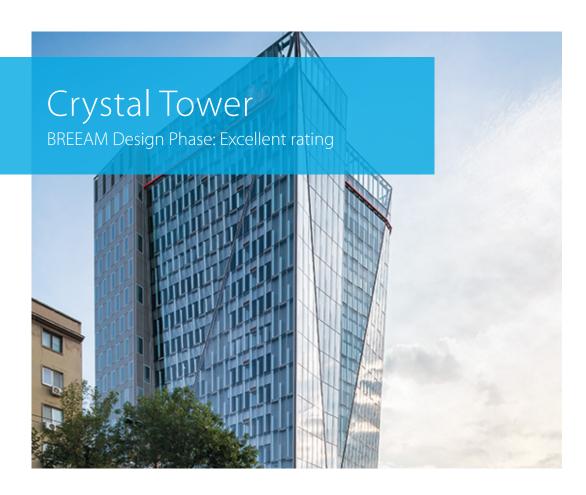


2-stage heat recovery



Stacked configuration







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 m² Total usable area: 20,020 m² Floors: 4 basements, 15 floors, technical floor Building height: 72 m Office space per level: approx. 1,000 m²

Daikin systems installed

- > 67 x VRV water-cooled units
- > 2 x VRV outdoor heat numn 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



767mm

Highly improved efficiency thanks to enlarged heat exchanger

Easy access to components Easy front plate removal Rotating switchbox step 1 step 2

Zero heat dissipation principle

No need for ventilation or cooling of the technical room



> Enhancing installation flexibility and reliability of parts

PCB generates heat

Compessor generates heat

Smallest footprint on the market

VRV IV technology

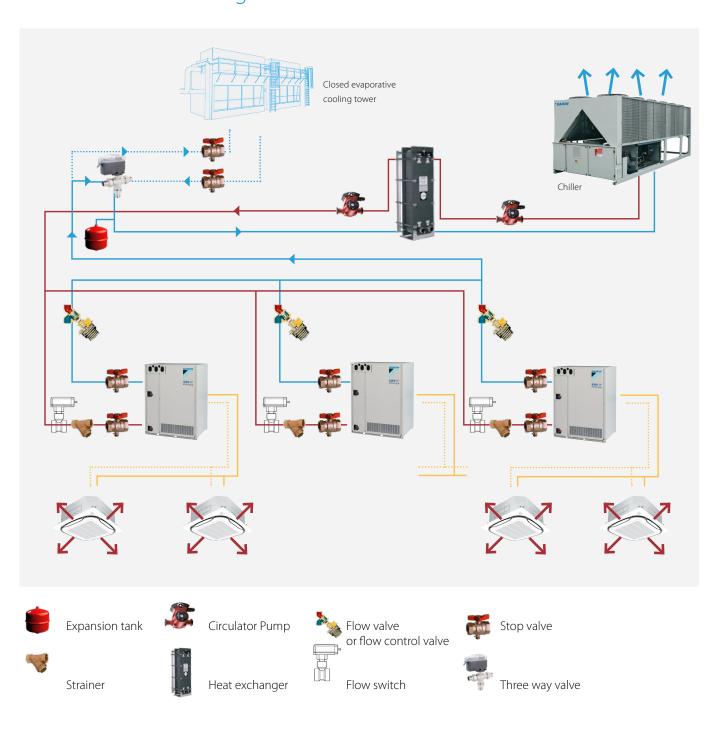


- > VRV configurator
- >7 segment display

Application

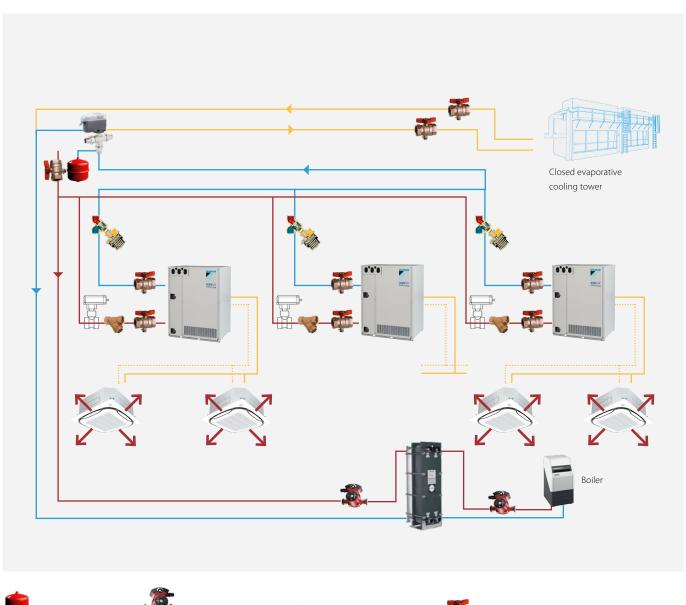
examples

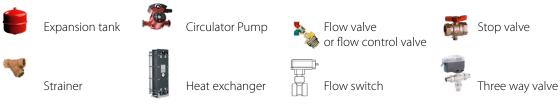
Closed evaporative cooling tower used for cooling, Chiller used for heating



Cooling mode Heating mode Refrigerant flow

Dry cooler used for cooling, boiler used for heating



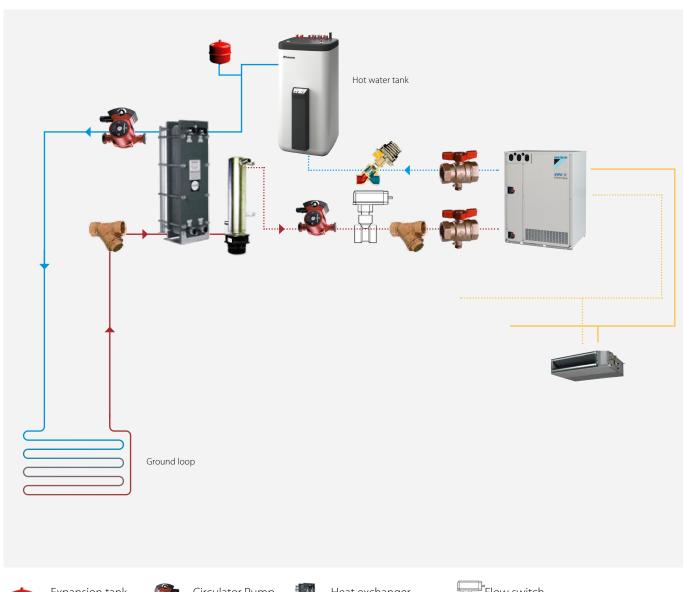


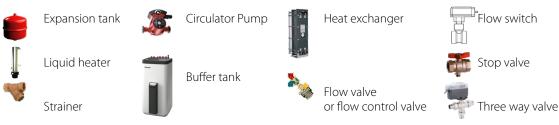


Application

examples

Geothermal operation





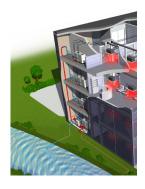


Ground loop

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

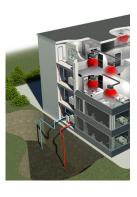


Conditions:

- > 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 corosiveness:
- 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
- ✓ 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.
- **x** Glycol is needed to prevent freezing of the water.

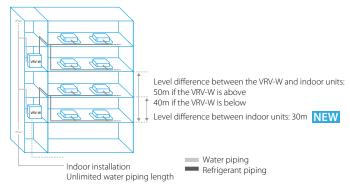
VRV IV water cooled+series

Ideal for high rise buildings, using water as heat source

- Environmental conscious solution: reduced CO2 emmisions thanks to the use of geothermal energy as a renewable energy source and typical lower refrigerant levels making it ideal to comply with FN378
- 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
- NEW > Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexibility
- NEW > Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7-segment display and full inverter compressors
- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency and no more cold draft by supply of high outblow temperatures

NEW > 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

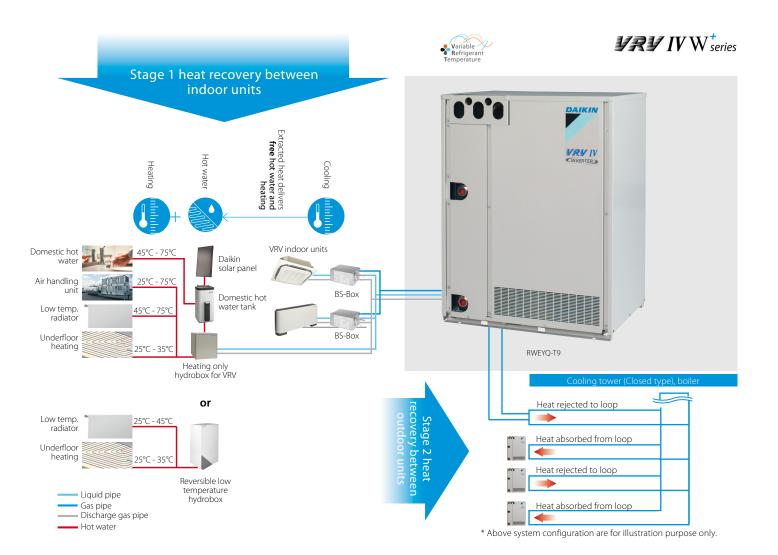
- NEW > Compact & lightweight design can be stacked for maximum space saving: 42HP can be installed in less than 0,5m² floorspace
- 2-stage heat recovery: first stage between indoor units, second stage between outdoor units thanks to the storage of energy in the water circuit
- Unified model for heat pump and heat recovery version and geothermal and standard operation
- Variable Water Flow control option increases flexibility and control
 NEW
 2 analogue input signals allowing external control of ON-OFF, operation mode, error signal, ...
- > Contains all standard VRV features



NEW Extended piping length between indoor and outdoor units up to 165m (actual)

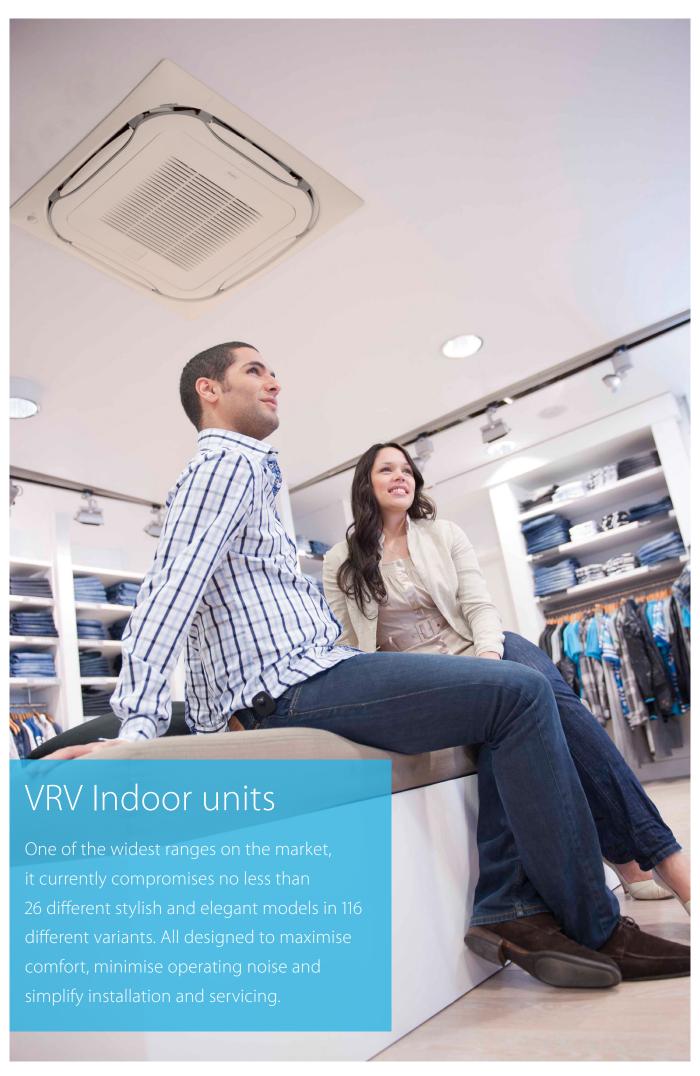


Outdoor unit				RWEYQ	8T9	10T9	12T9	14T9
Capacity range				HP	8	10	12	14
Cooling capacity	Prated,c			kW	22.4	28.0	33.5	40.0
Heating capacity	Prated,h			kW	25.0	31.5	37.5	45.0
	Max.	6°CWB		kW	25.0	31.5	37.5	45.0
ηs,c				%	326.8	307.8	359.0	330.7
ηs,h				%	524.3	465.9	436.0	397.1
SEER					8.4	7.9	9.2	8.5
SCOP					13.3	11.8	11.1	10.1
Maximum number of	connectable i	indoor unit	S			64	(1)	
Indoor index	Min.				100.0	125.0	150.0	175.0
connection	Nom.				200	250	300	350
	Max.				300.0	375.0	450.0	525.0
Dimensions	Unit	HeightxW	idthxDepth	mm		980x76	57x560	
Neight	Unit			kg	19	95	19	7
Sound power level	Cooling	Nom.		dBA	65.0	71.0	72.0	74.0
iound pressure level	Cooling	Nom.		dBA	48.0	50.0	56.0	58.0
Operation range	Inlet water	Cooling	Min.~Max.	°CDB		10-	-45	
	temperature	Heating	Min.~Max.	°CWB		10-	-45	
	Temperature around casing			°CDB		4	0	
	Humidity around casing	Cooling~Heating]	%		80-	-80	
Refrigerant	Type/GWP					R-410A	/2,087.5	
	Charge			kg/TCO2Eq	7.9/	16.5	9.6/2	0.0
Piping connections	Liquid	OD		mm	9,	52	12,	7
	Gas	OD		mm	19.1 (2)	22.2 (2)	28.6	(2)
	HP/LP gas	OD		mm	15.9 (3) / 19.1 (4)	19.1 (3) / 22.2 (4)	19.1 (3) / 28.6 (4)	22.2 (3) / 28.6 (4)
	Drain	Size				14mm OD	/ 10mm ID	
	Water	Inlet/Outle	et			ISO 228-G1 1/4 B	/ISO 228-G1 1/4 B	
	Total piping length	System	Actual	m		50	00	
Power supply	Phase/Frequ	uency/Volta	ige	Hz/V		3N~/50/	380-415	
Current - 50Hz	Maximum fu	use amps (N	ΛFA)	A	2	20	25	5



Outdoor system			RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9
System	Outdoor ur	nit module 1		RWEY	'Q8T	RW	EYQ10T	RWE'	/Q12T	RWEYQ14T
	Outdoor ur	nit module 2		RWEYQ8T	RWE	YQ10T	RWEYO)12T	RWE	YQ14T
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
ης,ς			%	307.6	308.7	298.1	311.3	342.6	322.5	306.1
ηs,h SEER			%	459.2 7.	491.1	466.8 7.7	447.9 8.0	434.5 8.8	406.9 8.3	387.9 7.9
SCOP				11.7	12.5	11.9	11.4	11.1	10.4	9.9
Maximum number of	f connoctable	indoorunits		11./	12.3	11.9	64 (1)	11.1	10.4	9.9
Indoor index	Min.	ilidool ullits		200.0	225.0	250.0	275.0	300.0	325.0	350.0
connection	Nom.			400	450	500	550	600	650	700
connection	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			9,1
	Gas	OD	mm		28	.6 (2)			34.9 (2)	
	HP/LP gas	OD	mm	22.2 (3) /	28.6 (4)	28.6 (3	3) / 28.6 (4)		28.6 (3) / 34.9 (4)
	Total piping length		m				500			
Power supply		uency/Voltage	Hz/V				3N~/50/380-415			
Current - 50Hz	Maximum f	use amps (MFA)	Α	3:	2	35	40			50
Outdoor system			RWEYQ	30T9	32T9	34T9	36T9	38T9	40T9	42T9
System	Outdoor ur	nit module 1			RWEYQ10T			RWEYQ12T		RWEYQ14T
	Outdoor ur	nit module 2		RWEY	Q10T		RWEYQ12T		RWE	YQ14T
	Outdoor ur	nit module 3		RWEYQ10T		RWEYQ12T			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
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		3.7	8.5
SCOP				11.9	11.6	11.4	11.2	10.7	10.3	10.0
Maximum number of	f connectable	indoor units		11.5	11.0		64 (1)	10.7	10.5	10.0
Indoor index	Min.			375.0	400.0	425.0	450.0	475.0	500.0	525.0
connection	Nom.			750	800	850	900	950	1,000	1,050
	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	17.2510	1,20010	1,2,510	19,1	1,12310	1,500.0	1,575.0
	Gas	OD	mm		34.9 (2)		,.	<i>A</i> 1	3 (2)	
	HP/LP gas	OD	mm		28.6 (3) / 34.9 (4	`	28.6 (3) / 41.3 (4)	41.	3 (2) 41.3 (4) / 34.9 (3)
					20.0 (3) / 34.9 (4	7			71.3 (4) / 34.9 (3	,
Danier annach :		System Actual	m LI=0/				500			
Power supply		uency/Voltage	Hz/V	50			3N~/50/380-415		1	00
Current - 50Hz	Maximum f	use amps (MFA)	A	50			63			80

⁽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%) | (2) In case of heat pump system, gas pipe is not used (3) In case of heat recovery system (4) In case of heat pump system



VRV Indoor units

VRV indoor units

Ceiling mounted cassette units UNIQUE FXFQ-A 101 UNIQUE FXZQ-A 102 FXCQ-A 106 FXKQ-MA 107 Concealed ceiling units 108 FXDQ-M9 **UNIQUE** Auto cleaning filter for concealed ceiling units 109 Multi zoning kit 110 FXDQ-A3 111 FXSQ-A 112 FXMQ-P7 / FXMQ-MB 114 Wall mounted unit 116 NEW FXAQ-A Ceiling suspended units FXHQ-A 117 UNIQUE FXUQ-A 119 Floor standing units FXNQ-A 120 FXLQ-P 121

Stylish indoor units

	BPMKS	
	Accessory to connect stylish indoor units	122
	Wall mounted	
NIQUE	FTXG-LS/LW	123
ESIGN UNIT	CTXS-K / FTXS-K / FTXS-G	126
	Floor standing	
NIQUE	FVXG-K	127
ADIATING PANEL	FVXS-F	129
	Flexi type unit	
	FLXS-B(9)	130

Products overview **JRJ**

Capacity class (kW)

ype	Model		oduct name		15	20	25	32	40	50	53	71 8	0 10	0 125	140	200	250
	UNIQUE Round flow cassette	360° air discharge for optimum efficiency and comfort > Auto cleaning function ensures high efficiency Intelligent sensors save energy and maximize comfort > Flexibility to suit every room layout > Lowest installation height in the market!	FXFQ-A			•	•	•	•	•	•			•			
nted cassette	UNIQUE Fully flat cassette	Unique design that integrates fully flat into the ceiling > Perfect integration in standard architectural ceiling tiles > Blend of iconic design and engineering excellence > Intelligent sensors save energy and maximize comfort > Small capacity unit developed for small or well-insulated rooms > Flexibility to suit every room layout	FXZQ-A		•	•	•	•	•	•							
Ceiling mounted cassette	2-way blow ceiling mounted cassette	Thin, lightweight design installs easily in narrow ceiling spaces > Depth of all units is 620mm, ideal for narrow ceiling spaces > Flexibility to suit every room layout > Reduced energy consumption thanks to DC fan motor > The flaps close entirely when the unit is not operating > Optimum comfort with automatic air flow adjustment to the required load	FXCQ-A			•	•	•	•	•	•			•			
	Ceiling mounted corner cassette	1-way blow unit for corner installation Compact dimensions enable installation in narrow ceiling voids Flexible installation thanks to different air discharge options	FXKQ-MA 4				•	•	•		•						
	Small concealed ceiling unit	Designed for hotel rooms Compact dimensions enable installation in narrow ceiling voids Discretely concealed in the ceiling: only the grilles are visible Flexible installation as the air suction direction can be altered from rear to bottom suction	FXDQ-M9			•	•										
0	Slim concealed ceiling unit	Slim design for flexible installation Compact dimensions enable installation in narrow ceiling voids Medium external static pressure up to 44Pa Only grilles are visible Small capacity unit developted for small of well-insulated rooms Reduced energy consumption thanks to DC fan motor	FXDQ-A3	E.	•	•	•	•	•	•	•		Auto	NEW clean r optic		M	NE ulti z opt
Concealed celling	Concealed ceiling unit with medium ESP	Slimmest yet most powerfull medium static pressure unit on the market! > Slimmest unit in class, only 245mm > Low operating sound level > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths > Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort	FXSQ-A		•	•	•	•	•	•	•			•	•	M	NE ulti z opt
	Concealed ceiling unit with high ESP	ESP up to 200, ideal for large sized spaces > Optimum comfort guaranteed no matter the length of ductwork or type of grilles, thanks to automatic air flow adjustment > Reduced energy consumption thanks to DC fan motor > Flexible installation as the air suction direction can be altered from rear to bottom suction	FXMQ-P7							•	•		•	•			
	Concealed ceiling unit with high ESP	ESP up to 270, ideal for extra large sized spaces > Only grilles are visible > Large capacity unit: up to 31.5 kW heating capacity	FXMQ-MB													•	•
wall mounted	Wall mounted unit	For rooms with no false ceilings nor free floor space > Flat, stylish front panel is more easy to clean > Small capacity unit developted for small of well-insulated rooms > Reduced energy consumption thanks to DC fan motor > The air is comfortably spread up- and downwards thanks to 5 different discharge angles	FXAQ-A	3	•	•	•	•	•	•	•						
Celling suspended	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 > Rooms with ceilings up to 3.8m can be heated or cooled very easily! > Can easily be installed in both new and refurbishment projects > Can even be mounted in corners or narrow spaces without any problem > Reduced energy consumption thanks to DC fan motor	FXHQ-A					•			•		•)			
Celling s	UNIQUE 4-way blow ceiling suspended unit	Unique Daikin unit for high rooms with no false ceilings nor free floor space Rooms with ceilings up to 3.5m can be heated up or cooled down very easily! Can easily be installed in both new and refurbishment projects Flexibility to suit every room layout Reduced energy consumption thanks to DC fan motor	FXUQ-A									•	•)			
rioor standing	Floor standing unit	For perimeter zone air conditioning > Can be installed in front of glass walls or free standing as both the front and the back are finished > Ideal for installation beneath a window > Requires very little installation space > Wall mounted installation facilitates cleaning beneath the unit	FXLQ-P			•	•	•	•	•	•						
NOOL S	Concealed floor standing unit	Ideal for installation in offices, hotels and residential applications > Discretely concealed in the wall, leaving only the suction and discharge grilles visible > Can even be installed underneath a window Requires very little installation space as the depth is only 200mm > High ESP allows flexible installation	FXNQ-A			•	•	•	•	•	•						
		7 High Lar allows hexible histaliation			_				_		_		_	_	_	_	_

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

 $^{(2) \} Nominal \ heating \ capacities \ are \ based \ on: indoor \ temperature: 20^{\circ}CDB, \ outdoor \ temperature: 7^{\circ}CDB, 6^{\circ}CWB, \ equivalent \ refrigerant \ piping: 5m, \ level \ difference: 0m \ outdoor \ temperature: 20^{\circ}CDB, \ outdo$

Stylish indoor units overview

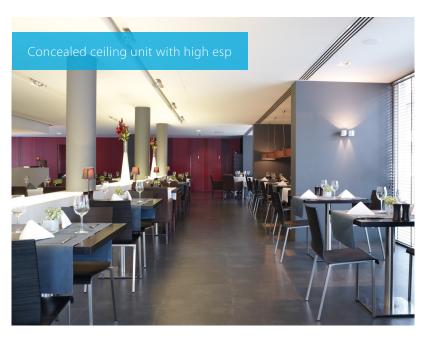
Depending on the application, Split and Sky Air indoor units can be connected to our VRV IV and VRV IV S-series outdoor units. Refer to the

Connectable outdoor unit outdoor unit portfolio for combination restrictions. RXYSCQ-TV13 RXYSQ-TV13 RXYSQ-TY13 Capacity class (kW) RXYQ-T(9) RWEYQ-T93 RYYQ-T Туре Model **Product name** 20 25 35 42 50 60 Round flow cassette ROUND FLOW FCAG-A (incl. auto-cleaning function1) Ceiling mounted cassette Fully flat FFA-A cassette Small concealed ceiling unit FDBQ-B Concealed Slim concealed ceiling unit FDXM-F3 ceiling Concealed ceiling unit FBA-A with inverter-driven fan Daikin Emura FTXG-LW/LS Wall mounted unit reddot award 2014 CTXS-K Wall Wall mounted unit mounted FTXS-K Wall mounted unit FTXS-G Ceiling Ceiling suspended unit FHA-A suspended Nexura floor standing unit FVXG-K Floor Floor standing unit FVXS-F standing Flexi type unit FLXS-B(9)

¹ Decoration panel BYCQ140DG9 or BYCQ140DGF9 + BRC1E53A/B/C needed

² To connect stylish indoor units a BPMKS unit is needed

 $^{^{\}rm 3}~{\rm A}~{\rm mix}$ of RA indoor units and VRV indoor units is not allowed.

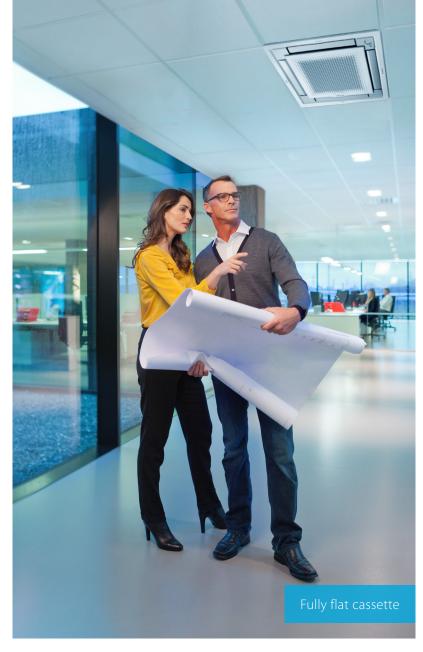












Benefits overview **JRJ**

	Home leave operation	During absence, indoor comfort levels can be maintained
B	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating
	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
))) 	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor
2	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 neightbourhood
A	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air
⊘ ⊘ DRY	Dry programme	Allows humidity levels to be reduced without variations in room temperature
\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ceiling soiling prevention	The air discharge of the indoor unit is specially designed to prevent air being blown against the ceiling to prevent ceiling stains
8	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution
S	Fan speed steps	Multiple fan speeds to select, to optimize comfort levels
×	Individual flap control	Individual flap control via the wired remote controller makes it simple to fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well
24/7	Weekly timer	Timer can be set to start and stop operation anytime on a daily or weekly basis
	Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit
	Wired remote control	Wired remote control to remotely control your indoor unit
	Centralised control	Centralised control to to control several indoor units from one single point
	Centralised control Multi zoning NEW	Centralised control to to control several indoor units from one single point Allows up to 6 individual climate zones with one indoor unit
4	Multi zoning NEW	Allows up to 6 individual climate zones with one indoor unit
A ANTO	Multi zoning NEW Auto-restart	Allows up to 6 individual climate zones with one indoor unit The unit restarts automatically at the original settings after power failure

Ce	iling mounte	ed cassette un	its		Cond	cealed ceiling	units		Wall mounted unit	Ceiling susp	ended units	Floor stan	ding units
FXFQ-A	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-M9	FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXAQ-A	FXHQ-A	FXUQ-A	FXNQ-A	FXLQ-P
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•					• NEW								
•	•												
•	•		•								•		
•	•	•			•	•		•					
•	•	•	•	•	•	•	•	•	•	•	•	•	•
G1 F8 (optional)	G1	•	G1	•	•	G1 F8 (optional)	•	G1 F8 (optional)	•	G1	G1	G1	G1
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•										
•	•	•	•						•		•		
3	3	3	2	2	3	3	3	2	2	3	3	2	2
•	•										•		
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
					• NEW	• NEW							
•	•	•	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
Standard	Standard	Standard	Standard		Standard	Standard	Standard	Optional	Optional	Optional	Standard		
•	•	(•)	(•)	•	•	•	•	(•)	•	(•)	(•)	•	•





Why choose a round flow cassette?

- 360° air discharge for optimum comfort
- Intelligent sensors for maximum efficiency

More energy efficient and user-friendly than any other cassette

- Running costs are reduced
 by 50% compared with standard solutions
- > Automatic filter cleaning.
- Less time is required to maintain the filter: dust can be removed easily with a vacuum cleaner without opening the unit.

Finer mesh panel

- For dust prone areas (i.e. clothing and book shops) a finer mesh panel (BYCQ140DGF9) ensures consistent performance and optimum air distribution
- > Clean ceilings ensured thanks to fine mesh and clean filter

BYCQ140DG9	BYCQ140DGF9
Auto-cleaning panel	Auto-cleaning panel with fine mesh filter
White with grey louvers	White with grey louvers

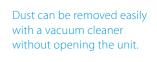
Auto-cleaning cassette for maintaining the optimum store atmosphere







Air distribution with a dusty filter







360° air discharge for improved comfort

> Industry-first and proven design.

Intelligent sensors improve efficiency and comfort even more

The presence sensor adjusts the set point if no one is detected in the room leading to up to 27% savings. It also automatically directs air flow away from any person to avoid draught.

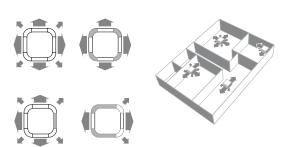


presence floor sensor

> The infrared floor sensor detects the average floor temperature and ensures even temperature distribution between ceiling and floor to prevent cold feet.

Flexible installation

> Flaps can be individually controlled or closed using the wired remote control, to suit room configuration. Optional closure kits are also available.



Benefits for the installer

- Product with unique functions in this market.
- Less time needed for onsite maintenance
- Use the controller to individually open or close any
 of the four flaps to easily adapt to a changing room layout.
- Easy set-up of the sensor option to improve comfort and save energy.

Benefits for the consultant

- > Product with unique functions in this market
- Designed for use in all types and sizes of commercial offices and retail environments.
- Ideal product for improving BREEAM score/EPBD in combination with Sky Air or VRV IV heat pump units.

Benefits for the end user

- Designed for use in all types and sizes of commercial offices and retail environments.
- Perfect environment conditions no more draughts or cold feet.
- Save up to 50% on running costs with the auto-cleaning panel, which also facilitates maintenance
- Your customers can save up to 27% on their energy bills thanks to the sensor option.
- > Flexible use of space thanks to individual flap control.

Marketing tools

> Visit the website: https://www.daikin.eu/en_us/product-group/round-flow-cassette.html





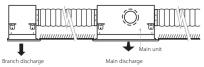




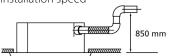
Round flow cassette

360° air discharge for optimum efficiency and comfort

- > Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications e.g. clothing shops)
- > 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!
- > Lowest installation height in the market: 214mm for class 20-63
- > Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or auto cleaning panel
- > Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- > 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





Indoor unit				FXFQ	20A	25A	32A	40A	50A	63A	80A	100A	125A					
Cooling capacity	Total capacity	Nom.		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00					
Heating capacity	Total capacity	Nom.		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0					
Power input - 50Hz	Cooling	Nom.		kW		0	.04		0.05	0.06	0.09	0.12	0.19					
	Heating	Nom.		kW		0	.04		0.05	0.06	0.09	0.11	0.18					
Dimensions	Unit	HeightxW	idthxDepth	mm			204x8	40x840			246x8	0.09 0.11 246x840x840 24						
Weight	Unit			kg		19		20	2	21	2	24	26					
Casing	Material							Gal	vanised steel	plate								
Decoration panel	Model						BYCQ140	D7GFW1 - au	to cleaning pa	nel with fine	mesh filter							
	Colour							Pur	e White (RAL 9	9010)	10)							
	Dimensions	HeightxW	idthxDepth	mm					130x950x950)								
	Weight			kg					10.3									
Decoration panel 2	Model							BYCQ140D7	GW1 - auto cl	leaning panel								
	Colour							Pur	e White (RAL 9	9010)	0)							
	Dimensions	HeightxW	idthxDepth	mm					130x950x950)	nite ny louvers							
	Weight			kg					10.3									
Decoration panel 3	Model							BYCQ1	40D7W1W - fu	ull white								
	Colour							Pur	e White (RAL 9	9010)								
	Dimensions	HeightxW	idthxDepth	mm					50x950x950									
	Weight			kg					5.4									
Decoration panel 4	Model							BYCQ140D7V	V1 - white wit	h grey louve	S							
	Colour							Pur	White (RAL 9	9010)								
	Dimensions	HeightxW	idthxDepth	mm					50x950x950									
	Weight			kg					5.4									
Fan	Air flow rate -	Cooling	Low/High	m³/min		8.8/12.5		9.5/13.6	10.5/15.0	10.5/16.5	12.4/22.8	12.4/26.5	19.9/33.0					
	50Hz	Heating	Low/High	m³/min		8.8/12.5		9.5/13.6	10.5/15.0	10.5/16.5	12.4/22.8	12.4/26.5	19.9/33.0					
Air filter	Type								Resin net									
Sound power level	Cooling	High		dBA		49		!	51	53	55	60	61					
Sound pressure level	Cooling	Low/Nom	./High	dBA		28.0/29.0/31.	0	29.0/3	1.0/33.0	30.0/33.0/35.0	30.0/34.0/38.0	30.0/37.0/43.0	36.0/41.0/45.0					
	Heating	Low/Nom	./High	dBA		28.0/29.0/31.	0	29.0/3	1.0/33.0	30.0/33.0/35.0	30.0/34.0/38.0	30.0/37.0/43.0	36.0/41.0/45.0					
Refrigerant	Type/GWP								R-410A/2,087	.5								
Piping connections	Liquid	OD		mm			6,35				9,	.52						
	Gas	OD		mm			12.70				15	.90						
	Drain							VP2	5 (O.D. 32 / I.D	.D. 25)								
Power supply	Phase/Freq	uency/Volta	age	Hz/V				1~/	50/60/220-240	0/220								
Current - 50Hz	Maximum f	use amps (N	MFA)	А					16									
Control systems	Infrared ren	note contro	ı						BRC7FA532F	32F								
	Wired remo	te control					BR	C1H51(9)W/S	/K / BRC1E53	A/B/C / BRC1	052							
	Simplified wi	red remote c	ontrol for hotel appli	cations			BRC2E52C	(heat recove	ry type) / BRC	3E52C (heat)	oump type)							

The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt. | BYCQ140D7W11: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel.





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-A) or VRV IV heat pump units (FXZQ-A).

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 2/% on your energy bill thanks to the optional sensors
- > Flexible usage of space and suits any room configuration thanks to individual flap contro
- User-friendly remote control, available in several languages.





Unique design

- > Designed by a European design office to fully meet the European taste.
- > Fully flat into the ceiling, leaving only 8mm.
- > Fully integrated in the one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles.
- > Decoration panel available in 2 colours (white and white-silver).





Differentiating in technology

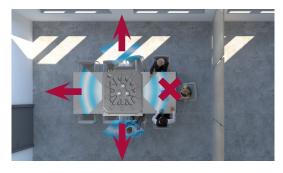
Optional presence sensor

- > When the room is empty, it can adjust the set temperature or switch off the unit – saving energy.
- When people are detected, the direction of the airflow is adapted to avoid cold draughts being directed towards occupants.



Optional floor sensor

 Detects the temperature difference and re-directs the airflow to ensure even temperature distribution.



Top efficiency

 When the room is empty, the sensor option can adjust the set temperature or switch off the unit – saving up to 27% energy.

Other benefits

- > Individual flap control: easily control one or more flaps via the wired remote controller (BRC1E/ BRC1H) when rearranging the room. When fully closing or blocking the flaps, the option "Sealing member of air discharge outlet" is needed.
- Most silent cassette in the market (25dBA), important for office applications.



Marketing tools

- > https://www.daikin.eu/en_us/product-group/fully-flat-cassette.html
- > www.youtube.com/DaikinEurope





Fully flat cassette

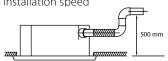
Unique design in the market that integrates fully flat into the ceiling

- > 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!



- > Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- > Optional fresh air intake
- Standard drain pump with 630mm lift increases flexibility and installation speed









Indoor unit				FXZQ	15A	20A	25A	32A	40A	50A			
Cooling capacity	Total capacity	Nom.		kW	1.70	2.20	2.80	3.60	4.50	5.60			
Heating capacity	Total capacity	Nom.		kW	1.90	2.50	3.20	4.00	5.00	6.30			
Power input - 50Hz	Cooling	Nom. kW				0.043		0.045	0.059	0.092			
	Heating	Nom. kW				0.036		0.038	0.053	0.086			
Dimensions	Unit	HeightxW	/idthxDepth	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	HeightxW	/idthxDepth	mm	46x620x620								
	Weight		·	kg	2.8								
Decoration panel 2	Model				BYFQ60C2W1S								
	Colour				SILVER								
	Dimensions												
	Weight	kg 2.8											
Decoration panel 3	Model				BYFQ60B2W1								
	Colour				White (RAL9010)								
	Dimensions	HeightxW	/idthxDepth	mm	55x700x700								
	Weight			kg	2.7								
Decoration panel 4	Model				BYFQ60B3W1								
	Colour				WHITE (RAL9010)								
	Dimensions	HeightxW	/idthxDepth	mm	55x700x700								
	Weight			kg	2.7								
Fan	Air flow rate	Cooling	Low/High	m³/min	6.5/8.5	6.5/8.7	6.5/9.0	7.0/10.0	8.0/11.5	10.0/14.5			
	- 50Hz	Heating	Low/High	m³/min	6.5/8.5	6.5/8.7	6.5/9.0	7.0/10.0	8.0/11.5	10.0/14.5			
Air filter	Type				Resin net								
Sound power level	Cooling	High		dBA	4	.9	50	51	54	60			
Sound pressure level	Cooling	Low/Nom	ı./High	dBA	25.5/28.0/31.5	25.5/29.5/32.0	25.5/30.0/33.0	26.0/30.0/33.5	28.0/32.0/37.0	33.0/40.0/43.0			
	Heating	Low/Nom	ı./High	dBA	25.5/28.0/31.5	25.5/29.5/32.0	25.5/30.0/33.0	26.0/30.0/33.5	28.0/32.0/37.0	33.0/40.0/43.0			
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				1~/50/60/220-240/220								
Current - 50Hz	Maximum fuse amps (MFA) A				16								
Control systems	Infrared ren	note contro	ol		BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)								
	Wired remote control				BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52								
	Simplified wi	red remote o	ontrol for hotel applic	ations	BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)								

2-way blow ceiling mounted cassette

Thin, lightweight design installs easily in narrow corridors

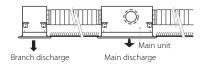
- > Depth of all units is 620mm, ideal for narrow spaces
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



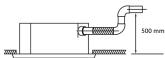
- > Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- > Fresh air intake integrated in the 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



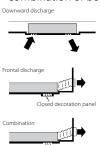
Indoor unit				FXCQ	20A	25A	32A	40A	50A	63A	80A	125A	
Cooling capacity	Total capacity	Nom.		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
Heating capacity	Total capacity	Nom.		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0	
Power input - 50Hz	Cooling	Nom.		kW	0.031	0.0	39	0.041	0.059	0.063	0.090	0.149	
	Heating	Nom.		kW	0.028	0.028 0.035 0.03		0.037	0.056	0.060	0.086	0.146	
Dimensions	Unit	Unit HeightxWidthxDepth r				305x7	75x620		305x990x620		305x1,445x620		
Weight	Unit	it				1	9		22	25	33	38	
Casing	Material	Material Galvanised steel plate											
Decoration panel	Model	İ			BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1		
	Colour				Fresh white (6.5Y 9.5/0.5)								
	Dimensions	HeightxWidthxDepth m		mm	55x1,070x700				55x1,285x700		55x1,740x700		
	Weight	nt kg			10				11		1	3	
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	7.5/10.5	8/1	1.5	8.5/12	10.5/15	11.5/16	18.5/26	22.5/32	
Air filter	Type	rpe				Resin net							
Sound power level	Cooling	Nom./High	h	dBA	46/48	47/50	48/50	49/52	51/53	53/55	54/58	58/62	
Sound pressure level	Cooling	Low/Nom.	./High	dBA	28.0/30.0/32.0	29.0/31.0/34.0	30.0/32.0/34.0	31.0/33.0/36.0	31.0/35.0/37.0	32.0/37.0/39.0	33.0/38.0/42.0	38.0/42.0/46.0	
	Heating	Low/Nom.	./High	dBA	28.0/30.0/32.0	29.0/31.0/34.0	30.0/32.0/34.0	31.0/33.0/36.0	31.0/35.0/37.0	32.0/37.0/39.0	33.0/38.0/42.0	38.0/42.0/46.0	
Refrigerant	Type/GWP				R-410A/2,087.5								
Piping connections	Liquid	OD m			6.35					9.52			
	Gas	OD		mm			12.7				15.9		
	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				BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52								
	Simplified wi	red remote co	ontrol for hotel app	olications	BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)								



Ceiling mounted corner cassette

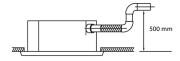
1-way blow unit for corner installation

- > 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





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

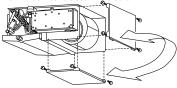


Indoor unit			FXKQ	25MA	32MA	40MA	63MA				
Cooling capacity	Total capacity	Nom.	kW	2.8	3.6	4.5	7.10				
Heating capacity	Total capacity	Nom.	kW	3.2	4.0	5.0	8.00				
Power input - 50Hz	Cooling	Nom.	kW	0.0	066	0.076	0.105				
	Heating	Nom.	kW	0.0)46	0.056	0.085				
Dimensions	Unit	HeightxWidthxDepth	mm		215x1,110x710		215x1,310x710				
Weight	Unit		kg		31		34				
Casing	Material				Galvanise	d steel plate					
Decoration panel	Model				BYK45FJW1		BYK71FJW1				
	Colour				W	hite					
_	Dimensions	HeightxWidthxDepth	mm			70x1,440x800					
	Weight		kg		8.5		9.5				
Fan	Air flow rate - 50Hz	Cooling Low/High	m³/min	9/	11	10/13	15/18				
Air filter	Туре				Resi	n net					
Sound power level	Cooling	High	dBA	5	4	56	58				
Sound pressure level	Cooling	Low/High	dBA	33.0	/38.0	34.0/40.0	37.0/42.0				
Refrigerant	Type/GWP				R-410 <i>P</i>	/2,087.5					
Piping connections	Liquid	OD	mm		6.35		9.52				
	Gas	OD	mm		12.7		15.9				
	Drain			VP25 (O.D. 32 / I.D. 25)							
Power supply	Phase/Freq	uency/Voltage	Hz/V		1~/50/60/2	220-240/220					
Current - 50Hz	Maximum f	use amps (MFA)	Α	15							
Control systems	Infrared ren	note control		BRC4C61							
	Wired remo	te control		BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52							
	Simplified wi	red remote control for hotel app	lications	BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)							

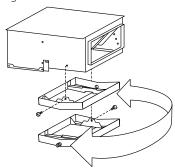
Small concealed ceiling unit

Designed for hotel applications

- Compact unit (230mm high & 652mm deep), can easily be mounted in narrow ceiling voids
- > Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



> For easy mounting, the drain pan can be located to the left or right of the unit





Indoor unit				FXDQ	20M9	25M9					
Cooling capacity	Total capacity	Nom.		kW	2.20	2.80					
Heating capacity	Total capacity	Nom.		kW	2.5	3.2					
Power input - 50Hz	Cooling	Nom.		kW	0.050	0.050					
	Heating	Nom.		kW	0.050	0.050					
Required ceiling void	>			mm	25	0					
Dimensions	Unit	HeightxWi	dthxDepth	mm	230x50	2x652					
Weight	Unit			kg	11	7					
Casing	Material				Galvanis	sed steel					
Fan	Air flow rate	Cooling	Low/High	m³/min	5.2/6.7	5.8/7.4					
	- 50Hz	Heating	Low/High	m³/min	5.2/6.7	5.8/7.4					
Air filter	Type				Resir	n net					
Sound power level	Cooling	Nom.		dBA	50						
Sound pressure level	Cooling	Low/High		dBA	32.0/37.0	32.0/37.0					
	Heating	Low/High		dBA	32.0/37.0	32.0/37.0					
Refrigerant	Type				R-4	10A					
Piping connections	Liquid	OD		mm	6.3	35					
	Gas	OD		mm	12	.7					
	Drain				I.D. 21.6, O.D. 27.2						
Power supply	Phase/Freq	uency/Volta	ge	Hz/V	z/V 1~/50/230						
Current - 50Hz	Maximum f	use amps (N	IFA)	А	10	6					
Control systems	Wired remo	te control			BRC1H51(9)W/S/K / BR	C1E53A/B/C / BRC1D52					

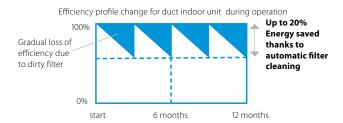




The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs

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



airflow direction UNIQUE Patents pending

How does it work?

- 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

	S	plit/	Sky A	ir	VRV										
		FDX	M-F3				F	(DQ-	A 3						
	25	35	50	60	15	20	25	32	40	50	63				
BAE20A62	•	•			•	•	•	•							
BAE20A82									•	•					
BAE20A102			•	•							•				

Specifications

	BAE20A62	BAE20A82	BAE20A102
Heigth (mm)		212	
Width (mm)	764	964	1164
Width (mm) (incl. hanger bracket)	984	1094	1294
Depth (mm)		201	



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.

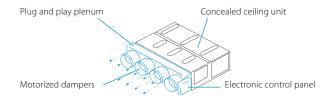
Benefits

Increased comfort

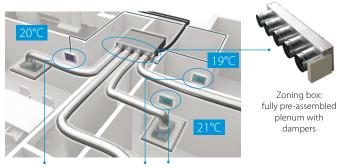
- > Increases comfort levels by allowing more individual zone control
 - Up to 8 individual zones can be served thanks to separate modulating dampers
 - Individual thermostat for room-by-room or zone-by-zone control

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?



