





Minimum running costs, maximum flexibility. Fast installation, top reliability, perfect comfort.









BLUEVOLUTION

VRV ready for the future



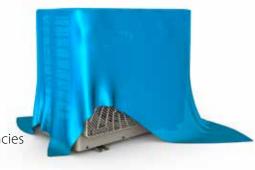


GWP Refrigerants Refrigerant Quantity

Striving to be the lowest CO₂ equivalent manufacturer

Introducing the next generation VRV

- > CO₂ equivalent reductions thanks to the use of lower GWP refrigerant
- > Breakthrough technologies reducing refrigerant charges
- > Facilitating circular economy of refrigerants, encouraing reuse
- > Achieve sustainabiliy over the entire lifecycle thanks to market leading efficiencies
- > To be launched in 2019







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

Table of contents

	VRV IV, sets the standard again	4	
	VRV IV+ standard & technologies	18	
	Benefits	26	
New VPIV	Outdoor units	36	
VRV IV+ series!	Indoor units	97	UNIQUE auto cleaning
	Hot water	132	nlter for concealed ceiling units
	Biddle Air Curtains	139	
	Ventilation and Air Handling	142	
	Control Systems	161	UNIQUE
	Options and Accessories	190	mini BMS
	Tools and platforms	202	





9 reasons why VRV is unique in the market



- > Variable Refrigerant Temperature for high seasonal efficiency
- > 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 1st HVAC-R manufacturer to achieve BES6001 certificates gaining additional BREEAM credits



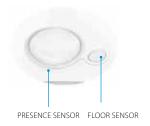






Comfort

- > Variable Refrigerant Temperature preventing cold draughts in cooling 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



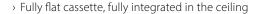




Reliability

- > True technical cooling
- > Refrigerant cooled PCB
- > Most extensive testing before new units leave the factory
- > Widest sales 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





NEW > Widest ever range of cassette panels

- Available in white and black
- Sleek designer panel range
- > Daikin Emura, unique iconic design



FULLY FLAT CASSETTE



DAIKIN FMURA

Controls

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









- > Easy integration in third party BMS via BACnet, LonWorks, Modbus, KNX
- > Dedicated control solutions for applications such as technical cooling, shops, hotels, ...
- NEW > Daikin Cloud Service offers services such as online control, energy monitoring, comparison of multiple sites and predictive maintenance for a long and trouble free operation





Installation

- > 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





Inventor

- > Market leader of VRV systems since 1982
- > Over 90 years of expertise in heat pump technology
- > Designed for and produced in Europe



Range

> Unique outdoor unit range, with dedicated series for different applications and climate conditions

Technology

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

VRV configurator

Software for simplified commissioning, configuration and customisation

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



VRV IV

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

What's new?







VRV IV+ series are available in heat recovery, heat pump, replacement and high ambient versions



Already fully compliant to LOT 21 - Tier 2

Increase of seasonal efficiency up to 23%!

- ✓ Measured with indoor units for real applications!
- ☑ ALL information for indoor units used available on our eco-design website:

https://energylabel.daikin.eu/eu/en_US/lot21.html



New scroll compressor with increased efficiencies at partial loads