Individual zone thermostats

Blueface - Airzone Main Thermostat

- Color graphic interface for controlling zones
- > Wired communication



AZCE6BLUEFACECB

Airzone Zone Thermostat

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



AZCE6THINKRB

Airzone Zone Thermostat

- Thermostat with buttons for controlling the temperature
- > Radio communication



AZCE6LITERB

Compa	tik	oility							S	k	//	ir	•												1	1	Ħ	1	1							
					FDX	M-F	3			F	BA-	Α			Α	DEQ	-C			FX	DQ-	A3								FXS	Q-A					
Num motorised dar		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	15	20	25	32	40	50	63	71	80	100	125	140
		AZEZ6DAIST07XS2																							•	•	•	•								
	2	AZEZ6DAIST07S2	300 x 930 x 454					•	•																				•	•						
	2	AZEZ6DAIST07XS3	200 - 020 - 454																						•	•	•	•								
	3	AZEZ6DAIST07S3	300 x 930 x 454					•	•																				•	•					Ш	
	4	AZEZ6DAIST07S4	300 x 930 x 454					•	•																				•	•						
Ctandard Cailing	4	AZEZ6DAIST07M4	300 x 1,140 x 454							•	•				•																•		•			
Void		AZEZ6DAIST07M5								•	•				•													П	П	П	•		•			
	randard Ceiling oid 5	AZEZ6DAIST07L5	300 x 1,425 x 454									•	•	•		•	•																	•	•	
		AZEZ6DAIST07M6	300 x 1,425 x 454							•	•				•																•		•			
	6	AZEZ6DAIST07L6	300 x 1,638 x 454									•	•	•		•	•																	•	•	
	_	AZEZ6DAIST07L7										•	•	•		•	•																	•	•	
	7	AZEZ6DAIST07XL7	515 x 1,425 x 454																																	•
	8	AZEZ6DAIST07L8	515 x 1,425 x 454									•	•	•		•	•																	•	•	
	٥	AZEZ6DAIST07XL8	313 X 1,423 X 434																																	•
Compact Ceiling	2	AZEZ6DAISL01S2	210 x 720 x 444	•	•													•	•	•	•														П	
Void	3	AZEZ6DAISL01S3	210 x 720 x 444	•	•													•	•	•	•															
COO	4	4 AZEZ6DAISL01M4 210 x 930 x 444																			•	•														
	5	AZEZ6DAISL01L5	210 x 1,140 x 444			•	•																	•												

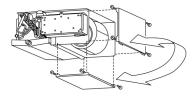
Slim concealed ceiling unit

Slim design for flexible installation

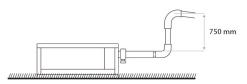
Compact dimensions, can easily be mounted in a ceiling void of only 240mm



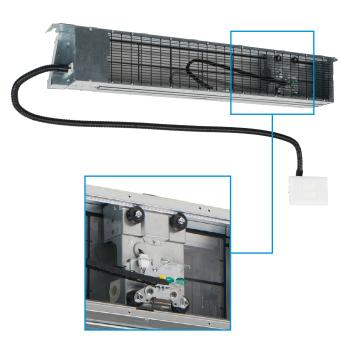
- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, 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
- Reduced energy consumption thanks to specially developed DC fan motor
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction



> Standard drain pump with 750mm lift increases flexibility and installation speed







Auto cleaning filter option

Indoor unit				FXDQ	15A3	20A3	25A3	32A3	40A3	50A3	63A3			
Cooling capacity	Total capacity	Nom.		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10			
Heating capacity	Total capacity	Nom.		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00			
Power input - 50Hz	Cooling	Nom.		kW		0.0	071		0.078	0.099	0.110			
	Heating	Nom.		kW		0.0	068		0.075	0.096	0.107			
Required ceiling void	>			mm				240						
Dimensions	Unit	HeightxWidth	(Depth	mm		200x7	50x620		200x9	50x620	200x1,150x620			
Weight	Unit			kg		2	2.0		20	5.0	29.0			
Casing	Material							Galvanised steel						
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.4/7.5		6.4/8.0		8.5/10.5	10.0/12.5	13.0/16.5			
	External static pressure - 50Hz Nom./High P				10/30.0 15/44.0									
Air filter	Туре						Re	movable / washa	ble					
Sound power level	Cooling	High		dBA	50		51		52	53	54			
Sound pressure level	Cooling	Low/Nom./Hig	h	dBA	27.0/31.0/32.0		27.0/31.0/33.0		28.0/32.0/34.0	29.0/33.0/35.0	30.0/34.0/36.0			
Refrigerant	Type/GWP							R-410A/2,087.5						
Piping connections	Liquid	OD		mm			6,	.35			9,52			
	Gas	OD		mm			1:	2.7			15.9			
	Drain						V	P20 (I.D. 20/O.D. 2	26)					
Power supply	Phase/Freq	uency/Voltage		Hz/V	z/V 1~/50/60/220-240/220									
Current - 50Hz	Maximum f	use amps (MFA)		Α				16						
Control systems	Infrared rer	note control			BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52									
	Wired remote control				BRC1D528 / BRC1E51									

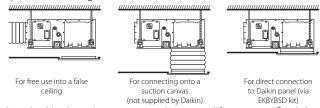
Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

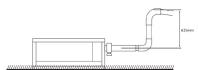
> Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge

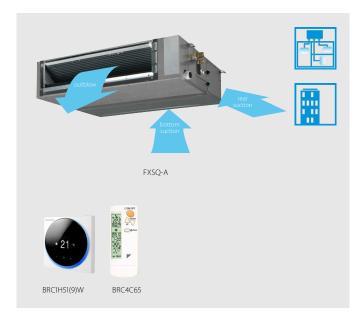


- > Quiet operation: down to 25dBA sound pressure level
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the wall: only the 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
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- > Optional fresh air intake
- > 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 $\pm 10\%$

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \Rightarrow 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

Fan characteristic curves Air flow (rated) Air flow (actual) Air flow (with auto-

curves

 $\pm 10\%$ Air flow (m³/min)

matic adjustment)

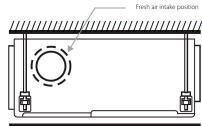
Indoor unit				FXSQ	15A	20A	25A	32A	40A	50A	63A	80A	100A	125A	140A
Cooling capacity	Total capacity	Nom.		kW	1.70	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00	16.00
Heating capacity	Total capacity	Nom.		kW	1.90	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0	18.0
Power input - 50Hz	Cooling	Nom.		kW		0.090		0.096	0.151	0.154	0.188	0.213	0.290	0.331	0.386
	Heating	Nom.		kW		0.086		0.092	0.147	0.150	0.183	0.209	0.285	0.326	0.382
Dimensions	Unit	HeightxWidthx	Depth	mm		245x5	50x800		245x70	00x800	245x1,0	000x800	245x1,4	00x800	245x1,550x800
Weight	Unit			kg		23.5		24.0	28.5	29.0	35.5	36.5	46.0	47.0	51.0
Casing	Material								Galva	nised steel	plate				
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.5/8.7	6.5	/9.0	7.0/9.5	11.0/15.0	11.0/15.2	15.0/21.0	16.0/23.0	23.0/32.0	26.0/36.0	28.0/39.0
		Heating	Low/High	m³/min	6.5/8.7	6.5	/9.0	7.0/9.5	11.0/15.0	11.0/15.2	15.0/21.0	16.0/23.0	23.0/32.0	26.0/36.0	28.0/39.0
	External static	pressure - 50Hz	Nom./High	30/150 40/150 50/150											
Air filter	Type					Resin net									
Sound power level	Cooling	High		dBA		54		55	6	0	59	6	1	6	4
Sound pressure level	Cooling	Low/Nom./High	h	dBA	25.0/28.0/29.5	25.0/28	3.0/30.0	26.0/29.0/31.0	29.0/32	2.0/35.0	27.0/30.0/33.0	29.0/32.0/35.0	31.0/34.0/36.0	33.0/36.0/39.0	34.0/38.0/41.5
	Heating	Low/Nom./High	h	dBA	26.0/29.0/31.5	26.0/29	9.0/32.0	27.0/30.0/33.0	29.0/34	.0/37.0	28.0/32.0/35.0	30.0/34.0/37.0	31.0/34.0/37.0	33.0/37.0/40.0	34.0/38.5/42.0
Refrigerant	Type/GWP								R-	410A/2,087	7.5				
Piping connections	Liquid	OD		mm			6	,35					9,52		
	Gas	OD		mm			1	2.7					15.9		
	Drain							VP20	(I.D. 20/O.E). 26), drair	height 62	5 mm			
Power supply	Phase/Frequ	uency/Voltage		Hz/V	V 1~/50/60/220-240/220										
Current - 50Hz	Maximum f	use amps (MFA)		Α	A 16										
Control systems	Infrared ren	note control		BRC4C65											
	Wired remo	te control			BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52										
	Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)										

Concealed ceiling unit with high ESP

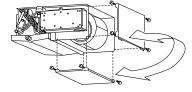
Ideal for large sized spaces FXMQ-P7: ESP up to 200 Pa

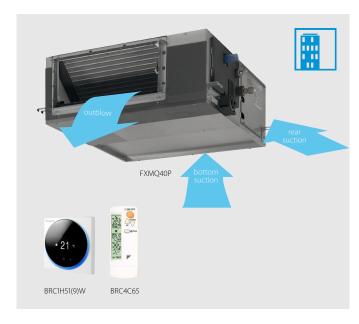
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > High external static pressure up to 200Pa facilitates extensive duct and grille network
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- Reduced energy consumption thanks to specially developed DC fan motor
- > 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

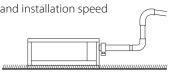


- * Brings in up to 10% of fresh air into the room
- > Flexible installation, as the air suction direction can be altered from rear to bottom suction





> 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
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Large capacity unit: up to 31.5 kW heating capacity
- Reduced energy consumption thanks to specially developed DC fan motor

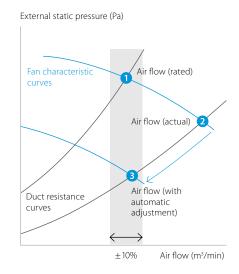
Automatic Airflow Adjustment function

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

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance \Rightarrow 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



Indoor unit			FX	(MQ/FXMQ	50P7	63P7	80P7	100P7	125P7	200MB	250MB			
Cooling capacity	Total capacity	Nom.		kW	5.6	7.1	9.0	11.2	14.0	22.4	28.0			
Heating capacity	Total capacity	Nom.		kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5			
Power input - 50Hz	Cooling	Nom.		kW	0.110	0.120	0.171	0.176	0.241	0.895	1.185			
	Heating	Nom.		kW	0.098	0.108	0.159	0.164	0.229	0.895	1.185			
Required ceiling void	>			mm			350			-				
Dimensions	Unit	HeightxWidth	xDepth	mm		300x1,000x700		300x1,	400x700	470x1,38	0x1,100			
Weight	Unit			kg		35		4	46	13	2			
Casing	Material						Ga	alvanised steel pl	ate					
Decoration panel	Model					BYBS71DJW1		BYBS1	25DJW1	-				
	Colour						White (10Y9/0.5)			-				
	Dimensions	HeightxWidth	xDepth	mm		55x1,100x500		55x1,5	00x500	-x-	x-			
	Weight			kg		4.5		6	5.5	-				
Fan	Air flow rate	Cooling	Low/High	m³/min	15.0/18.0	16.0/19.5	20.0/25.0	23.0/32.0	28.0/39.0	50/58	62/72			
	- 50Hz	Heating	Low/High	m³/min	15.0/18.0	16.0/19.5	20.0/25.0	23.0/32.0	28.0/39.0	-/	-			
	External statio	pressure - 50Hz	Nom./High	Pa			100/200			160/270	170/270			
Air filter	Type							-						
Sound power level	Cooling	Nom./High		dBA	-/61.0	-/64.0	-/67.0	-/65.0	-/70.0	75/	76			
Sound pressure level	Cooling	Low/Nom./Hig	ıh	dBA	37.0/39.0/41.0	38.0/40.0/42.0	39.0/4	1.0/43.0	40.0/42.0/44.0	45/-	/48			
	Heating	Low/Nom./Hig	ıh	dBA	37.0/39.0/41.0	38.0/40.0/42.0	39.0/4	1.0/43.0	40.0/42.0/44.0	-/-	/-			
Refrigerant	Type/GWP						R-410A/-			R-410A/	2,087.5			
Piping connections	Liquid	OD		mm	6,35		9,	52		9.5	52			
	Gas	OD		mm	12.7		15	5.9		19.1	22.2			
	Drain					VF	25 (I.D. 25/O.D. 3	32)		PS ⁻	1B			
Power supply	Phase/Freq	uency/Voltage		Hz/V	/ 1~/50/60/220-240/220 +/-10% 1~/50/220-240									
Current - 50Hz	Maximum f	use amps (MFA)		Α	16									
Control systems	Infrared ren	note control			BRC4C65									
	Wired remo	te control			BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52									
	Simplified wi	red remote contro	l for hotel applicat	tions	BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)									

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
- > Reduced energy consumption thanks to specially developed DC
- 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



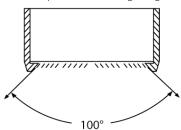


Indoor unit				FXAQ	15A	20A	25A	32A	40A	50A	63A				
Cooling capacity	Total capacity	Nom.		kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1				
Heating capacity	Total capacity	Nom.		kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0				
Power input - 50Hz	Cooling	Nom.		kW	0.	02	0.	03	0.02	0.03	0.05				
	Heating	Nom.		kW		0.03		0.04	0.02	0.04	0.06				
Dimensions	Unit	HeightxWic	lthxDepth	mm		290x79	95x266			290x1,050x269					
Weight	Unit			kg		1	2			15					
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	7.0/8.4	7.0/9.1	7.0/9.4	7.0/9.8	9.7/12.2	11.5/14.4	13.5/18.3				
Air filter	Type Washable resin net														
Sound power level	Cooling	High		dBA	51.0	52.0	53.0	55	5.0	58.0	63.0				
Sound pressure level	Cooling	Low/High		dBA	28.5/32.0	28.5/33.0	28.5/35.0	28.5/37.5	33.5/37.0	35.5/41.0	38.5/46.5				
	Heating	Low/High		dBA	28.5/33.0	28.5/34.0	28.5/36.0	28.5/38.5	33.5/38.0	35.5/42.0	38.5/47.0				
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						VI	P13 (I.D. 15/O.D. 1	(8)						
Power supply	Phase/Freq	uency/Voltag	je	Hz/V	Hz/V 1~/50/220-240										
Current - 50Hz	Maximum f	use amps (MI	FA)	А	A 16										
Control systems	Infrared ren	note control			BRC7EA628 / BRC7EA629										
	Wired remo	te control			BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52										

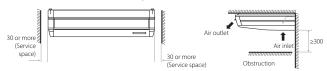
Ceiling suspended unit

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
- > Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- > 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

			FXHQ	32A	63A	100A					
Total capacity	Nom.		kW	3.6	7.1	11.2					
Total capacity	Nom.		kW	4.0	8.0	12.5					
Cooling	Nom.		kW	0.107	0.111	0.237					
Heating	Nom.		kW	0.107	0.111	0.237					
Unit	HeightxWid	dthxDepth	mm	235x960x690	235x1,270x690	235x1,590x690					
Unit			kg	24	33	39					
Material					Resin						
Air flow rate -	Cooling	Low/High	m³/min	10.0/14.0	14.0/20.0	19.0/29.5					
50Hz	Heating	Low/High	m³/min	10.0/14.0	14.0/20.0	19.0/29.5					
Type					Resin net						
Cooling	Nom./High		dBA	52/54	53/55	55/62					
Cooling	Low/Nom./High dBA			31.0/34.0/36.0	34.0/35.0/37.0	34.0/37.0/44.0					
Heating	Low/Nom./	High (High	dBA	31.0/34.0/36.0	34.0/35.0/37.0	34.0/37.0/44.0					
Type/GWP					R-410A/2,087.5						
Liquid	OD		mm	6.35	9.	52					
Gas	OD		mm	12.7	15	5.9					
Drain					VP20 (I.D. 20/O.D. 26)						
Phase/Frequ	uency/Voltag	ge	Hz/V	V 1~/50/220-240							
Maximum f	use amps (M	FA)	А	A 16							
Infrared remote control				BRC7G53							
Wired remote control				BR	C1H51(9)W/S/K / BRC1E53A/B/C / BRC1I	052					
Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)							
	Total capacity Cooling Heating Unit Unit Material Air flow rate- 50Hz Type Cooling Cooling Heating Type/GWP Liquid Gas Drain Phase/Frequ Maximum fu Infrared rem Wired remo	Total capacity Cooling Nom. Heating Unit Material Air flow rate- 50Hz Cooling Type Cooling Cooling Heating Low/Nom./ Heating Low/Nom./ Type/GWP Liquid OD Gas OD Drain Phase/Frequency/Voltac Maximum fuse amps (M Infrared remote control	Total capacity Cooling Nom. Heating Nom. Unit HeightxWidthxDepth Unit Material Air flow rate- 50Hz Heating Low/High Type Cooling Nom./High Cooling Low/Nom/High Heating Low/High Type/GWP Liquid OD Gas OD Drain Phase/Frequency/Voltage Maximum fuse amps (MFA) Infrared remote control Wired remote control	Total capacity Nom. kW Total capacity Nom. kW Cooling Nom. kW Heating Nom. kW Unit HeightxWidthxDepth mm Unit kg Material Air flow rate - Cooling Low/High m³/min 50Hz Heating Low/High m³/min Type Cooling Nom./High dBA Cooling Low/Nom/High dBA Heating Low/Nom/High dBA Type/GWP Liquid OD mm Gas OD mm Drain Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A Infrared remote control Infrared remote control	Total capacity Nom. kW 3.6 Total capacity Nom. kW 4.0 Cooling Nom. kW 0.107 Heating Nom. kW 0.107 Unit HeightxWidthxDepth mm 235x960x690 Unit kg 24 Material Sirg flow rate - Cooling Low/High m³/min 10.0/14.0 50Hz Heating Low/High m³/min 10.0/14.0 Type Cooling Nom./High dBA 52/54 Cooling Low/Nom./High dBA 31.0/34.0/36.0 Heating Low/Nom./High dBA 31.0/34.0/36.0 Type/GWP Liquid OD mm 6.35 Gas OD mm 12.7 Drain Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A Infrared remote control BR	Total capacity Nom. kW 3.6 7.1 Total capacity Nom. kW 4.0 8.0 Cooling Nom. kW 0.107 0.111 Heating Nom. kW 0.107 0.111 Unit HeightxWidthxDepth mm 235x960x690 235x1,270x690 Unit kg 24 33 Material Resin Resin Air flow rate - Cooling Low/High m³/min 10.0/14.0 14.0/20.0 50Hz Heating Low/High m³/min 10.0/14.0 14.0/20.0 Type Resin net Cooling Nom./High dBA 52/54 53/55 Cooling Low/Nom./High dBA 31.0/34.0/36.0 34.0/35.0/37.0 Heating Low/Nom./High dBA 31.0/34.0/36.0 34.0/35.0/37.0 Type/GWP R-410A/2,087.5 R-410A/2,087.5 9. Gas OD mm 6.35 9. Gas OD Mm					



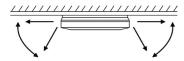
4-way blow ceiling suspended unit

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

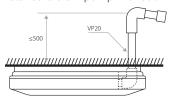
- > Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



- > Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- > 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 500mm lift increases flexibility and installation speed





Indoor unit				FXUQ	71A	100A				
Cooling capacity	Total capacity	Nom.		kW	8.0	11.2				
Heating capacity	Total capacity	Nom.		kW	9.0	12.5				
Power input - 50Hz	Cooling	Nom.		kW	0.090	0.200				
	Heating	Nom.		kW	0.073	0.179				
Dimensions	Unit	HeightxWi	idthxDepth	mm	198x95	50x950				
Weight	Unit			kg	26	27				
Casing	Material				Re	sin				
Fan	Air flow rate	Cooling	Low/High	m³/min	16.0/22.5	21.0/31.0				
	- 50Hz	Heating	Low/High	m³/min	16.0/22.5	21.0/31.0				
Air filter	Type				Resi	n net				
Sound power level	Cooling	Nom./High	h	dBA	56/58	62/65				
Sound pressure level	Cooling	Low/Nom.	./High	dBA	36.0/38.0/40.0	40.0/44.0/47.0				
	Heating	Low/Nom.	./High	dBA	36.0/38.0/40.0	40.0/44.0/47.0				
Refrigerant	Type/GWP				R-410A	/2,087.5				
Piping connections	Liquid	OD		mm	9.	52				
	Gas	OD		mm	15	5.9				
	Drain				I.D. 20/	O.D. 26				
Power supply	Phase/Freq	uency/Volta	ige	Hz/V	1~/50/60/220	-240/220-230				
Current - 50Hz	Maximum f	use amps (N	ΛFA)	А	A 16					
Control systems	Infrared ren	note control	I		BRC7C58					
	Wired remote control				BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52					
	Simplified wired remote control for hotel applications				BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

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

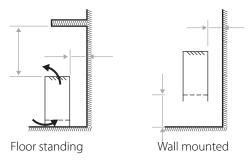


Indoor unit				FXNQ	20A	25A	32A	40A	50A	63A				
Cooling capacity	Total capacity	Nom.		kW	2.20	2.80	3.60	4.50	5.60	7.10				
Heating capacity	Total capacity	Nom.		kW	2.50	3.20	4.00	5.00	6.30	8.00				
Power input - 50Hz	Cooling	Nom.		kW		0.071		0.078	0.099	0.110				
	Heating	Nom.		kW		0.068		0.075	0.096	0.107				
Dimensions	Unit	HeightxWidthx	Depth	mm		620 / 720 x790x200		620 / 720	x990x200	620 / 720 x1,190x200				
Weight	Unit			kg		23.5		27	7.5	32.0				
Casing	Material						Galvanised	d steel plate						
Fan	Air flow rate	Cooling	Low/High	m³/min		6.4/8.0		8.5/10.5	10.0/12.5	13.0/16.5				
	- 50Hz	Heating	Low/High	m³/min		6.4/8.0		8.5/10.5	10.0/12.5	13.0/16.5				
	External static	pressure - 50Hz	Nom./High	Pa	10	/41.0	10/42.0	15/52.0	15/59.0	15/55.0				
Air filter	Type						Resi	n net						
Sound power level	Cooling	High		dBA		51		52	53	54				
Sound pressure level	Cooling	Low/Nom./High		dBA		27.0/28.5/30.0		28.0/30.0/32.0	29.0/31.0/33.0	32.0/33.0/35.0				
	Heating	Low/Nom./Hig	h	dBA	27.0/28.5/30.0			28.0/30.0/32.0	29.0/31.0/33.0	32.0/33.0/35.0				
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/Freq	uency/Voltage		Hz/V			1~/50/60/2	220-240/220						
Current - 50Hz	Maximum f	use amps (MFA)		А			1	16						
Control systems	Infrared remote control			BRC4C65										
W	Wired remote control				BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52									
	Simplified wired re	mote control for hotel appli	cations		BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)									

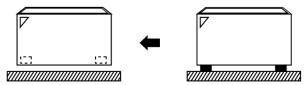
Floor standing unit

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 (RAL7011) 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

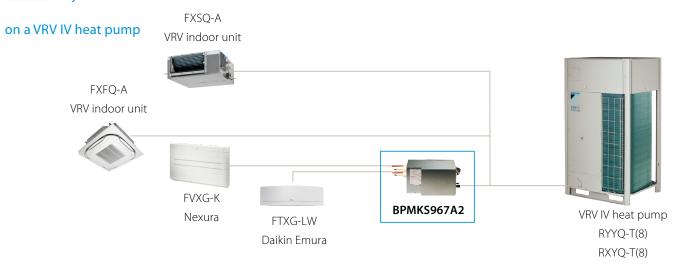


Indoor unit				FXLQ	20P	25P	32P	40P	50P	63P
Cooling capacity	Total capacity	Nom.		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	Total capacity	Nom.		kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input - 50Hz	Cooling	Nom.		kW	0.	.05	0.	09	0.	11
	Heating	Nom.		kW	0.	.05	0.	09	0.	11
Dimensions	Unit	HeightxWio	dthxDepth	mm	600x1,0	000x232	600x1,	140x232	600x1,4	120x232
Weight	Unit			kg	2	27	3	32	3	8
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6.	0/7	6.0/8	8.5/11	11.0/14	12.0/16
Air filter	Type						Resi	n net		
Sound power level	Cooling	High		dBA		54		57	58	59
Sound pressure level	Cooling	Low/High		dBA		32/35		33/38	34/39	35/40
	Heating	Low/High		dBA		32/35		33/38	34/39	35/40
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						O.D. 21 (Vir	nyl chloride)		
Power supply	Phase/Freq	uency/Voltag	je	Hz/V			1~/50/60/2	20-240/220		
Current - 50Hz	Maximum f	use amps (M	FA)	А			1	5		
Control systems	Infrared ren	note control					BRC	4C65		
	Wired remo	te control				BR	C1H51(9)W/S/K / BR	C1E53A/B/C / BRC1	D52	
	Simplified wired rea	mote control for hote	l applications			BRC2E52C	(heat recovery type) / BRC3E52C (heat	pump type)	

VRV heatpump combined with

stylish indoor units

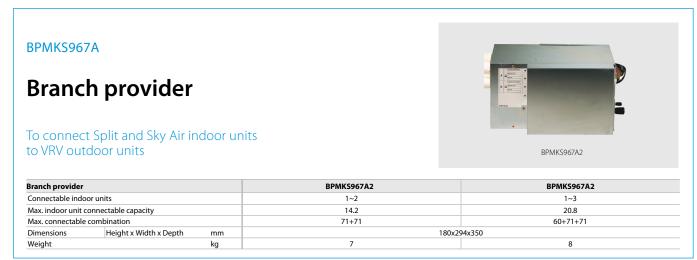
Combine VRV indoor units with stylish indoor units



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

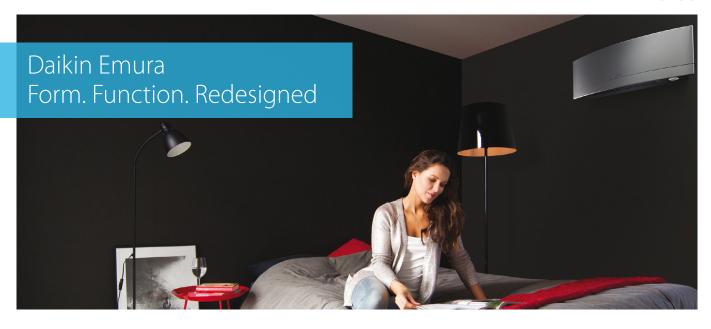


> * Special order unit, contact your local sales representative for more information









Why choose Daikin Emura?

- Unique **design**. Designed in Europe for Europe.
- High seasonal efficiency, further improved by energy saving techniques like weekly timer and intelligent eye.
- Optimal comfort thanks to advanced technologies e.g. 2-area intelligent eye, whisper quiet operation and online controller.











Benefits

- A remarkable blend between iconic design and engineering excellence
- > Stylish design in matt crystal white and silver
- > Whisper quiet with sound levels down to 19 dBA
- → Horizontal and vertical autoswing
- 2-area intelligent eye saves energy by reducing the set point if nobody is present and directs airflow away from people, thus avoiding cold draught
- > Weekly timer
- Online controller:
 Always in control no matter where you are









Wall mounted unit

Design at its best, delivering superior efficiency and comfort

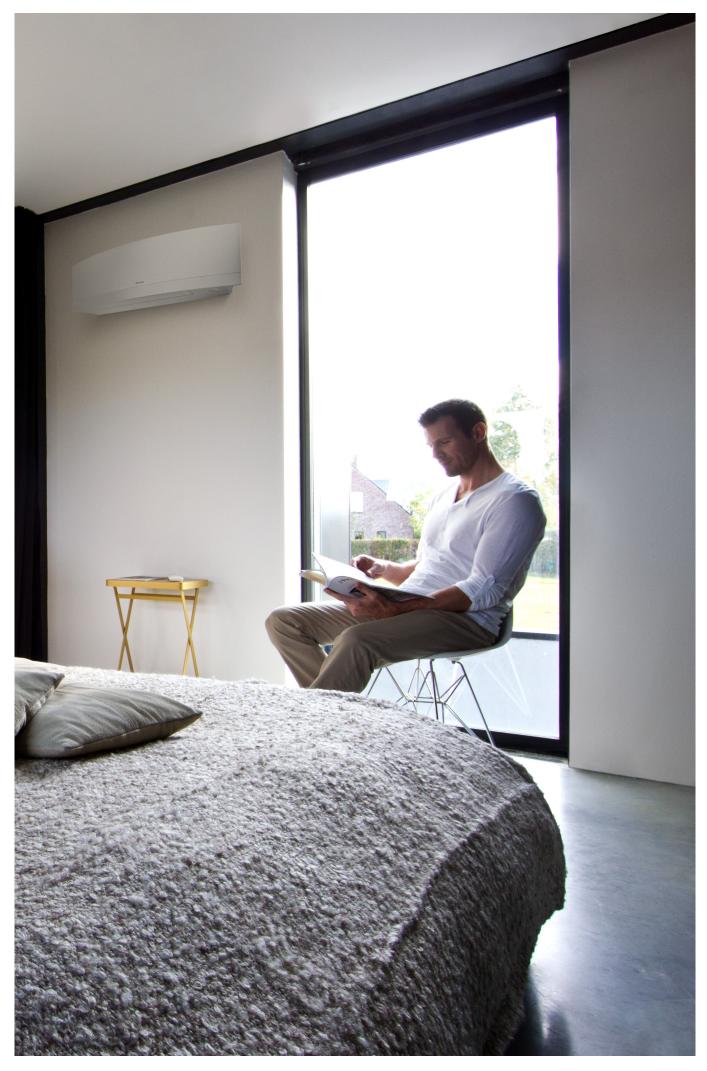
- Remarkable blend of iconic design and engineering excellence with an elegant finish in silver and anthracite or in matt crystal white
- Daikin Emura has been awarded with Reddot design award 2014 by an international jury, thanks to its excellent design
- > Designed to perfectly balance technological leadership and the beauty of aerodynamics
- > Online controller (optional): 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!



Indoor unit			FTXG	20LW 20	LS 25LW	25LS	35LW	35LS	50LW	50LS
Dimensions	Unit	HeightxWidthxDepth	mm			303x	998x212			
Weight	Unit		kg				12			
Air filter	Type				R	emovable / was	hable / mildew p	oroof		
Fan - Air flow rate	Cooling	High/Low/Silent operation	m³/min		8.9/4.4/2.6		10.9/-	4.8/2.9	10.9/6	5.8/3.6
	Heating	High/Low/Silent operation	m³/min	10.2/6.3/3.8	11.	0/6.3/3.8	12.4/	6.9/4.1	12.6/8	3.1/5.0
Sound power level	Cooling		dBA		54		-	59	6	0
	Heating		dBA		56		-	59	6	0
Sound pressure level	Cooling	High/Low/Silent operation	dBA		38/25/19		45/2	26/20	46/3	5/25
	Heating	High/Low/Silent operation	dBA	40/28/19	4	1/28/19	45/2	29/20	47/3	5/25
Control systems	Infrared remo	te control				ARG	2466A1			
Power supply	Phase / Frequ	ency / Voltage	Hz/V			1~/50	/ 220-240			

⁽¹⁾ EER/COP according to Eurovent 2012, for use outside EU only,

⁽²⁾ 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.



Wall mounted unit

Discreet, modern design for optimal efficiency and comfort thanks to 2 area intelligent eye

- Discreet, modern design. Its smooth curve blends beautifully with the wall resulting in an unobtrusive presence that matches all interior décors.
- > High quality matt crystal white finish
- > Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- > Ideal for installation in bedrooms (20,25 class) and larger or irregular shaped living areas (35,42,50 class)
- 2 area intelligent eye: 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 (FTXS35,42,50K)
- > Online controller (optional): control your indoor from any location with an app, via your local network or internet



Indoor unit			FTXS	CTXS15K	CTXS35K	20K	25K	35K	42K	50K	60G	71G
Dimensions	Unit	HeightxWidthxDepth	mm		289x78	80x215			298x900x215	i	290x1,0	050x250
Weight	Unit		kg		8	8			11		1	2
Air filter	Type						Removable ,	/ washable / r	nildew proof			
Fan - Air flow rate	Cooling	High/Low/Silent operation	m³/min	7.9/4.7/3.9	9.2/5.2/3.9	8.8/4.7/3.9	9.1/5.0/3.9	11.2/5.8/4.1	11.2/7.0/4.1	11.9/7.4/4.5	16.0/11.3/10.1	17.2/11.5/10.5
	Heating	High/Low/Silent operation	m³/min	9.0/6.0/4.3	10.1/6.3/4.3	9.5/6.0/4.3	10.0/6.0/4.3	12.1/6.5/4.2	12.4/7.8/5.2	13.3/8.4/5.5	17.2/12.6/11.3	19.5/14.2/12.6
Sound power level	Cooling		dBA	55	59	5	i8	5	9	6	0	63
	Heating		dBA	56		58		5	9	60	59	62
Sound pressure level	Cooling	High/Low/Silent operation	dBA	37/25/21	42/28/21	40/24/19	41/25/19	45/29/19	45/33/21	46/34/23	45/36/33	46/37/34
	Heating	High/Low/Silent operation	dBA	38/28/21	41/30/21	40/27/19	41/27/19	45/29/19	45/33/22	47/34/24	44/35/32	46/37/34
Control systems	Infrared remote	e control			ARC4	66A6			ARC466A9		ARC4	152A3
Power supply	Phase / Frequer	ncy / Voltage	Hz/V				1-	~ / 50 / 220-24	40			





The best of two worlds united

Pure comfort and design



Why choose Nexura?

- Unique radiant heat panel that heats up just like a traditional radiator
- Whisper quiet operation down to 19 dBA
- Unobtrusive yet stylish design
- Reduced air flow, creating an even distribution of air through the room

Comfort is key

Nexura makes your world a comfortable one. The coolness of a summer breeze or the cosiness of an extra heat source brings a feeling of well-being to your living space all year round. Its unobtrusive yet stylish design with a front panel that radiates additional heat, its low noise level and reduced air flow turn your room into a haven.

Radiant heat panel

To add even more comfort on cold days, the aluminium front panel of the Nexura unit has the capability of warming up, just like a traditional radiator. The result? A comfortable feeling of warm air that envelopes you. And all you have to do to activate this unique feature is push the "radiant" button on your remote control.

Benefits

- > Vertical autoswing
- → Weekly time
- Guaranteed operation down to -25°C (with RXLG-M)

Online controller

Always in control, no matter where you are. Control your indoor from any location with an app, via your local network or internet.



Floor standing unit with radiant heat panel

Stylish floor standing unit with radiant heat panel for comfortable heat and very low noise

- > The aluminium part of the front panel of the Nexura indoor unit has the capability of warming up, just like a traditional radiator, to add even more comfort on cold days
- > Quiet and discrete, Nexura offers you the best in heating and cooling, in comfort and design
- > The indoor unit distributes air at the sound of a whisper. The noise produced amounts to barely 22dB(A) in cooling and 19dB(A) in radiant heat mode. In comparison, the ambient sound in a quiet room amounts to 40dB(A) on average.
- > Comfortable vertical auto swing ensures draught-free operation and prevents ceiling soiling
- > Online controller (optional): control your indoor from any location with an app, via your local network or internet
- > Can be installed against a wall or recessed
- > Its low height enables the unit to fit perfectly beneath a window





Indoor unit			FVXG	25K	35K	50K
Dimensions	Unit	HeightxWidthxDepth	mm		600x950x215	
Weight	Unit		kg		22	
Air filter	Type				Removable / washable / mildew proof	
Fan - Air flow rate	Cooling	High/Low/Silent operation	m³/min	8.9/5.3/4.5	9.1/5.3/4.5	10.6/7.3/6.0
	Heating	High/Low/Silent operation	m³/min	9.9/5.7/4.7	10.2/5.8/5.0	12.2/7.8/6.8
Sound power level	Cooling		dBA	5	52	58
	Heating		dBA	5	53	60
Sound pressure level	Cooling	High/Low/Silent operation	dBA	38/26/23	39/27/24	44/36/32
	Heating	High/Low/Silent operation/Radiant heat	dBA	39/26/22/19	40/27/23/19	46/34/30/26
Control systems	Infrared remo	ote control			ARC466A2	
Power supply	Phase / Frequ	iency / Voltage	Hz/V		1~/50/220-240	

⁽¹⁾ EER/COP according to Eurovent 2012, for use outside EU only

⁽²⁾ 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 drawing.

(3) Operation range in combination with Nexura, FVXG-K, cooling: min. 10°CDB - max. 46°CDB; heating: min. -15°CWB - max. 18°CWB

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
- > Online controller (optional): control your indoor from any location with an app, via your local network or internet



Indoor unit			FVXS	25F	35F	50F
Dimensions	Unit	HeightxWidthxDepth	mm		600x700x210	
Weight	Unit		kg		14	
Air filter	Type				Removable / washable / mildew proof	
Fan - Air flow rate	Cooling	High/Low/Silent operation	m³/min	8.2/4.8/4.1	8.5/4.9/4.5	10.7/7.8/6.6
	Heating	High/Low/Silent operation	m³/min	8.8/5.0/4.4	9.4/5.2/4.7	11.8/8.5/7.1
Sound power level	Cooling		dBA	5	2	60
	Heating		dBA	5	2	60
Sound pressure level	Cooling	High/Low/Silent operation	dBA	38/26/23	39/27/24	44/36/32
	Heating	High/Low/Silent operation	dBA	38/26/23	39/27/24	45/36/32
Control systems	Infrared remo	te control			ARC452A1	
Power supply	Phase / Frequ	iency / Voltage	Hz/V		1~/50/220-240	

⁽¹⁾ EER/COP according to Eurovent 2012, for use outside EU only,

⁽²⁾ 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.

Flexi type unit

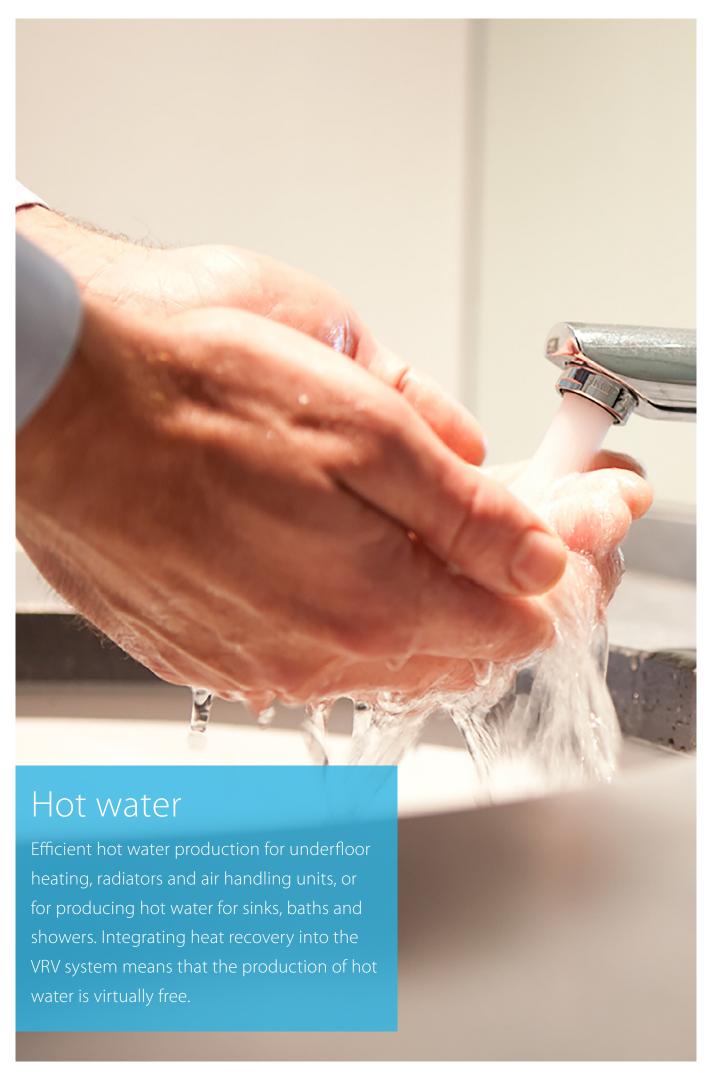
Flexible unit, ideal for rooms without false ceiling, can fit on either ceiling or wall

- > Can fit on either ceiling or lower wall; its low height enables the unit to fit beneath a window
- > Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- > Online controller (optional): control your indoor from any location with an app, via your local network or internet



Indoor unit			FLXS	25B	35B9	50B	60B
Dimensions	Unit	HeightxWidthxDepth	mm		490x1	,050x200	
Weight	Unit		kg	16	5	17	
Air filter	Type				Removable / was	hable / mildew proof	
Fan - Air flow rate	Cooling	High/Low/Silent operation	m³/min	7.6/6.0/5.2	8.6/6.6/5.6	11.4/8.5/7.5	12.0/9.3/8.3
	Heating	High/Low/Silent operation	m³/min	9.2/7.4/6.6	12.8/8.0/7.2	12.1/7.5/6.8	12.8/8.4/7.5
Sound power level	Cooling		dBA	51	53	60	
	Heating		dBA	51	59	-	59
Sound pressure level	Cooling	High/Low/Silent operation	dBA	37/31/28	38/32/29	47/39/36	48/41/39
	Heating	High/Low/Silent operation	dBA	37/31/29	46/33/30	46/35/33	47/37/34
Control systems	Infrared remo	te control			ARC	433B67	
Power supply	Phase / Frequ	ency / Voltage	Hz/V	1~/50/60/220-240/220-230	1~/50/220-240	1~/50/60/220-240/220-230	1~/50/230

(1) EER/COP according to Eurovent 2012, for use outside EU only, (2) 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.



Hot water

	Low temperature hydrobox	
	HXY-A8	133
	High temperature hydrobox	
	HXHD-A8	134
NEW	Accessories for hot water	135

Hydrobox range

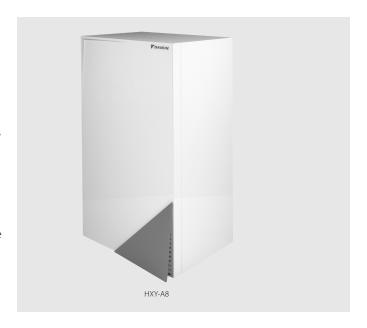
Capacity class (kW)

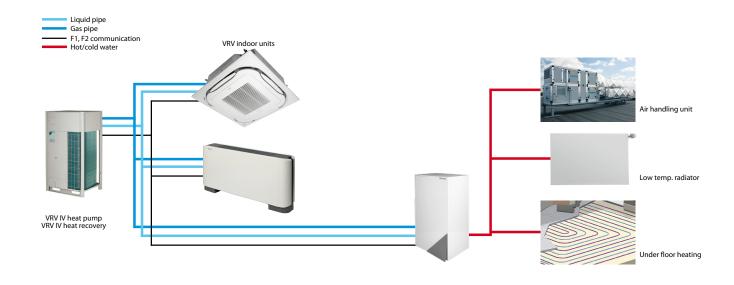
Туре	Product name	Model	80	125	200	Leaving water temperature range
Low temperature hydrobox	HXY-A8	For high efficiency space heating and cooling > Ideal for hot or cold water in underfloor, air handling units, low temperature radiators > Hot/cold water from 5° to 45°C > Large operation range (down to -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		•	• NEW	25 °C - 80 °C

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 hung design
- > No gas connection or oil tank needed
- > Connectable to VRV IV heat pump and heat recovery





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)
Dimensions	Unit	HeightxWid	thxDepth	mm	890x48	30x344
Weight	Unit			kg	4	4
Casing	Colour				Wh	nite
	Material				Precoated s	sheet metal
Sound pressure level	Nom.			dBA		=
Operation range	Heating	Ambient	Min.~Max.	°C	-20-	~24
		Water side	Min.~Max.	°C	25~	~45
	Domestic hot	Ambient	Min.~Max.	°CDB		y -
	water	Water side	Min.~Max.	°C		v-
Refrigerant	Type				R-4	10A
	GWP				2,08	37.5
Refrigerant circuit	Gas side diamete	er		mm	15	5.9
	Liquid side diame	eter		mm	9.	.5
Water circuit	Piping connection	ns diameter		inch	G 1"1/4	(female)
Power supply	Phase/Frequency	y/Voltage		Hz/V	1~/50/2	220-240
Current	Recommended f	uses		А	6~	16

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



NEW

Indoor Unit				HXHD	125A8	200A8
Heating capacity	Nom.			kW	14.0	22.4
Casing	Colour				Metall	ic grey
	Material				Precoated s	sheet metal
Dimensions	Unit	HeightxWid	lthxDepth	mm	705x60	00x695
Weight	Unit			kg	92	147
Operation range	Heating	Ambient	Min.~Max.	°C	-20~20	/ 24 (1)
		Water side	Min.~Max.	°C	25~	-80
	Domestic hot	Ambient	Min.~Max.	°CDB	-20-	~43
	water	Water side	Min.~Max.	°C	45~	-75
Refrigerant	Type				R-1.	34a
	Charge			kg	2	2.6
				TCO₂eq	2.9	3.7
	GWP				1,43	30.0
Sound power level	Nom.			dBA	55 (2)	-
Sound pressure level	Nom.			dBA	42 (2) / 43 (3)	46
	Night quiet mode	Level 1		dBA	38 (2)	45
Refrigerant circuit	Gas side diameter			mm	12.7	15.9
	Liquid side diamet	ter		mm	9.	52
Water circuit	Piping connection	ns diameter		inch	G 1" (female)	G 1"
	Heating water system	Water volume	Max.~Min.	- 1	200~20	400~20
Power supply	Phase/Frequency/	Voltage .		Hz/V	1~/50/2	220-240
Current	Recommended fus	ses		Α	20	-

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

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)



Accessory			EKHWP	300B	500B
Casing	Colour			Traffic white (RAL9016	i) / Dark grey (RAL7011)
	Material			Impact resistar	t polypropylene
Dimensions	Unit	Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	58	82
ank	Water volur	ne	- 1	294	477
	Material				ropylen
		vater temperature	°C		35
•	Insulation	Heat loss	kWh/24h	1.5	1.7
	Energy effic				В
	Standing he		W	64	72
	Storage vol			294	477
leat exchanger	Domestic	Quantity			1
	hot water	Tube material			el (DIN 1.4404)
		Face area	m ²	5.600	5.800
		Internal coil volume		27.1	28.1
		Operating pressure	bar		6
		Average specifc thermal output	W/K	2,790	2,825
	Charging	Quantity			1
		Tube material			el (DIN 1.4404)
		Face area	m ²	3	4
		Internal coil volume		13	18
		Operating pressure	bar		3
		Average specifc thermal output	W/K	1,300	1,800
	Auxiliary	Tube material		-	Stainless steel (DIN 1.4404)
	solar	Face area	m ²	-	1
	heating	Internal coil volume		-	4
	. 3	Operating pressure	bar	-	3
		Average specifc thermal output	W/K	-	280

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)



Accessory			EKHWP	300PB	500PB
Casing	Colour			Traffic white (R	AL9016) / Dark grey (RAL7011)
-	Material			Impact i	resistant polypropylene
Dimensions	Unit	Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	58	89
Tank	Water volur	ne	1	294	477
	Material				Polypropylen
	Maximum v	vater temperature	℃		85
•	Insulation	Heat loss	kWh/24h	1.5	1.7
	Energy effic				В
	Standing he		W	64	72
	Storage vol		I	294	477
Heat exchanger	Domestic	Quantity			1
	hot water	Tube material			ess steel (DIN 1.4404)
		Face area	m ²	5.600	5.900
		Internal coil volume	I	27.1	28.1
		Operating pressure	bar		6
		Average specifc thermal output	W/K	2,790	2,825
	Charging	Quantity			1
		Tube material	2		ess steel (DIN 1.4404)
		Face area	m ²	3	4
		Internal coil volume		13	18
		Operating pressure	bar		3
		Average specifc thermal output	W/K	1,300	1,800
	Pressurised solar	Average specifc thermal output	W/K	390.00	840.00
	Auxiliary	Tube material	3	-	Stainless steel (DIN 1.4404)
	solar	Face area	m ²	-	1
	heating	Internal coil volume		-	4
	-	Operating pressure	bar	-	3
		Average specifc thermal output	W/K	-	280

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



Accessory		EKSV/EKSH	21P	26	P		
Mounting			Vert	ical	Horizontal		
Dimensions	Unit HeightxWidthxDepth	mm	1,006x8	5x2,000	2,000x85x1,300		
Weight	Unit	kg	33	42			
Volume		- 1	1.3	1.7	2.1		
Surface	Outer	m²	2.01	2.60			
	Aperture	m²	1.800	2.30	50		
	Absorber	m²	1.79	2.3	2.35		
Coating			Micro-the	rm (absorption max. 96%, Emission ca. 5	% +/-2%)		
Absorber			Harp-shaped copper pipe i	register with laser-welded highly selectiv	e coated aluminium plate		
Glazing			Sin	gle pane safety glass, transmission +/- 92	2%		
Allowed roof angle	Min.~Max.	۰		15~80			
Operating pressure	Max.	bar	6				
Stand still temperature	Max.	°C	192				
Thermal performance	collector efficiency (ηcol)	%	61				
	Zero loss collector efficiency η0	%	0.781	0.784			
	Heat loss coefficient a1	W/m².K	4.240	4.250			
•	Temperature dependence of the heat loss coefficient a2	W/m².K²	0.006	0.007			
	Thermal capacity	kJ/K	4.9	6.5			
•	Solpump	w		-			
	Solstandby	w		-			
	Annual auxiliary electricity consumption Qaux	kWh		-			

EKSRDS2A/EKSRPS4A

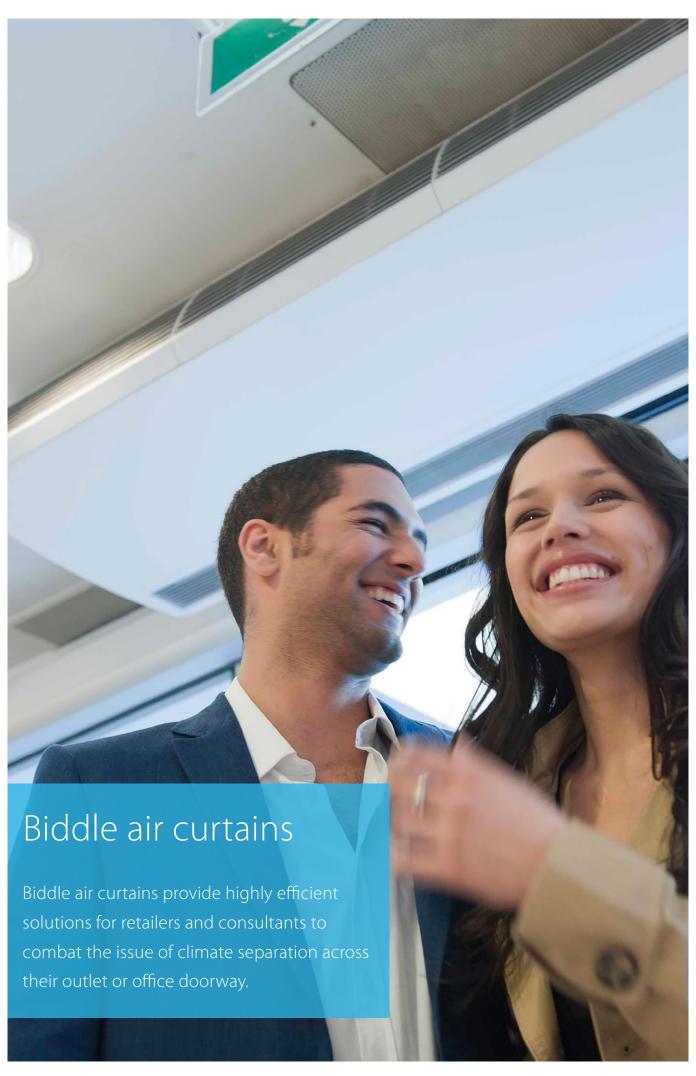
Pump station

- Save energy and reduce CO₂ 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



Accessory		EKSRPS4A/EK	SRDS2A	4A	2A		
Mounting				On side of tank	On wall		
Dimensions	Unit He	eightxWidthxDepth	mm	815x142x230	410x314x154		
Weight	Unit		kg	6	5		
Operation range	Ambient temperature Mir	in.~Max.	°C	5~40	0~40		
Operating pressure	Max.		bar	-	6		
Stand still temperature	Max.		°C	85	120		
Thermal performance	collector efficiency (ηco	ol)	%	-			
*	Zero loss collector efficiency η0 %			-			
Control	Туре			Digital temperature difference controller with plain text display			
	Power consumption		W	2	5		
Power supply	Phase/Frequency/Voltage Hz		Hz/V	1~/50/230	/50/230		
Sensor	Solar panel temperatur	re 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			30	23		
	Solstandby W			2.00	5.00		
	Annual auxiliary electricity co	onsumption Qaux	kWh	78	89		





Biddle air curtains

connected to Daikin Heat Pumps

'Open Door' Trading

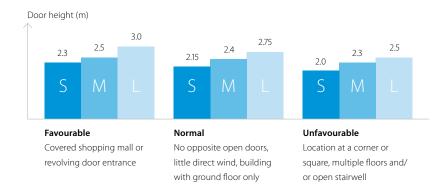
Although the customer-friendly aspects of open door trading are widely appreciated by retail and commercial outlet managers, open doors can also give rise to massive losses in conditioned warm or cold air and hence, energy. Biddle air curtains however, not only preserve indoor temperatures and generate significant savings, they also represent an invitation for customers, to enter a pleasant trading and working environment.

High efficiency and low CO₂ emission

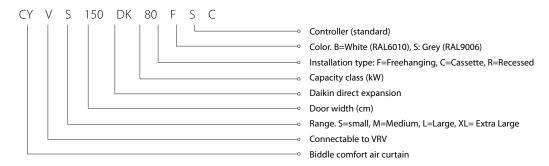
An efficient outdoor/indoor climate separation limits heat loss through the door opening and enhances the efficiency of the air conditioning system.

Combining Biddle air curtains with Daikin heat pumps can lead to savings up to 72% compared to electric air curtains and a paypack period of less than 1.5 years!

Air curtain size selector



Biddle comfort air curtian nomenclature



Portfolio

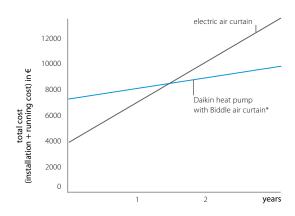
Туре	Product name	
Biddle air curtain free hanging	CYV S/M/L-DK-F	
Biddle air curtain cassette	CYV S/M/L-DK-C	
Biddle air curtain recessed	CYV S/M/L-DK-R	-

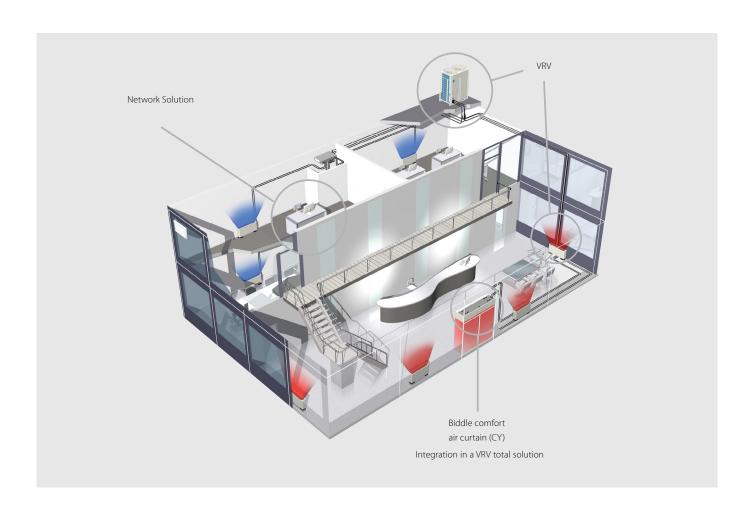
- A payback time of less than 1.5 years compared to electrical air curtains
- > Easy and quick installation
- Maximum energy efficiency thanks to rectifier technology
- > 85% air separation efficiency
- Cassette model (C): mounted into a false ceiling enhancing aesthetics
- > Free-hanging model (F): easy wall mounted installation
- > Recessed model (R): neatly concealed in the ceiling

Biddle air curtain for VRV

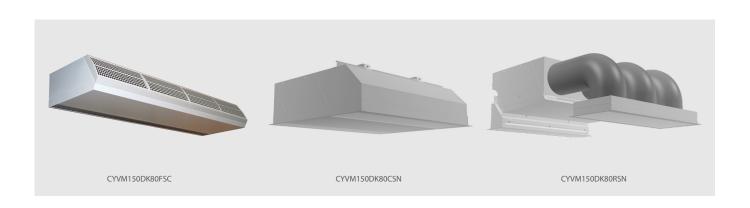
- > Connectable to VRV heat recovery and heat pump
- > VRV is among the first DX systems suitable for connection to air curtains
- > Free-hanging model (F): easy wall mounted installation
- > Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- > Recessed model (R): neatly concealed in the ceiling
- 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 sytems, 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

Packtime of less than 1.5 years





^{*} Payback period and gains calculated based upon the following: Air curtain is 9hrs/day – 156 days year (1,404 hrs/year) in use. Annual energy consumption for an electric air curtain: 3,137EUR (COP = 0.95). Typical installation cost: 1,000EUR; Typical equipment cost: 2,793EUR. Annual energy consumption for CYQS200DK100FBN and ERQ100AV: 748EUR (COP 4.00). Typical installation cost: 2,000EUR; Typical equipment cost: 5,150EUR. Calculation based upon electricity cost: 0,1705EUR /kWh



				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	1	5	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 voic	1>		mm				42	20			
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	m³/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	connections Liquid/OD/Gas/OD mm			9.52/16.0 9.52/19.0 9.52/16.0 9.52/19.0						9.52/19.0	
Required accessories	(should be ordere	ed separately)			Daikin w	rired remote co	ontrol (BRC1H5	(9)W/S/K / BR	C1E53A/B/C / B	RC1D52)	
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	1	5	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 voic	i >		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	m³/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 ordere	ed separately)		Daikin v	vired remote control (BRC1H5	I (9)W/S/K / BRC1E53A/B/C / B	RC1D52)				
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



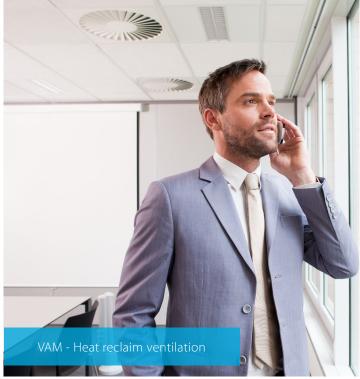


Ventilation & air handling

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Ventilation







Widest range of DX ventilation

on the market

Daikin offers a variety of solutions from small heat recovery ventilation to large-scale air handling units for the provision of fresh air ventilation to homes, or commercial outlets such as offices, hotels, stores and others.

Ventilation solutions

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

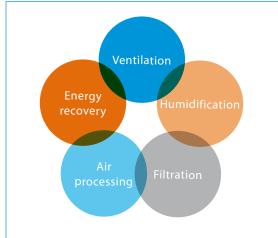
- > Unique portfolio within DX manufacturers
- > High-quality solutions complying with the highest Daikin quality standards
- > Seamless integration of all products to provide the best indoor climate
- > All Daikin products connected to a single controller for complete control of the HVAC system.

Heat Reclaim Ventilation - Ventilation with heat recovery as standard

Proper ventilation is a key component of climate control in buildings, offices and shops and part of the EU requirements. Our heat recovery units can **recover both sensible and latent heat** thus substantially **reducing the air conditioning load of up to 40%.** The range starts from as low as 150 m³/h to 2,000 m³/h (VAM) and go up to 25000 m³/h (Modular AHU).

Ventilation with DX connection - Control over fresh air temperature

Daikin offers a range of R-410A 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.



Five components of indoor air quality

- > Ventilation: ensures the provision of fresh air
- > **Energy recovery:** Delivers energy savings by transferring heat and moisture between airflows
- Air processing: Delivers the right supply temperature to decrease the indoor unit load
- Humidification: Ensures relative indoor humidity levels are respected
- > **Filtration:** Separates pollen, dust and pollution odours that are harmful to individuals' health



Heat reclaim ventilation

Ventilation with heat recovery as standard

- NEW Thinnest High Efficiency Enthalpy Heat Exchanger in the market (J-series)
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- > 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 CO₂ sensor
- > NEW 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 m³/h
- > Optional medium and fine dust filters M6, F7, F8 to meet customer request or legislation
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation.

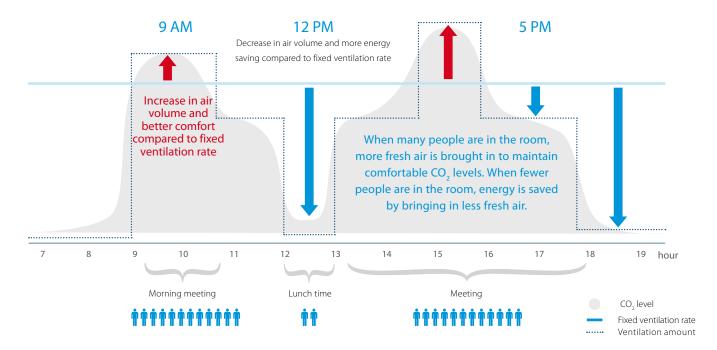


- > No drain piping needed
- > Can operate in over- and under pressure
- > Total solution for fresh air with Daikin supply of both VAM / VKM and electrical heaters

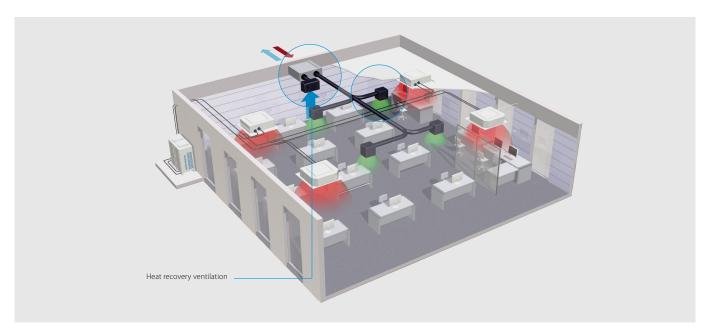
Prevent energy losses from over ventilation with CO₂ sensor

Enough fresh air is needed to create an enjoyable environment, but ventilating constantly is leading to energy waste. Therefore an optional CO_2 sensor can be installed which throttles or even switches off the ventilation system when there is enough fresh air in the room, thus saving energy.

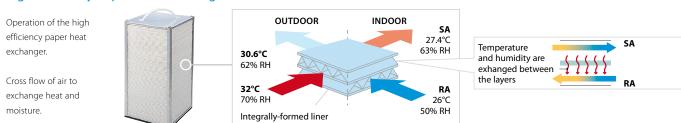
Example of CO₃ sensor operation in a meeting room:



Using CO₂ sensors has the most energy-saving potential in buildings where occupancy fluctuates during a 24-hour period, is unpredictable and peaks at a high level. For example office buildings, government facilities, retail stores and shopping malls, movie theaters, auditoriums, schools, entertainment clubs and nightclubs. The ventilation unit's reaction to fluctuations in CO₂ can be easily adjusted through a field setting.



High efficiency Paper Heat Exchanger



RH: Relative Humidity SA: Supply Air (to room) RA: Return Air (from room)

Ventilation				VAM/VAM	150FC	250FC	350J	500J	650J	800J	1000J	1500J	2000J
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/h	ligh/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	n/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	n/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 mo	de, bypass m	ode, fresh-up	mode		
Heat exchange systen				Air to air cr	oss flow total	heat (sensible	e + latent hea	t) exchange					
Heat exchange eleme	nt							Specially proc	essed non-fla	mmable pap	er		
Dimensions	Unit	HeightxW	/idthxDepth	mm	285x7	76x525	301x1,	120x868	368x1,350x917	368x1,3	50x1,170	731x1,3	50x1,170
Weight	Unit			kg	24	1.0	4	6.5	61.5	7	9.0	1:	57
Casing	Material							Galv	anised steel	plate			
Fan	Air flow rate	Heat exchange mode	Ultra high/High/ Low	m³/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 mod	de Ultra high/High/ Low	m³/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	n/High/Low	Pa	90 /87/40	70 /63/25			90	(1)/70.0 /50.0	(1)		
Air filter	Type				Multidirectiona	l fibrous fleeces	Multidirectional fibrous fleeces (G3)						
Sound pressure level - 50Hz	Heat exchange mode	Ultra high	n/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	n/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% RI	H or less		
Connection duct diam	neter			mm	100	150	2	200		250		2x:	250
Power supply	Phase/Frequ	uency/Volt	age	Hz/V				1~/5	0/60/220-240	0/220			
Current	Maximum fo	use amps (l	MFA)	Α	15	5.0				16.0			
Specific energy	Cold climate	2		kWh/(m².a)	-56.0 (5)	-60.5 (5)		,		-			
consumption (SEC)	Average clir	nate		kWh/(m².a)	-22.1 (5)	-27.0 (5)				-			
	Warm clima	te		kWh/(m².a)	-0.100 (5)	-5.30 (5)				-			
SEC class					D / See note 5	B / See note 5				-			
Maximum flow rate at	Flow rate			m³/h	130	207				-			
100 Pa ESP	Electric pow	er input		W	129	160				-			
Sound power level (Lv	va)			dB	40	43	51	54	5	58	61	62	65
Annual electricity con	sumption			kWh/a	18.9 (5)	13.6 (5)				-			
Annual heating saved	Cold climate	2		kWh/a	41.0 (5)	40.6 (5)				-			
-	Average clir			kWh/a	80.2 (5)	79.4 (5)				-			
	Warm clima			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 | Measured according to EN308: 1997 | In accordance with commission regulation (EU) No 1254/2014 | In accordance with commission regulation (EU) No 1254/2014 | At reference flow rate in accordance with commission regulation (EU) No 1254/2014 | Clean the filter when the filter icon appears on the controller screen. Regular filter cleaning is important for delivered air quality and for the unit's energy efficiency.

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
- > BMS integration thanks to:
- Volt free relay for error indication
- 0-10VDC input for setpoint control



ELECTRICAL HEATER FOR VAM VH	(VH)					
Supply voltage	220/250V ac 50/60 Hz. +/-10%					
Output current (maximum)	19A at 40°C (ambient)					
Temperature sensor	5k ohms at 25°C (table 502 1T)					
Temperature control range	0 to 40°C / (0-10V 0-100%)					
Control fuse	20 x 5mm 250mA					
LED indicators	Power ON - Yellow					
	Heater ON - Red (solid or flashing, indicating pulsed control)					
	Airflow fault - Red					
Mounting holes	98mm x 181mm centres 5 mm ø holes					
Maximum ambient adjacent to terminal box	35°C (during operation)					
Auto high temp. cutout	100°C Pre-set					
Man. reset high temp. cutout	125°C Pre-set					
Run relay	1A 120V AC or 1A 24V DC					
BMS setpoint input	0-10VDC					

	VH	1B	2B	3B	4B	4/AB	5B(1)
Capacity	kW		1		1.5	2.5	
Duct diameter	mm	100	150	200	250		300
Connectable VAM		VAM150FC	VAM250FC	VAM350,500J	VAM650J, VAM800J, VAM1000J		VAM1500J, VAM2000J

⁽¹⁾ Available only with the optional plenum

⁽²⁾ For the selection of the appropriate capacity, please refer to the VAM selection software.

Modular L

Premium efficiency heat recovery unit

Highlights

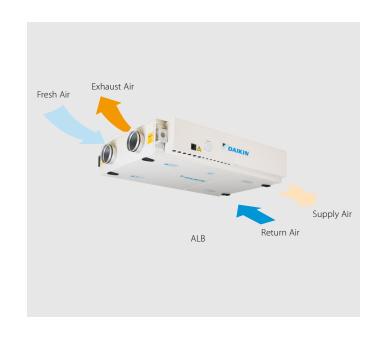
- > 6 Predefined sizes
- > Compliant with VDI 6022
- > Exceeding ERP 2018 requirement
- > Plug & Play Controls
- Best choice when Compactness is needed (only 280 mm height up to 550 m³/h)
- > Easy installation and commissioning

EC centrifugal fan

- > Inverter driven with IE4 premium efficiency motor
- > High-efficient blade profiling
- > Reduced energy consumption
- > Optimized SFP (Specific Fan Power) for an efficient unit operation
- Maximum ESP available 700 Pa (depending on model sizes and air-flow)

Heat exchanger

- > Premium quality counter flow plate heat exchanger
- > Up to 93% of the thermal energy recovered
- High grade aluminum allowing high grade corrosion protection



D-AH	U Modular L		2	3	4	5	6	7
Airflow		m³/h	300	600	1200	1500	2500	3000
Thermal efficiency		%	89	89	89	89	90	89
External static pressure	Nom.	Pa	100	100	100	100	100	100
Current	Nom.	А	0.49	1.09	2.17	2.72	5.28	6.52
Power input	Nom.	kW	0.11	0.25	0.50	0.63	1.22	1.50
SFPv	k	:W/m³/s	1.35	1.50	1.50	1.50	1.75	1.80
max ESP	Nom.	Pa	300	700	500	350	550	450
Electrical supply	Phase	ph	1	1	EVI 6	1	1	1
	Frequency	Hz	50	250	50	50	50	50
	Voltage	V	230	230	230	230	230	230
Dimensions unit	Width	mm	920	1,100	1,600	1,600	2,000	2,000
	Height	mm	280	350	415	415	500	500
	Length	mm	1,660	1,800	2,000	2,000	2,000	2,000
Weight unit		kg	125	180	270	280	355	360

Heat reclaim ventilation, humidification and air processing

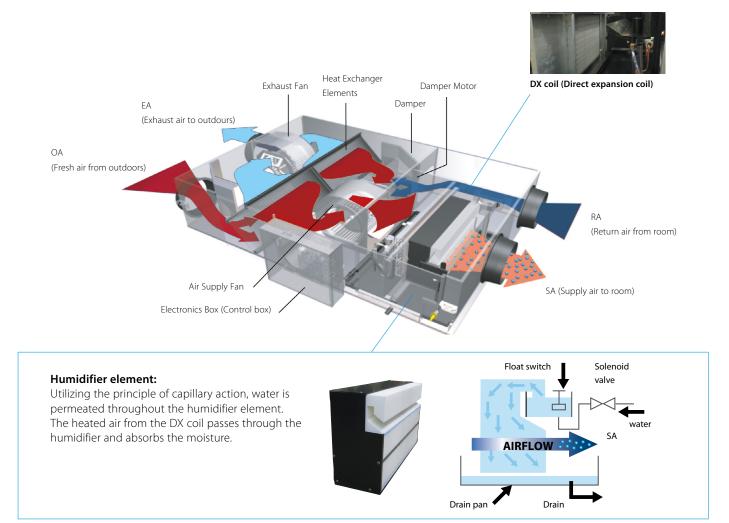
Pre heating or cooling of fresh air for lower load on the air conditioning system

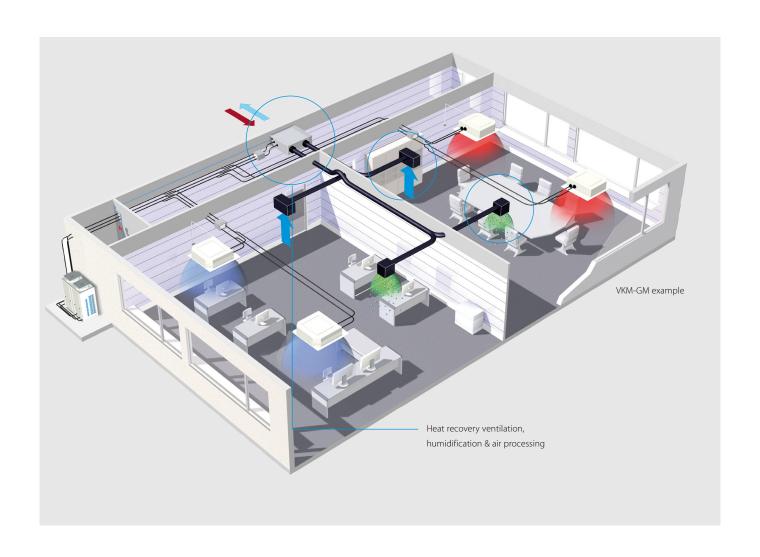
- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Creates a high quality indoor environment by pre conditioning incoming fresh air
- > Humidification of the incoming air results in comfortable indoor humidity level, even during heating
- > Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- > 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 CO2 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

Operation example: humidification & air processing (heating mode)¹





Ventilation			VKM-GB/VK	M-GBM	50GB	80GB	100GB	50GBM	80GBM	100GBM		
Power input - 50Hz	Heat exchange	Nom.	Ultra high/	kW	0.270/0.230/	0.330/0.280/	0.410/0.365/	0.270/0.230/	0.330/0.280/	0.410/0.365/		
	mode		High/Low		0.170	0.192	0.230	0.170	0.192	0.230		
	Bypass mode	Nom.	Ultra high/	kW	0.270/0.230/	0.330/0.280/	0.410/0.365/	0.270/0.230/	0.330/0.280/	0.410/0.365/		
			High/Low		0.140	0.192	0.230	0.170	0.192	0.230		
Fresh air	Cooling		J	kW	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0		
conditioning load	Heating			kW	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0		
Temperature	Ultra high/High/L	.ow		%								
exchange efficiency					76/76/77.5	78/78/79	74/74/76.5	76/76/77.5	78/78/79	74/74/76.5		
- 50Hz												
Enthalpy exchange	Cooling	Ultra hig	h/High/Low	%	64/64/67	66/66/68	62/62/66	64/64/67	66/66/68	62/62/66		
efficiency - 50Hz	Heating		h/High/Low	%	67/67/69	71/71/73	65/65/69	67/67/69	71/71/73	65/65/69		
Operation mode					07/07/03		change mode / Byp			03/03/03		
Heat exchange system	m						ss flow total heat (s					
Heat exchange eleme							pecially processed r					
Humidifier	System					-			tural evaporating t	/pe		
Dimensions				mm	387x1,764x832	387x1,76	64x1,214	387x1,764x832	54x1,214			
Weight	Unit			kg	94	110	112	100	119	123		
Casing	Material						Galvanised	steel plate				
Fan-Air flow rate	Heat exchange mode		h/High/Low	m³/h	500/500/440	750/750/640	950/950/820	500/500/440	750/750/640	950/950/820		
- 50Hz	Bypass mode	Ultra hig	h/High/Low	m³/h	500/500/440	750/750/640	950/950/820	500/500/440	750/750/640	950/950/820		
Fan-External static	Ultra high/High/L	.ow		Pa	210/170/140	210/160/110	150/100/70	200/150/120	205/155/105	110/70/60		
pressure - 50Hz					210/170/140	210/160/110	150/100/70	200/150/120	205/155/105	110/70/60		
Air filter	Type					Multidirectional fibrous fleeces						
Sound pressure level	Heat exchange mode	Ultra hig	h/High/Low	dBA	39/37/35	41.5/39/37	41/39/36.5	38/36/34	40/37.5/35.5	40/38/35.5		
- 50Hz	Bypass mode	Ultra hig	h/High/Low	dBA	40/38/35.5	41.5/39/37	41/39/36.5	39/36/34.5	41/38/36	41/39/35.5		
Operation range	Around unit			°CDB			0°C~40°CDB, 8	30% 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/M	ax./Heating/Min.	°CDB		-15/43			-15/43			
Refrigerant	Control						Electronic ex					
	Туре						R-4					
	GWP						2,08					
Connection duct diar				mm	200	2:	50	200	2:	50		
Piping connections	Liquid	OD		mm			6.					
	Gas	OD		mm			12	2.7				
	Water supply			mm		-	DT2 /4	1.1	6.4			
	Drain	A / 1.					PT3/4 exte					
Power supply	Phase/Frequency			Hz/V			1~/50/2 1					
Current	Maximum fuse an	nps (MFA)		Α			1	5				

Daikin 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 unmatchable 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.

Supporting tools

combinations with

Selecting an AHU in combination with a DX unit has never been this easy amongst manufacturers. The well known VRV xpress selection software has been modified to integrate pre-sized AHU

DX outdoor units or just to select outdoor units connected to expansion valve kits.

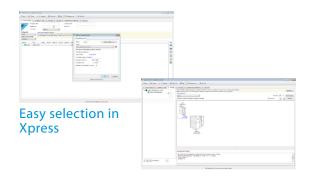
If a more complex selection is required, then the new Astra web can be utilized to make unique tailor-made solutions for any project requirements.

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 costumer both peace-ofmind 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 m³/h up to 140,000 m³/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 24h/7 control of the system when connected to an iTM.



Advantages

- VRV Xpress supporting AHU business **NEW**
- Pre-sized AHU+DX outdoor units for fresh air **NEW**

New pre-sized fresh air solution



- A wide range of preselected AHU and VRV combinations meet the needs of all European climates
- \rightarrow Range from 2,000 m³/h to 17,000 m³/h
- Designed for outdoor temperatures up to 46°CDB
- > The VRV outdoor unit and connection kits (to the coil of the AHU), are all factory mounted and configured

- Fully compatible communication between AHU control and outdoor units, and standard BMS (Modbus and BACnet)
- Remote operation (of set point operation mode and on/off fresh air solution) is managed by Daikin's unique intelligent Touch Manager, via BACnet/IP interface
- The unit is also accessible through a dedicated web page, available at anytime from anywhere

✓ Easy installation

- Factory mounted controls and same piping diameter between the AHU coil and the VRV
- Factory developed control logic guarantees faster installation compared to other third party combinations of AHU and controls
- Commissioning becomes extremely easy thanks to Daikin's fresh air solution

✓ Fast Quotation

- Daikin's fresh air solution is incorporated into the VRVXpress tool, which serves to send accurate quotations and offer more insight about the VRV range
- VRVXpress selection is as easy as any other VRV indoor unit
- With VRVXpress, the consultant is able to gain a competitive edge by offering accurate and reliable quotations

Download Xpress now with the new pre-sized combination from my.daikin.eu



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 heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought

inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air.



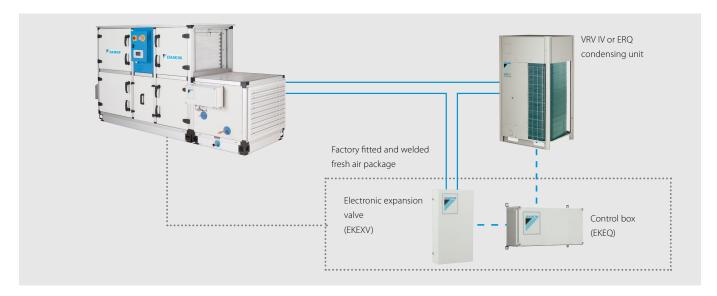
Fast response to changing loads resulting in high comfort levels

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

- > If the pre-sized fresh air solution does not match the need.
- > Plug & play connection between VRV/ERQ and the entire D-AHU modular range.
- > Factory fitted and welded 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

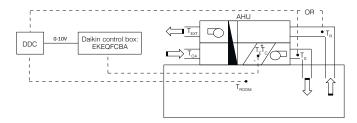
X control: Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

Z control: Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed) Y control: Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)

W control ($T_s/T_R/T_{ROOM}$ control):

Air temperature control via DDC controller

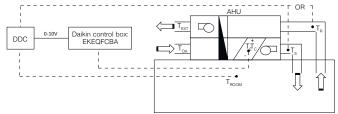
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V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



X control $(T_s/T_R/T_{ROOM} control)$:

Precise air temperature control via DDC controller

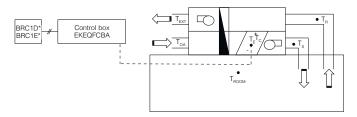
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) 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.



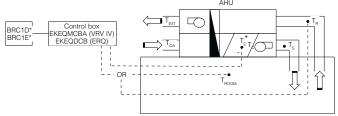
Y control (T_E/T_C control):

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 (BRC1D52 or BRC1E52A/B - optional) have to be connected for initial set-up but not required for operation.



4. Z control (T_s/T_{ROOM} control): Control your AHU just like a VRV indoor unit with 100% fresh air 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 BRC1D52 or BRC1E52A/B for operation. The only control that allows the combination of other indoor units to the AHU at the same time.



$T_S = Supply air temperature$	$T_R = Return air temperature$	$T_{OA} = Outdoor air temperature$	$T_{ROOM} = Room air temperature$
$T_{EXT} = Extraction air temperature$	T_E = Evaporating temperature	$T_c = Condensing temperature$	

	Option kit	Features						
Possibility W		Off-the-shelf DDC controller that requires no pre-configuration						
Possibility X	EKEQFCBA	Pre-configured DDC controller required						
Possibility Y		Using fixed evaporating temperature, no set point can be set using remote control						
Dossibility 7	EKEQDCB	Using Daikin infrared remote control BRC1D52 or BRC1E52A/B						
Possibility Z	EKFQMCBA*	Temperature control using air suction temperature or room temperature (via remote sensor)						

^{*} EKEQMCB (for 'multi' application)

IPI - for larger capacities (from 8 to 54HP)

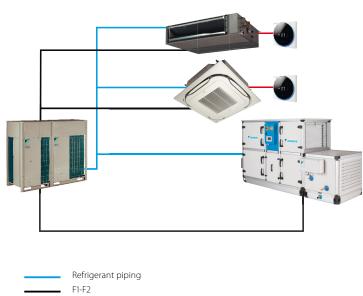
An advanced solution for both pair and multi application

- > Inverter controlled units
- > Heat recovery, heat pump
- > Control of room temperature via Daikin control
- > Large range of expansion valve kits available
- > BRC1H51W/S/K or BRC1E53A/B/C is used to set the set point temperature (connected to the EKEQMCBA).
- > Connectable to all VRV heat recovery and heat pump systems

W, X, Y control for VRV IV heat pump

Z control for all VRV outdoor units









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.



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				3.9	99	3.42		
COP				4.56	4.15	3.94		
Dimensions	Unit	HeightxWidthxDepth	mm		1,345x900x320			
Weight	Unit		kg		120			
Casing	Material				Painted galvanized steel plate			
Fan-Air flow rate	Cooling	Nom.	m³/min		106			
	Heating	Nom.	m³/min	102		05		
Sound power level	Cooling	Nom.	dBA	66	67	69		
Sound pressure level		Nom.	dBA	50	51	53		
sound pressure level	Heating	Nom.	dBA	52	53	55		
Operation range	Cooling	Min./Max.	°CDB	32	-5/46	33		
specution runge	Heating	Min./Max.	°CWB		-20/15.5			
	On coil temperature	Heating/Min./Cooling/Max.	°CDB		10/35			
Refrigerant	Type	ricumg/wiin/coomig/wax.	CDD		R-410A			
terrigerant	Charge		kg		4.0			
	Charge		TCO₂eq		8.4			
	GWP		rco ₂ eq		2,087.5			
	Control				Expansion valve (electronic type)			
Di		OD						
Piping connections	Liquid		mm	1.5	9.52	10.1		
	Gas	OD	mm	15	5.9	19.1		
	Drain	OD	mm		26x3			
Power supply	Phase/Frequency/		Hz/V		1N~/50/220-240			
Current	Maximum fuse am	ps (MFA)	Α		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	HeightxWidthxDepth	mm	1,680x635x765	1,680x9	930x765		
				159	107	240		
Weight	Unit		kg	159	187			
	Unit Material		kg	139	Painted galvanized steel plate			
Casing		Nom.	kg m³/min	95		185		
Casing	Material	Nom.			Painted galvanized steel plate			
Casing Fan-Air flow rate	Material Cooling		m³/min	95	Painted galvanized steel plate 171 171	185		
Casing Fan-Air flow rate Sound power level	Material Cooling Heating		m³/min m³/min	95 95	Painted galvanized steel plate 171 171	185 185		
Casing Fan-Air flow rate Sound power level Sound pressure level	Material Cooling Heating Nom. Nom.	Nom.	m³/min m³/min dBA	95 95 72	Painted galvanized steel plate 171 171 7	185 185		
Casing Fan-Air flow rate Sound power level Sound pressure level	Material Cooling Heating Nom. Nom. Cooling	Nom. Min./Max.	m³/min m³/min dBA dBA °CDB	95 95 72	Painted galvanized steel plate 171 171 77 57 -5/43	185 185		
Casing Fan-Air flow rate Sound power level Sound pressure level	Material Cooling Heating Nom. Nom. Cooling Heating	Nom. Min./Max. Min./Max.	m³/min m³/min dBA dBA °CDB	95 95 72	Painted galvanized steel plate 171 171 7 57 -5/43 -20/15	185 185		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Material Cooling Heating Nom. Cooling Heating On coil temperature	Nom. Min./Max.	m³/min m³/min dBA dBA °CDB	95 95 72	Painted galvanized steel plate 171 171 57 -5/43 -20/15 10/35	185 185		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type	Nom. Min./Max. Min./Max.	m³/min m³/min dBA dBA °CDB °CWB	95 95 72 54	Painted galvanized steel plate 171 171 57 -5/43 -20/15 10/35 R-410A	185 185 '8 58		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Material Cooling Heating Nom. Cooling Heating On coil temperature	Nom. Min./Max. Min./Max.	m³/min m³/min dBA dBA °CDB °CWB °CDB	95 95 72 54	Painted galvanized steel plate 171 171 7 57 57 -5/43 -20/15 10/35 R-410A 7.7	185 185 8 58		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Material Cooling Heating Nom. Cooling Heating On coil temperature Type Charge	Nom. Min./Max. Min./Max.	m³/min m³/min dBA dBA °CDB °CWB	95 95 72 54	Painted galvanized steel plate 171 171 7 57 -5/43 -20/15 10/35 R-410A 7.7 16.1	185 185 '8 58		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP	Nom. Min./Max. Min./Max.	m³/min m³/min dBA dBA °CDB °CWB °CDB	95 95 72 54	Painted galvanized steel plate 171 171 7 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5	185 185 8 58		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant	Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control	Min./Max. Min./Max. Heating/Min./Cooling/Max.	m³/min m³/min dBA dBA °CDB °CWB °CDB	95 95 72 54	Painted galvanized steel plate 171 171 57 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve	185 185 8 58		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant	Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control Liquid	Min./Max. Min./Max. Heating/Min/Cooling/Max.	m³/min m³/min dBA dBA °CDB °CWB °CDB TCO₂eq mm	95 95 72 54 6.2 12.9	Painted galvanized steel plate 171 171 57 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve 9.52	185 185 8 58 58		
Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant Piping connections	Material Cooling Heating Nom. Cooling Heating On coil temperature Type Charge GWP Control Liquid Gas	Min./Max. Min./Max. Heating/Min/Cooling/Max. OD OD	m³/min m³/min dBA dBA °CDB °CWB °CDB TCO ₂ eq mm mm	95 95 72 54	Painted galvanized steel plate 171 171 7 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve 9.52 19.1	185 185 8 58		
Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant Piping connections Power supply Current	Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control Liquid	Min./Max. Min./Max. Heating/Min/Cooling/Max. OD OD OD Voltage	m³/min m³/min dBA dBA °CDB °CWB °CDB TCO₂eq mm	95 95 72 54 6.2 12.9	Painted galvanized steel plate 171 171 7 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve 9.52 19.1 3N~/50/400	185 185 8 58 58		

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						Expansio	n valve kit				Missad assumentions				
		EKEQDCB	EKEQFCBA	EKEQMCBA	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	Mixed connection with			
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	VRV indoor units			
	ERQ100	Р	Р	-	-	Р	Р	Р	Р	-	-	-	-	-				
1-phase	ERQ125	Р	Р	-	-	Р	Р	Р	Р	Р	-	-	-	-	Not possible			
	ERQ140	Р	Р	-	-	-	Р	Р	Р	Р	-	-	-	-				
	ERQ125	Р	Р	-	-	Р	Р	Р	Р	Р	-	-	-	-				
3-phase	ERQ200	Р	Р	-	-	-	-	Р	Р	Р	Р	Р	-	-				
	ERQ250	Р	Р	-	-	-	-	-	Р	Р	Р	Р	-	-				
VR	V III	-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory			
	/ H/P / W-series S-series	-	P (1 -> 3)	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	Possible (not mandatory)			
VRV I	V H/R i-series	-	n1	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory			

- P (pair application): combination depends on the capacity of the air handling unit
 n1 (multi application) Combination of AHUs and VRV DX indoors (mandatory). To determine the exact quantity please refer to the engineering data book.
 n2 (multi application) Combination of AHUs and VRV DX indoors (not mandatory). To determine the exact quantity 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

Capacity table

Cooling

EKEXV Class		ed heat exch capacity (kW	-	Allowed heat exchanger volume (dm³)			
	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

EKEXV Class		ed heat exch capacity (kW	Allowed heat exchanger volume (dm³)			
	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

EKEXV - Expansion valve kit for air handling applications

Ventilation			EKEXV	50	63	80	100	125	140	200	250	400	500
Dimensions	Unit		mm					401x2	215x78				
Weight	Unit		kg					2	.9				
Sound pressure leve	el Nom.		dBA					4	15				
Operation range	On coil	Heating Min.	°CDB					10	(1)				
	temperatu	re Cooling Max.	°CDB					35	(2)				
Refrigerant	Type / GWF							R-410A	/ 2.087,5				
Piping connection	s 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	мсва		
Application			See note	Pair	Multi		
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.

Pair application selection

- > the outdoor unit is connected to ONE COIL (with single circuit or maximum 3 interlaced circuits) using up to 3 control boxes
- > indoor unit combination is not allowed
- > only works with X, W, Y control

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 °CDB and the target supply air temperature for fresh air is 25 °CDB. Load calculations point to a required capacity of 45kW. By checking on the EKEXV capacity table, for cooling operation, 40kW falls within the 400 class valve. Since 40kW is not the nominal capacity, a class adjustment has to be done. 40/45=0,89 and 0,89x400=356. So the capacity class of the expansion valve kit is

Step 2: Outdoor unit selection

For this AHU, a VRV IV heat pump model with continuous heating is going to be used (RYYQ-T series). For a capacity of 40kW at 35 °CDB, an outdoor of 14HP (RYYQ14T). The capacity class of the 14 HP outdoor unit is 350.

Total connection ratio of the system is 356/350=102% hence it falls within the range 90-110%.

Multi application selection

- the outdoor unit can be connected to MULTIPLE COILS (and their control boxes)
- > indoor units are also connectable but not mandatory
- > only works with Z control

Step 1: Required AHU capacity

An AHU with double flow, heat recovery and 100% fresh air is to be installed in Europe where the outdoor sizing temperature is 35 °CDB and the target supply air temperature for fresh air is 25 °CDB. On top of this, for this building, 5 round-flow cassette units FXFQ50A will also be connected to this OU.

Load calculations point to a required capacity of 20kW for the AHU and 22,5 kW for the indoor untis.

By checking on the EKEXV capacity table, for cooling operation, 20kW falls within the 200 class valve. Since 22,4 kW is the nominal capacity, a class adjustment has to be done. 20/22,4=0,89 and 0,89x200=178. So the capacity class of the expansion valve kit is 178. Total capacity class of the indoor unit system is 178+250=428

Step 2: Outdoor unit selection

For this system where a AHU is connected with indoor units, it is mandatory to use a heat recovery unit. By consulting the engineering databook for REYQ-T, the total required capacity of 42,5 kW requires a 16HP model REYQ16T. Which will deliver 45kW at the design temperature of 35 °CDB. This unit has a capacity class of 400. Total connection ratio of the system is 428/400=107% hence it falls within the range 50-110%.

Step 3: Control box selection

In this particular case, the control will work with precise air temperature control. Only W or X control allow this. Since the consultant wants to use an "off-the-shelf" DDC module, the EKEQFCBA box with W control allows easy set-up due to pre-set factory values.

Step 3: Control box selection

In this particular case, the only available control is Z control and the combination of AHU and VRV DX indoor units requires EKEQMCBA control box.



Available from spring 2018 onwards!

Experience a new way to air conditioning control and configuration



More control, less buttons











Advanced settings and commissioning can be easily done via smartphone



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Requirement tables per application

Daikin offers various control solutions 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 advanced energy management

NEW

NEW

Shop		Unit control			Integrating control			Advanced control	
	BRP069*	BRC1H51(9)W/S/K	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51	
	Online controller	User-friendly wired remote control	Retail economiser	Modbus infer- face for monitor- ing & control	KNX interface	DIII-net Modbus interface	Intelligent Controller	Intelligent Manager	
	Smart phone 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)	1 iTM for 64 indoor unit(s) (groups) (1)	
Design controller with simple interface	•	•					•	•	
Automatic control of A/C	•	•	•	•	•	•	•	•	
Limit control possibilities for shop staff		•	•	•	•	•	•	•	
Create zones within the shop			•				•	•	
Interlock with eg. Alarm, PIR sensor			•				(limited)	•	
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)	•	
App for easy setting and status read-out	•	•							
Allows free cooling								•	
Integrate Daikin products cross pillars into Daikin BMS						•		•	
Integrate third party products into Daikin BMS							•	•	
Online control	•						• (2)	•	
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

NEW

Hotel	Unit control		Integrating control	l	Advanced control
	BRC1H51(9)W/S/K	RTD-HO	KLIC-DI	DCM010A51	DCM601A51
	User-friendly wired remote control	Intelligent hotel room controller	KNX interface	PMS Interface	Intelligent Manager
	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	1 iTM for 64 indoor unit(s) (groups) (1)
Hotel guest can control & monitor basic functionalities from his room	•	•	• (3)		•
Design controller with simple interface	•				•
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					•
App for easy setting and status read-out	•				
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

NEW

	INEVV					
Office	Unit control		Integrating contro		Advance	d control
	BRC1H51(9)W/S/K	EKMBDXA	DMS504B51	DMS502A51 / DAM412B51	DCC601A51	DCM601A51
	User-friendly wired remote control	DIII-net modbus interface	LonWorks Interface	BACnet Interface	intelligent Controller	Intelligent Manager
	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 out- doors (2)	1 unit for 32 indoor unit(s) (groups)	1 iTM for 64 indoo unit(s) (groups) (1
Design controller with simple interface	•				•	
Automatic control of A/C	•	•	•	•	•	•
Centralised control for management		•	•	•	•	•
Limit control possibilities for office staff	•	• (6)	• (6)	• (6)	•	•
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	• (7)					
Monitor energy consumption					• (4)	•
Advanced energy management					• (4)	•
App for easy setting, copy of settings and status read-out	•					
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 needed to go to 256 indoor unit(s) (groups), 40 outdoors (3) ON/OFF only (4) Via Daikin cloud service (5) Through own IT set-up (not Daikin cloud sever) (6) if a wired remote controller is installed (7) via app, not available for all connectable units

Infrastructure cooling	Unit	Integrating	Advanced
	BRC1E53A/B/C	RTD-10	DCM601A51
		Server room controller	Intelligent Manager
	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	•	•	•
App for easy setting, copy of settings and status read-out			
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 Seasonal Smart outdoor units. (3) See option list of indoor unit

Experience a new way

of air conditioning control and

commissioning







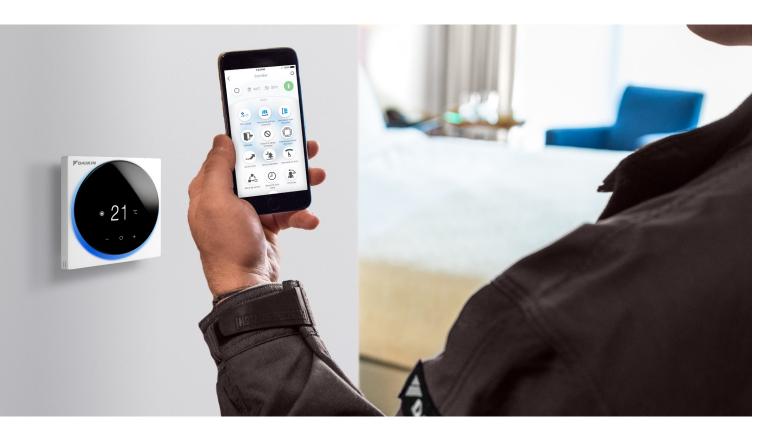
User-friendly wired remote controller with premium design

A complete redesigned controller focussed to enhance user experience

- Sleek and elegant design
- · Intuitive touch button control
- 3 colors to match any interior design
- Compact, only 85x85mm
- Advanced settings and commissioning via smartphone







Advanced settings can be easily done via your smartphone

- BLE (Bluetooth Low Energy) communication
- Visual interface for intuitive setting of schedules, set point restriction and other settings for advanced users / technical managers
- Easy and time saving commissioning for installers

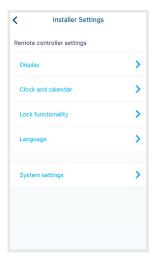




Advanced user settings



Installer settings



Field settings



BRC1H51(9)W / BRC1H51(9)S / BRC1H51(9)K

User-friendly wired remote controller with premium design for Sky Air and VRV





BRC1H51(9)S



A complete redesigned controller focussed to enhance user experience

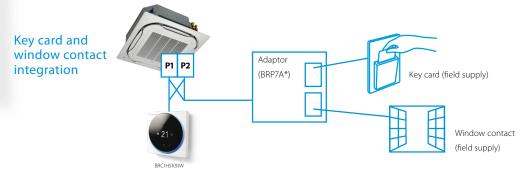
- > Sleek and elegant design
- > Inuitive touch button control
- > 2 display views: standard and detailed
- > Access to basic functions (on/off, mode, setpoint, fanspeed, louvers, filter sign & reset, error & code)
- > 3 colors to match any interior design
- > Compact, only 85x85mm
- > Real time clock with auto update to daylight saving time
- > BRC1H519 models are equipped with a buzzer

Hotel application functions

- > 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 quest comfort









Advanced settings can be easily done via your smartphone

A series of energy saving functions that can be individually selected

- > Temperature range limit
- > Setback function
- > Presence & floor sensor setting (available on round flow and fully flat cassette)
- > kWh indication (2)
- > Set temperature auto reset
- > Off timer

Temperature range limit avoids excessive heating or cooling

Save energy by constraining the upper and lower temperature limit in cooling and heating mode. note: Also available in auto cooling/heating change over mode.

kWh indication keeps track of your consumption (2)

The kWh indication shows an indicative electricity consumption of the last day/month/year.

Other functions

- > Up to 3 independent schedules can be set, so the user can easily change the schedule himself throughout the year (e.g. summer, winter, mid-season)
- > Possibility to individually restrict menu functions
- > Selection of quiet mode function for the outdoor unit (1)

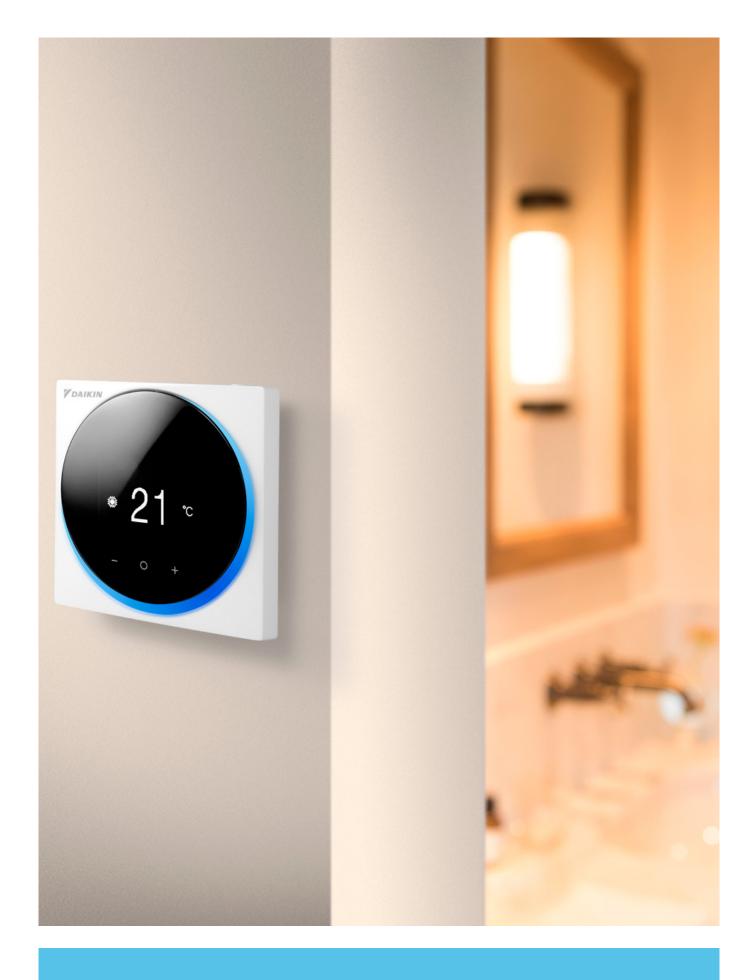


Cost-effective solution for infrastructure cooling applications

After a certain period of time, the operating unit will go into standby and the standby unit will take over, increasing lifetime of the system Rotation interval can be set from 6h, 12h, 24h, 72h, 96h, weekly

(1) Only available on RZAG*, RZASG*, RZQG*, RZQSG*

(2) For Sky Air FBA, FCAG and FCAHG pair combinations only



www.daikin.eu/brc1h

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)



- > 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 Sky Air A-series or Seasonal Smart outdoor unit

(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
- 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

BRC2E52C / BRC3E52C

Simplified wired remote control developed for hotel applications



With operation mode selector

- > Symbol driven interface for intuitive control
- > Functions restricted to basic customer needs
- > 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
- > Flat backpanel for easy installation
- Easy commissioning: intuitive interface for advanced menu settings
- > 2 versions available:
 - BRC3E52C: temperature, fan speed, ON/OFF
 - BRC2E52C: temperature, mode, fan speed, ON/OFF

BRC1D52

Wired remote control



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

AZCE6BLUEFACECB / AZCE6THINKRB / AZCE6LITERB

Controls for multi zoning kits

3 controller versions are available to choose from: Colour, touch or simplified



AZCE6BLUEFACECB

Blueface - main thermostat

- > Intuitive graphical, colour touch screen for controlling multiple zones
- > Wired communication
- \rightarrow Optional bus cable (2 x 0.5 mm² + 2 x 0.22 mm²) (10m cable length)



AZCE6THINKRB

Think - zone thermostat

- > Graphic touch button with low-energy e-ink screen for controlling single zones
- > Low energy radio communication with proprietary protocol (868MHz)



AZCE6LITERB

Lite - zone thermostat

- > Simplified thermostat with touch buttons for temperature control
- > Low energy radio communication with proprietary protocol (868MHz)
- *The wired Daikin BRC1E / BRC1H remote control is needed to control operation and maintenance.

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

Centralised control of the Sky Air and VRV system can be achieved via 3 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).

The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

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

DST301B51

Schedule timer



Enabling 64 groups to be programmed.

- > a maximum of 128 indoor units can be controlled
- > 8 types of weekly schedule
- > a maximum of 48 hours back up power supply
- > a maximum wiring length of 1,000m (total: 2,000m)

DCS301B51

Unified ON/OFF control



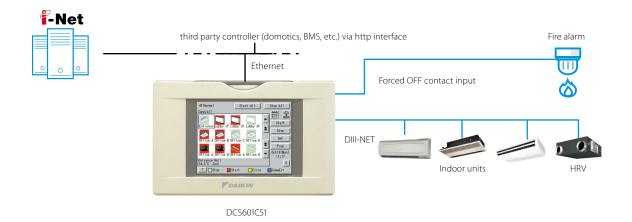
Providing simultaneous and individual control of 16 groups of indoor units.

- > 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 shedule
- > 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)



DCC601A51

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:

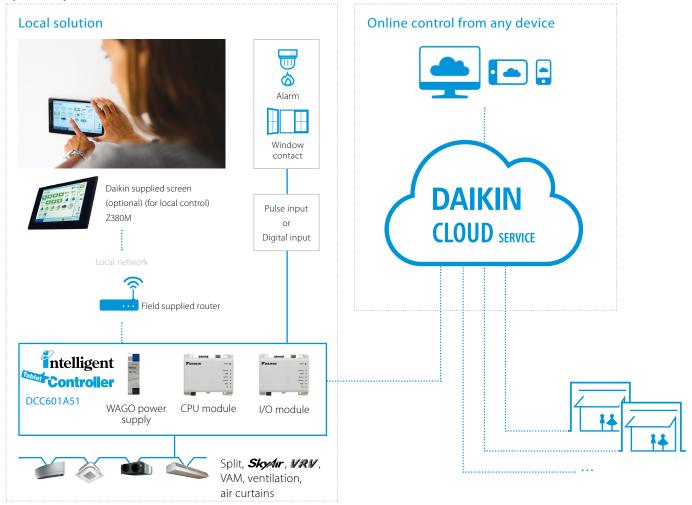
Local solution

- > 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



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 troubleshooting
- > 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

Functions overview

Flexible

- > Inputs via digital and pulse input 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 unit (groups)

(1) only available in combination with certain indoor units

From one to ∞ sites **DAIKIN CLOUD** si Installer/ Customer technical manager





Easy follow up of energy consumption



Indoor uit

		mader are	
		Local solution	Cloud solution
Languages		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
System layout	N° of connectable indoor units	32	32
	Multiple sites control		•
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, \ldots)	•	•
	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		•
Connectable to	DX split, Sky Air, VRV	•	•
	VAM, VKM ventilation	•	•
	Air curtains	•	•

Mini BMS

with full integration across all product pillars

DCM601A51

Intelligent Manager

- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment

NEW

Download the WAGC selection tool from my.daikin.eu

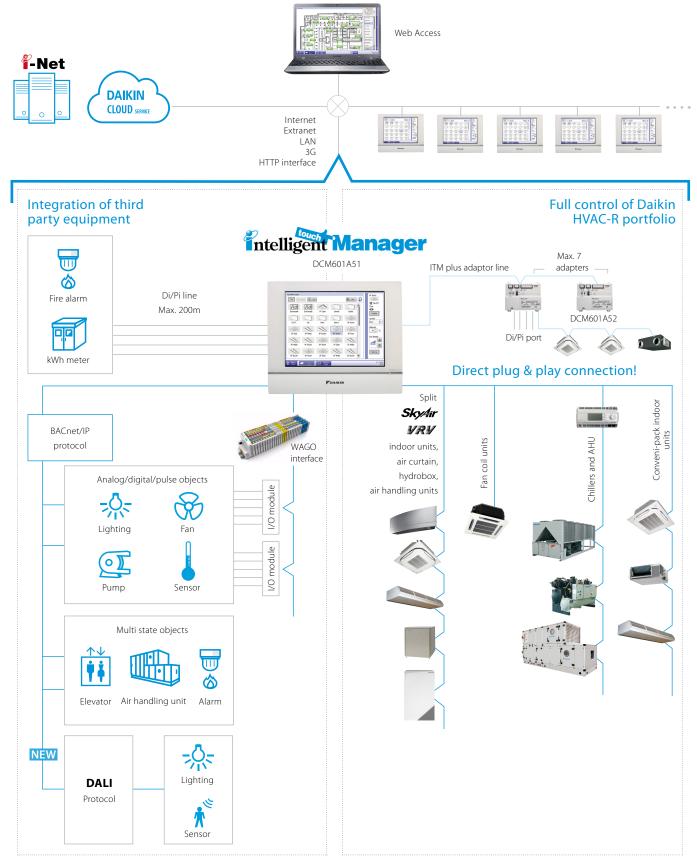
- > Easy selection of WAGO materials
- > Material list creation
- → Time saving
- Includes wiring schemes
- Contains commissioning/preset data for iTM







System overview



Intelligent Manager

User friendliness

- > Intuitive user interface
- Visual lay out view and direct access to indoor unit main funtions
- All functions direct accessible via touch screen or via web interface

Smart energy management

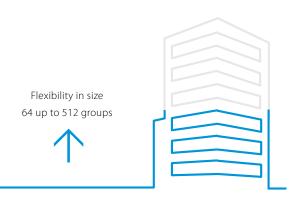
- > Monitoring if energy use is according to plan
- > Helps to detect origins of energy waste
- > Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equipment such as heating

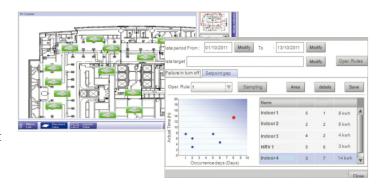
Flexibility

- > 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

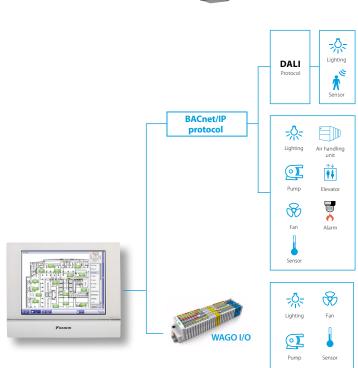
Easy servicing and commissioning

- > 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









Functions overview

Languages

- > English
- > French
- > German
- > Italian
- > Spanish
- > Dutch
- > Portuguese

Management

- > Web access
- 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
 - WAGO coupler (interface between WAGO and iTM)
 - Di module
- Do module
- Ai module
- Ao module
- Thermistor module
- Pi module

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

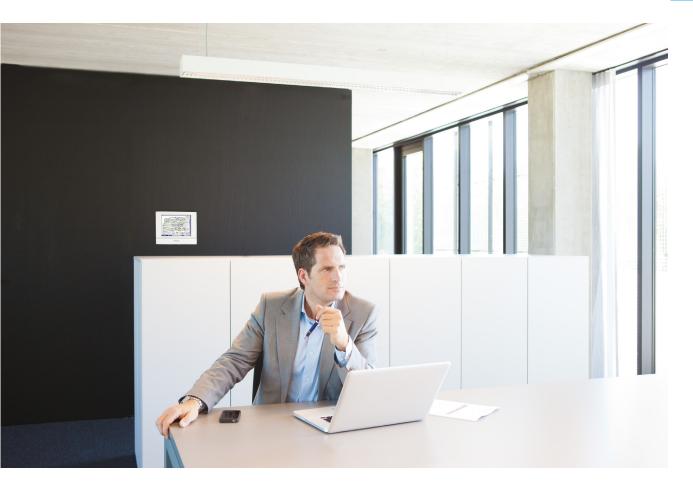
- Individual control (512 groups)
- Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
- > Interlock control
- > Setpoint limitation
- > Temperature limit

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-EKCMBACIP controller)
- Daikin AHU (via MT3-EKCMBACIP controller)
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol
- Daikin PMS interface (option DCM010A51) **NEW**



Modbus Interface

RTD

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 CO₂ 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



Overview functions











Main functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions HxWxD mm	80 x 80 x 37,5	100 x100 x 22			
Key card + window contact					R>
Set back function	₽				R>
Prohibit or restrict remote control functions (setpoint limitation,)	₽	B	R	₽"	R>
Modbus (RS485)	₽	B	R	B	R>
Group control	₽~(1)	R	R	B	R>
0 - 10 V control			R	B	
Resistance control			R	B	
IT application	B		R		
Heating interlock			B	B	
Output signal (on/defrost, error)			B	₽ ****	R>
Retail application				B	
Partitioned room control				R	
Air curtain		P-"	₽	R	

(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,V,R	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
Termo 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	HxWxD 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	
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	
Prohibit Space heating/cooling	
Prohibit DHW	
Prohibit Electric heaters	
Prohibit All operation	
PV available for storage	
Powerful boost	

Monitoring functions	
On/Off Space heating/cooling Set point leaving water temperature (H/C)	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
ault	M,C
ault code	M
Eirculation pump operation	M
low rate	
Solar pump operation	
Compressor status	M
Desinfection operation	M
Setback operation	M
Defrost/ start up	M
Hot start	
Booster Heater operation	
B-Way valve status	
Pump running hours accumulated	M
Compressor running hours accumulated	
Actual leaving water temperature Actual return water temperature	M
Actual return water temperature	M
Actual DHW tank temperature (*)	M
Actual refrigerant temperature	
Actual outdoor temperature	M

- $\begin{array}{ll} M : Modbus \ / \ R : Resistance \ / \ V : Voltage \ / \ C : control \\ ^* : only \ when \ room \ is \ occupied \ / \ ^** : setpoint \ limitation \ / \ (^*) \ if \ available \\ ^{***} : no \ fan \ speed \ control \ on \ the \ CYV \ air \ curtain \ / \ ^{****} : run \ \& \ fault \end{array}$

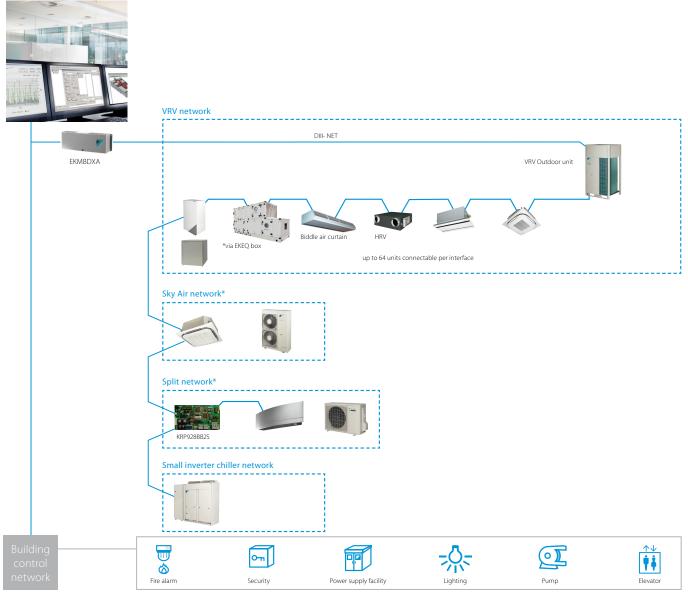
DIII-net Modbus interface

EKMBDXA

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).

60



* Additional centralized controller might be required. For more information contact your local dealer.

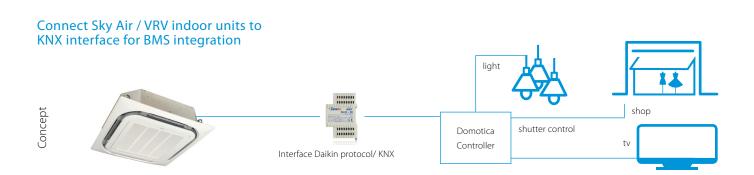
			EKMBDXA7V1	
Maximum number of connectable indoor units			64	
Maximum number of connectable outdoo	or units		10	
Communication	DIII-NET - Remark		DIII-NET (F1F2)	
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps	
	Protocol - Type		RS485 (modbus)	
	Protocol - Max. Wiring length	m	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	

KNX interface

KLIC-DD(3) KLIC-DI

Integration of Split, Sky Air and VRV in HA/BMS systems





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 'scenario' - 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.

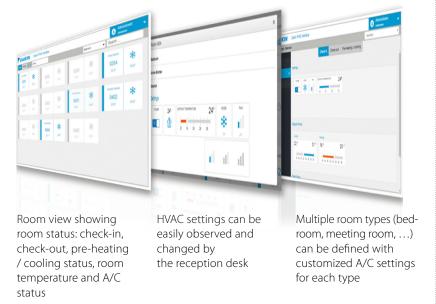
KNX interface for KLIC-DD(3) Size 45x45x15mm KLIC-DI Size 90x60x35mm Split VRV Sky Air Basic control On/Off Mode Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Temperature Fan speed levels 3 or 5 + auto 2 or 3 2 or 3 Swing Stop or movement Swing or fixed positions (5) Stop or movement Advanced functionalities Error management Communication errors, Daikin unit errors Scenes Auto switch off . Temperature limitation Initial configuration Master and slave configuration

PMS Interface

DCM010A51

Daikin HVAC with Oracle

Property Management Systems



Features

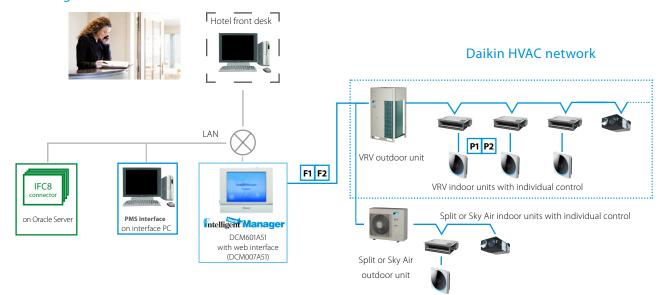
- > User-friendly interface for easy front desk support in hotels, conference centers, ...
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- > Energy saving thanks to the possibility 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



Simplified configuration of Daikin PMS interface

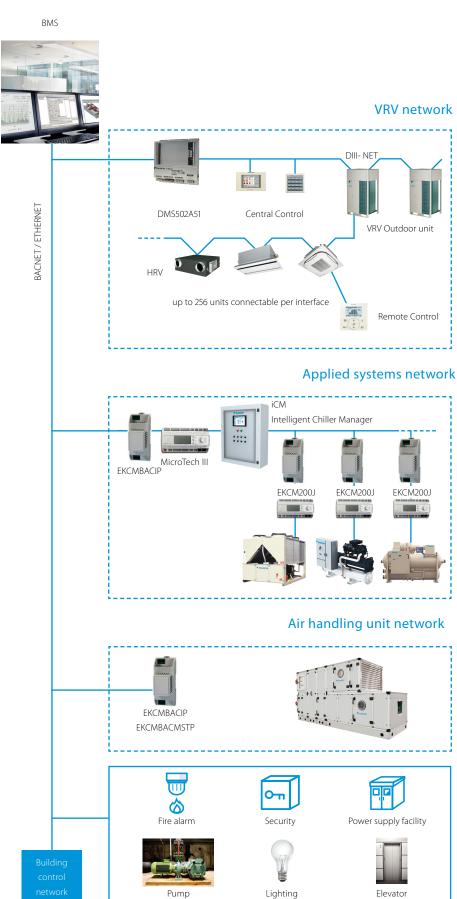


BACnet Interface

DMS502A51 / EKACBACMSTP / EKCMBACIP / EKCMBACMSTP

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)



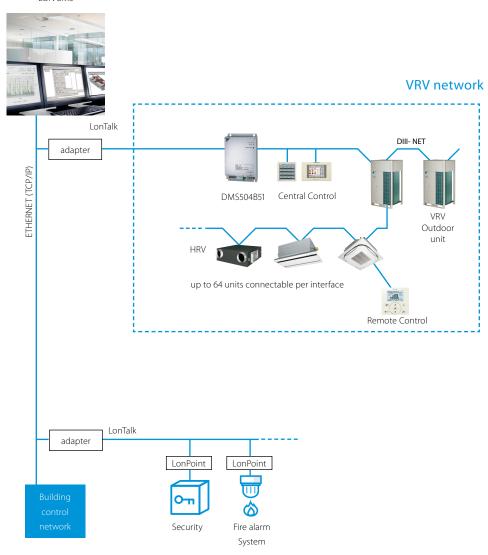
LonWorks Interface

DMS504B51

Open network integration of VRV monitoring and control functions into LonWorks networks

LON BM

- Interface for Lon connection to LonWorks networks
- Communication via Lon protocol (twisted pair wire)
- > Unlimited sitesize
- > Quick and easy installation



Daikin Configurator Software

Daikin Configurator Software

EKPCCAB3

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







Retrieve initial system settings







What is I-Net?

A service based on our global remote monitoring technology, keeping your system trouble-free and working with top efficiency.



What does I-Net offer you

Safeguarding the lifelong optimum operation of your air conditioning system means getting geared up to operate the system in a energy efficient way and reduce unexpected breakdowns and costs to the absolute minimum. This is where I-Net helps to improve the effectiveness of your building management.

I-Net is about 'being connected' with Daikin, the Internet-based link between you, your air conditioning system and Daikin's Remote Monitoring Centre. This allows you to monitor your energy consumption and Daikin's expert service engineers to monitor your entire system's status non-stop, all year round. Through predicting malfunctions and offering technical advice from data analysis, you can maximise equipment uptime, as well as controlling energy costs with no sacrifice in comfort levels. By doing this, i-Net will prevent problems, prolong your system's service life while reducing the energy bill.

I-Net Services

i-Net consists of 2 main services: the VRV Cloud and I-Net performance monitoring and analysis.

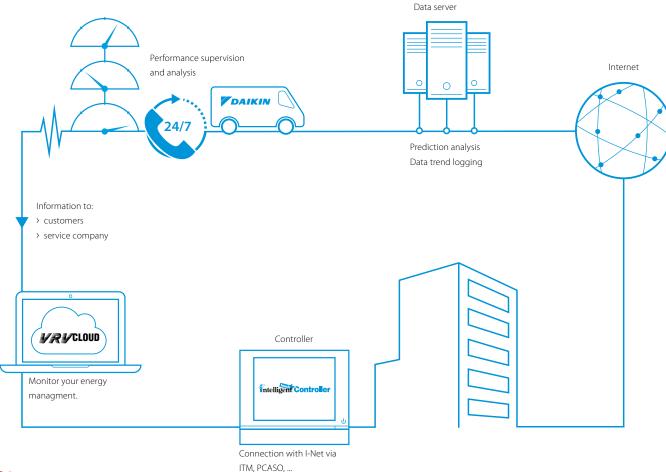
VRV Cloud

The VRV Cloud puts you in the driving seat of your energy management. The easy-to-use energy data trending and analytic tools puts you in control and shows you CO₂ footprint reduction opportunities and energy savings of up to 15%.

Saving starts by measuring. Enhance your company's sustainability!

I-Net performance monitoring and analysis

Focus on your core business and hand the HVAC over to Daikin. Daikin I-Net connects your system continuously with Daikin. It notifies alarms and early warnings of system deviations to maximise system uptime and the comfort of the people in the building. Service providers have webbased access to operation data so that they are fully prepared when they arrive on-site. Specialists run trend analyses. All of which boosts your system's reliability by ensuring that it is running at optimum efficiency.





Daikin VRV Cloud

Helps you manage your energy through Daikin technology.

- > Intelligent energy visualization tool that helps you with your energy management
- > 24/7 online monitoring by the customer from any location.
- User friendly visualization of VRV energy management (kWh)
- > Analysis support of waste operation
- > Multiple site monitoring

- > Performance Supervision by Daikin experts enhances a maintenance plan.
- This service aims to enhance the service level, to respond fast and accurate, to save on unexpected repair costs and assure the peace of mind. Repetitive interventions and disturbance of building tenants and maintenance teams are kept to a minimum.

Long lifetime systems

> I-Net will maximise the installation's lifetime, by assuring the equipment runs in optimal conditions and avoid unnecessary stress on components.

Performance monitoring

Daikin's unique I-Net Service aims to prevent the equipment coming to an unexpected stop or needing emergency repair.

Fast response, better prepared

- If an alarm does occur, the service provider is immediately alerted and receives all crucial information.
- > Early fault indication (predictions): operation data are 24/7 checked by I-Net prediction algorithms to act as early as possible, averting breakdowns.

Analysis

Be connected with Daikin's experts, this gives you a clear overview of operability and use of the air conditioning system.

- Daikin continuously monitors energy, operation and comfort data. Thanks to periodic analysis of the data, Daikin can suggest ways of improving performance.
- if there is a problem, Daikin specialists will analyse the operation data history to provide remote support.

Wireless room temperature sensor

K.RSS

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		R	F		
	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.

Wired room temperature sensor

KRCS01-1B KRCS01-4B



 Accurate temperature measurement, thanks to flexible placement of the sensor

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

requirements Deployed on single or multiple units		Connectable to:			
			Split	Sky Air	VRV
10 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(E)KRP1B* adapter for wiring	 Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper Powered by and installed at the indoor unit 		•	•
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	KRP2A*/KRP4A* Wiring adapter for electrical appendices	 Remotely start and stop up to 16 indoor units (1 group) (KRP2A* via P1 P2) Remotely start and stop up to 128 indoor units (64 groups) (KRP4A* via F1 F2) Alarm indication/ fire shut down Remote temperature setpoint adjustment Cannot be used in combination with a central controller 		•	•
	KRP58M3	Low noise and demand control option for RZQ200/250C		•	
d seeses	SB.KRP58M51	Low noise and demand control option for RZQG and RZQSG single phase Includes mounting plate EKMKSA1		•	
and and a	KRP58M51	Low noise and demand control option for RZQG1 and RZQSG 3 phase		•	
	DTA104A* Outdoor Unit External Control Adapter	 Individual or simultaneous control of VRV system operating mode Demand control of individual or multiple systems Low noise option for individual or multiple systems 			•
	DCS302A52 Unification adapter for computerized control	 Enables unified display (operation/malfunction) and unified control (ON/OFF) from BMS system Must be used together with intelligent Touch Controller or intelligent Touch Manager Cannot be combined with KRP2/4* Can be used for all VRV indoor models 			•
	KRP928* Interface adapter for DIII-net	Allows integration of split units to Daikin central controls	•		
THE STATE OF THE S	KRP413* Wiring adapter normal open contact / normal open pulse contact	Switch off auto restart after power failure Indication of operation mode / error Remotely start /stop Remotely change operation mode Remotely change fan speed	•		
	KRP980* Adapter for split units without an S21 port	Connect a wired remote control Connect to Daikin central controls Allow external contact	•		

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO	0	External ON/OFF or forced off Example: door or window contact
EKRORO 3		External ON/OFF or forced off F1/F2 contact Example: door or window contact
KRC19-26A		 Mechanical cool/heat selector Allows switching over an entire system between cooling/heating/fan only Connects to the A/B/C terminals of the unit
BRP2A81	(10) (10) (10) (10) (10) (10) (10) (10)	 Cool/heat selector PCB Required to connect KRC19-26A to a VRV IV outdoor unit







Options & accessories

VRV outdoor	192
VRV indoor	196
Stylish indoor	200
Ventilation & Hot Water	202
Control Systems	203

Options & accessories - **JRV** outdoor

	Options & accessories - ITI outdoor			VRV IV Heat Recover	ry				
		REYQ 8~12T	REYQ 14~20T	REMQ5T	2-module systems	3-module systems			
	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system				BHFQ23P907	BHFQ23P1357			
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units			Special order unit					
Kits	Central drain pan kit - 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.								
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)	EKBPH012T + EKBHPCBT	EKBPH020T + EKBHPCBT	EKBPH012T + EKBHPCBT					
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	•	•	•	1 kit per system	1 kit per system			
	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the FI/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-Will 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 mouting plate is required. See Options & Accessories of indoor units							
Adapters	KRC19-26A 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.								
Ac	EBRP2B - Cool/heat selector PCB								
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor)								
	KKSA26A560* Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)								
_	KJB111A Installation box for remote cool/heat selector KRC19-26A								
	EKCHSC - Cool/heat selector cable								
	EKPCCAB3 VRV configurator	•	•	•	•	•			
Others	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.								
C	DTA109A51 DIII-net expander adapter	•	•	•	•	•			
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)								
	EKDK04 Drain plug kit								

			VRV	V IV S-series
		RXYSCQ-T	RXYSQ4-6T8V	RXYSQ4-6T8Y
	Multi-module connection kit (obligatory) - Connects multiple modules into a single refrigerant system			
	Extended level difference kit - Allows outdoor unit to be more than 50m above indoor units			
Kits	Central drain pan kit - 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.			
	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)			
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.			
	External control adapter for outdoor unit - Allows to activate Low Noise Operation and three levels of demand control, limiting power consumption via external dry contacts. Connects to the FI/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-Will outdoor unit.	For installation into a	DTA104A53/61/62 an indoor unit: exact adapter type depend See Options & Accessories of indoor uni	
Adapters	KRC19-26A 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.		•	•
Ad	EBRP2B - Cool/heat selector PCB (Required to connect KRC19-26A)		•	
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor) KKSA26A560*			
	Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			
_	KJB111A Installation box for remote cool/heat selector KRC19-26A		•	•
	EKCHSC - Cool/heat selector cable (Required to connect KRC19-26A)			•
	EKPCCAB3	•	•	•
LS	VRV configurator KKSB2B61*			
Others	Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			
0	DTA109A51 DIII-net expander adapter			
	BPMKS967A2/A3	+		_
	Branch provider (for connection of 2/3 RA indoor units)	•	•	•
	EKDK04		•	•
	Drain plug kit			

		VRV IV with cor	itinuous heating				VRV IV withou	ut continuous heating	l
RYYQ8-12T (8)	RYYQ14-20T	RYMQ8-12T	RYMQ14-20T	2-module systems	3-module systems	RXYQ8-12T 8	RXYQ14-20T	2-module systems	3-module system
				BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517
				DTII Q221 1007	BTII Q221 1517			5111 Q221 1007	5111 Q221 1517
EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT	EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT			EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT		
				11::4	11::4			11:14	11.:4
•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system
				DTA104/	\53/61/62				
		For 1-	For installation into 4-20 HP the demand	an indoor unit: exact a PCB mouting plate is re	dapter type depends o quired. See Options &	n type of indoor unit. Accessories of indoor	· runits		
								11:4	11::-
•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system
•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system
	•			1 kit	1 kit		•	1 kit	1 kit
				per system 1 kit	per system 1 kit			per system 1 kit	per system 1 kit
•	•	•	•	per system	per system	•	•	per system	per system
•	•	•	•	•	•	•	•	•	•
	•		•				•		
•	•	•	•	•	•	•	•	•	•
•	•				-	•	•		
					VRV IV i	-corios			
					SB.RK	XXYQ			
RXYSQ	8-12TY1	RD	(YQ5	RD	YQ8	RKX	YQ5	RKX	YQ8
		EKUDI	RH1RDX	EKUDI	RH1RDX				
		Litori		Liver	u iii bx				
			For installation into	an indoor unit: exact a	A53/61/62 dapter type depends o	n type of indoor unit			
				See Options & Acces	sories of indoor units				
									•
									•
						•		•	
•	•					•	•	-	•



	ī		VPVIV	Q Heat Pump Replacem	ont VPV			
		RQYQ 140P	RXYQQ8-12T	RXYQQ14-20T	2-module systems	3-module systems		
	Multi-module connection kit (obligatory) Connects multiple modules into a single refrigerant system				BHFQ22P1007	BHFQ22P1517		
s	Central drain pan kit - 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						
Kits	Heater tape kit - Optional electrical heater to guarantee trouble-free operation in extremely cold and humid climates (one per outdoor unit needed)		EKBPH012T + EKBPHPCBT	EKBPH020T + EKBPHPCBT				
	BHGP26A1 Digital pressure gauge kit – displays current condensing and evaporating pressures in the system as Standard, or expansion valve positions and temperature sensor data in a special service mode. Connect to the outdoor unit PCB, for installation in the outdoor unit.	•	•	•	1 kit per system	1 kit per system		
	External control adapter for outdoor unit - 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*, B5VQ 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 mouting plate is required. See Options & Accessories of indoor units						
Adapters	KRC19-26A 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	1 kit per system		
	BRP2A81 Cool/heat selector PCB (required to connect KRC19-26A to VRV IV outdoor)		•	•	1 kit per system	1 kit per system		
	KKSA26A560* - Cool/heat selector PCB mounting plate (only required when cool/heat selector PCB and Heater tape kit are combined)			•	1 kit per system	1 kit per system		
	KJB111A Installation box for remote cool/heat selector KRC19-26A	•	•	•	1 kit per system	1 kit per system		
Others	EKPCCAB3 VRV configurator		•	•	•	•		
Oth	KKSB2B61*							
-	Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.							
	DTA109A51 DIII-net expander adapter	•	•	•	•	•		

≀ef	nets & branch selector boxes		Refne	et Joints			Refnet Headers
		Capacity index < 200	Capacity index 200 ≤ x < 290	Capacity index 290 ≤ x < 640	Capacity index > 640	Capacity index < 290	Capacity index 290 ≤ x < 640
	Metric-size connections for heat pump systems (2-pipe)	KHRQM22M20T	KHRQM22M29T	KHRQM22M64T	KHRQM22M75T	KHRQM22M29H	KHRQM22M64H
ets	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20T	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHRQ22M29H	KHRQ22M64H
Refnets	Metric-size connections for heat recovery systems (3-pipe)	KHRQM23M20T	KHRQM23M29T	KHRQM23M64T	KHRQM23M75T	KHRQM23M29H	KHRQM23M64H
	Imperial-size connections for heat recovery systems (3-pipe)	KHRQ23M20T	KHRQ23M29T9	KHRQ23M64T	KHRQ23M75T	KHRQ23M29H	KHRQ23M64H
box) (only ry system)	EKBSVQLNP Sound reduction kit (sound insulation)						
Options for Branch selector boxes (BS box) (only for connection with VRV heat recovery system)	KHFP26A100C Closed pipe kit						
Branch selection with VRV	KHRP26A1250C Joint kit						
Options for for connec	Quiet kit						

	VRV III-O Heat Recov	ery Replacement VRV			VR	V-W IV Water-cooled V	RV	
	VAV III-Q Heat Recov	ery nepiacement vnv			Heat Pump	application	Heat Recover	y application
RQEQ 140~212	2-module systems	3-module systems	4-module systems	RWEYQ8-14T9	2-module systems	3-module systems	2-module systems	3-module system:
	BHFP26P36C	BHFP26P63C	BHFP26P84C		BHFQ22P1007	BHFQ22P1007 / BHFQ22P1517	BHFQ23P907	BHFQ23P907 / BHFQ23P1357
KWC26B160	1 kit per module	1 kit per module	1 kit per module					
•	1 kit per system	1 kit per system	1 kit per system					
Installat [:]	ion in the RWEYQ outdoo	r unit possible. For insta	llation in indoor units, us	DTA104A53/61/62 e appropriate type (DT	7104A52/61/62) for partic	ular indoor unit Coo On	.i 0 A	
		·			A104A33/01/02/101 partic	ular indoor unit. see Op	tions & Accessories of Inc	door units
				(for H/P only)	1 kit per system	1 kit per system	tions & Accessories of Inc	door units
				(for H/P only)		•	tions & Accessories of the	door units
				•	1 kit per system	1 kit per system	ions & Accessories of inc	door units
				•	1 kit per system	1 kit per system	ions & Accessories of Inc	door units

	Heat Recovery Branch Selector Boxes (BS-Boxes)										
Capacity index	1-port	4-port	6-port	8-port	10-port	12-port	16-port				
> 640	BS1Q-A	BS4Q14AV1B	BS6Q14AV1B	BS8Q14AV1B	BS10Q14AV1B	BS12Q14AV1B	BS16Q14AV1E				
KHRQM22M75H											
KHRQ22M75H											
KHRQM23M75H											
KHRQ23M75H											
	•										
		•	•	•	•	•	•				
		•	•	•	•	•	•				
		KDDN26A4	KDDN26A8	KDDN26A8	KDDN26A12	KDDN26A12	KDDN26A16				

pti/	ions & accessories - IPI indoor			Ceiling mor	Ceiling mounted cassette units			
		Round flow (800x800)	4-way (600x600)	TV22 20, 404	2-way blow			
_		FXFQ 20~125A	FXZQ 15~50A	FXCQ 20~40A	FXCQ 50~63A	FXCQ 80 ~125		
г	Decoration panel	BYCQ140DG9 (self clean) (5)/(6) BYCQ140DGF9 (fine mesh) (5)/(6)	BYFQ60CW (white panel)	200 50 4011	21/2006211	D)/DCO12511		
	(obligatory for cassette units, optional for others, rear panel for FXLQ)	BYCQ140DW (white) (3)	BYFQ60CS (grey panel) BYFQ60B3 (Standard panel)	BYBCQ40H	BYBCQ63H	BYBCQ125H		
-		BYCQ140D (Standard)						
F	Panel spacer for reducing required installation height		KDBQ44B60 (Standard panel)	1				
	Sealing kit for 3- or 2-directional air discharge	KDBHQ55B140 (7)	(Standard panel) BDBHQ44C60 (white & grey panel)					
			BRYQ60AW (white panel)					
5	Sensor kit	BRYQ140A	BRYQ60AS (grey panel)					
T			BRC7F530W (9) (10)					
			(white panel) BRC7F530S (9) (10)	ĺ				
lr	Infrared remote control including receiver	BRC7FA532F	(grey panel)	BRC7C52	BRC7C52	BRC7C52		
			BRC7EB530 (9) (10)	ĺ				
H	The second of th		(standard panel)	+				
В	BRC1H51W (White) / BRC1H51S (Silver) / BRC1H51K (Black)	•	•	•	•	•		
U	User-friendly wired remote controller with premium design			-				
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•		
В	BRC1D52 (4)		1					
St	Standard wired remote control with weekly timer	•	•	•	•	•		
	BRC2E52C Simplified remote control (with operation mode button)	•	•	•	•	•		
В	BRC3E52C		†					
Si	Simplified remote control (without operation mode button)	•	•	•	•	•		
	DCC601A51 Intelligent Tablet Controller	•	•	•	•	•		
	DCS601C51 (12)		†					
in	intelligent Touch Controller	•	•	•	•	•		
	DCS302C51 (12) Central remote control	•	•	•	•	•		
D	DCS301B51 (12) (13)		†					
U	Unified ON/OFF control	•	•	•	•	•		
	DST301B51 (12) Schedule timer	•	•	•	•	•		
Ь	DCM601A51	+	†			1		
In	Intelligent Touch Manager	•	•	•	•	•		
E	EKMBDXA DIII-net modbus interface	•	•	•	•	•		
-	KLIC-DI		†			+		
. K	KNX interface	•	•	•	•	•		
	DMS502A51 BACnet interface	•	•	•	•	•		
D	DMS504B51		†					
Lo	LowWorks interface	•	•	•	•	== 10444		
R	Replacement long life filter, non-woven type	KAFP551K160	KAFQ441BA60	KAFP531B50	KAFP531B80	KAFP531B160		
A	Auto cleaning filter	see decoration panel	1	1				
	Wiring adapter for external monitoring/control via dry contacts	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51	KRP4A51	KRP4A51		
aı	and setpoint control via 0-140Ω	Nης 47Αυσ (2 ₁ (γ)	אוויאאסט (בו	MICTON	NNFTOSI	Niii -1/2.		
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)	KRP1B57 (2)(7)	KRP1B57	1				
W	Wiring adapter with 4 output signals	EKRP1C11 (2)(7)	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2		
(0	(Compressor / Error, Fan, Aux. heater, Humidifier output)	ENNT ICH (Z _M)	ENTIDE	EUUL IDE	LIMI IDE	LIMITION		
-	Adapter for wiring (interlock for fresh air intake fan) Wiring adapter for external central monitoring/control		+	<u> </u>				
	(controls 1 entire system)		KRP2A52	KRP2A51	KRP2A51	KRP2A51		
-	External control adapter for outdoor unit (installation on indoor unit)			DTA104A61	DTA104A61	DTA104A61		
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61	1				
	(24VAC PCB power supply interface) Digital input adapter (2)/11	BRP7A53	BRP7A53	BRP7A51	BRP7A51	BRP7A51		
	Installation box / Mounting plate for adapter PCBs							
	(For units where there is no space in the switchbox)	KRP1H98 (7)	KRP1A101	KRP1C96	KRP1C96	KRP1C96		
	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4		
	K.RSS External wireless temperature sensor	→	•	•	•	•		
	External wireless temperature sensor Connector for forced-off contact	Standard	Standard	Standard	Standard	Standard		
_	Multi zoning kit	J.u	5101.55.2	Sturiac. 1	J			
	Drain pump kit	Standard	Standard	Standard	Standard	Standard		
-	· ·	KDDQ55B140-1 +	KDDQ44XA60					
F	Fresh air intake kit	1/D D O == D1 + 0 0 /= 1/m	NDD Q	(
	Fresh air intake kit Air discharge adapter for round duct	KDDQ55B140-2 (7)(8)			+	+		

⁽¹⁾ pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140D7WIW 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 BYCQ140D7WIW 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 BYCQ140D7GWI the controller BRC1E is needed
(6) The BYCQ140DGWI is not compatible with Multi and Split Non-Inverter Outdoor units
(7) Option not available in combination with BYCQ140D7GWI
(8) Roth parts of the fresh air intake are needed for each unit

⁽⁷⁾ Option not available in combination with BYCQ140D7GWI
(8) Both parts of the fresh air intake are needed for each unit
(9) Sensing function not available
(10) Independently controllable flaps function not available
(11) Only possible in combination with BRCIH* / BRCI/2/3E*
(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 harnass EKEWTSC is necessary

				Concealed ceiling units (duct units)							
Corner (1-		Small	Slim	EVCO CT TO C		dard	EVCO 102 1221				
XKQ 25~40MA	FXKQ 63MA	FXDQ 20~25 M9	FXDQ 15~63A	FXSQ 15~32A	FXSQ 40~50A	FXSQ 63~80A	FXSQ 100~125A	FXSQ 140A			
BYK45F	BYK71F										
B1 K43F	DIN/IF										
BRC4C61	BRC4C61	BRC4C62	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65			
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KRP4A51	KRP4A51	KRP4A51	KRP4A54	KRP4A52(2)	KRP4A52(2)	KRP4A52(2)	KRP4A52(2)	KRP4A52(2)			
KRP1B61	KRP1B61	EKRP1B2	KRP1B56	EKRP1B2(2)	EKRP1B2(2)	EKRP1B2(2)	EKRP1B2(2)	EKRP1B2(2)			
KRP2A51	KRP2A51	KRP2A51	KRP2A53	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)			
DTA104A61	DTA104A61	DTA104A61	DTA104A53	DTA104A61	DTA104A61	DTA104A61	DTA104A61	DTA104A61			
		EKMTAC	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61			
BRP7A51	BRP7A51	BRP7A54	BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A51	BRP7A51			
			KRP1B101	KRP1BA101/	KRP1BA101/	KRP1BA101/	KRP1BA101/	KRP1BA101/			
KRCS01-1	KRCS01-1	KRCS01-1	KRCS01-4	KRP1B100	KRP1B100	KRP1B100	KRP1B100	KRCS01-4			
				KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4			
•	·	·	•	6. 1.1	6. 1.1	•	6	·			
Standard	Standard	Standard		Standard	Standard	Standard	Standard	Standard			
Standard	Standard	KDAJ25K56	Standard	Standard	Standard	Standard	Standard	Standard			
				KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A				
				NONI ZUNUM	NONI ZONOUN	NOMI ZUM/ IM	NOM ZONIHUM				

		Conceale	ed ceiling units (d	uct units)		Ceilin	g suspended unit
		High ef	ficiency	Large		1-way blow	-
		FXMQ 50~80	FXMQ 100~125	FXMQ 200~250	FXHQ 32A	FXHQ 63A	FXHQ 71~100A
	Decoration panel						
- 1-	(obligatory for cassette units, optional for others, rear panel for FXLQ)						
- 1-	Panel spacer for reducing required installation height						
- 1-	Sealing kit for 3- or 2-directional air discharge						
-	Sensor kit						
ms	Infrared remote control including receiver	BRC4C65	BRC4C65	BRC4C65	BRC7G53	BRC7G53	BRC7G53
	BRC1H51W (White) / BRC1H51S (Silver) / BRC1H51K (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•
	BRC1D52 (4) Standard wired remote control with weekly timer	•	•	•	•	•	•
L	BRC2E52C Simplified remote control (with operation mode button)	•	•	•	•	•	•
ļ	BRC3E52C Simplified remote control (without operation mode button)	•	•	•	•	•	•
L	DCC601A51 Intelligent Tablet Controller	•	•	•	•	•	•
L	DCS601CS1 (12) intelligent Touch Controller	•	•	•	•	•	•
L	DCS201851 (12) Central remote control DCS201851 (12) (12)	•	•	•	•	•	•
L	DCS301B51 (12) (13) Unified ON/OFF control	•	•	•	•	•	•
L	DST301B51 (12) Schedule timer	•	•	•	•	•	•
L	DCM601A51 Intelligent Touch Manager	•	•	•	•	•	•
L	EKMBDXA DIll-net modbus interface	•	•	•	•	•	•
ŀ	KLIC-DI KNX interface	•	•	•	•	•	•
L	DMS502A51 BACnet interface	•	•	•	•	•	•
	DMS504B51 LowWorks interface	•	•	•	•	•	•
-	Replacement long life filter, non-woven type				KAFP501A56	KAFP501A80	KAFP501A160
	Auto cleaning filter						
	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140 $\!\Omega$	KRP4A51	KRP4A51	KRP4A51	KRP4A52	KRP4A52	KRP4A52
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)				KRP1B54	KRP1B54	KRP1B54
L	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1B2	EKRP1B2	KRP1B61			
- 1-	Adapter for wiring (interlock for fresh air intake fan)						
	Wiring adapter for external central monitoring/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51	KRP2A62	KRP2A62	KRP2A62
- 1-	External control adapter for outdoor unit (installation on indoor unit)	DTA104A61	DTA104A61	DTA104A61	DTA104A62	DTA104A62	DTA104A62
1	Adapter for multi-tenant applications			2.7110-77101	2.,110-1/102	27/10-1/102	517110-17102
ļ	(24VAC PCB power supply interface)	DTA114A61	DTA114A61				
- 1-	Digital input adapter (2) / (11)	BRP7A51	BRP7A51	BRP7A51	BRP7A52	BRP7A52	BRP7A52
ŀ	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP4A96	KRP4A96		KRP1D93A	KRP1D93A	KRP1D93A
- 1-	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4
	K.RSS External wireless temperature sensor	•	•	•	•	•	•
Н	Connector for forced-off contact	Standard	Standard	Standard	EKRORO4	EKRORO4	EKRORO4
+	Multi zoning kit	Staridard	Standard	Standard	25110-1	20110-1	201104
- 1-	Drain pump kit	Standard	Standard		KDU50P60	KDU50P140	KDU50P140
- 1-	Fresh air intake kit				KDDQ50A140	KDDQ50A140	KDDQ50A140
- 1	Air discharge adapter for round duct	KDAJ25K71	KDAJ25K140				
- 1	L-type piping kit (for upward direction)				KHFP5M35	KHFP5N63	KHFP5N160

⁽¹⁾ pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140D7W1W has white insulation. Be informed that formation of dirt on white insulation is

⁽³⁾ The BYCQ140D/WIW 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 BYCQ140D/WIW 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 BYCQ140D/GWI the controller BRC1E is needed

(6) The BYCQ140D/GWI is not compatible with Multi and Split Non-Inverter Outdoor units

(7) Option not available in combination with BYCQ140D/GWI

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

⁽⁸⁾ Both parts of the fresh air intake are needed for each unit
(9) Sensing function not available
(10) Independently controllable flaps function not available
(11) Only possible in combination with BRC1H* / BRC1/Z/3E*
(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 harnass EKEWTSC is necessary

	Wall mounted units	Floor standing units							
4-way blow		Concealed		Free-standing					
FXUQ 71~100A	FXAQ 15~63	FXNQ 20~63	FXLQ 20~25	FXLQ 32~40	FXLQ 50~63				
			EKRDP25A	EKRDP40A	EKRDP63A				
KDBHP49B140 + KDBTP49B140									
BRC7C58	BRC7EA628	BRC4C65	BRC4C65	BRC4C65	BRC4C65				
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KAFP551K160									
KRP4A53 *2	KRP4A51(2)	KRP4A54	KRP4A51	KRP4A51	KRP4A51				
	KRP1B56	KRP1B56	KRP1B61	KRP1B61	KRP1B61				
	KRP2A51(2)	KRP2A53	KRP2A51	KRP2A51	KRP2A51				
	DTA104A61								
	DTA114A61	DTA114A61	EKMTAC	EKMTAC	EKMTAC				
BRP7A53		BRP7A51	BRP7A51	BRP7A51	BRP7A51				
KRP1B97	KRP4A93								
KRCS01-4	KRCS01-1	KRSC01-4	KRCS01-1	KRCS01-1	KRCS01-1				
•	• (14)	•	•	•	•				
EKRORO5	Standard	Standard	Standard	Standard	Standard				

	HXY080-125A8	HXHD125-200A8
Drain pan	EKHBDPCA2	-
Digital I/O PCB	EKRP1HBAA	-
Demand PCB - Required to connect room thermostat	EKRP1AHTA	-
Remote user interface (remocon) - Same controller as supplied with cascade unit		
can be mounted parallel or on other location. If 2 controllers are installed, the	EKRUAHTB	-
installer needs to select 1 master & 1 slave		
Back-up heater	EKBUHAA6(W1/V3)	-
Wired room thermostat - Requires demand PCB EKRP1AHTA	EKRTWA	-
Wireless room thermostat - Requires demand PCB EKRP1AHTA	EKRTR1	-
Remote sensor for room thermostat - Requires demand PCB EKRP1AHTA	EKRTETS	-
Domestic hot water tank - standard		EKHTS200AC
(stacked on top of hydrobox)	-	EKHTS260AC
Domestic hot water tank - with possibility for solar connection	-	EKHWP500B
Solar collector *1	-	EKSV26P (vertical) EKSH26P (horizontal)
Pump station	-	EKSRPS

BF DO CO	RC1E53A/B/C (3)(4)(5) - Premium wired remote control with full-text interface and back-light BRC073 (9) - Wired remote control (cord for wired emote control required) BRC2E52C - Simplified remote control (with operation mode selector button) BRC3E52C - Simplified remote control without operation mode selector button) BRC3E52C - Simplified remote control without operation mode selector button) BRC3E52C - Simplified remote control without operation mode selector button) BRC3E52C - Simplified remote control without operation mode selector button) BRC3E52C - Simplified remote control use BRC4C65 - Infrared remote control operation by using the adapter KRP928* Online controller DCS302C51 - Central remote control operation of the properties of th	FDXM-F3 • (10)	FTXG-LW/S BRP069A41	© BRP069A43 (CTXS15-35, FTXS20-25) BRP069A42 (FTXS35-50)	FVXG-K • BRP069A42	FVXS-F BRP069A42	FLXS-B(9) BRP069A42
BF DO CC	with full-text interface and back-light BRC073 (9) - Wired remote control (cord for wired emote control required) BRC2E52C - Simplified remote control (with operation mode selector button) BRC3E52C - Simplified remote control (without operation mode selector button) BRC3E52C - Simplified remote control (without operation mode selector button) BRC3A61 - Remote control for hotel use BRC4C65 - Infrared remote control CCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Conline controller CCS302C51 - Central remote control CCS301B51 - Unified ON/OFF control CCS301B51 - Unified ON/OFF control CCCM601A5A - Intelligent Touch Manager	• (10)	BRP069A41	BRP069A43 (CTXS15-35, FTXS20-25) BRP069A42 (FTXS35-50)	•	•	•
BF DC CC	emote control required) BRC2E52C - Simplified remote control (with operation mode selector button) BRC3E52C - Simplified remote control (without operation mode selector button) BRC3E52C - Simplified remote control (without operation mode selector button) BRC3A61 - Remote control for hotel use BRC4C65 - Infrared remote control DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Dolline controller DCS302C51 - Central remote control DCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager	• (10)	BRP069A41	BRP069A43 (CTXS15-35, FTXS20-25) BRP069A42 (FTXS35-50)	•	•	•
DO D	BRC2E52C - Simplified remote control (with operation mode selector button) BRC3E52C - Simplified remote control (without operation mode selector button) BRC3E52C - Simplified remote control (without operation mode selector button) BRC3A61 - Remote control for hotel use BRC4C65 - Infrared remote control DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Donline controller DCC302C51 - Central remote control DCS301B51 - Unified ON/OFF control DCS301B51 - Schedule timer DCM601A5A - Intelligent Touch Manager	• (10)	•	FTXS20-25) BRP069A42 (FTXS35-50)			
DO D	BRC3E52C - Simplified remote control (without operation mode selector button) BRC3A61 - Remote control for hotel use BRC4C65 - Infrared remote control DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Online controller DCC302C51 - Central remote control DCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager	• (10)	•	FTXS20-25) BRP069A42 (FTXS35-50)			
DO D	peration mode selector button) BRC3A61 - Remote control for hotel use BRC4C65 - Infrared remote control DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Dnline controller DCS302C51 - Central remote control DCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager		•	FTXS20-25) BRP069A42 (FTXS35-50)			
DO D	BRC4C65 - Infrared remote control DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Online controller DCS302C51 - Central remote control DCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager		•	FTXS20-25) BRP069A42 (FTXS35-50)			
systems On	DCC601A51 - Centralised controller with cloud connection by using the adapter KRP928* Online controller DCS302C51 - Central remote control DCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager		•	FTXS20-25) BRP069A42 (FTXS35-50)			
D0 D0 D0	CONNECTION by using the adapter KRP928* Online controller OCS302C51 - Central remote control OCS301B51 - Unified ON/OFF control OST301BA51 - Schedule timer OCM601A5A - Intelligent Touch Manager	•	•	FTXS20-25) BRP069A42 (FTXS35-50)			
D:	DCS302C51 - Central remote control DCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager	•	•	FTXS20-25) BRP069A42 (FTXS35-50)	BRP069A42	BRP069A42	BRP069A42
D:	OCS301B51 - Unified ON/OFF control DST301BA51 - Schedule timer DCM601A5A - Intelligent Touch Manager	•		•			
D:	OST301BA51 - Schedule timer OCM601A5A - Intelligent Touch Manager	•	•				
	DCM601A5A - Intelligent Touch Manager	•		•			
			•	•			
E a Do			•	•	•	•	•
stem & Standard otocol interface	KMBDXA - Modbus interface						
° € 5 RT	RTD-RA (9) - Modbus gateway		•	•	•	•	•
Syste Prot	(LIC-DD (9) - KNX Interface		•	•	•	•	•
ВГ	BRP7A54 (7)(8) - Adapter PCB for interlock (key card,)	•					
BF	BRP069A45 - WIFI adapter fro smart phone						
KF	(RP1B56 - Adapter for wiring	•					
Ek	EKRP1B2 (6) - Adapter for wiring (hour meter)						
	(RP413A1S (9) - Adapter for wiring normal open contact/normal open pulse contact (time clock and other devices to be purchased locally)		•	•	•	•	•
	KRP4A54 - Adapter for external ON/OFF and monitoring or electrical appendices	•					
KF	(RP2A53 - Wiring adapter for electrical appendices	•					
	nstallation box for adapter PCBs (when there is no pace in the switchbox)	KRP1BA101					
KF	(RP980A1 - Interface adapter for wired remote control			class 15-20-25			
KF	(RP928A 2S (9) - Interface adapter for DIII-net		•	•	•	•	•
D	DTA114A61 - Multi tenant	•					
KF	(RCS01-4 - External wired temperature sensor						
KE	KEK26-1A - Noise filter (for electromagnetic use only)	•					
Aı	Anti-theft protection for remote control		KKF910A4	KKF910A4	KKF910A4		
KF	(RCS01-4B - External wired temperature sensor	•					
	BRCW901A03 - Cord for wired remote control - 3m		•	•	•	•	•
	BRCW901A08 - Cord for wired remote control - 8m		•	•	•	•	•
<u> </u>	BKS028 - Installation leg				•		
KL	KDT25N32/KDT25N50/KDT25N63 - Installation kit for high humidity	•			<u> </u>		
K.	CJB212A - Electrical box with earth terminal (2 blocks)	•					

⁽¹⁾ Can be used only in combination with KRP980A1

⁽²⁾ WLAN installation kit include interface adapter PCB

⁽³⁾ BRC1E53A: included languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Portuguese, Polish, Control of C

 $^{(4) \,}BRC1E53B: included \, languages: English, German, Czech, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian, Czech, Hungarian, Slovak, Serbian, Albanian, Slovak, Serbian, Serbian, Slovak, Serbian, Serbian$

⁽⁵⁾ BRC1E53C: included languages

⁽⁶⁾ In stall at ion box for a dapter PCB is necessary. Hour meter is field supply and should not be installed inside the equipment.

⁽⁷⁾ Installation box for adapter PCB is necessary. They require mounting plate KRP4A96, maximmaly 2 optional PCBs can be mounted.

⁽⁸⁾ Only in combination with simplified remote control BRC2E52C or BRC3E52C.

 $^{(9) \} Wiring \ adapter \ supplied \ by \ Daikin. \ Time \ clock \ and \ other \ devices: to \ be \ purchased \ locally.$

⁽¹⁰⁾ Standard there is no remote control delivered with this indoor unit. Wired or infrared control to be ordered separately.

⁽¹¹⁾ Standard delivered with the unit.

ption	ns - Stylish indoor						
	INDOOR UNITS	FCAHG-G FCAG-A	FFA-A	FDBQ-B	FBA-A	FDA-A	FHA-A
	Decoration panel (obligatory for cassette units, optional for others)	BYCQ140D (standard) BYCQ140DW (white)(1) BYCQ140DG9/ BYCQ140DGF9 (auto-cleaning)(2)(4)	BYFQ60CW (white) BYFQ60CS (silver) BYFQ60B3 (standard)			BYBS125D + EKBYBSD	
Panels	Panel spacer for reducing required installation height		KDBQ44B60 (only for standard panel)				
	Sealing kit for 3- or 2-directional air discharge	KDBHQ55B140 (11)	BDBHQ44C60				
	Sensor kit	BRYQ140A	BRYQ60AW (white) (9) BRYQ60AS (silver)(9)				
	BRP069A81 - Online Controller	•	•		•	•	•
stems	Infrared remote control (incl. receiver)	BRC7FA532F (11)	BRC7EB530W for standard panel (5)(6) BRC7F530W for white panel (5)(6) BRC7F530S - for silver panel (5)(6)		BRC4C65	BRC4C65	BRC7G53
Individual control systems	BRC1H51(9)W (9) (White) / BRC1H51S (9) (Silver) / BRC1H51K (9) (Black) User-friendly wired remote controller with premium design	•	•	•	•	•	•
5	BRC1E53A/B/C (3) (13) - Wired remote control with full-text interface and back-light	•	•	•	•	•	•
dua	BRC1D52 (13) - Standard wired remote control with weekly timer	•	•	•	•	•	•
iv iv	BRC2E52C (3) (13) - Simplified remote control (with operation mode selector button)	•	•	•	•	•	•
	BRC3E52C (3) (13) - Simplified remote control (without operation mode selector button)	•	•	•	•	•	•
	ARCWB - Wired remote controller DIII-net connection - for connection to centralized control	standard	standard		standard	standard	standard
Centralised control systems	DCC601A51 - Intelligent tablet controller	• Standard	•	•	Standard	•	• Standard
ē S	DCS601C51 (13) - Intelligent touch controller	•	•	•	•	•	•
ised	DCS302C51 (13) - Central remote control	•	•	•	•	•	•
sy fra	DCS301B51 (13) - Unified ON/OFF control	•	•	•	•	•	•
Ge	DST301B51 (13) - Schedule timer	•	•	•	•	•	•
	NIM03 - R04084124324 - Option PCB for group control DCM601A51 - Intelligent Touch Manager	•	•	•	•	•	
face	RTD-NET - Modbus interface for monitoring and control	•	•	•	•	•	•
Building Management System & Standard protocol interface	RTD-10 - Modbus interface for infrastructure cooling	•	•	•	•	•	•
	RTD-20 - Modbus interface for retail	•	•	•	•	•	•
	RTD-HO - Modbus interface for hotel	•	•	•	•	•	•
	EKMBDXA - Modbus interface	•	•	•	•	•	•
	KLIC-DI - KNX Interface	•	•	•	•	•	•
ii k	DCM010A51 - Daikin PMS interface	•	•	•	•	•	•
S SE	DMS502A51 - BACnet Interface	•	•	•	•	•	•
Filters	DMS504B51 - LonWorks Interface Replacement long-life filter, non-woven type	KAFP551K160	KAFQ441BA60	•	•	•	KAFP501A56 (35- KAFP501A80 (60- KAFP501A60
☶	Auto cleaning filter	see deco panel					(100-140)
	Wiring adapter for external monitoring/control via dry	KRP4A53 (10)(11)	KRP4A53 (10)		KRP4A52 (10)		KRP4A52 (10)
	contacts and setpoint control via 0-140 Ω Wiring adapter with 2 output signals (compressor/ Error, Fan output)	KRP1B57 (10)(11)	KRP1B57 (10)				
	Wiring adapter for external central monitoring/control (controls 1 entire system)				KRP2A51 (7)(10)	KRP2A51 (8)	
	Adapter for wiring (interlock for fresh air intake fan)				KRP1B54	KRP1C64 (7)	KRP1B54 (10)
-	Wiring adapter with 4 output signals (compressor / Error, Fan, Aux, heater, Humidifier output)	EKRP1C11 (10)(11)	EKRP1B2	EKRP1B2	EKRP1B2 (7)	EKRP1B2 (7)	
Adapter	Adapter for keycard or window contact connection (in combination with BRC1H*, BRC1/2/3E* only)	BRP7A53	BRP7A53	BRP7A53	BRP7A51 (12)	BRP7A54 (12)	BRP7A52 (10)
∢	Installation box/Mounting plate for adapter PCBs (when there is no space in the switchbox, an installation box is required)	KRP1H98 (11)	KRP1B101/ KRP1BA101		KRP1B101/ KRP1BA101	KRP4A96	KRP1D93A [box KKSAP50A56 (35-50) [mountin plate)
	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4
	K.RSS - External wireless temperature sensor	•	•	•	•	•	•
	Remote ON/OFF, forced OFF kit	standard	standard	standard	standard	EKRORO3	-
	DTA112B51 - Interface adapter for Sky Air					•	KDU50P60 (35 - 6
	Drain pump kit						KDU50P140 (71 - 1
Others	Multi zoning kit (for detailed model code overview refer to multizoning argue card in this catalogue)				2 dampers (35 - 50) 3 dampers (35 - 50) 4 dampers (35 - 71) 5 dampers (60 - 140) 6 dampers (60 - 140) 7 dampers (100 - 140) 8 dampers (100 - 140)		
0	L-type piping kit (upward direction)				,		KHFP5MA35 (35 KHFP5N63 (50-6 KHFPN5N160 (71-140)
	Fresh air intake kit (direct installation type)	KDDQ55B140-1 + KDDQ55B140-2 (11)	KDDQ44XA60				KDDQ50A140
	Air discharge adapter for round duct	,			KDAP25A56A (35-50) KDAP25A71A (60-71) KDAP25A140A [100-140)	KDAJ25K140A	

- (1) Dirt formation is more easily visible on white insulation. It is recommended not to install this option in environments with a high concentration of dirt.
- (2) To be able to control option BYCQ140DG(F)9, controller BRC1H*, BRC1E* is needed. These options cannot be combined with RXYSQ*, multi or non-inverter split units
- (3) Included languages are:
 - A: English, German, French, Dutch, Spanish, Italian and Portuguese B: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian C: English, Greek, Polish, Russian, Albanian, Slovak and Turkish (in case of BRC2/3E52C
 - Serbian is available instead of Albanian)
 For BRC2/3E52C use PC cable EKPCCAB3 in combination with the updater PC software to change to language pack B or C
- (4) The option is intended exclusively for use in fine dust enviornments (e.g. Clothing shops).

 Do not use it in environments that are greasy or have high humidity.
- (5) Sensing function is not available
- (6) Individual flap control function not available
- (7) If installing an electrical heater, an option PCB for external electrical heater (EKRP1B2) for each indoor unit is required. These options require mounting plate KRP4A96. Electrical heaters and humidifiers are field-supplied. Do not install them inside the equipment.
- (8) Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.
- (9) This option cannot be used with RR and RQ models
- (10) Requires installation box for adapter PCB, refer to table for model code
- (11) This option cannot be combined with BYCQ140DG(F)9
- (12) Maximum 2 optional PCBs can be mounted
- (13) Applicable boxes (KJB*) to mount controllers can be found in the controls option list

Options & accessories - Ventilation & hot water

		Heat reclaim ventilation - VAM					Heat reclaim ventilation VKM									
		VAM 150FC	VAM 250FC	VAM 350J	VAM 500J	VAM 650J	VAM 800J	VAM 1000J	VAM 1500J	VAM 2000J	VKM 50GB (M)	VKM 80GB (M)	VKM 100GB (M)	EKEQ FCBA (1)	EKEQ DCB (1)	EKEC MCB. (1)
<u>~</u>	BRC301B61			_												
E	VAM wired remote control	•	•	•	•	•	•	•	•	•						
Indiviual control systems	BRC1H51W (Glossy white) / BRC1H51S (Silver Metallic) /															
<u> </u>	BRC1H51K (Black matte)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Ě	User-friendly wired remote controller with premium design															
ē	BRC1E53A/B/C															
<u> </u>	Wired remote control with full-text	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ĭ <u>₹</u>	interface and back-light															
ᅙ	BRC1D52															
	Standard wired remote control with weekly timer	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•
	DCC601A51															
-	intelligent Tablet Controller	•	•	_	•	•	•	•	•	•	•	•	•	_	•	•
ţ	DCS601C51															
5 2	intelligent Touch Controller	•	•	•	•	•	•	•	•	•	•	•	•	_	•	•
en ed	DCS302C51															
Centralised control systems	Central remote control	•	•	•	•	•	•	•	_	•	•	•	•			
tra s	DCS301B51															
둳	Unified ON/OFF control	•	•	•	•	•	•	•	•	•	•	•	•			
•	DST301B51															
	Schedule timer	_	_	_		_	_	_		•	_	_	_			
Building Management System & Standard protocol interface	DCM601A5A													•		
	Intelligent Touch Manager	•	_	•	•	•	•		•		•		•		_	_
	EKMBDXA Modbus interface	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Building gement Sy ndard proi	DMS502A51 BACnet Interface	•	•	•	•	•	•	•	•	•	•	•	•			
ina Sta	DMS504B51															
8 8	LonWorks Interface	•	•	•	•	•	•	•	•	•	•	•	•			
	EN779 Medium M6			EKAFVJ50F6	EKAFVJ50F6	EKAFVJ65F6	EKAFVJ100F6	EKAFVJ100F6	EKAFVJ100Fe	6 EKAFVJ100F6 x2						
Filters	EN779 Fine F7			EKAFVJ50F7	EKAFVJ50F7	EKAFVJ65F7	EKAFVJ100F7	7 EKAFVJ100F7	EKAFVJ100F.	7 EKAFVJ100F7 x2						
证	EN779 Fine F8			FKAFVI50F8	FKAFVI50F8	EKAFVJ65F8	FKAFV1100F8	R FKAFVI100F8	EKAFVJ100F	8 EKAFVJ100F8						
									x2	x2						
Separate p	plenum								EKPLEN200 (6)	EKPLEN200 (6)						
CO ₂ sensor	•			BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200	BRYMA65	BRYMA100	BRYMA200			
Electrical h	heater	VH1B	VH2B	VH3B	VH3B	VH4B/ VH4/AB	VH4B/ VH4/AB	VH4B/ VH4/AB	VH5B(7)	VH5B(7)						
	Wiring adapter for external monitroing/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51(2)	KRP2A51 (2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
Ń	Adapter PCB for humidifier	KRP50-2	KRP50-2	KRP1C4 (5)	KRP1C4 (5)	KRP1C4 (3/5)	KRP1C4 (5)	KRP1C4 (5)	KRP1C4 (3/5)	KRP1C4 (3/5)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
Others	Adapter PCB for third party heater	BRP4A50	BRP4A50	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (3/4)	BRP4A50A (3/4)	BRP4A50A (4)	BRP4A50A (4)	BRP4A50A (4)			
_	External wired temperature sensor														KRCS01-1	

Notes

 $⁽¹⁾ Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, \dots; (intelligent Touch Manager, EKMBDXA are allowed) \\$

⁽²⁾ Installation box KRP1BA101 needed

⁽³⁾ Adapter PCB mounting plate needed, applicable model can be found in the table above $\,$

^{(4) 3}rd 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

Intelligent Tablet Controller - DCC601A51

		intelligent Controller					
		Options for local control	Cloud options	Software			
Zenpad 8" Tablet for local control	Z380M	•	-	-			
Router		•	-	_			
Online control - for remote montoring and control	DCC001A51	-	•	-			
App for local control – Application to run on Z380M table (download from Play store, Android only)	t	-	-	•			
Commissioning tool		-	-	•			
Software update tool		-	-	•			

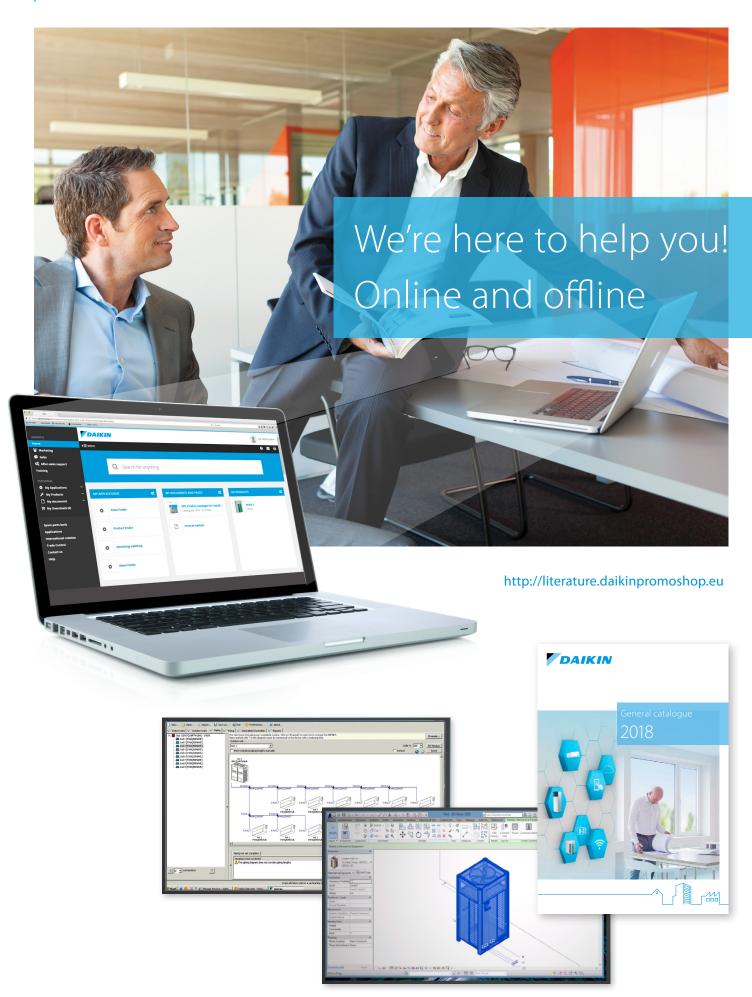
Intelligent Touch Manager

		Intelligent Manager
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

Standard protocol interfaces

		BACnet Interface
DIII-net expansion board (2 ports), connects up to 128 additional indoor units	DAM411B51	•
Digital pulse inputs (12) for PPD functionality	DAM412B51	•





Tools and platforms

Literature overview	206
Supporting tools, software and apps	208
30 years of history	212
Research & development	214

Commercial market - literature overview

for professional network

Solution guides:

Reference books:



Product profiles:



VRV IV range Detailed VRV IV standards and technologies benefits. Main features and specs of VRV IV product range

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VRV IV i-series Main benefits, application examples and specs of VRV IV i-series product range



VRV IV S-series Main benefits, application examples and specs of VRV IV S-series product range



A-series Main benefits and specs



Water-to-air heat pump Detailed info on VRV IV W-series, application examples, technical system design background

Focus topics:



Replacement **Technology** Clear installer benefits of VRV replacement technology



Infrastructure cooling Clear installer benefits why to choose Daikin for infrastructure cooling

Product flyers:



Wired Remote Control Detailed info on BRC1E52A/B remote control

RTD modbus interface Detailed info on RTD controls and applications

Product catalogues:



Sky Air Catalogue Detailed technical information & benefits on Sky Air/Ventilation/ Biddle Air Curtain/Control systems/AHU



VRV Catalogue Detailed technical information & benefits of the VRV total solution

200



Ventilation Catalogue Detailed info on Ventilation products

203

for your customers



Commercial Solutions

Daikin offers solutions for commercial applications

100

Reference catalogue

Daikin commercial and industrial references

213

Green Builing Solutions

Clear building owner/investor benefits why to choose Daikin for a green building, with emphasis on BREEAM



Hotel Solutions

Clear building owner/investor benefits why to choose Daikin for a hotel

218



Intelligent Touch Manager Detailed benefits of

Intelligent Touch Manager

302



DCC601A51

Detailed benefits of DCC601A51 and Daikin Cloud Service

303



Replacement technology

Clear building owner/investor benefits of replacement technology



Sky Air product leaflets

Single page leaflet with the main benefits and technical specifications of each individual Sky Air unit. Ideal for quotations



VRV product leaflets

Single page leaflet with the main benefits and technical specifications of each individual VRV unit. Ideal for quotations



All latest Daikin catalogues are available in a convenient library on the internet: www.daikineurope.com/support-and-manuals/catalogues



Supporting tools, software and apps

www.daikineurope.com/ support-and-manuals/ software-downloads

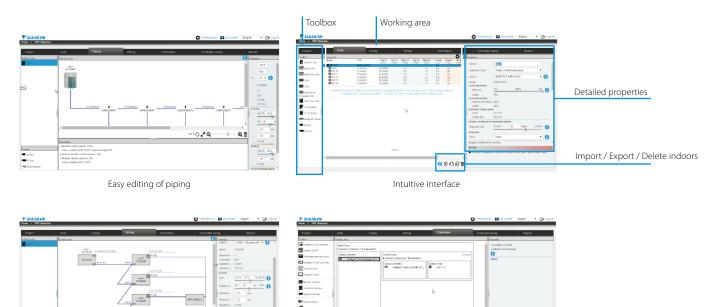
New web based Xpress selection software

Making selection easy, anythime, 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



Main functions



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.

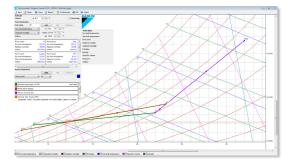
- > Accurate heat load calculation
- > Precize selection based on peak loads
- > Energy consumption indication



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 NEW 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 **NEW**

The WAGO Selection Tool is specifically designed to select the optimal WAGO I/O system for your needs.

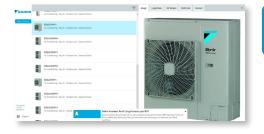
- > Easy selection of WAGO materials
- > Material list creation
- > Time saving
- Includes wiring schemes
- Contains commissioning/preset data for



Plugins and third-party software tools

Building Information Modelling (BIM) support

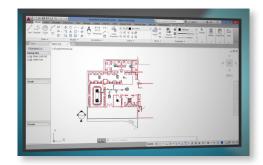
- > BIM improves efficiency of design and build phase
- Daikin is among the first to supply a full library of BIM objects for its VRV products



www.daikin.eu/ bim

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

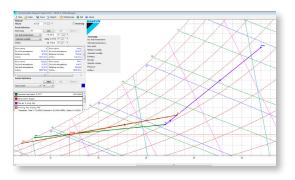
Seasonal simulator

- 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, CO₂ 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.



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**

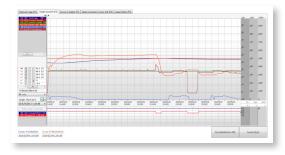
Monitoring of Split, Sky Air and VRV data via any bluetooth device

- > No need to access the outdoor unit
- Connects with D-Checker software (for laptops)
- Connects with monitoring app (for tablets or smartphones)

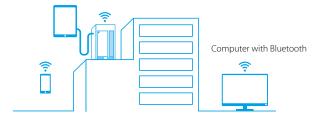
VRV Service-Checker

- Connected via F1/F2 bus to check multiple systems at the same time
- > Connection of external pressure sensors possible





Diagnosis of the Bluetooth system possible:



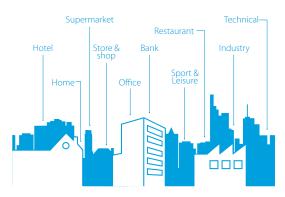
Online support

NEW Business portal

- > Experience our new extranet that thinks with you at 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

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

my.daikin.eu



Over 30 years of

VRV History









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

1998

Launch inverter series with R-407C

> Up to 16 indoor units connected to 1 outdoor unit

2004

Expand to light commercial sector with **VRVII-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

1991

Introduce VRV heat recovery

> Simultaneous cooling and heating

1994

Awarded ISO9001 certification

2003

R-407C

Introduce VRVII-- the first R-410A VRF system

Available in cooling, heat pump and heat recovery

> 40 units connected to single refrigerant circuit

2005

Extends VRVII inverter range with water cooled VRV-WIII

> Available in heat pump and heat recovery

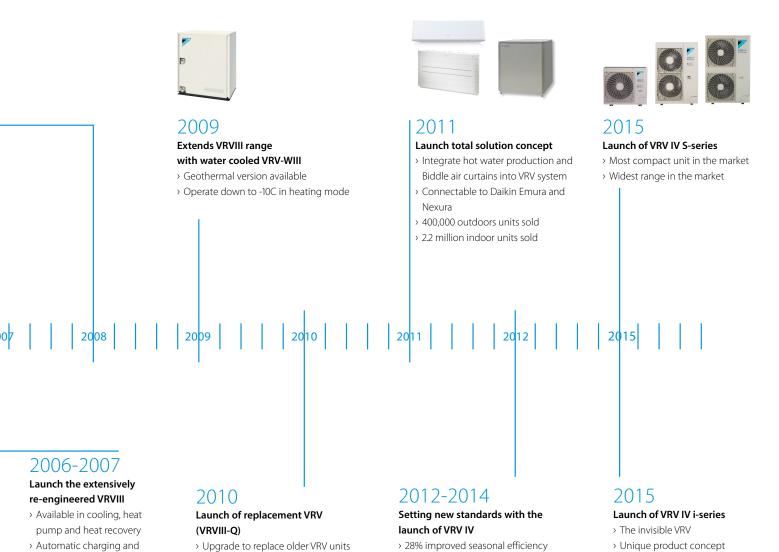












> Continuous heating on heat pumps

> Available in heat pump, heat

recovery, water-cooled and replacement series

testing

> Up to 64 units

connected to 1 system

using R-22 refrigerant



Research & development

Creating value through innovative technologies

R&D is essential for the creation of products that enrich people's lives. As symbolised by the VRV, Daikin is at the forefront of innovative technology and the development of market leading products: the result of our advanced R&D system.

Superior products from multi-part development approach

To create more advanced functions with added value, Daikin has set up the 'Environmental Technology Research Laboratory' and the 'Solution Product Development Center'. Working with the Product Development Group, the three divisions cooperate closely to ascertain and meet the customers' needs and to enable commercialisation of products incorporating advanced technology.

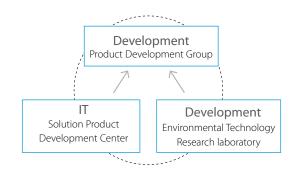
Intensive research on environmental impact

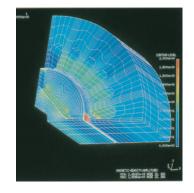
The diverse needs in different countries encountered during the accelerating globalisation of our air conditioning business have presented us with increased research challenges particularly in terms of environmental impact. To promote energy savings in and to lower the environmental impact of our air conditioners, we have developed technologies based on fundamental research into motor inverters and many other areas.

IT and air conditioners: the obvious solution

With advances in computerisation and networking, we have integrated IT into our air conditioners including communication technology and advanced software for total control.

Our new control systems enable users to develop comfortable environments with superior energy savings by networking air conditioners to enable them to exchange information with each other and with our service centres.



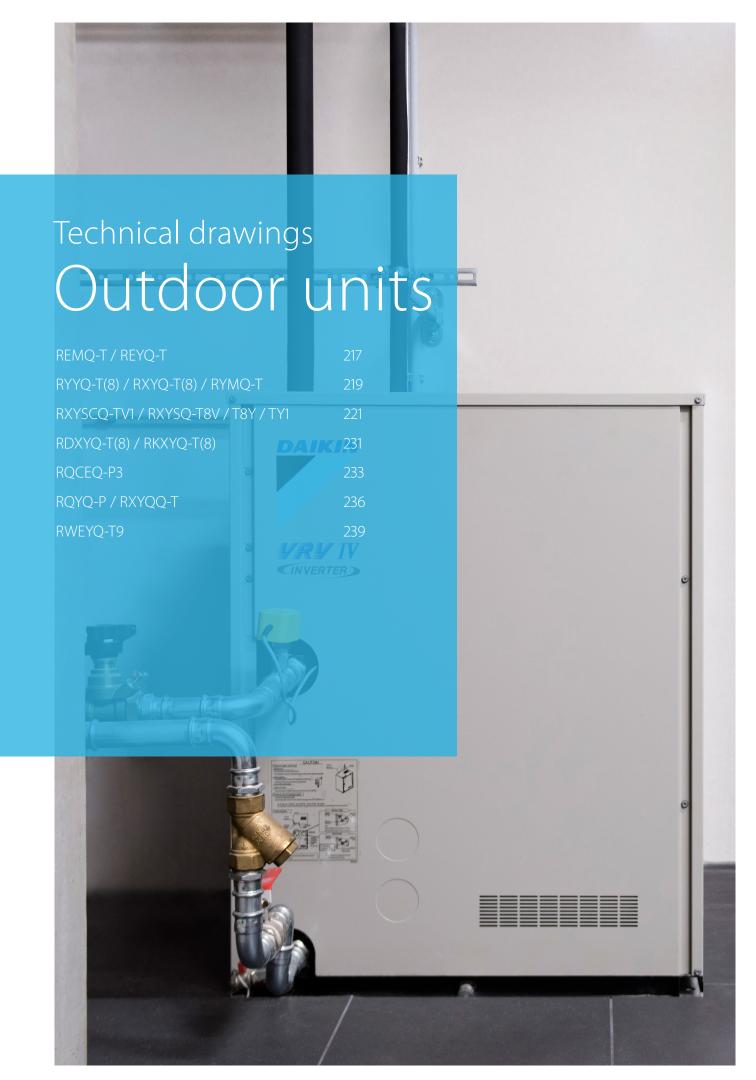






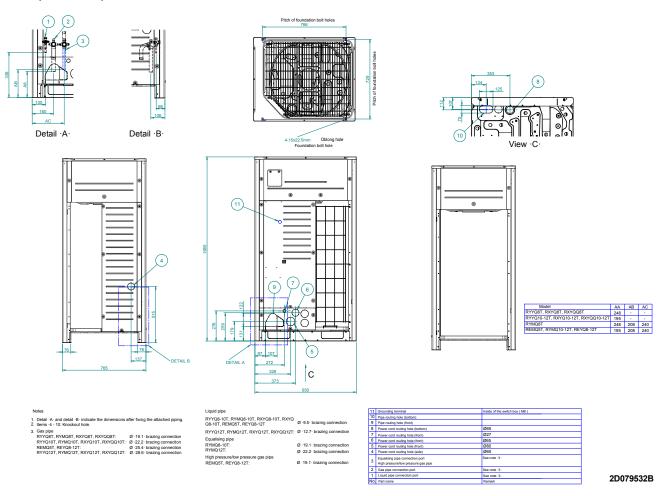
Technical drawings

Outdoor units	216
Indoor units	240
Hot water	286
Biddle air curtains	291
Ventilation	294

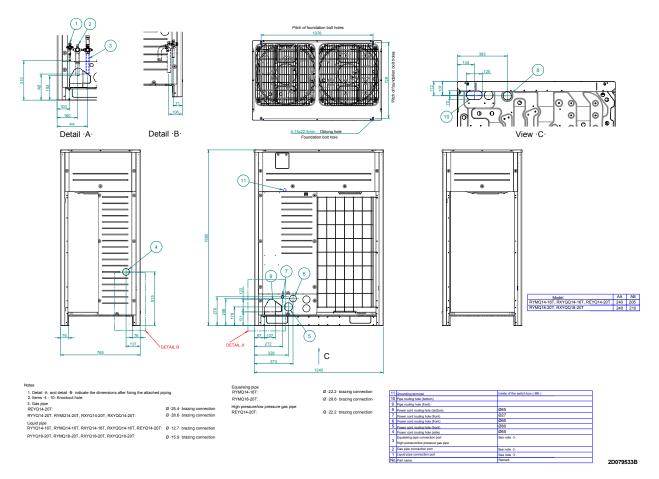




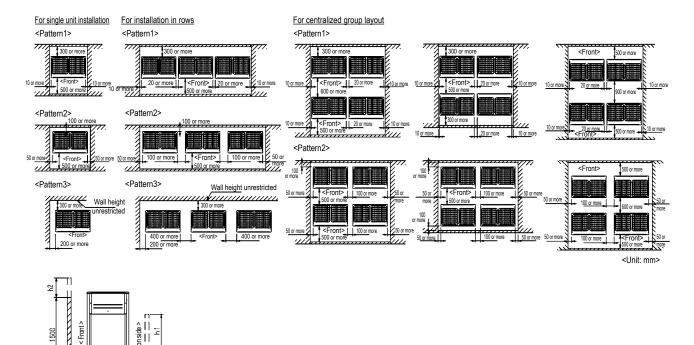
REMQ5T / REYQ8-12T



REYQ14-20T



REYQ-T



3D079542 NOTES

1. 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

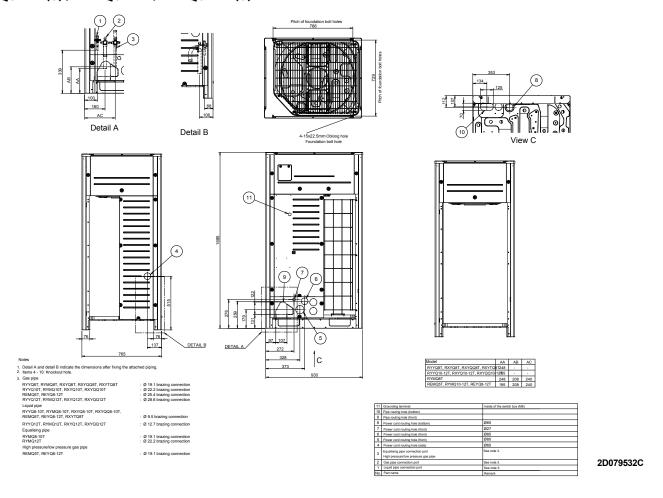
When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability of much generation load of heat in all outdoor unit,

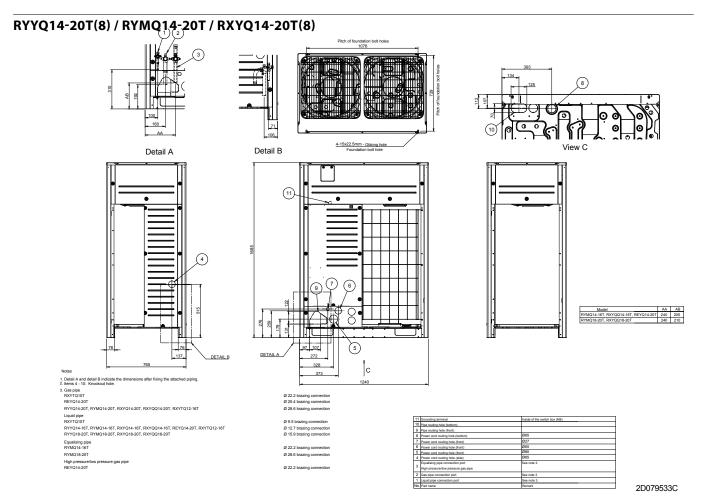
- take the suction side space more broadly than the space as shown on this drawing.

 2. 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 figure on the right.
- 3. 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.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



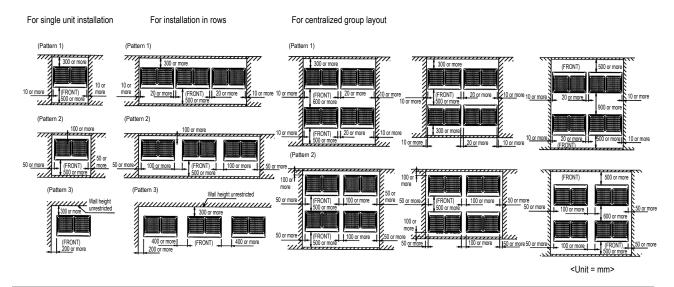
RYYQ8-12T(8) / RYMQ8-12T / RXYQ8-12T(8)





<Suction side>

RYYQ-T(8) / RXYQ-T(8)



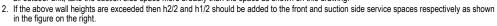
NOTES 3D079542

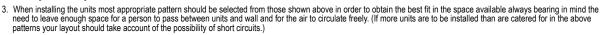
1. Heights of walls in case of patterns 1 and 2:

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.

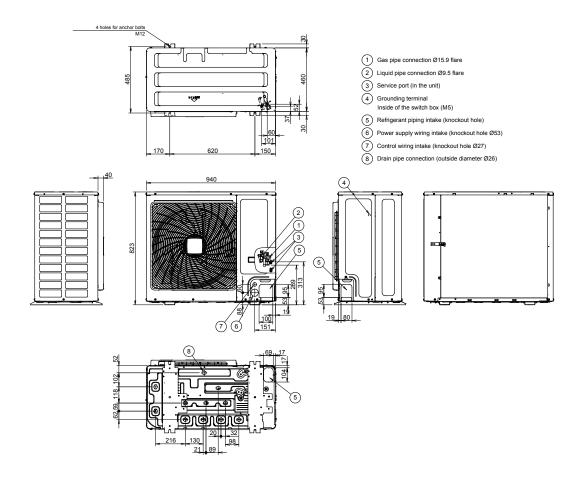




4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

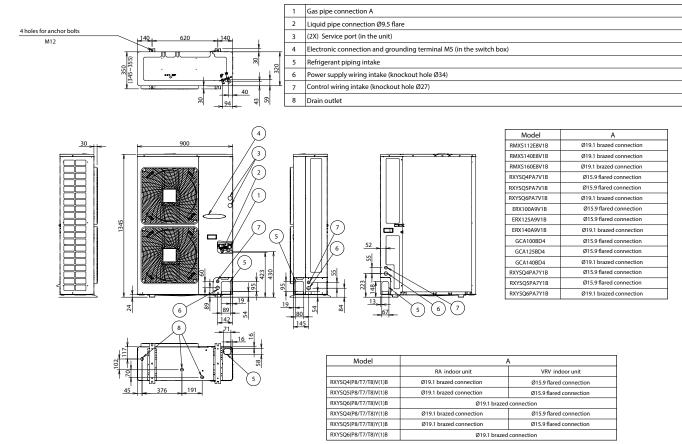


RXYSCQ-TV1



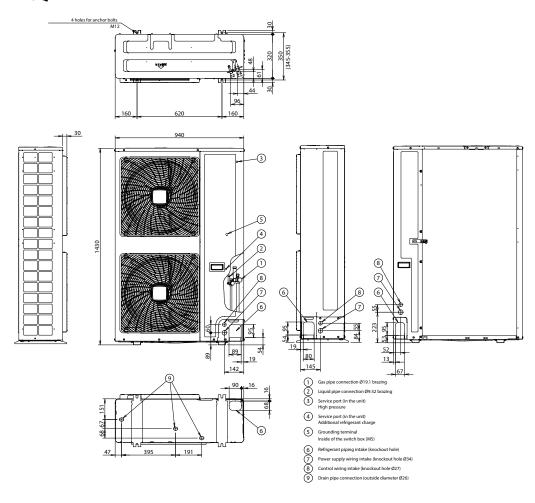
3D098107

RXYSQ-T8V/T8Y



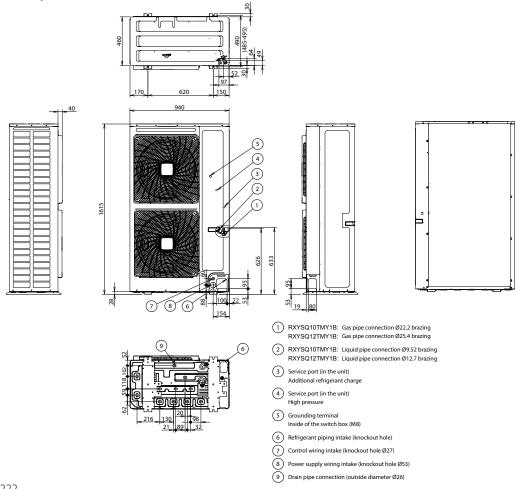
3TW303741E

RXYSQ-TY1



3D098108

RXYSQ10-12TY1





RXYSCQ-TV1

Required instalation space

The unit of values is mm.

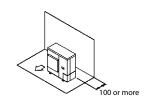
(A) When there are obstacles on suction sides

No obstacle above

① Stand-alone installation

Obstacle on the suction side only

Obstacle on both sides

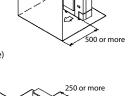


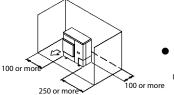
② Series installation (2 or more)

No obstacle above

1 Stand-alone installation

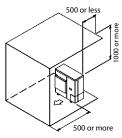
(B) When there are obstacles on discharge sides.





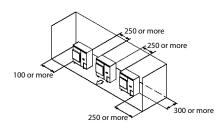
Obstacle above, too

① Stand-alone installation

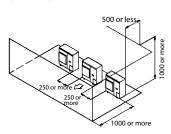


② Series installation (2 or more)

Obstacle on both sides



② Series installation (2 or more)



Obstacle above, too

sides

Stand-alone installationObstacle on the suction side, too

Obstacle on the suction side, and both

500 or less 500 or

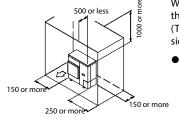
(C) When there are obstacles on both suction and discharge sides.

Pattern 1

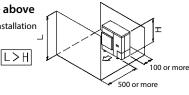
When the obstacles on the discharge side is higher than the unit.

(There is no height limit for obstructions on the intake

No obstacle above

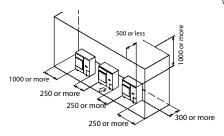


① Stand-alone installation

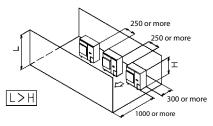


② Series installation (2 or more)

Obstacle on the suction side, and both sides



(2) Series installation (2 or more)



3D089310A

VIEW ALL RXYSCQ-TV1 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

RXYSCQ-TV1

Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows.

	L	A
I≤H	0 < L ≦ 1/2 H	750
Lan	1/2 H < L ≦ H	1000
H < L	Set the stand as: $L \le H$	

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.

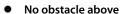
	Ĺ	A
L≤H	0 < L ≦ 1/2 H	1000
L = n	1/2 H < L ≦ H	1250
H < L	Set the stand as: L≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed. Only two units can be installed for this series.



When the obstacle on the discharge side is lower than the unit:

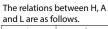
(There is no height limit for obstructions on the intake side.)



① Stand-alone installation



②Series installation (2 or more)



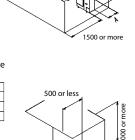


Obstacle above, too ①Stand-alone installation

The relations between H, A and L are as follows.

	L	A
< H	0 < L ≦ 1/2 H	100
Lan	1/2 H < L ≦ H	200
H <l< th=""><th colspan="2">Set the stand as: L ≦ H</th></l<>	Set the stand as: L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



500 or le

250 or more

300 or more

-100 or more

500 or more

250 or more

②Series installation

The relations between H. A and L are as follows.

	L	A
I≤H	0 < L ≦ 1/2 H	250
Lan	1/2 H < 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.

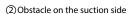
Only two units can be installed for

this series.

(D) Double-decker installation

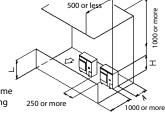
Obstacle on the discharge side Close the gap Z (the gap between the upper an lower outdoor units) to prevent the discharged air from being bypassed.

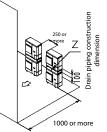
Don not stack more than two units.

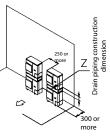


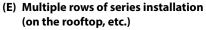
Close the gap Z (the gap between the upper an lower outdoor units) to prevent the discharged air from being

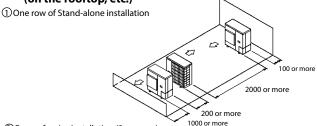
Don not stack more than two units.







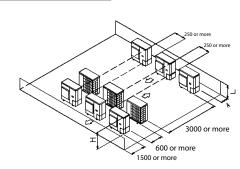




②Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L 0 < L ≤ 1/2 H	A area
L≦H	0 < L ≦ 1/2 H 1/2 H < L ≦ H	300
H <l< th=""><th>Can not be</th><th>installed</th></l<>	Can not be	installed



3D089310A

500 or more



RXYSQ-T8V / / RXYSQ4-6T8Y

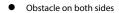
Required instalation space

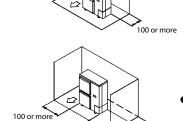
The unit of values is mm.

(A) When there are obstacles on suction sides

No obstacle above

- (1) Stand-alone installation
 - Obstacle on the suction side only





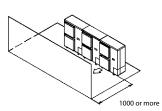
250 or mor

② Series installation (2 or more)

No obstacle above

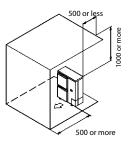
1 Stand-alone installation

(B) When there are obstacles on discharge sides.



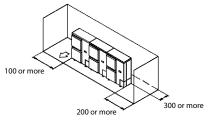
Obstacle above, too

1 Stand-alone installation

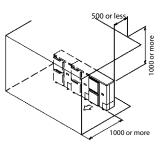


② Series installation (2 or more)

Obstacle on both sides



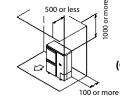
② Series installation (2 or more)



Obstacle above, too

1) Stand-alone installation

Obstacle on the suction side, too



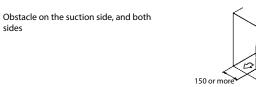
150 or more

(C) When there are obstacles on both suction and discharge sides.

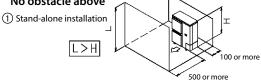
Pattern 1

When the obstacles on the discharge side is higher than the unit.

(There is no height limit for obstructions on the intake

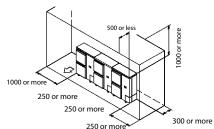


No obstacle above



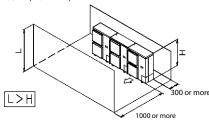
② Series installation (2 or more)

Obstacle on the suction side, and both sides



250 or more

② Series installation (2 or more)



3D045696D



RXYSQ-T8V / / RXYSQ4-6 T8Y

Obstacle above, too

1) Stand-alone installation

The relations between H, A and L are as follows.

		L	A
L≦H		0 < L ≦ 1/2 H	750
1,3	п	1/2 H < L ≦ H	1000
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)

The relations between H, A and L are as follows.

1		L	А
T	I≤H	0 < L ≦ 1/2 H	1000
	L \geq n	1/2 H < L ≦ H	1250
	H <l< th=""><th colspan="2">Set the stand as: L ≦ H</th></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

When the obstacle on the discharge side is lower than the unit:

(There is no height limit for obstructions on the

intake side.)



1)Stand-alone installation $\mathsf{L} \leqq \mathsf{H}$

② Series installation (2 or more)

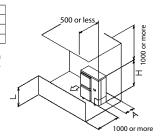
The relations between H, A and L are as follows.

L	A
0 < L ≦ 1/2 H	250
1/2 H < L ≦ H	300
020112 0	300

Obstacle above, too 1 Stand-alone installation

The relations between H, A and L are as follows.

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



2 Series installation

500 or les

500 or less

250 or more

300 or more

100 or more

500 or more

The relations between H, A and L are as follows.

	L	A
l≤H	0 < L ≦ 1/2 H	250
L = n	1/2 H < L ≦ H	300
H <l< th=""><th colspan="2">Set the stand as:L ≦ H</th></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

(D) Double-decker installation

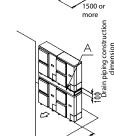
1) Obstacle on the discharge side Close the gap A (the gap between the upper an lower outdoor units) to prevent the discharged air from being

Don not stack more than two units

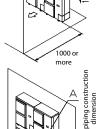
2) Obstacle on the suction side

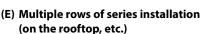
Close the gap A (the gap between the upper an lower outdoor units) to prevent the discharged air from being

Don not stack more than two units.



500 or le



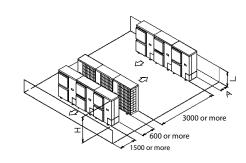




(2) Rows of series installation (2 or more)

The relations between H, A and L are as follows.

The relations between 11,77 and E are as follo		
	L	A
L≦H	0 < L ≦ 1/2 H	250
L≥H	1/2 H < L ≦ H	300
Hel	Can not be installed	



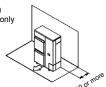
3D045696D

RXYSQ-8TY1

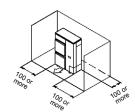
Required installation space

The unit of these values is mm.

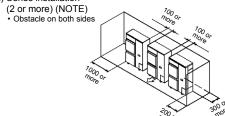
- 1. Where there is an obstacle on the suction side:
 - (a) No obstacle above
 - Stand-alone installation
 Obstacle on the suction side only



· Obstacle on both sides

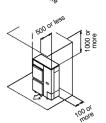


(2) Series installation

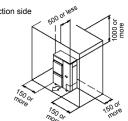


- (b) Obstacle above, too
 - (1) Stand-alone installation

 Obstacle on the suction
 - side, too

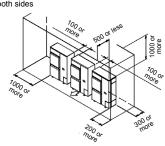


Obstacle on the suction side and both sides



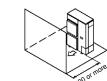
(2) Series installation (2 or more) (NOTE)

 Obstacle on the suction side and both sides

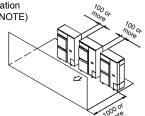


2. Where there is an obstacle on the discharge side:

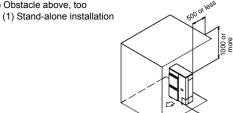
(a) No obstacle above (1) Stand-alone installation



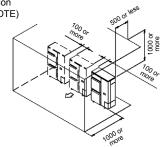
(2) Series installation (2 or more) (NOTE)



(b) Obstacle above, too



(2) Series installation (2 or more) (NOTE)

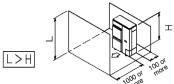


3. Where there are obstacles on both suction and discharge sides:

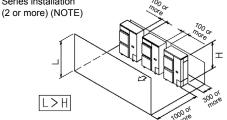
Pattern 1

Where the obstacle 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



(2) Series installation



3D068442L

NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

VIEW ALL RXYSQ-TY1 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

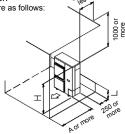
RXYSQ-8TY1

(b) Obstacle above, too

(1) Stand-alone installation
The relations between H, A and L are as follows:

	L	A
L≤H	0 < L ≤ 1/2 H	1000
	1/2 H < L ≤ H	1250
H <l< th=""><th colspan="2">Set the stand as: L ≤ H.</th></l<>	Set the stand as: L ≤ H.	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



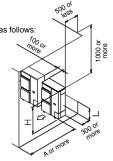
(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows:

	L	A
L≤H	0 < L ≤ 1/2 H	1000
	1/2 H < L ≤ H	1250
H <l< th=""><th colspan="2">Set the stand as: L ≤ H.</th></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.

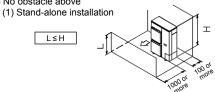


Pattern 2

Where the obstacle on the discharge side is lower than the unit:

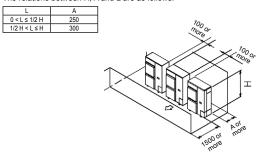
(There is no height limit for obstructions on the intake side)

(a) No obstacle above



(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows:



(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

eg	L	Α	1			
≤H 0-	< L ≤ 1/2 H	100] .	/ ^	οſ	,
1/2	2H <l≤h< th=""><th>200</th><td>] /</td><td>500</td><th>55 A ></th><th>\checkmark</th></l≤h<>	200] /	500	55 A >	\checkmark
L	Set the stan	id as: L ≤ H.] \	_ "		\geq
me to pr from bei ne distar	event the ong bypass				1000000	A FROM

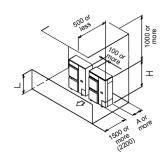
(2) Series installation (NOTE)

The relations between H, A and L are as follows:

	L	A	
L≤H	0 < L ≤ 1/2 H	250	
	1/2 H < 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 exceeds 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 units.

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

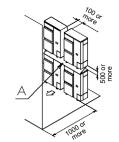
Leave the enough space between the layer one and the board.

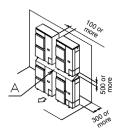
(b) Obstacle on the suction side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed:

Do not stack more than two units.

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

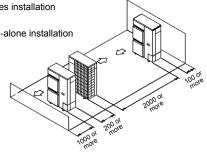
Leave the enough space between the layer one and the board.





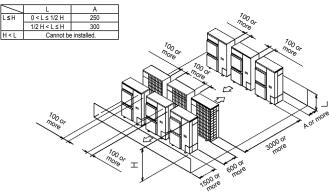
5. Multiple rows of series installation (on the rooftop, etc.)

(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:



NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

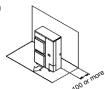
3D068442L

RXYSQ10-12TY1

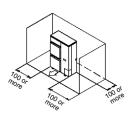
Required installation space

The unit of these values is mm.

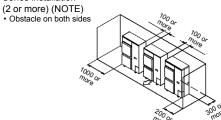
- 1. Where there is an obstacle on the suction side: (a) No obstacle above
 - (1) Stand-alone installationObstacle on the suction
 - side only



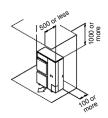
· Obstacle on both sides



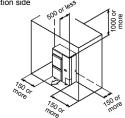
(2) Series installation



- (b) Obstacle above, too
 - (1) Stand-alone installation
 - Obstacle on the suction side, too

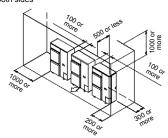


· Obstacle on the suction side and both sides



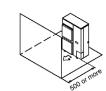
(2) Series installation

(2 or more) (NOTE) Obstacle on the suction side

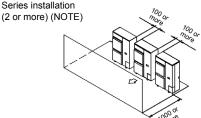


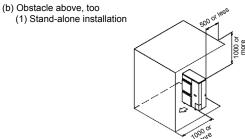
2. Where there is an obstacle on the discharge side:

(a) No obstacle above (1) Stand-alone installation

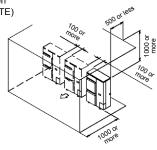


(2) Series installation





(2) Series installation (2 or more) (NOTE)



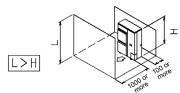
3. Where there are obstacles on both suction and discharge sides:

Pattern 1

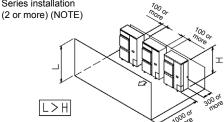
Where the obstacle on the discharge side is higher than the unit: (There is no height limit for obstructions on the intake side)

(a) No obstacle above

(1) Stand-alone installation



(2) Series installation



3D083122F

NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

VIEW ALL RXYSQ-TY1 TECHNICAL DRAWINGS ON MY.DAIKIN.EU

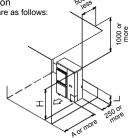
RXYSQ10-12TY1

(b) Obstacle above, too

(1) Stand-alone installation
The relations between H, A and L are as follows:



Close the bottom of the installation frame to prevent the discharged air from being bypassed.



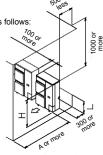
(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows

$\overline{}$	L	A
L≤H	0 < L ≤ 1/2 H	1000
	1/2 H < 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

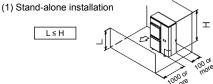


Pattern 2

Where the obstacle on the discharge side is lower than the unit:

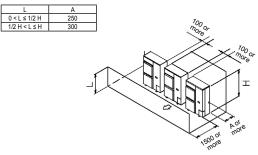
(There is no height limit for obstructions on the intake side)

(a) No obstacle above



(2) Series installation (2 or more) (NOTE)

The relations between H, A and L are as follows:



(b) Obstacle above, too

(1) Stand-alone installation

The relations between H, A and L are as follows:

THETE	The relations between 11, A and L are as follows.				
	L	A			
L≤H	0 < L ≤ 1/2 H	100	500 or		
	1/2 H < L ≤ H	200	50,655	. √1 ≿	
H < L	Set the stan	d as: L ≤ H.		1000 or	
frame t	the bottom of the control of the con	lischarged		ī	
in the (If the distance exceeds the figure in the (), then it's no need to set the stand.				

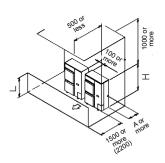
(2) Series installation (NOTE)

The relations between H, A and L are as follows:

	L	A	
L≤H	0 < L ≤ 1/2 H	250	
	1/2 H < 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 exceeds 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 units

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

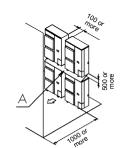
Leave the enough space between the layer

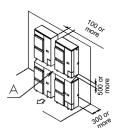
(b) Obstacle on the suction side (NOTE). Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed:

Do not stack more than two units.

Set the board (field supply) as the detail A between two units to prevent the drainage from frozing.

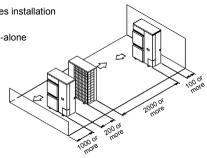
Leave the enough space between the layer





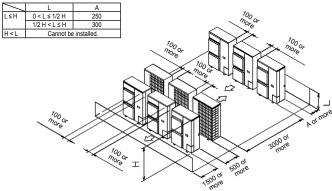
5. Multiple rows of series installation (on the rooftop, etc.)

(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:



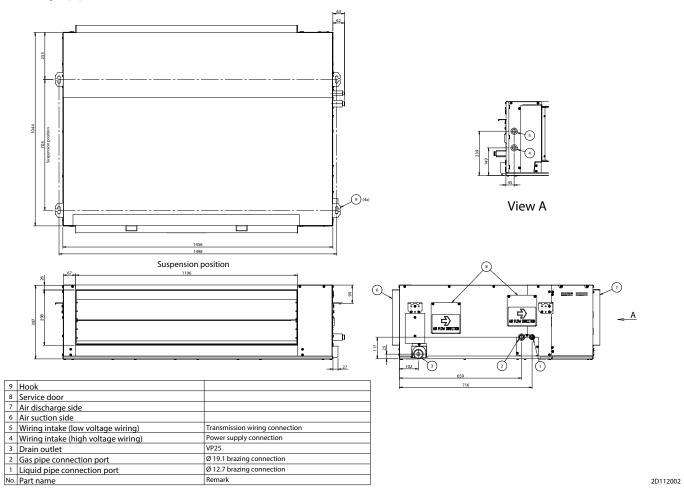
NOTE

When install the units in a line, have to leave the distance over 100 mm between the two units.

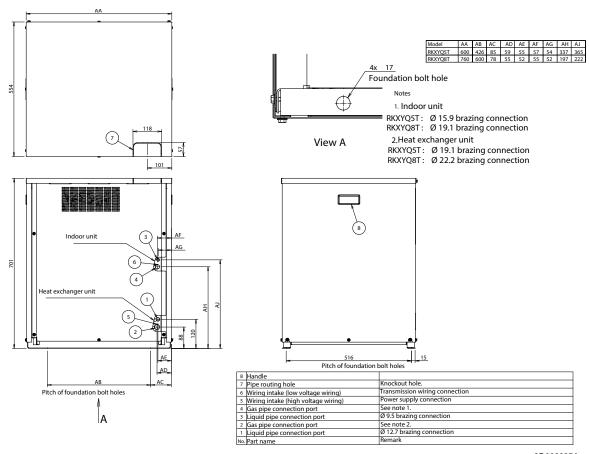
3D083122F



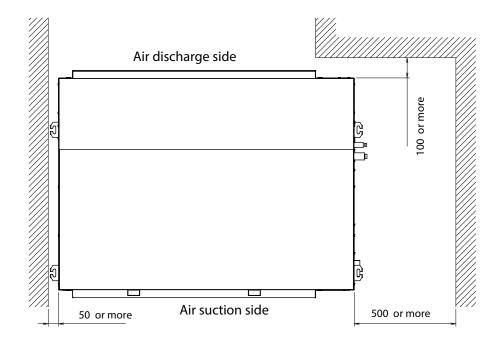
RDXYQ-T(8)

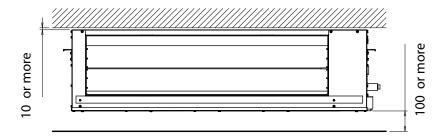


RKXYQ-T(8)



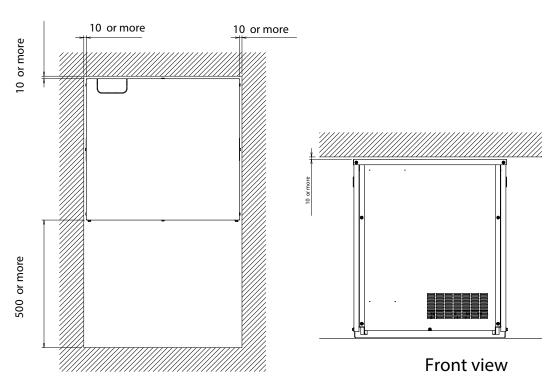
RDXYQ-T(8)





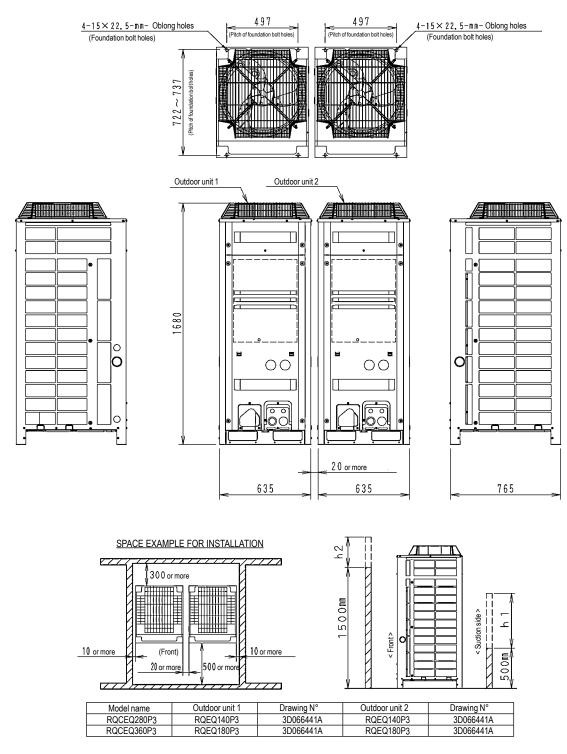
3D098834

RKXYQ-T(8)



Top view

RQCEQ280-360P3



Unit: mm

NOTES

1. 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

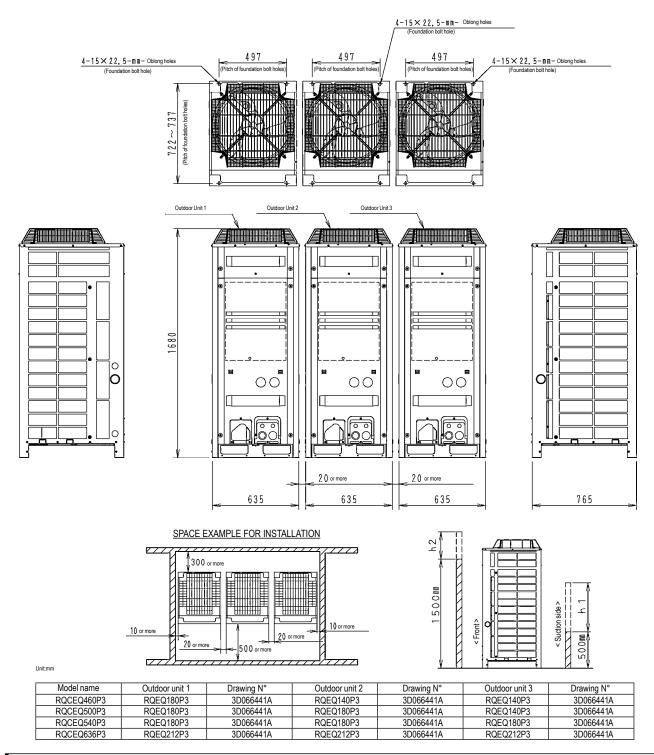
(In case of causing a heavy heating load at indoor unit side)

- 2. If the above wall heights are exceeded then h2/2 and h1/2 should be addes tot the front and suction side service spaces respectively as shown in the following figure.
- 3. 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 alway bearing in mind the need to leave enough room for a person to pass between nuits 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.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.

3D066856A



RQCEQ460-636P3



NOTES

1. 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.

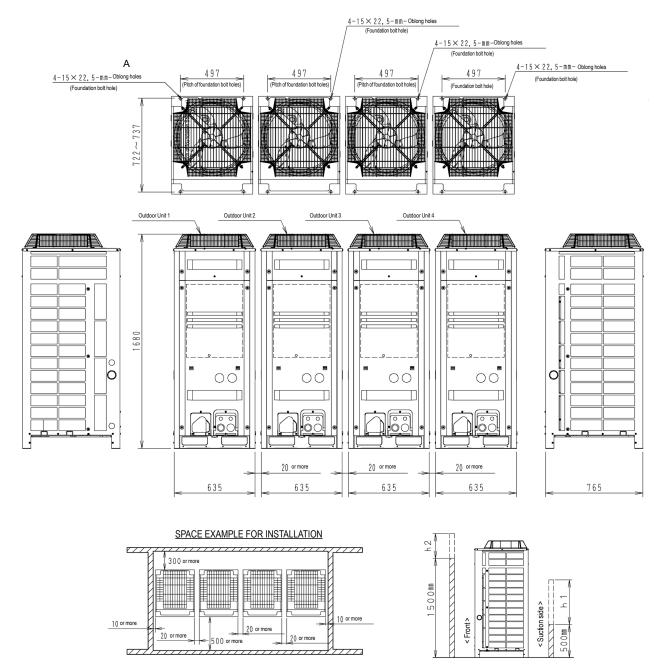
The installation space of suction side shown above must be expanded in the following case.

- Design outdoor temperature becomes over 35°C.
- Operating over Max. operating load
- (In case of causing a heavy heating load at indoor unit side)
- 2. If the above wall heights are exceeded then h2/2 and h1/2 should be addes tot the front and suction side service spaces respectively as shown in the following figure.
- 3. 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 alway bearing in mind the need to leave enough room for a person to pass between nuits 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.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.

3D066860A



RQCEQ721-848P3



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
RQCEQ848P3	RQEQ212P3	3D066441A	RQEQ212P3	3D0664413	RQEQ212PA	3D066441A	RQEQ212P3	3D066441A

NOTES

1. Heights of walls

Front: 1500mm

Suction side: 500mm

Side: Height unrestricted

 $The installation space shown in this figure is based on the condition of cooling operation at the outdoor air temperature of 35 ^{\circ}C.$

- 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

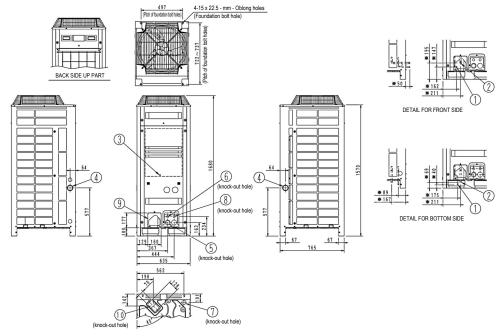
(In case of causing a heavy heating load at indoor unit side)

- 2. If the above wall heights are exceeded then h2/2 and h1/2 should be addes tot the front and suction side service spaces respectively as shown in the following figure.

 3. 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 alway bearing in mind the need to leave enough room for a person to pass between nuits 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.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out confortably.

3D066865A

RQYQ140P



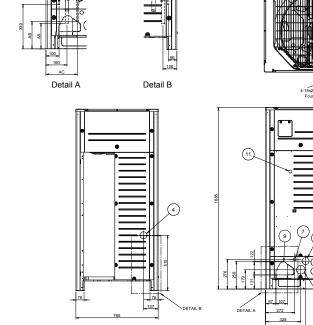
No.	Parts name	Remarks
1	Liquid pipe connection port	ø9.5 Brazing connection
2	Gas pipe connection port	See note 3.
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ø62
5	Power cord routing hole (front)	ø45
6	Power cord routing hole (front)	ø27
7	Power cord routing hole (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

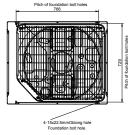
- $\ensuremath{\boldsymbol{x}}$ shows the dimensions after fixing the accessory pipes.
- $2. \ \ \text{For piping connection method (front and bottom sides) see the installation manual.}$
- 3 Gas pipe ø15.9 Brazing connection: RQYQ140P

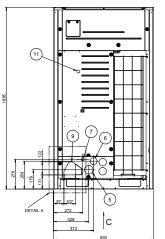
RXYQQ8-12T

RYYQ8-12T RYMQ8-12T RXYQ8-12T RXYQQ8-12T



Gas pipe
RYYQ8T, RYMQ8T, RXYQ8T, RXYQQ8T :
RYYQ10T, RYMQ10T, RXYQ10T, RXYQQ10T :
REMQ5T, REYQ8-12T
RYYQ12T, RYMQ12T, RXYQ12T, RXYQQ12T :





Liquid pipe RYYQ8-10T, RYMQ8-10T, RXYQ8-10T, RXYQ Q8-10T, REMQ5T, REYQ8-12T

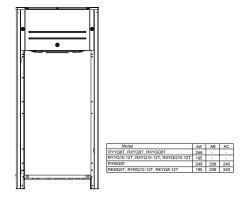
RYYQ12T, RYMQ12T, RXYQ12T, RXYQQ12T

Equalising pipe
RYMQ8-10T:
RYMQ12T:
High pressure/low pressu
REMQ5T, REYQ8-12T:

Ø 12.7 brazing connection

Ø 19.1 brazing connection Ø 22.2 brazing connection Ø 19.1 brazing connection

353 134 125	8
0	View C

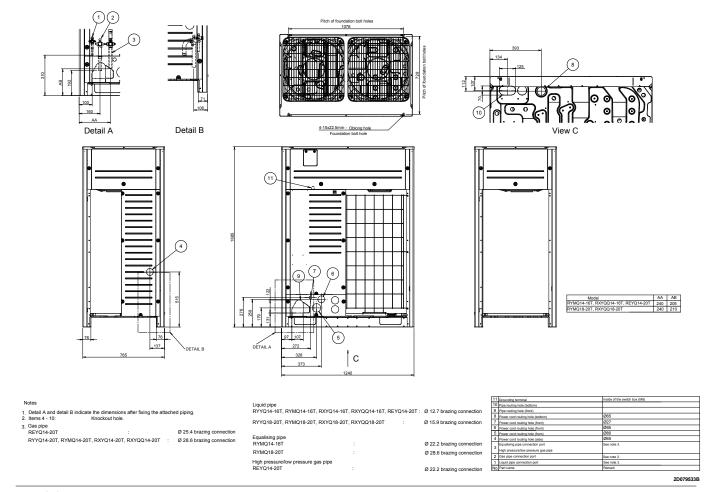


11	Grounding terminal	Inside of the switch box (M8)
10	Pipe routing hole (bottom)	
9	Pipe routing hole (front)	
8	Power cord routing hole (bottom)	Ø65
7	Power cord routing hole (front)	Ø27
6	Power cord routing hole (front)	Ø65
5	Power cord routing hole (front)	Ø80
4	Power cord routing hole (side)	Ø65
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note 3.
2	Gas pipe connection port	See note 3.
1	Liquid pipe connection port	See note 3.
No.	Part name	Remark

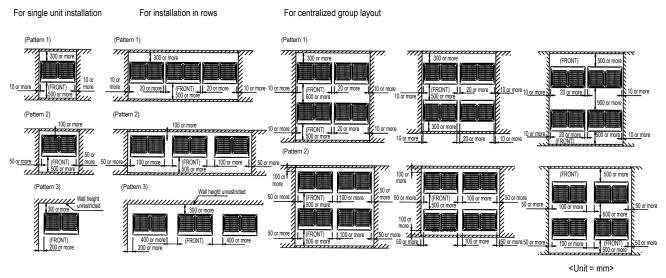
3D066442



RXYQQ14-20T



RXYQQ-T



NOTES 3D079542

1. Heights of walls in case of patterns 1 and 2:

Front: 1500mm

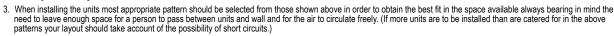
Suction side: 500mm

Side: Height unrestricted

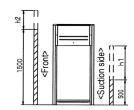
Installation space as shown on this drawing is based on the cooling operation at 35 degrees outdoor air temperature.

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.

2. 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 figure on the right.

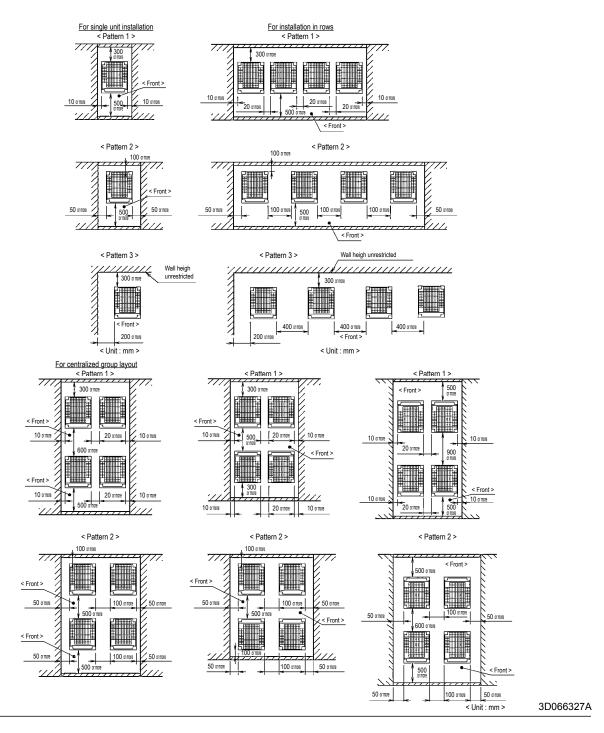


4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.



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RQYQ140P



NOTES

1. Heights of walls in case of patterns 1 and 2:

Front: 1500 mm

Suction side: 500mm

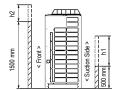
Side: Height unrestricted.

Installation space to be shown in 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 because of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.

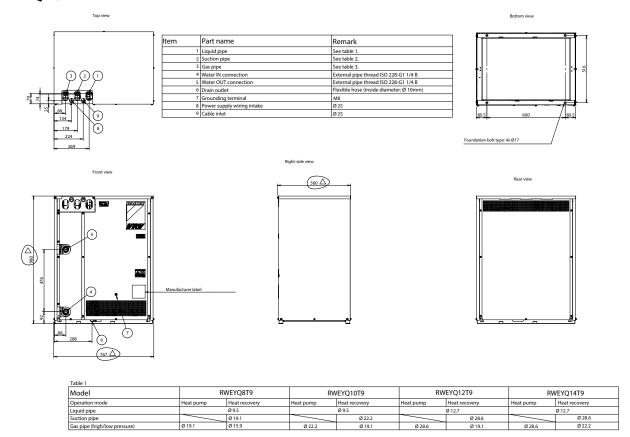
- 2. If the above wall heights are exceeded then h2/2 and h1/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- 3. When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit 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 to the possibility of short circuits.)
- 4. The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.





RWEYQ-T9



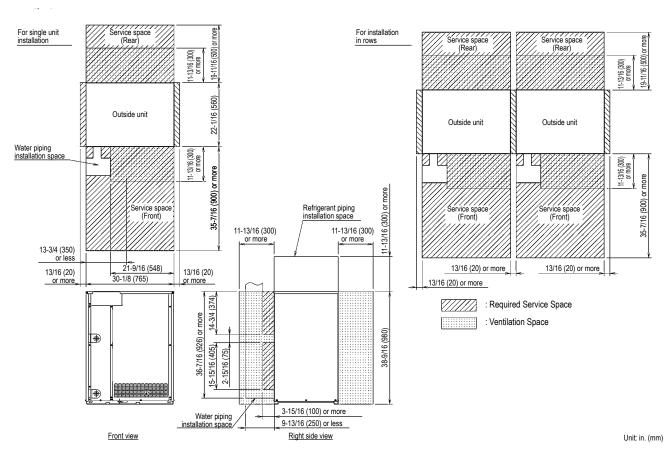
Notes

The grounding terminal is located in the switch box

In case of a heat pump, the suction pipe is not used

2D108932A

RWEYQ-T9

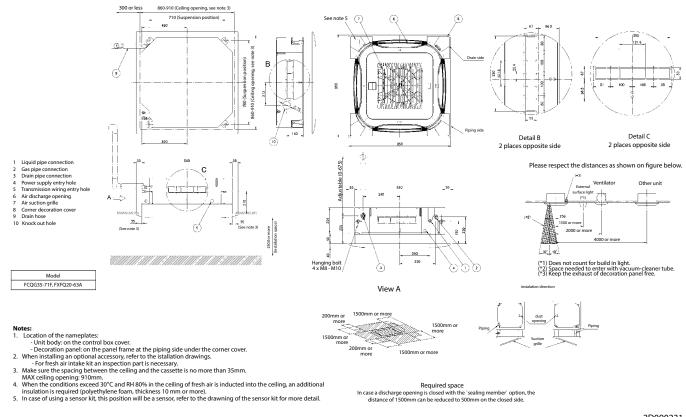


3D109304



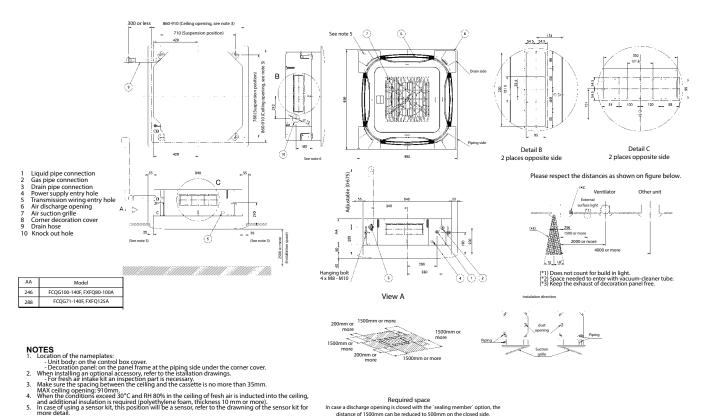


FXFQ20-63A WITH AUTO-CLEANING PANEL



2D090231

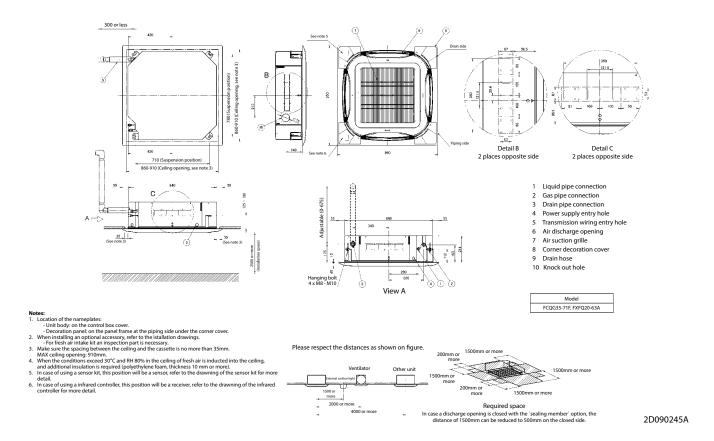
FXFQ80-125A WITH AUTO-CLEANING PANEL



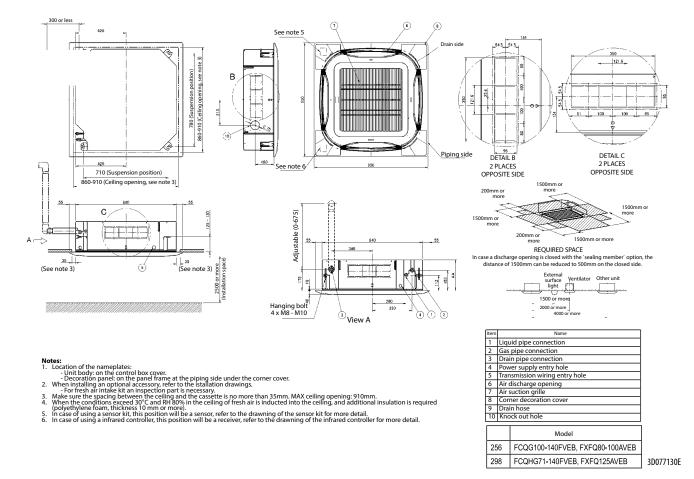
3D077131D



FXFQ20-63A WITH STANDARD PANEL

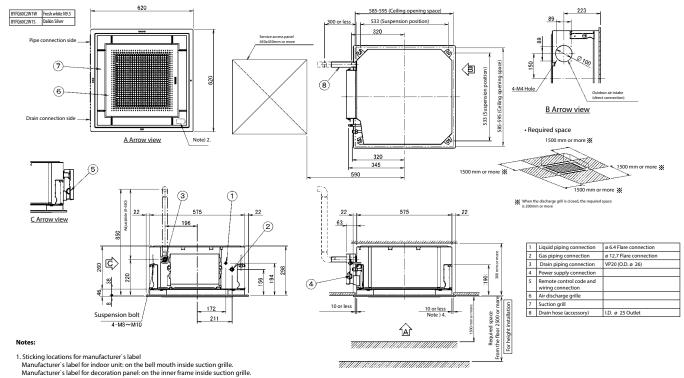


FXFQ80-125A WITH STANDARD PANEL





FXZQ-A NEW PANEL



- In case of using infrared remote on the control pane, of the inner name in such such guide.

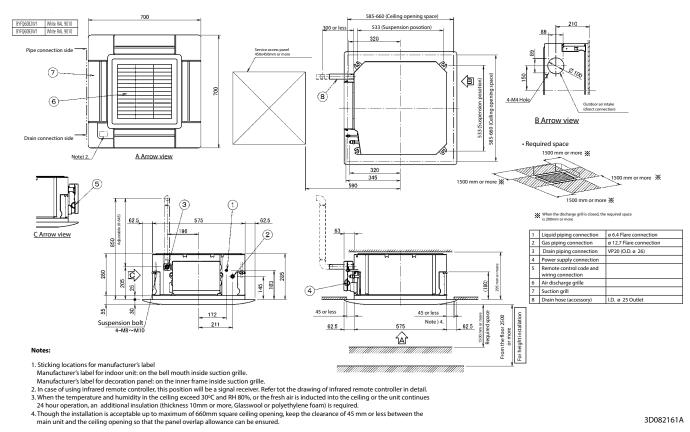
 2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.

 3. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more, Gasswool or poylethylene foam) is required.

 4. Though the installation is acceptable up to maximum of 595mm square ceiling opening, keep the clearance of 10mm or less between the
- main unit and the ceiling opening so that the panel overlap allowance can be ensured.

3D082052

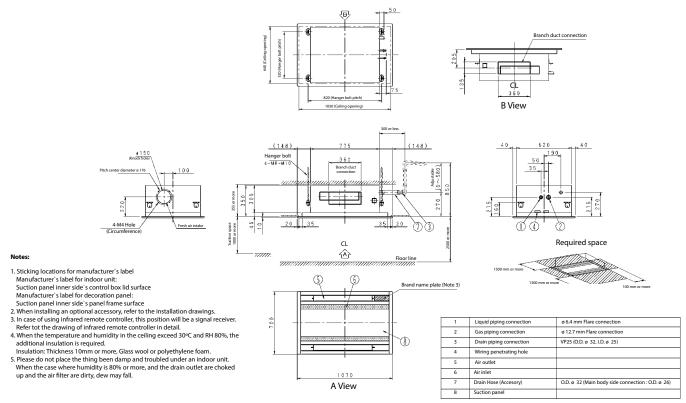
FXZQ-A OLD PANEL



3D082161A

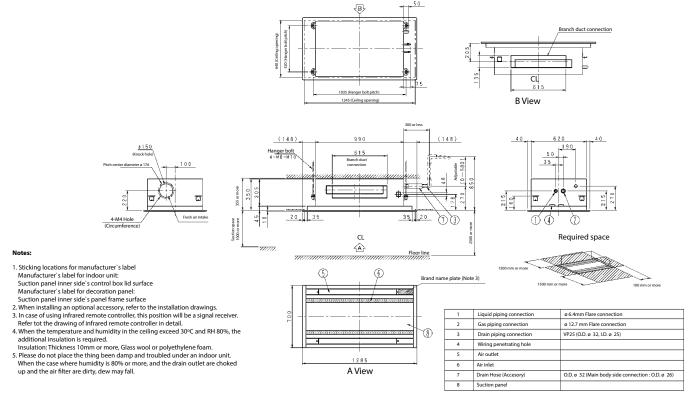
VIEW ALL FXCQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXCQ20-40A



3D079628

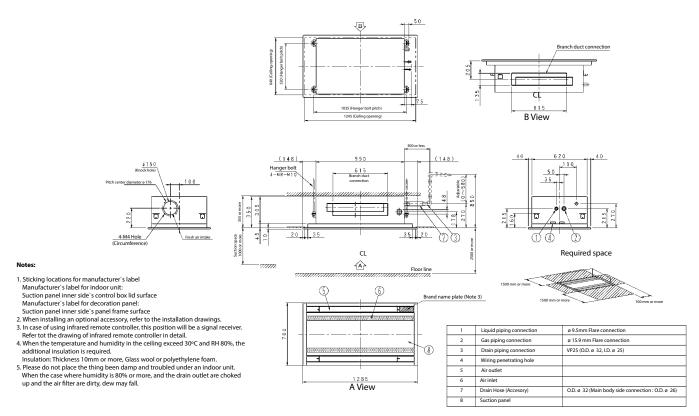
FXCQ50A



3D079629

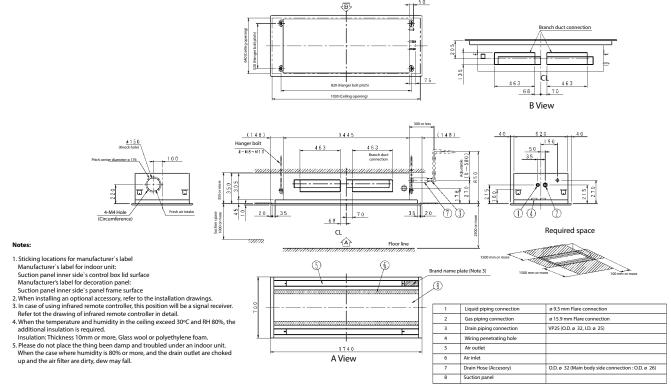


FXCQ63A



3D079630

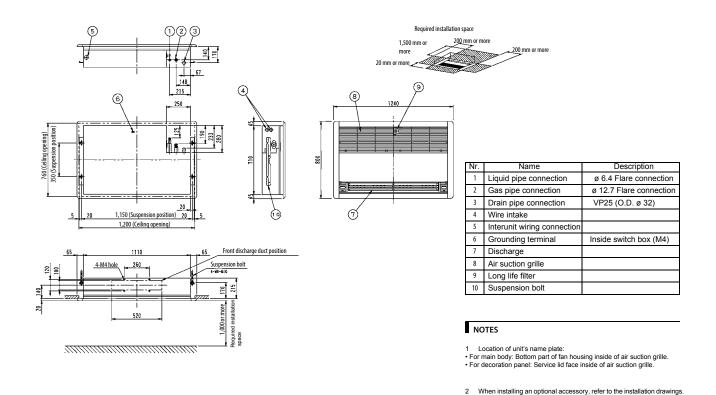
FXCQ80-125A



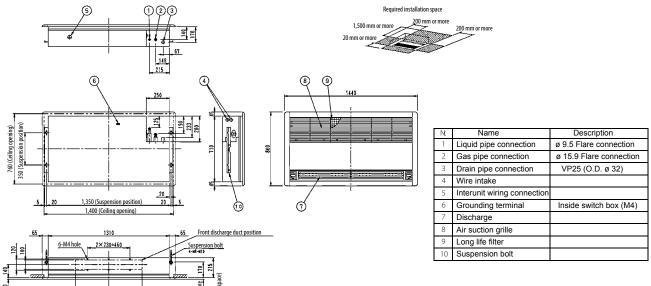
3D079631

VIEW ALL FXKQ-MA TECHNICAL DRAWINGS ON MY. DAIKIN.EU

FXKQ25, 32, 40MA



FXKQ63MA



NOTES

- Location of unit's name plate:

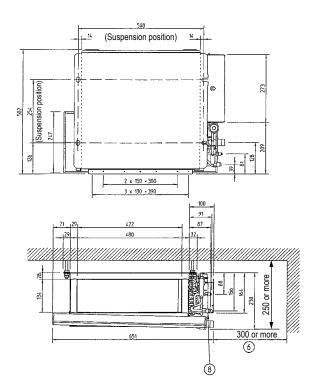
 For main body: Bottom part of fan housing inside of air suction grille.

 For decoration panel: Service lid face inside of air suction grille.
- 2 When installing an optional accessory, refer to the installation drawings.

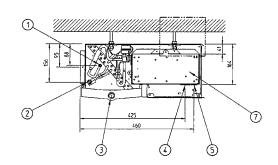
3D038841

3D038840

FXDQ-M9

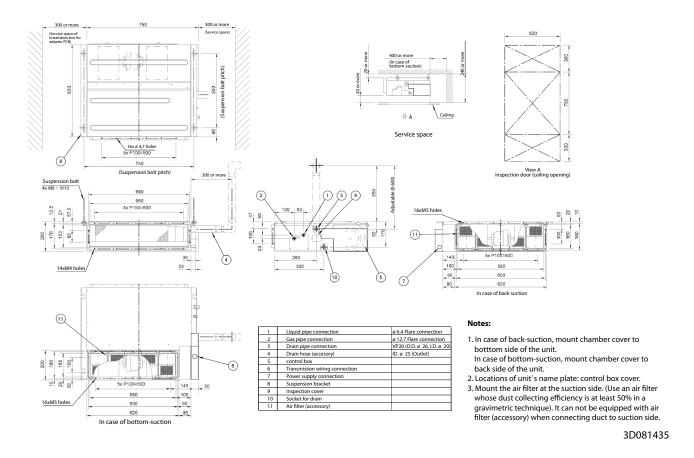


Nr	Part name
1	Liquid pipe connection (ø 6.35)
2	Gas pipe connection (ø 12.7)
3	Drain hole (o.d. ø 27.2 - i.d. ø 21.6)
4	Transmission wiring port
5	Power supply wiring port
6	Service space
7	Switch box
8	Nameplate

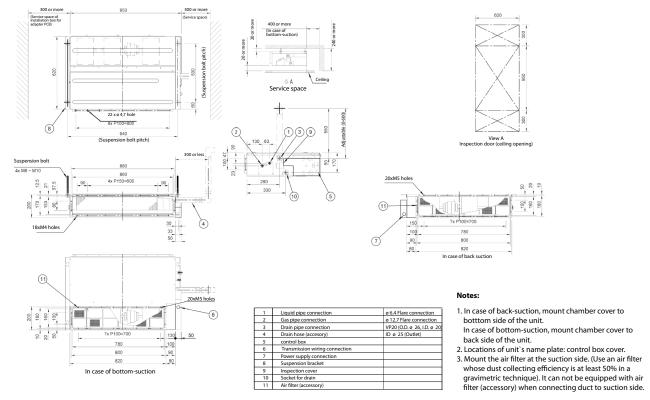


3TW25774-1

FXDQ15-32A3

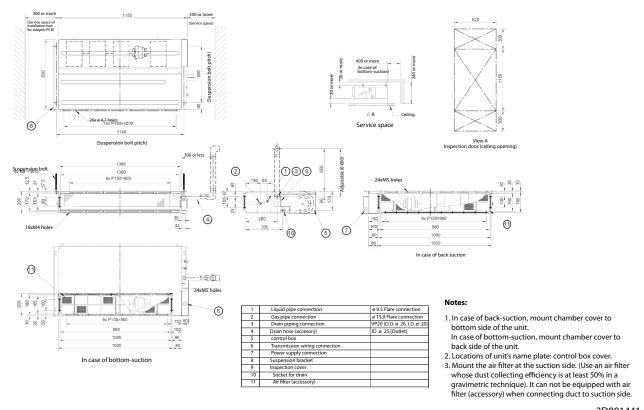


FXDQ40-50A3



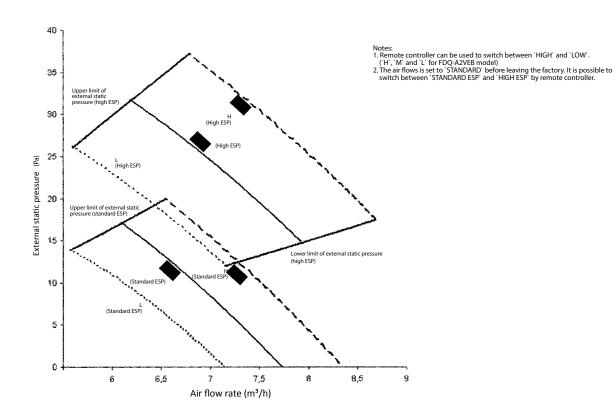
3D081436

FXDQ63A3

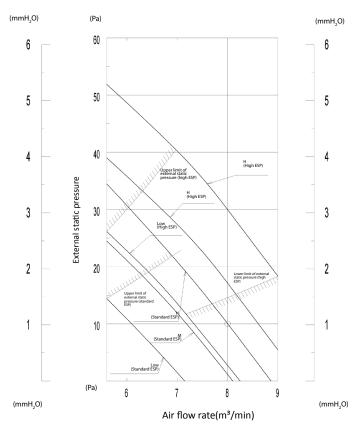


3D081441

FXDQ15A3



FXDQ20-25 A3



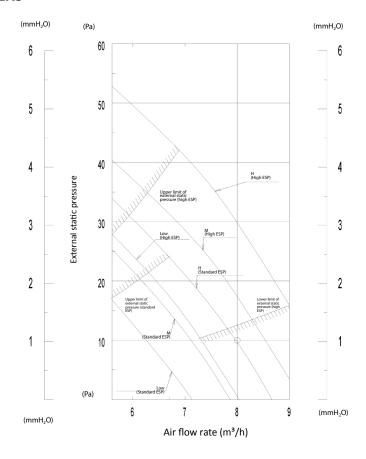
Notes:

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.

3D086736A

FXQQ32A3



- Notes:

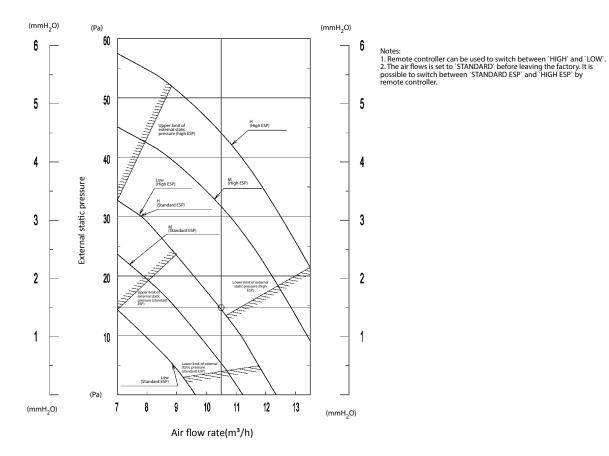
 1. Remote controller can be used to switch between `HIGH` and `LOW`.

 ('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.

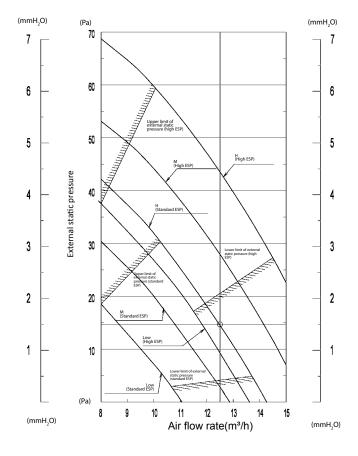
3D081425

FXDQ40A3



3D81426B

FXDQ50A3



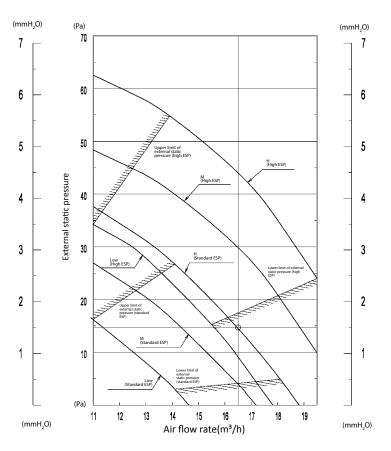
- Notes:

 1. Remote controller can be used to switch between `HIGH` and `LOW`.

 ('H', 'M' and 'L' for FDQ-A2VEB model)

 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between `STANDARD ESP` and `HIGH ESP' by remote controller.

FXDQ60A3



- Notes:

 1. Remote controller can be used to switch between 'HIGH' and 'LOW'.

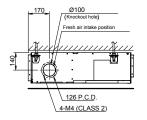
 ('H', 'M' and 'L' for FDQ-AZVEB model)

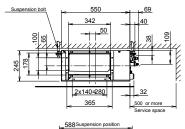
 2. The air flows is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

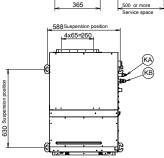
3D081429B

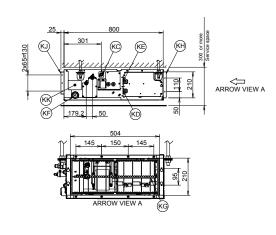


FXSQ15-32A





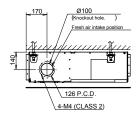


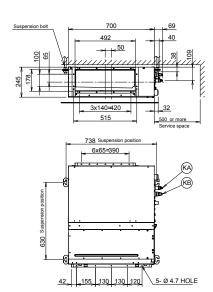


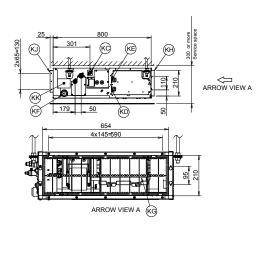
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	1
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	1
KH	Air suction side	1
KJ	Air discharge side	1
KK	Nameplate	/

3D094888A

FXSQ40-50A







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	1
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	1

Notes

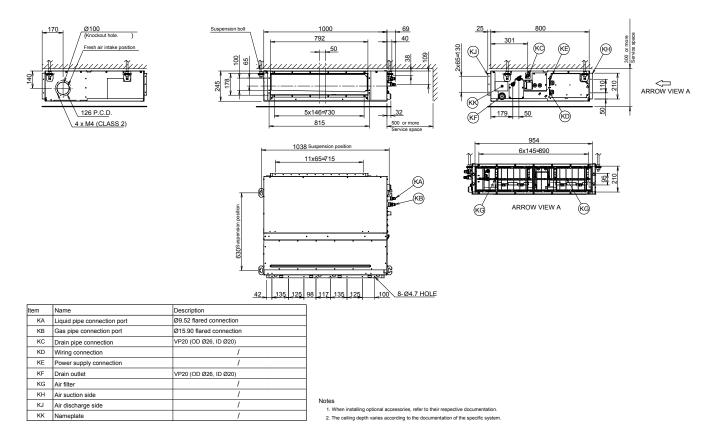
1. When installing optional accessories, refer to their respective documentation.

2. The ceiling depth varies according to the documentation of the specific system.

3D094919A

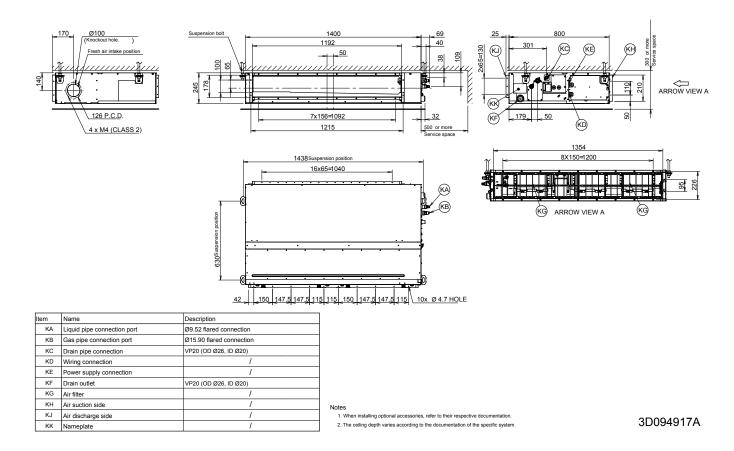


FXSQ63-80A



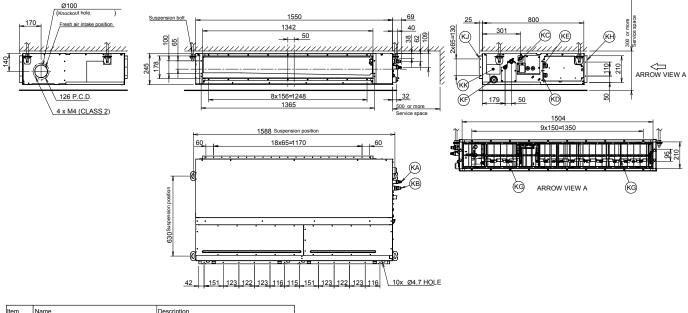
3D094916A

FXSQ100-125A





FXSQ140A

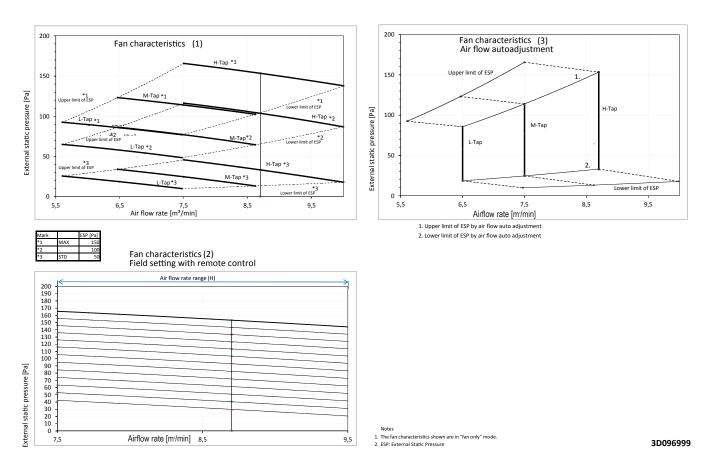


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	1
KE	Power supply connection	I
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	1
KH	Air suction side	1
KJ	Air discharge side	1
KK	Namenlate	1

When installing optional accessories, refer to their respective documentation.
 The ceiling depth varies according to the documentation of the specific system.

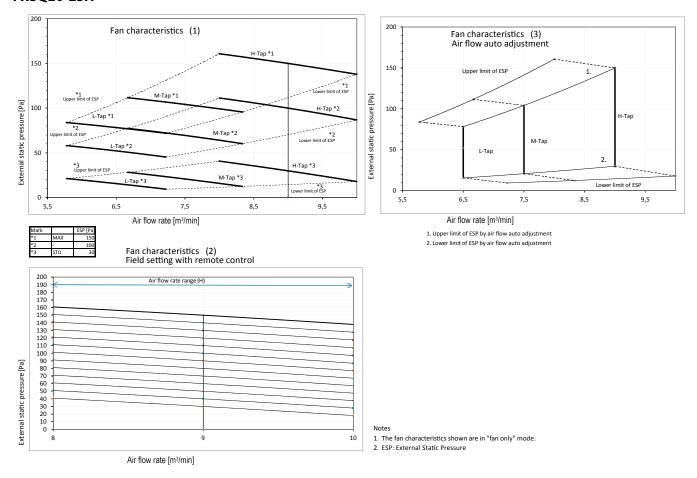
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FXSQ15A



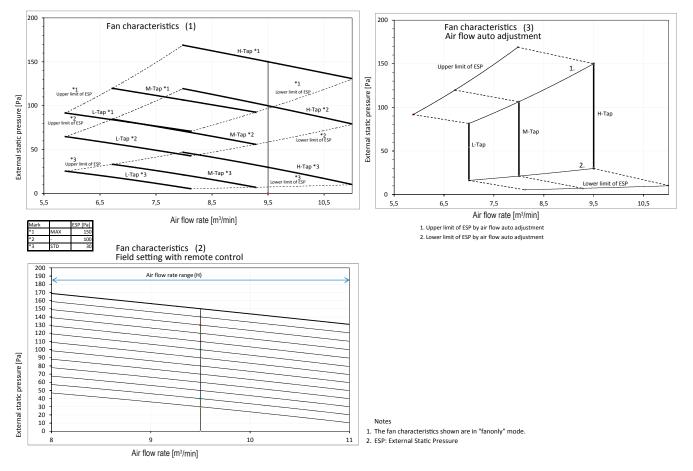
VIEW ALL FXSQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXSQ20-25A



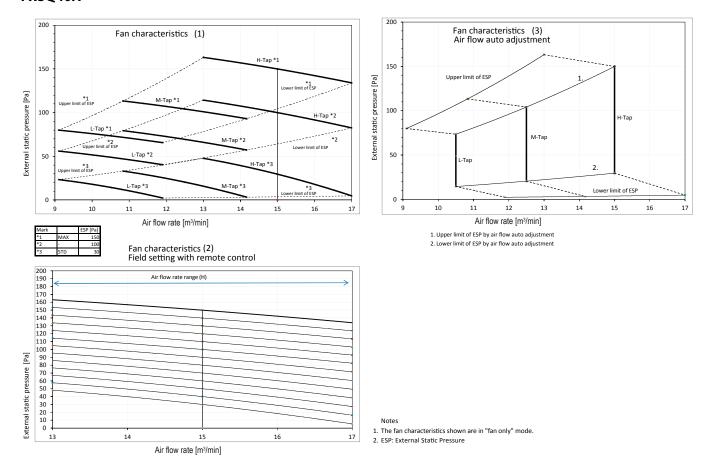
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FXSQ32A



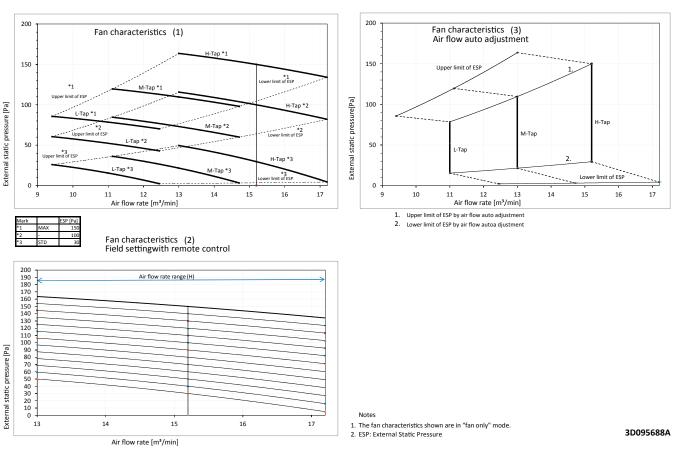


FXSQ40A



3D095682A

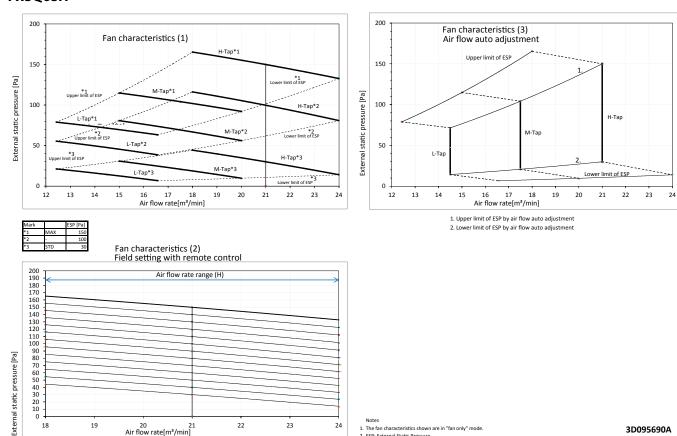
FXSQ50A





3D095690A

FXSQ63A



24

22

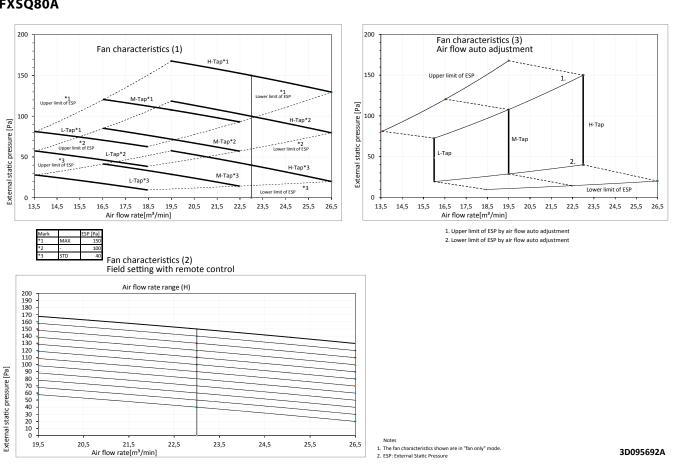
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FXSQ80A

18

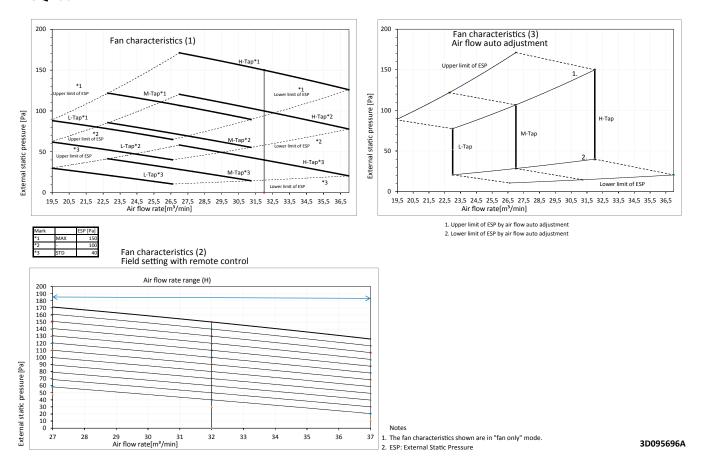
19

20 21 Air flow rate[m³/min]

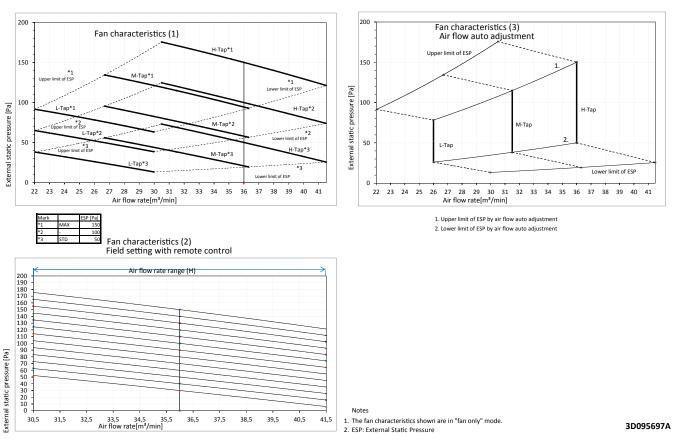




FXSQ100A

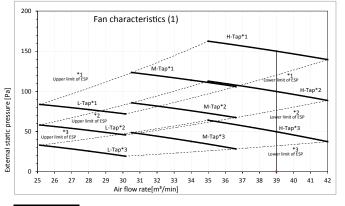


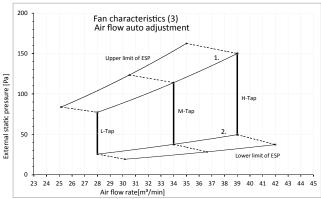
FXSQ125A



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FXSQ140A

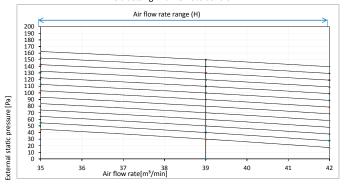




Upper limit of ESP by air flow auto adjustment
 Lower limit of ESP by air flow auto adjustment



Fan characteristics (2) Field setting with remote control

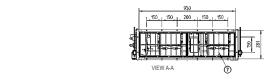


- The fan characteristics shown are in "fan only" mode.
 ESP: External Static Pressure

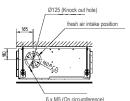
3D096688A

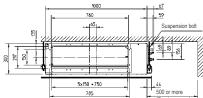


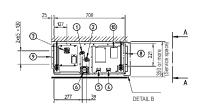
FXMQ50P7

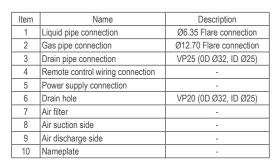






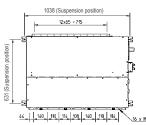






(Knock out hole)

With decoration panel



3TW32694-1

NOTES

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.

0

6

(§ (d)

39

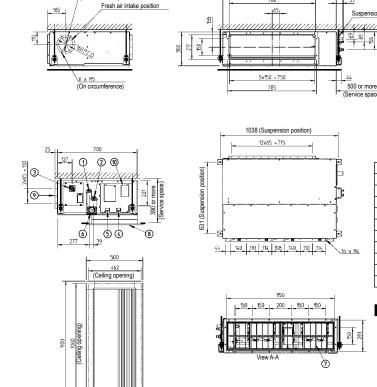
-® ≅

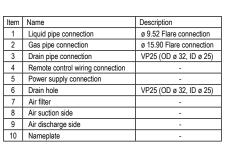
- 2 The required ceiling depth varies according to the configuration of the specific system.
- For maintenance of the air filter, it is necessary to provide a service access panel. Refer to the 'filter installation method' drawing.

(3)

(9)

FXMQ63-80P7

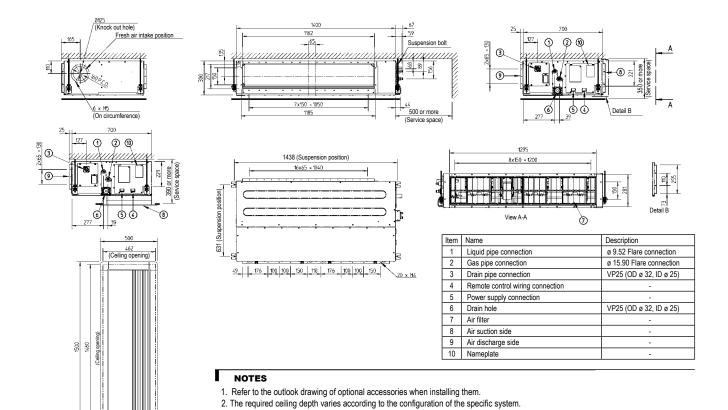




NOTES

- 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.
- For maintenance of the air filter, it is necessary to provide a service access panel.
- 4. Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)

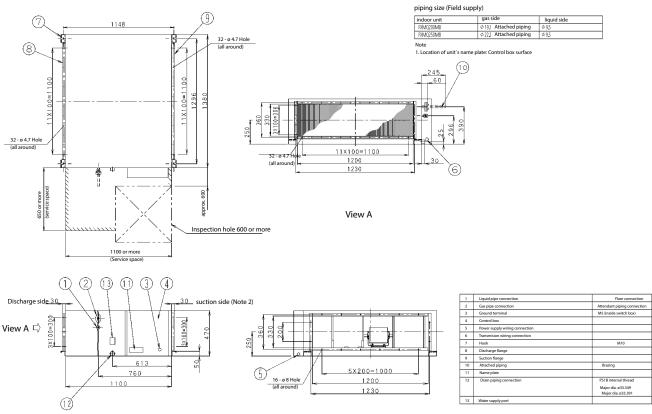
FXMQ100-125P7



3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBS125DJW1 (light ivory white 10Y9/0.5)

FXMQ-MB

With decoration panel

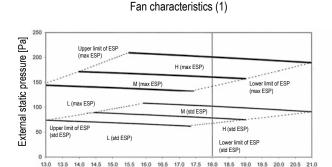


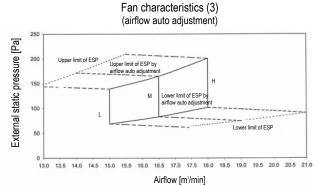
3D096007

3TW31254-1B



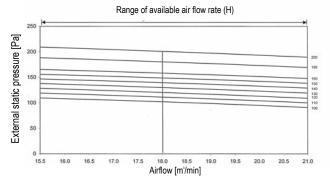
FXMQ50P7





Fan characteristics (2) (Field setting with remote control)

Airflow [m³/min]

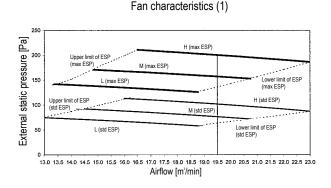


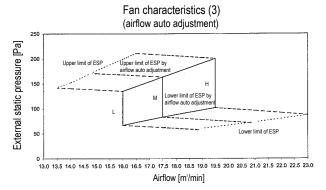
3TW32698-1

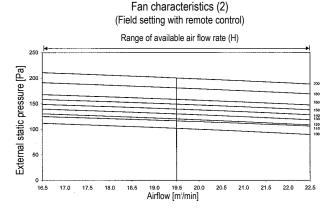
NOTES

- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

FXMQ63P7







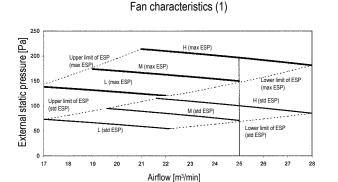
3TW32708-1

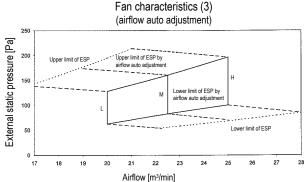
NOTES

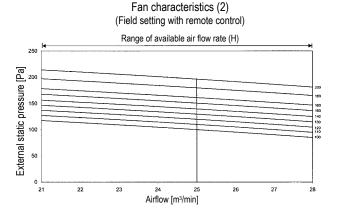
- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

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FXMQ80P7





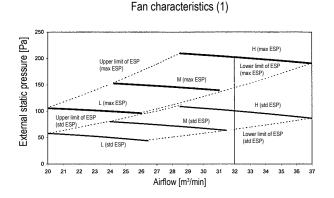


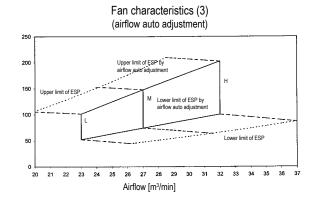
3TW32718-1

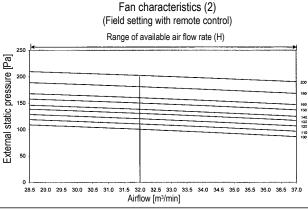
NOTES

- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

FXMQ100P7







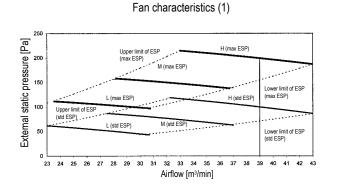
3TW32728-1

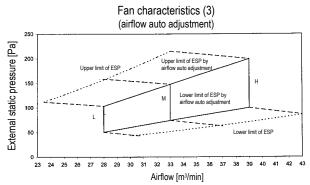
NOTES

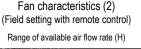
- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure.

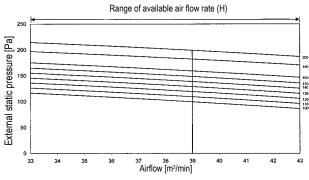


FXMQ125P7









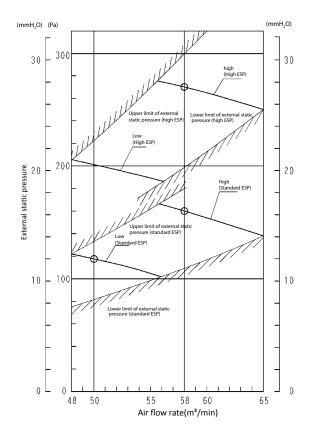
3TW32738-1

NOTES

- 1. Fan characteristics as shown are in "fan only" mode.
- 2. ESP: External static pressure

FXMQ200MB





Notes:

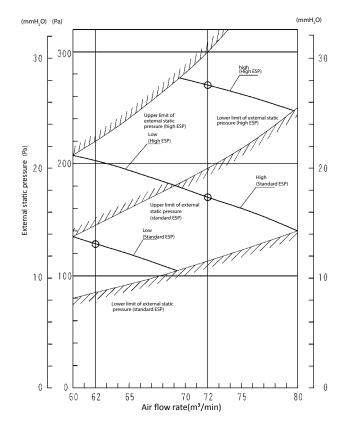
1. Remote controller can be used to switch between 'HIGH' and 'LOW'.

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





Notes:

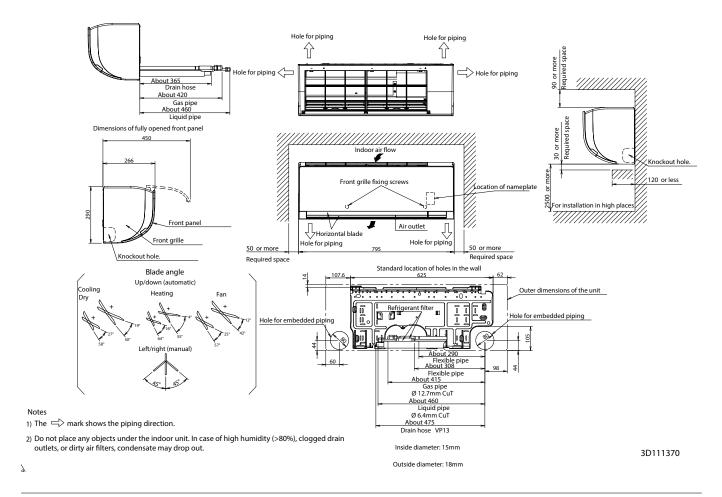
1. Remote controller can be used to switch between 'HIGH' and 'LOW'.

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

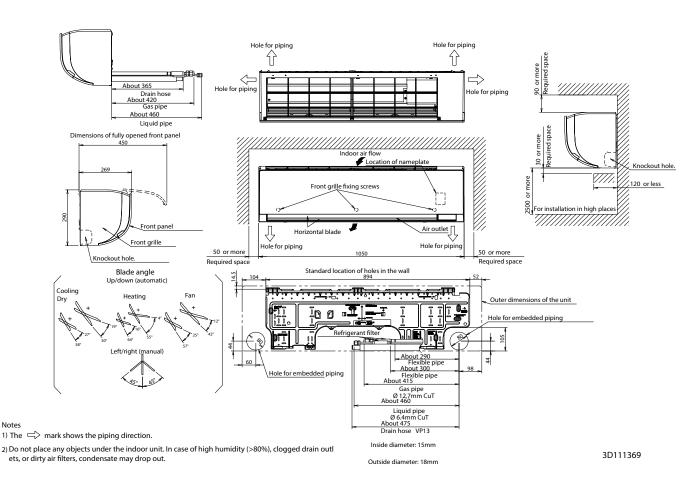


FXAQ15-32A



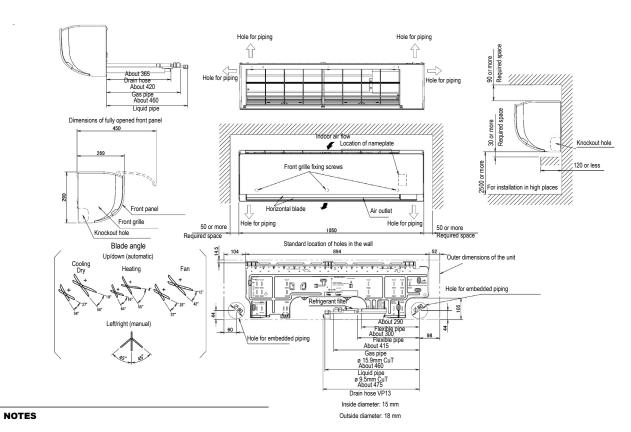
FXAQ40-50A

Notes



VIEW ALL FXAQ-A TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FXAQ63A

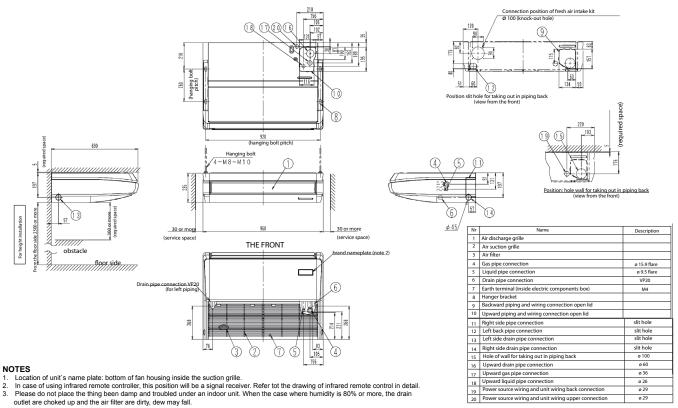


- The mark \(\subseteq \) shows the piping direction.
 Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets or dirty air filters, condensate may drop out.

3D111368

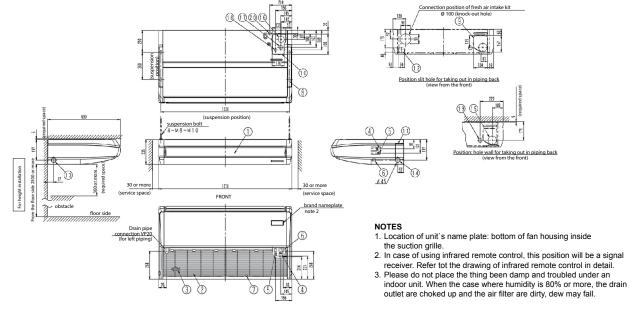


FXHQ32A



3D080029

FXHQ63A

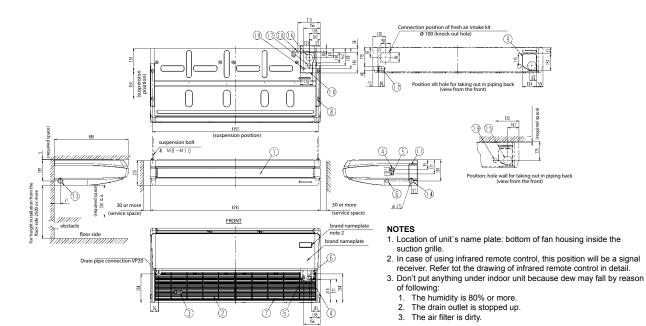


Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 15.9 flare
5	Liquid pipe connection	ø 9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection open lid	
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



FXHQ100A



Nr	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 9.5 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	

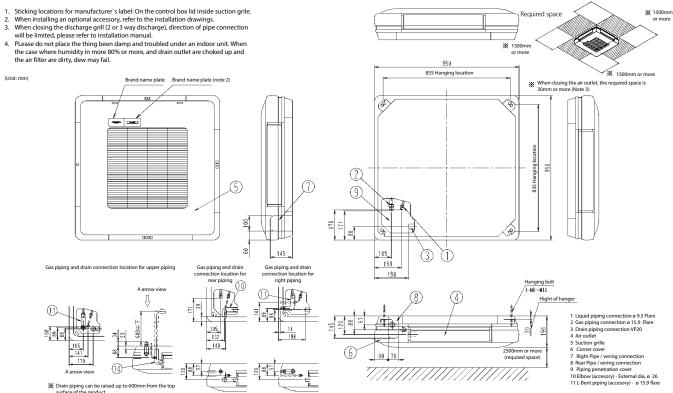
Upward piping and wiring connection open lid

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

3D069633D



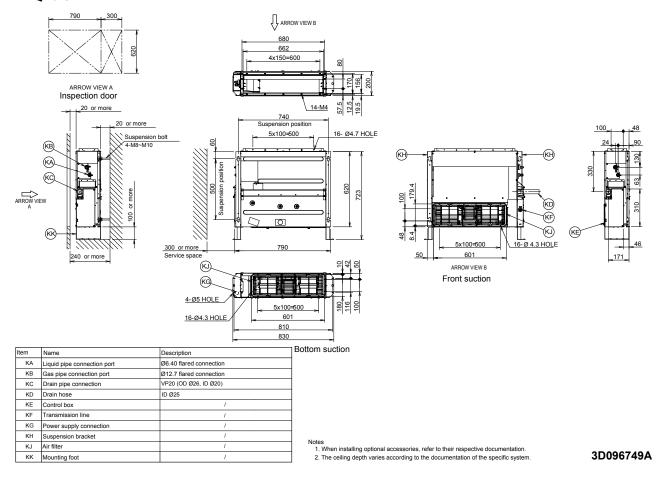
FXUQ-A



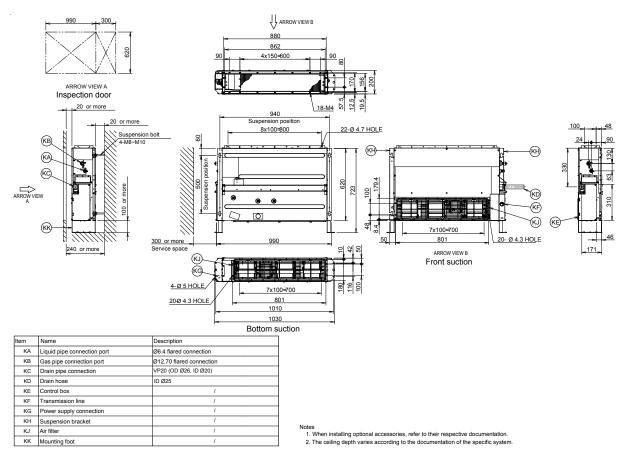
3D080135



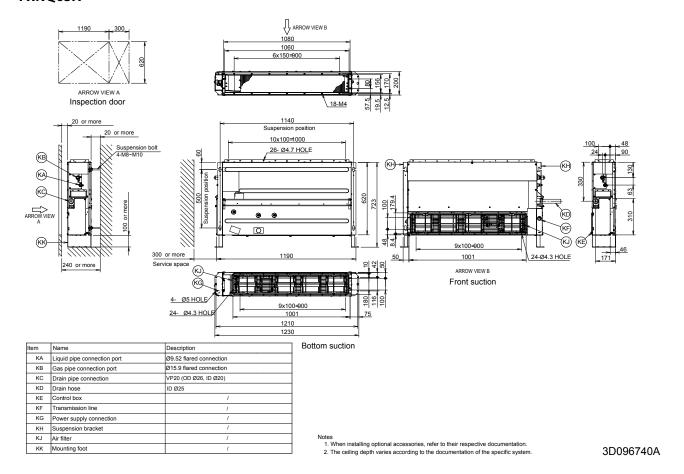
FXNQ20-32A



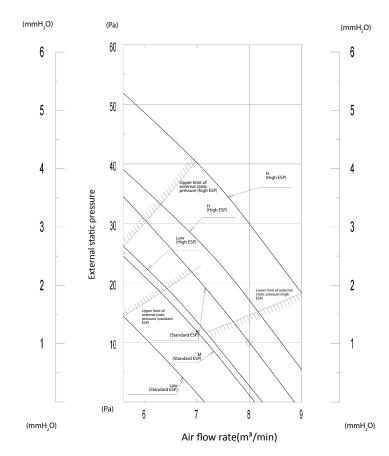
FXNQ40-50A



FXNQ63A



FXNQ20-25A



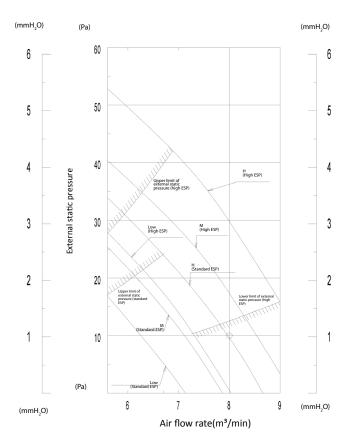
Notes:

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.



FXNQ32A



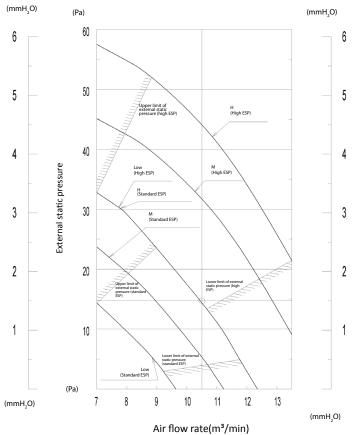
Notes:

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.

3D081425B

FXNQ40A



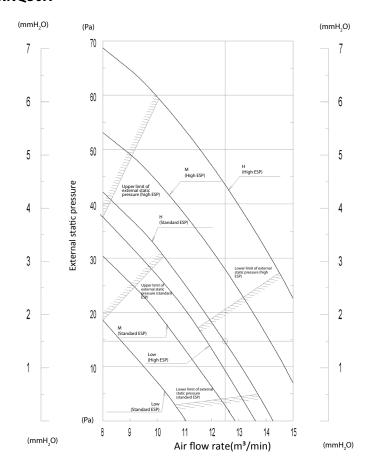
Notes:

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.



FXNQ50A



Notes:

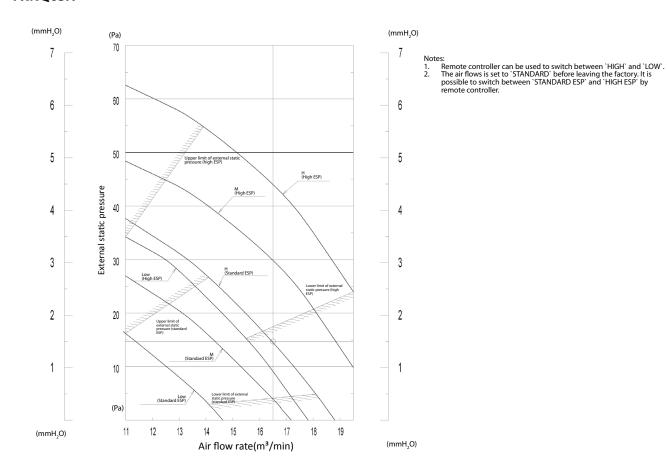
Notes:

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.

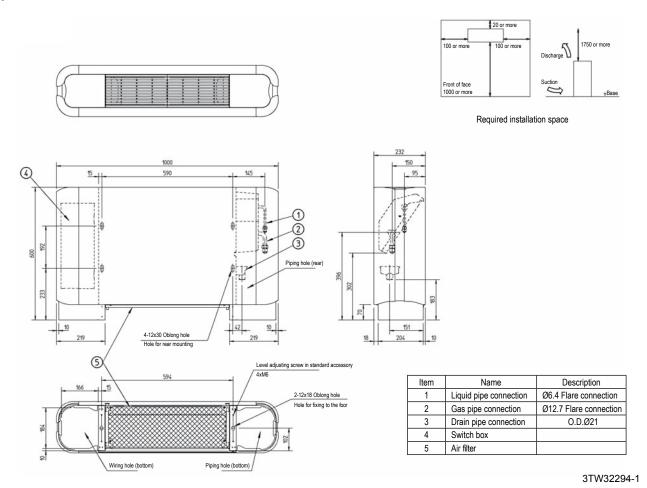
3D081427B

FXNQ63A

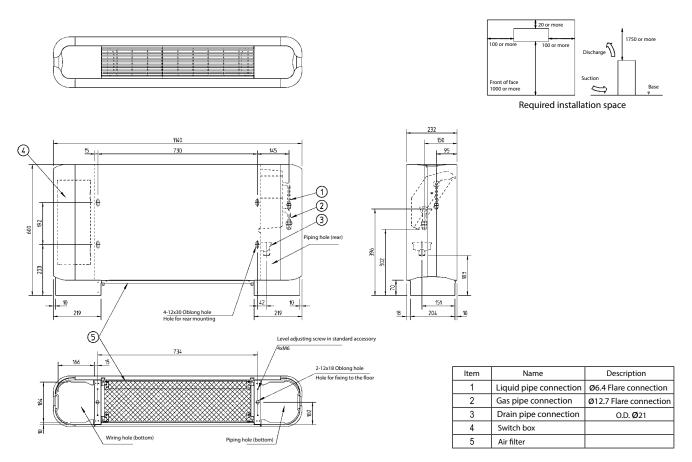




FXLQ20-25P

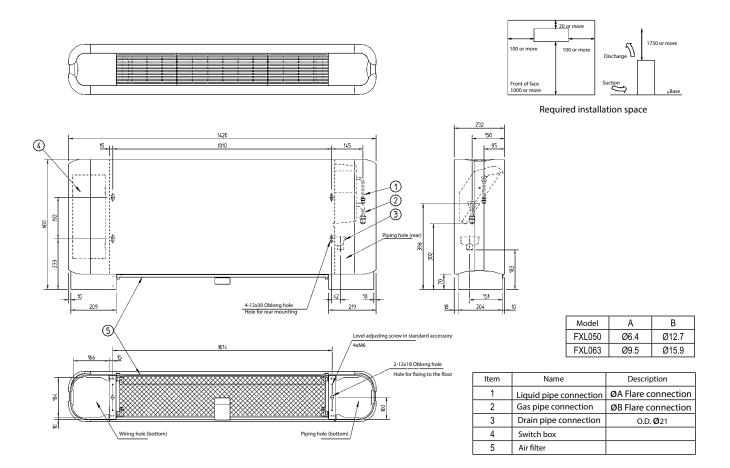


FXLQ32-40P



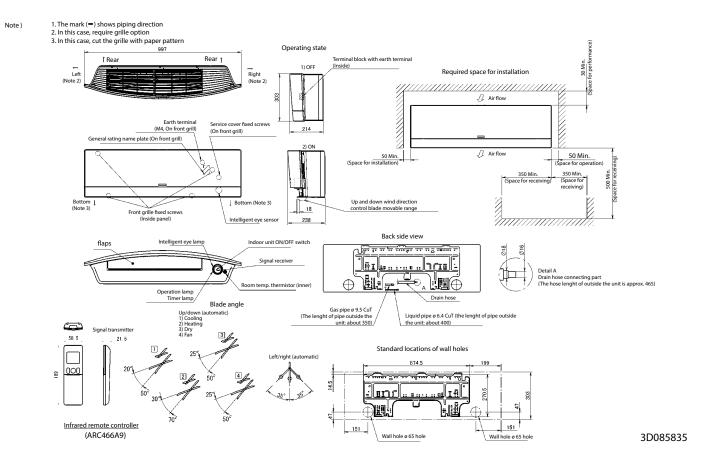


FXLQ50-63P

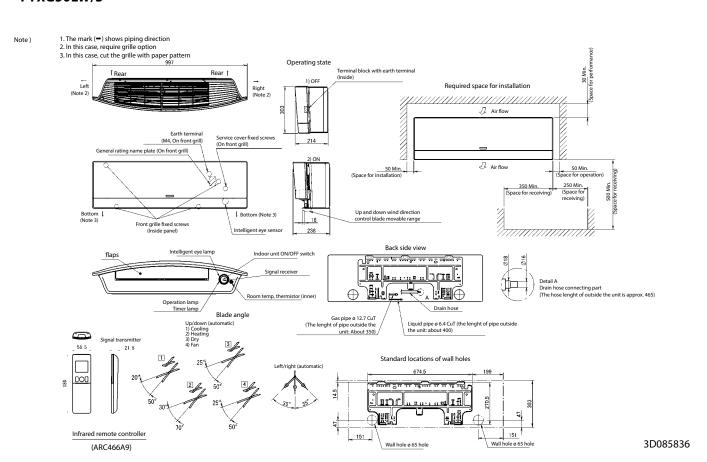


VIEW ALL FTXG-LW TECHNICAL DRAWINGS ON MY.DAIKIN.EU

FTXG20-35LW/S

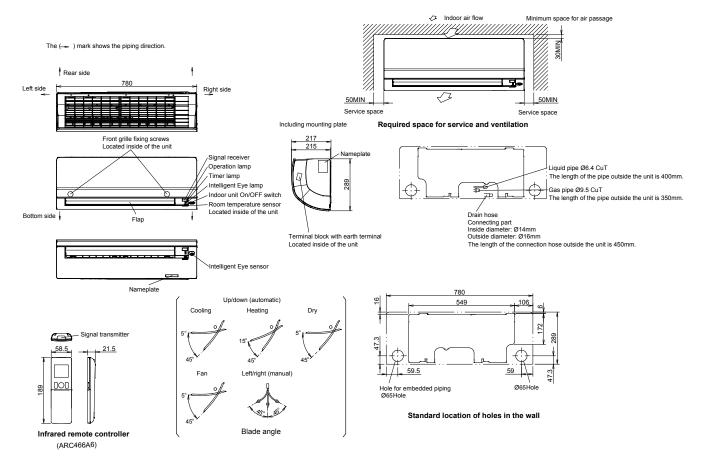


FTXG50LW/S



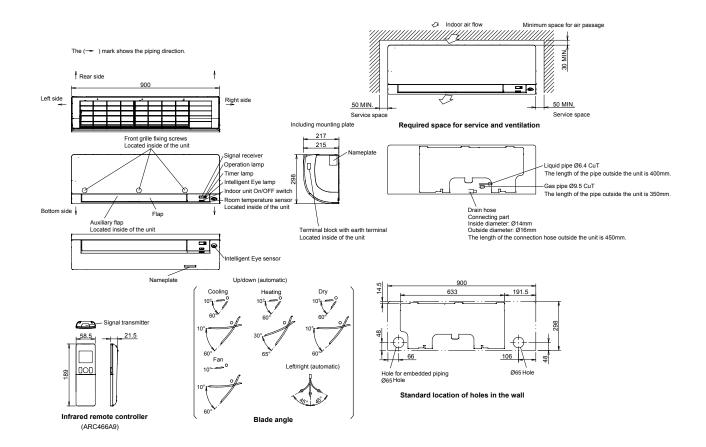


CTXS15-35K / FXTS20-25K

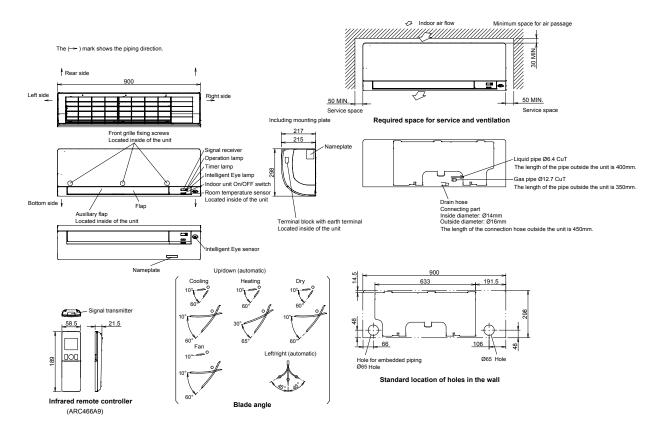


3D092255

FTXS35-42K

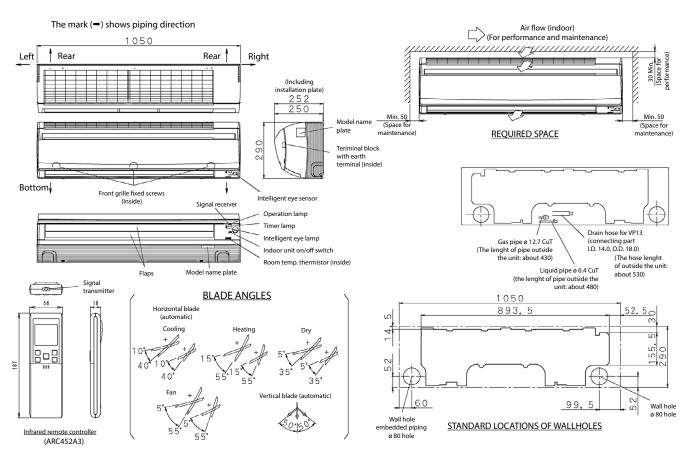


FTXS50K



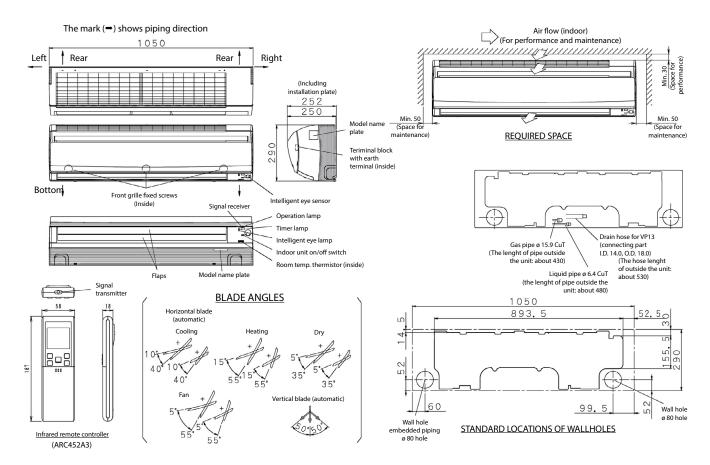
3D092257

FTXS60G



3D065514

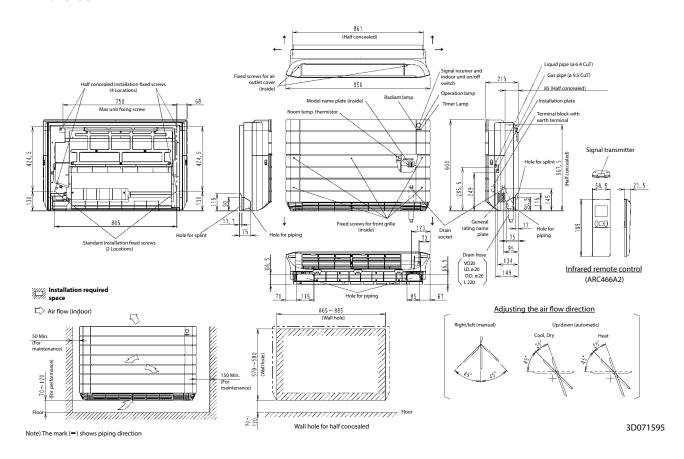
FTXS71G



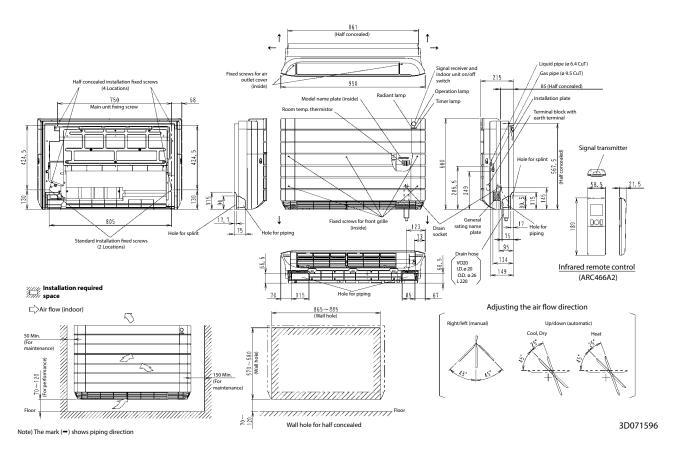
3D065515



FVXG25-35K

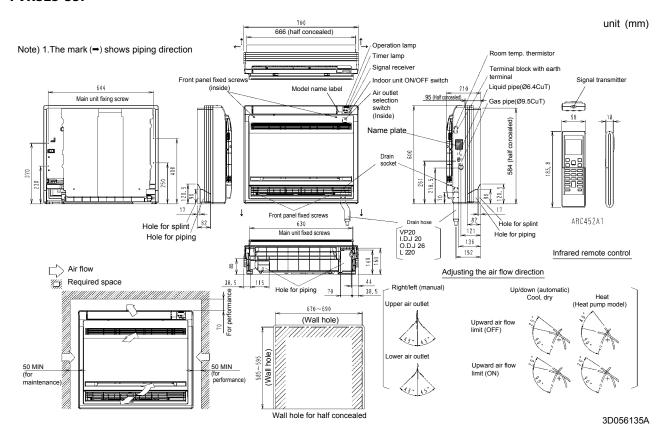


FVXG50K

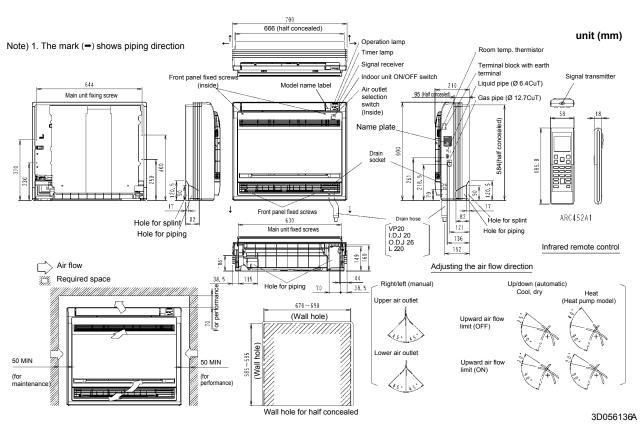




FVXS25-35F

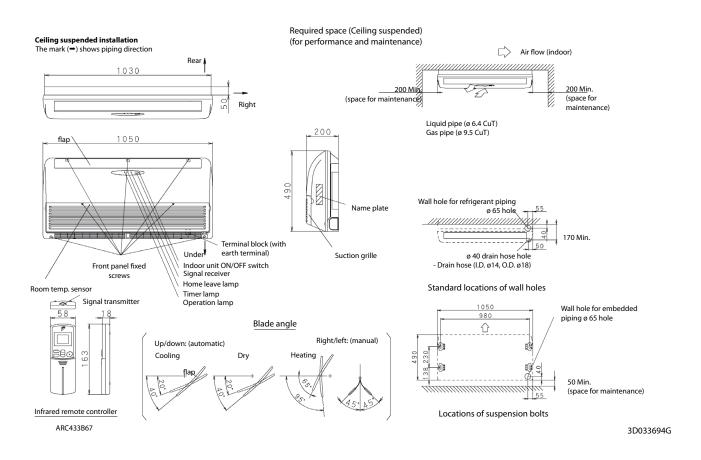


FVXS50F

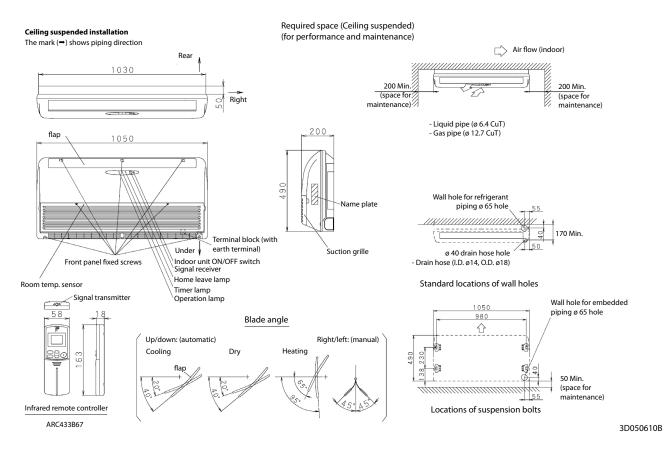




FLXS25-35B(9)

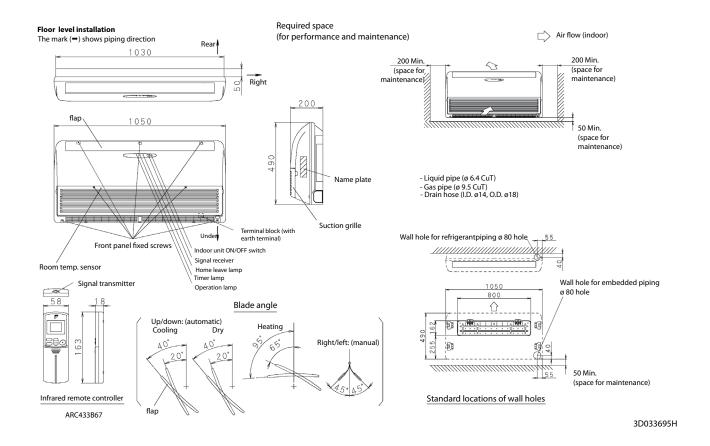


FLXS50-60B

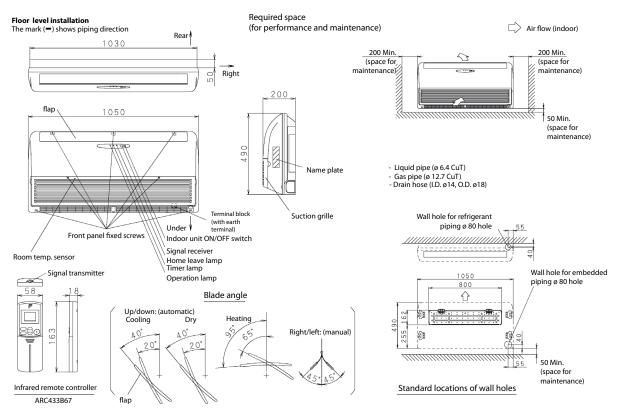




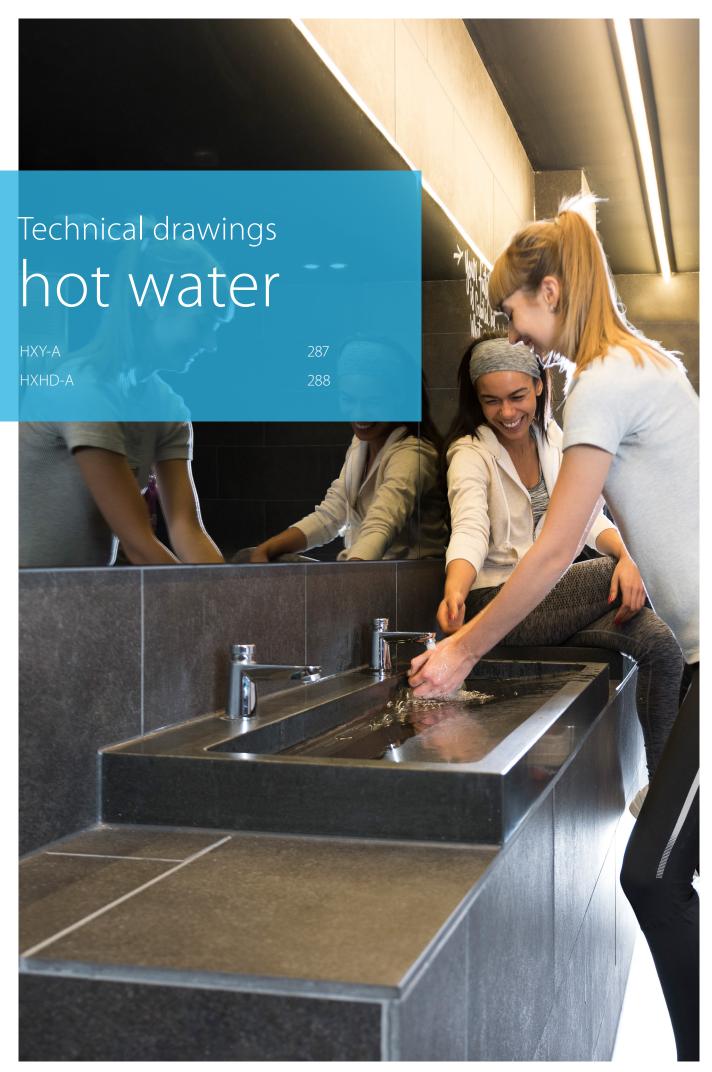
FLXS25-35B(9)



FLXS50-60B

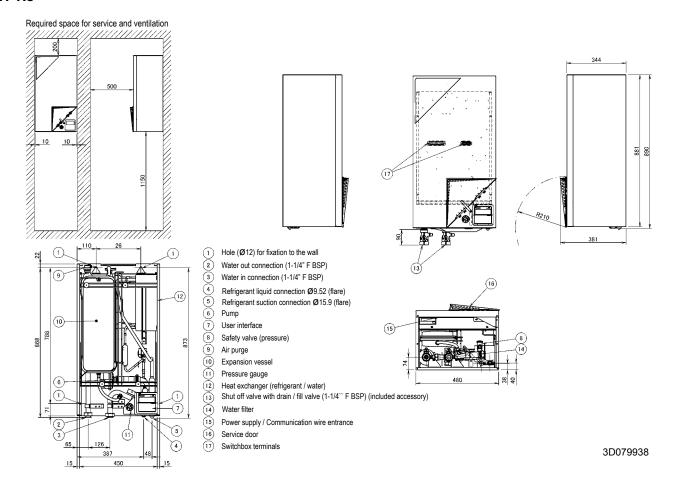


3D050615B

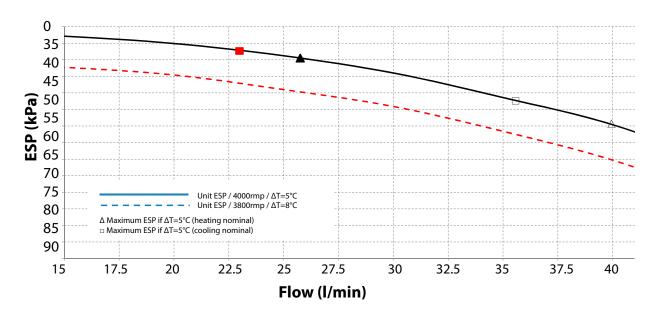




HXY-A8



HXY-A8

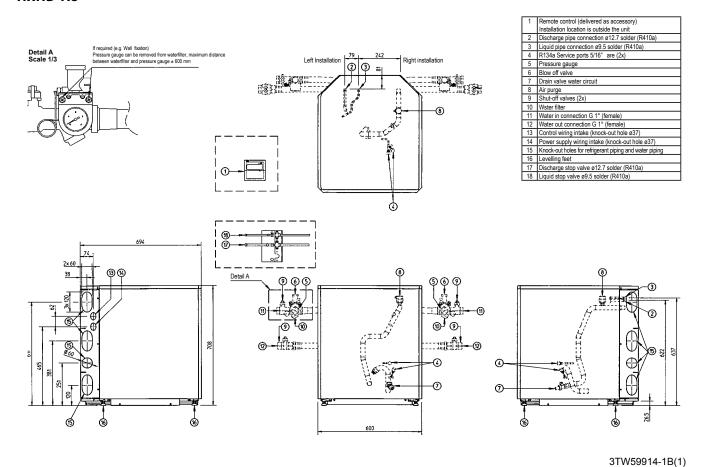


ESP: External Static Pressure Flow Water flow through the unit

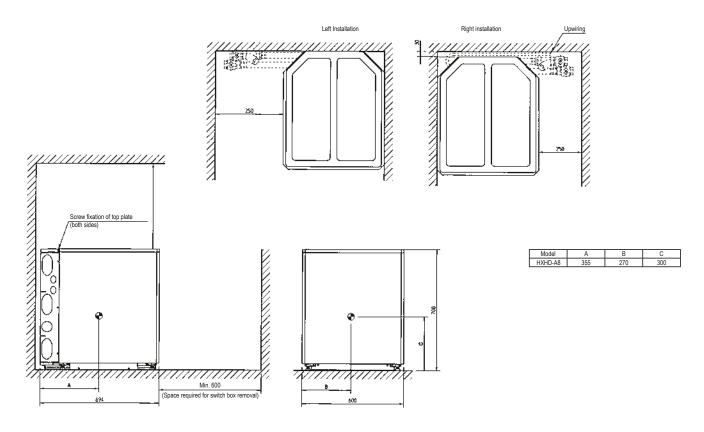
Notes

- 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.

HXHD-A8



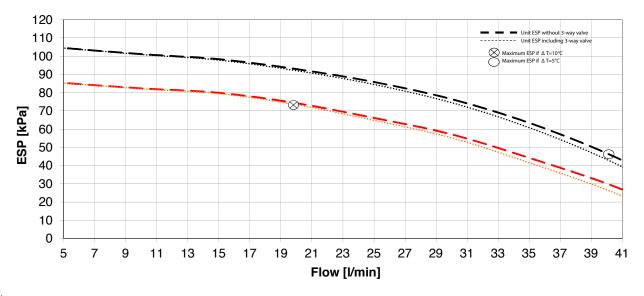
HXHD-A8



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).

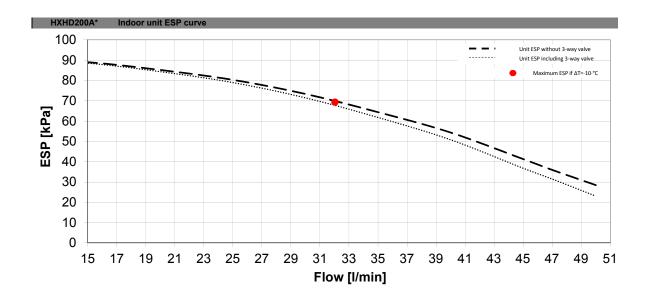
ESP: External Static Pressure Flow: water flow through the unit

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



- 3.

 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 \(\Delta \) 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).

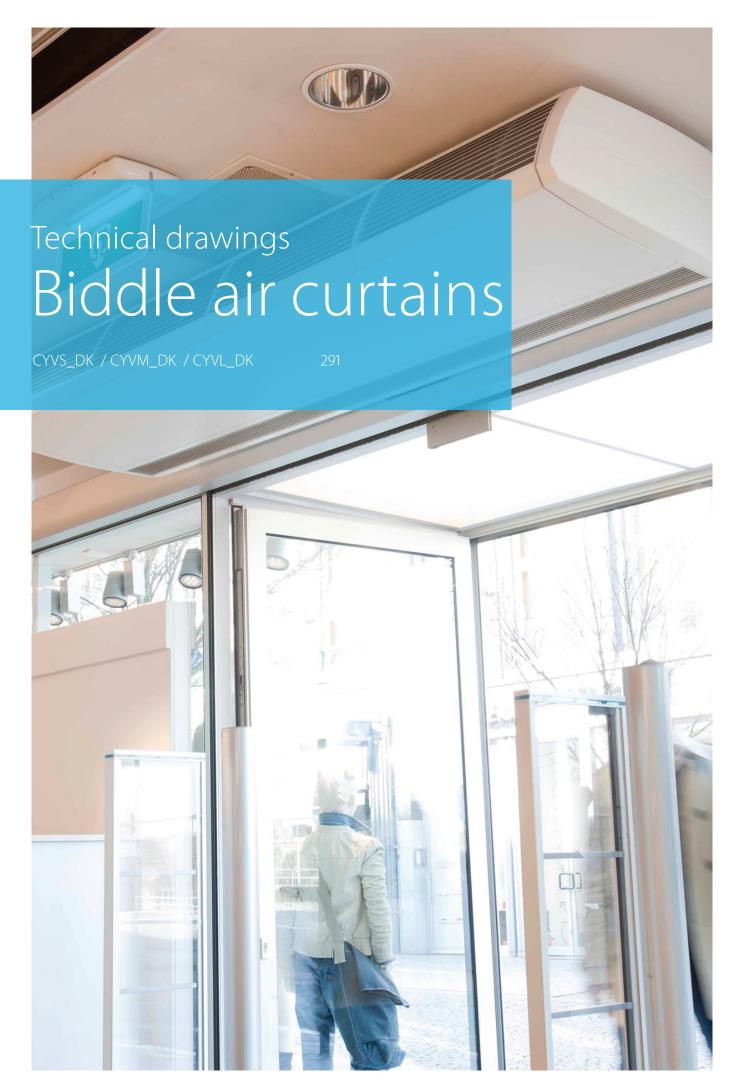
ESP: External Static Pressure Flow: water flow through the unit

Warning

1. Selecting a flow outside the operating area can damage the unit or cause the unit to malfunction.

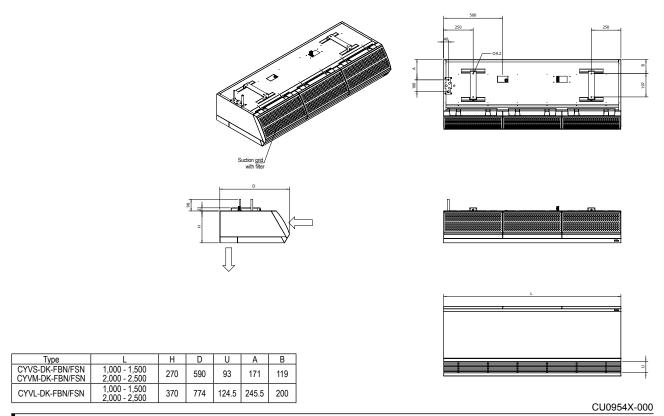
See also the minimum and maximum allowed water flow range in the technical specifications.

2. Water quality must be according to EU directive 98/83 EC.





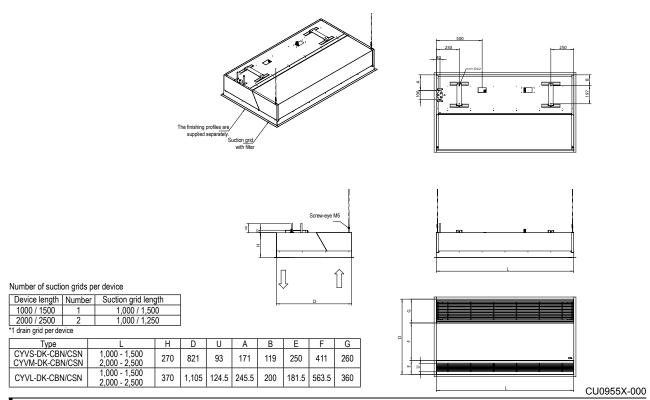
CYVS_DK_FBN/FSN / CYVM_DK_FBN/FSN / CYVL_DK_FBN/FSN



REMARKS

1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.

CYVS_DK_CBN/CSN / CYVM_DK_CBN/CSN / CYVL_DK_CBN/CSN

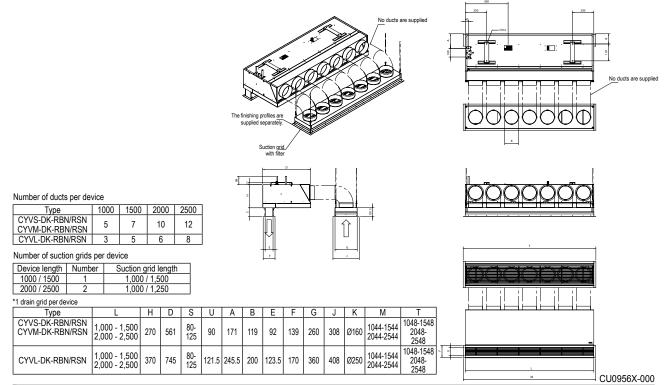


REMARKS

- 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



CYVS_DK_RBN/RSN / CYVM_DK_RBN/RSN / CYVL_DK_RBN/RSN

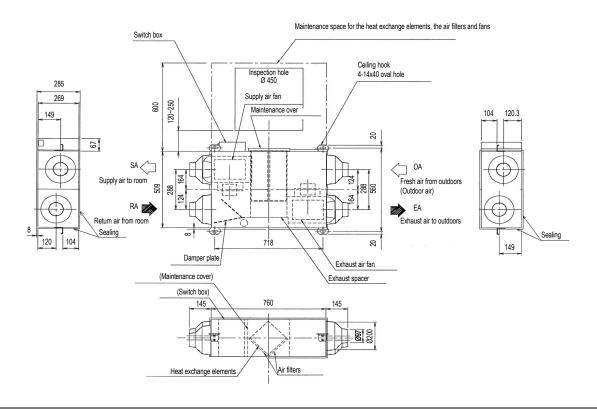


REMARKS

- 1 The 2,500mm large devices have 3 suspension brackets, where the third bracket is mounted at half the length of the device.
- 2 Holes (for finishing profiles) drain (L+8) x (E+8) mm suction (L+8) x (G+8) mm.



VAM150FC

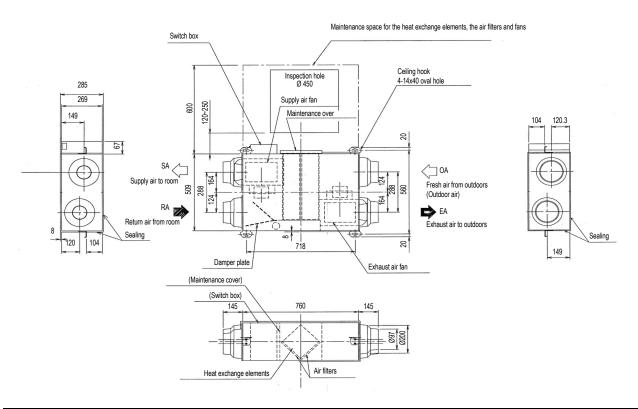


NOTE

1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27874-1

VAM250FC



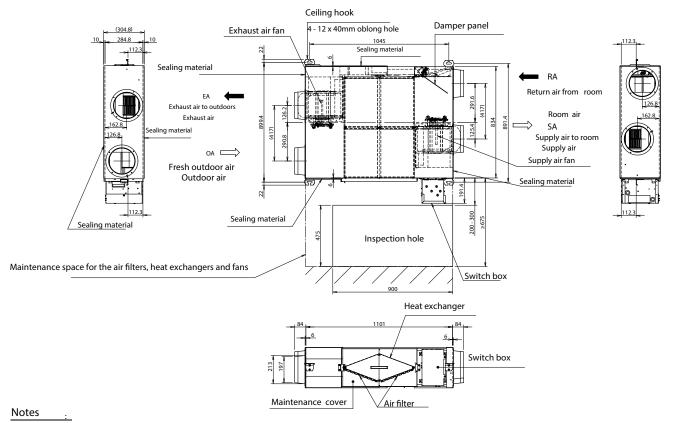
NOTE

1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27884-1



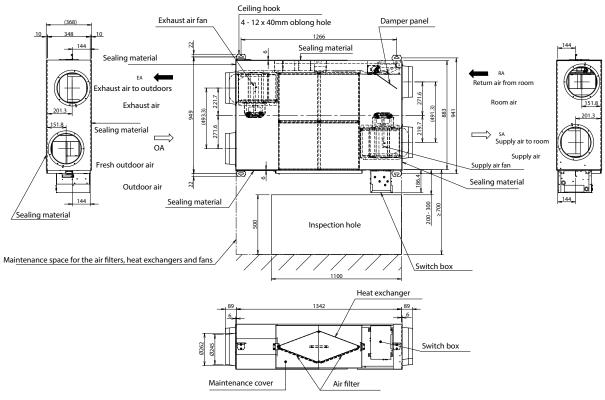
VAM350-500J



1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112815A

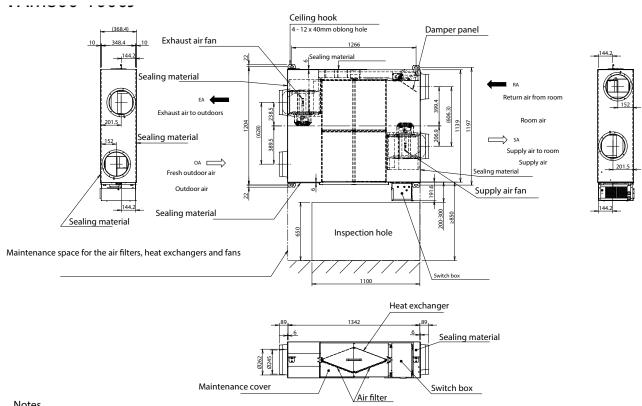
VAM650J



Notes

1.To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

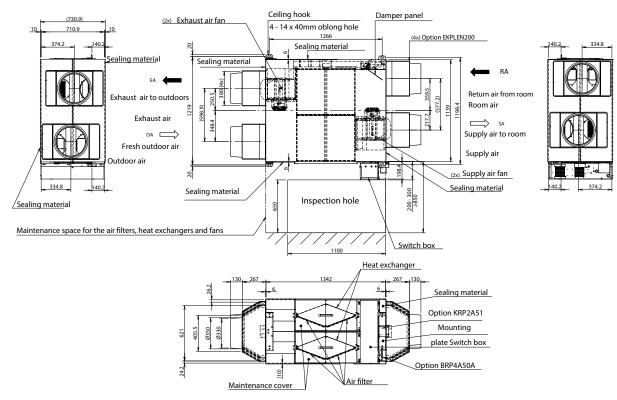
VAM800-1000J



1.To perform maintenance on the air filter, it is required to provide a service access panel.

3D112817B

VAM1500-2000J

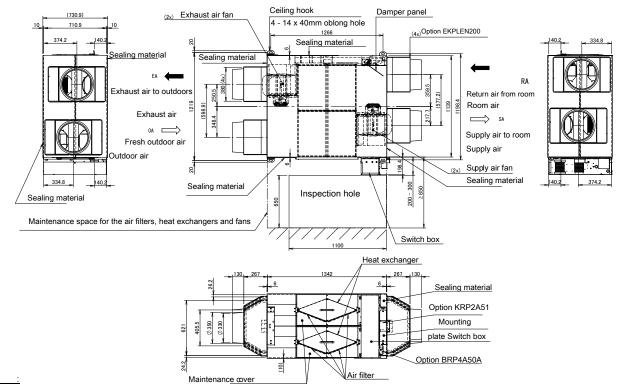


Notes:

1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112818A

VAM1500-2000J WITH PLENUMS

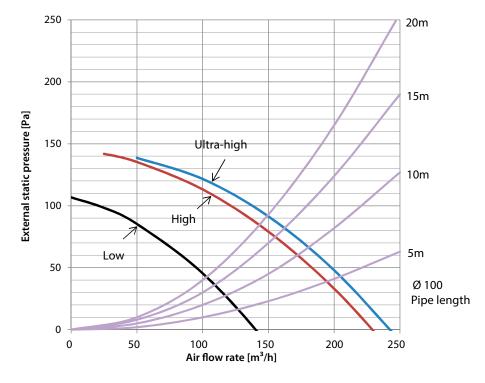


1. To allow for the inspection of the air filters, heat exchangers, and fans, be sure to provide the inspection hole.

3D112818A

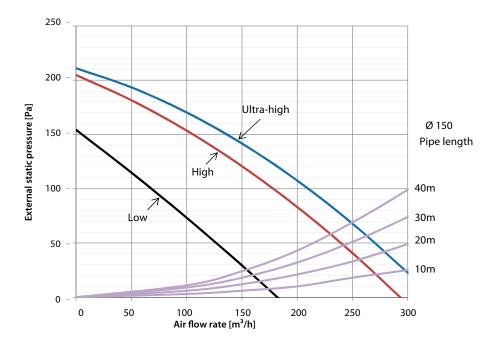
VAM150FC

Notes



Notes
1. The fan speeds are valid for ·230·V, ·50·Hz power supply.

VAM250FC

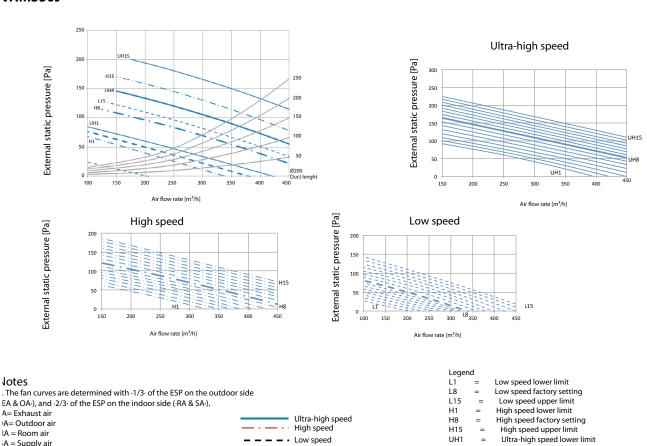


Notes

1. The fan speeds are valid for ·230·V, ·50·Hz power supply.

4D100380

VAM350J



Ultra-high speed factory setting Ultra-high speed upper limit

UH8

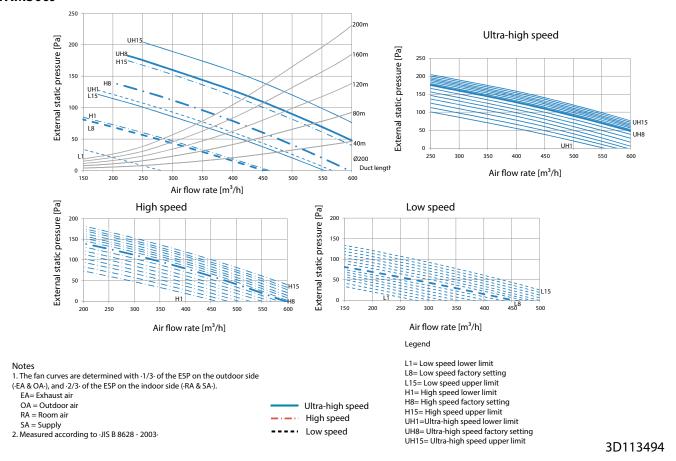
UH15

A = Supply air

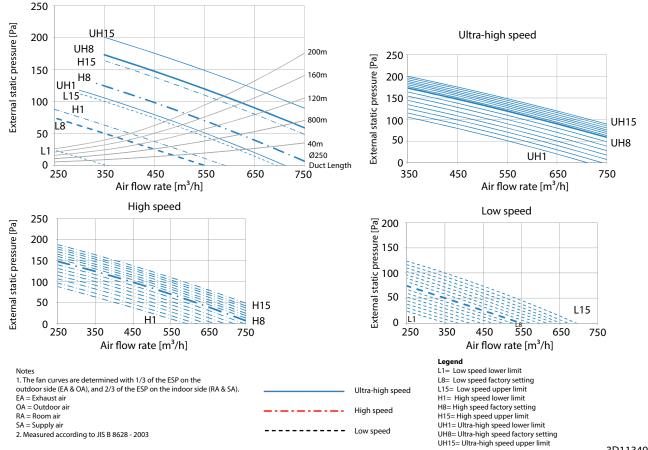
. Measured according to JIS B 8628 - 2003-



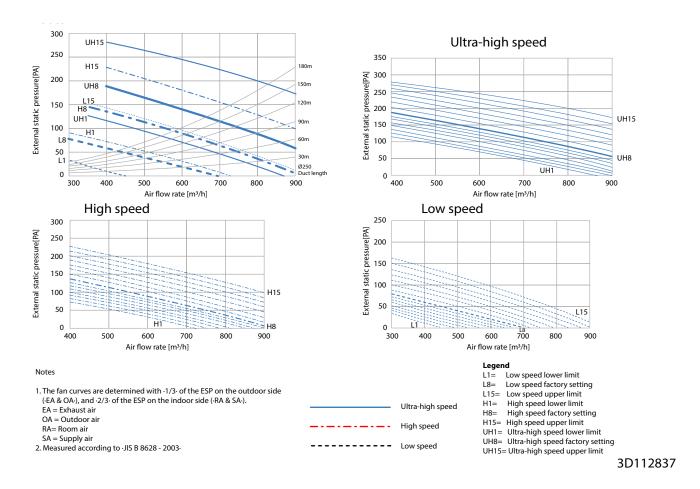
VAM500J



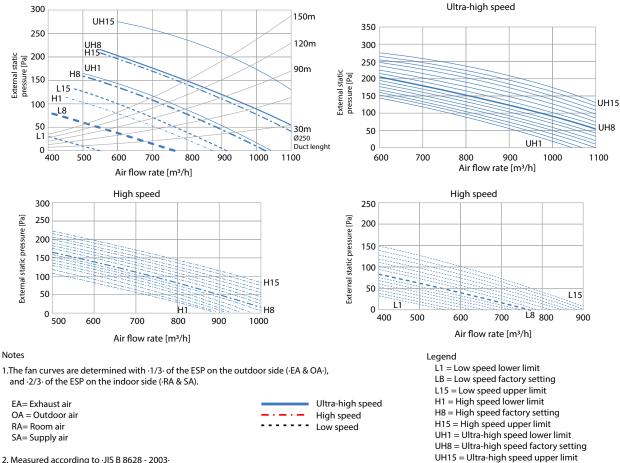
VAM650J



VAM800J



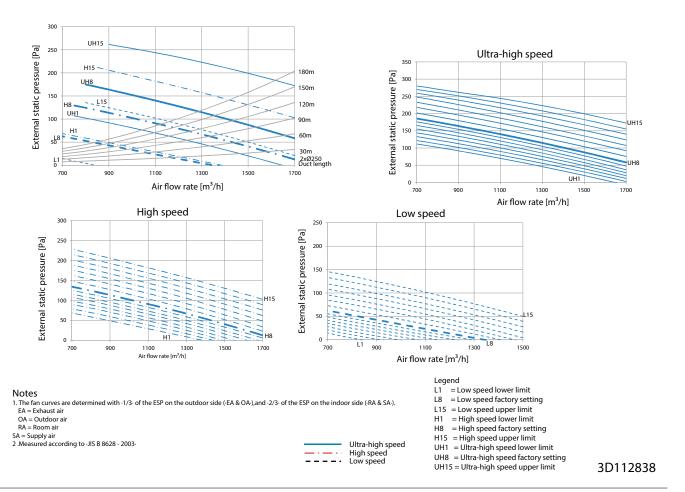
VAM1000J



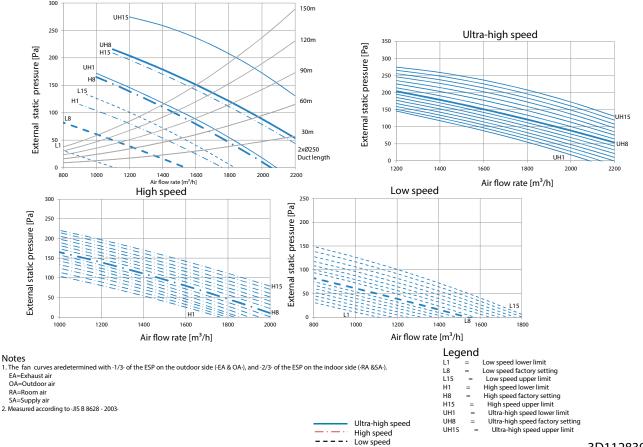
2. Measured according to JIS B 8628 - 2003-



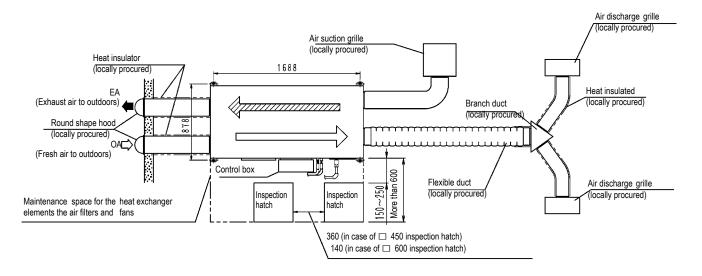
VAM1500J

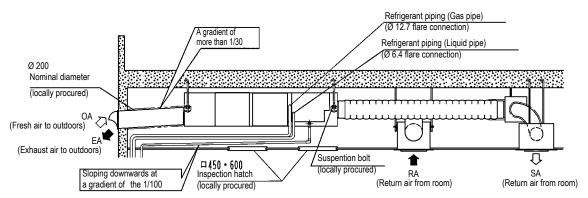


VAM2000J



VKM50GB



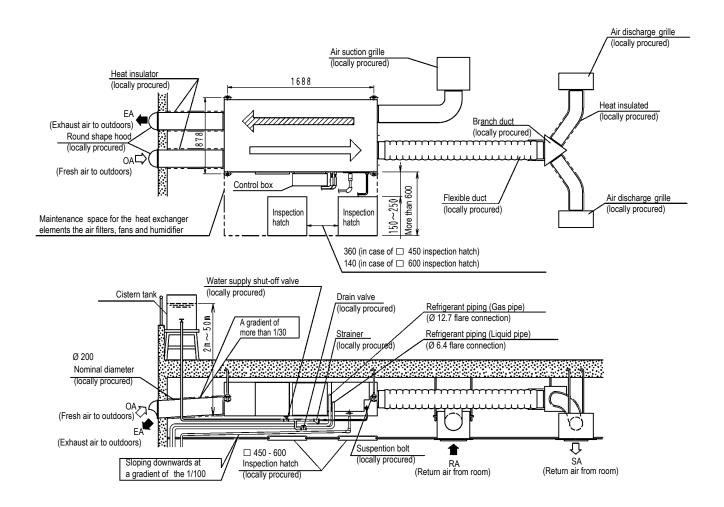


NOTES

- 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. Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- 5. Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 6. 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).
- 7. In areas where freezing may occur, always take steps to preventthe pipes from freezing.
- 8. 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.



VKM50GBM

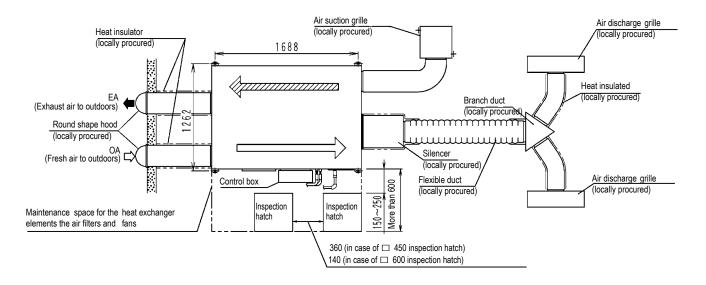


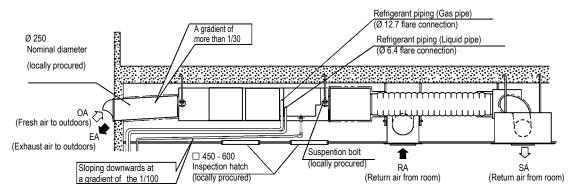
NOTES

- 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/cm² to 5 kg/cm²)
- 7. Make sure the supply water is between 5°C and 40°C in temperature.
- 8. Insulate the water supplypiping 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 umidifier will notdrop below 0°C.
- 12. Do not use a bent cap or a round hoodas 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.) 3D083011

VKM80GB





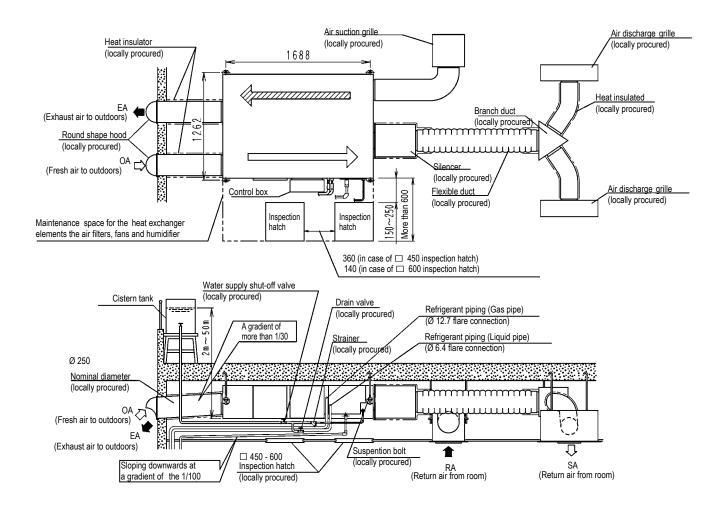
NOTES

- 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.
- Make sure to install drain piping, and insulate drain piping to prevent dew condensation.
- Keep the drain pipe short and sloping downwards at a gradient of at least 1/100 to prevent air from forming.
- 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).
- In areas where freezing may occur, always take steps to prevent the pipes from freezing.

 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.



VKM80GBM

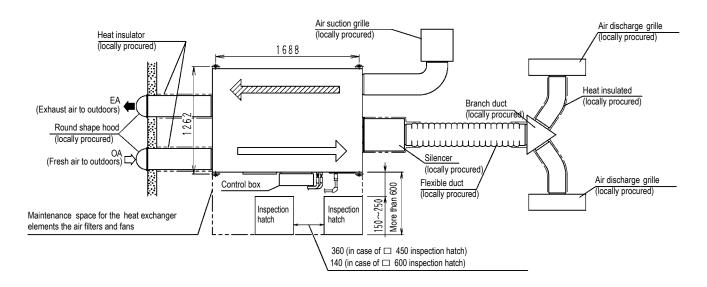


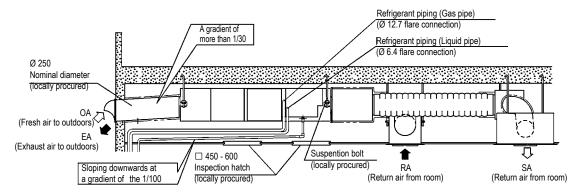
NOTES

- 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 easilybe 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.
- 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/cm² to 5 kg/cm²)
- Make sure the supply water is between 5°C and 40°C in temperature.
- 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 alocation where the air around the unit or taken into the umidifier will notdrop 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.)

VKM100GB

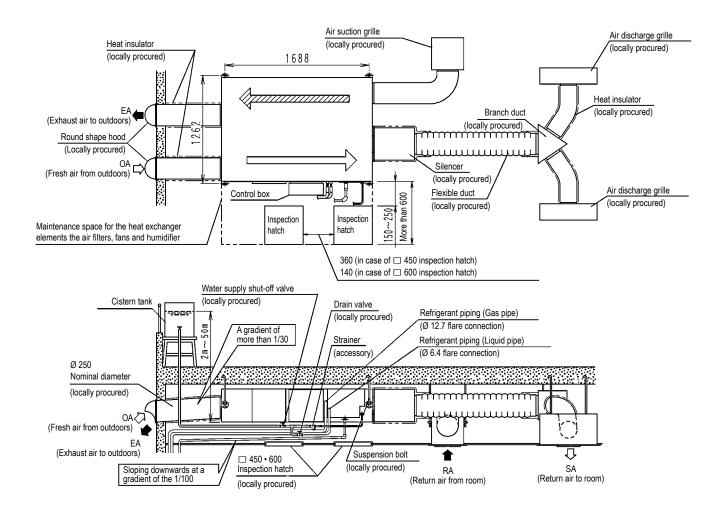




NOTES

- 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.)
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- 7. In areas where freezing may occur, always take steps to preventthe pipes from freezing.
- 8. 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.

VKM100GBM

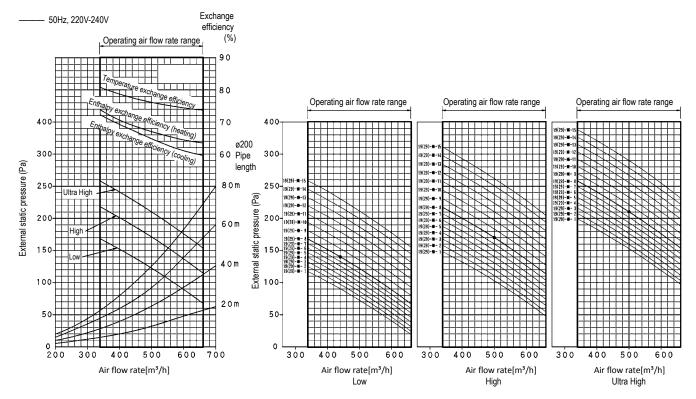


NOTES

- 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.
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- 6. Make sure the supply water 0.02MPa to 0.49MPa (0.2 kg/cm² to 5 kg/cm²)
- 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.)

VKM50GB

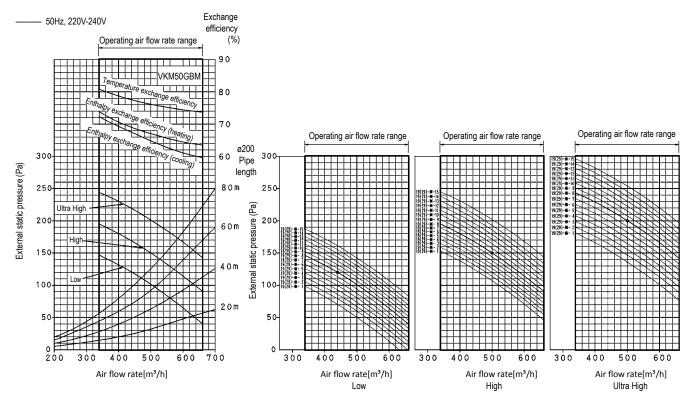


[Reading of Performance Characteristics]

- 1) For example: 19(29)-**※**-07 Mode no. : 19(29)
 - First code: ★ (Supply 「2」 Exhaust 「3」)
 Second code no.: 07
- Rated point: ●
- 3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082904

VKM50GBM

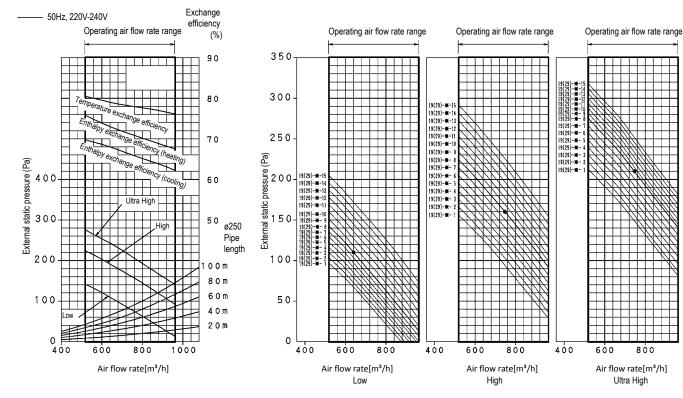


[Reading of Performance Characteristics]

1) For example: 19(29)- #-07 Mode no.: 19(29) First code: # (Supply [2] Exhaust [3]) Second code no.: 07

- 2) Rated point: ●
- 3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

VKM80GB



[Reading of Performance Characteristics]

1) For example: 19(29)-₩-07 Mode no.: 19(29)

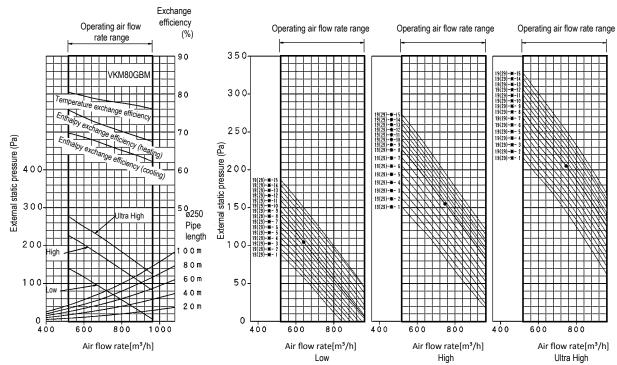
First code: ★ (Supply 「2」 Exhaust 「3」)
Second code no.: 07

- 2) Rated point: •
- 3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082905

VKM80GBM

- 50Hz, 220V-240V



[Reading of Performance Characteristics]

1) For example: 19(29)-₩-07 Mode no.: 19(29)

First code: ★ (Supply 「2」 Exhaust 「3」)

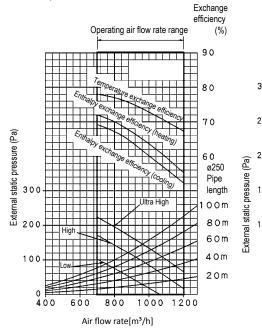
Second code no.: 07

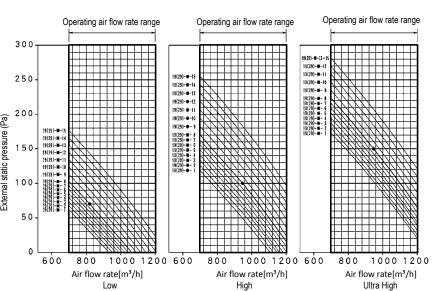
- 2) Rated point: •
- 3) The characteristic of each tap becomes a setup of the characteristic of the same code number.



VKM100GB







[Reading of Performance Characteristics]

1) For example: 19(29)-**※**-07 Mode no. : 19(29)

First code: ★ (Supply 「2」 Exhaust 「3」)

Second code no.: 07

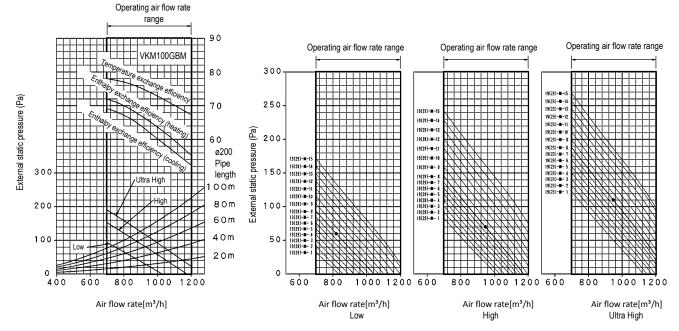
- 2) Rated point: •
- 3) The characteristic of each tap becomes a setup of the characteristic of the same code number.

3D082906

VKM100GBM

----- 50Hz, 220V-240V

Exchange efficiency



[Reading of Performance Characteristics]

1) 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.







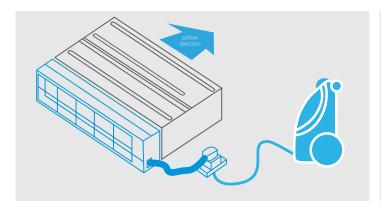
A unique success story repeated

- Reduced runningcosts
- Improved room air quality
- Minimal time required for filter cleaning
- Unique technology

UNIQUE Patents pending

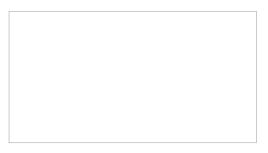
Flexibility to meet your needs

- 6 Predefined sizes
- Compliant with VDI 6022
- Exceeding ERP 2018 requirement
- Plug & Play Controls





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ECPEN18-200





Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate www.eurovent-certification.com

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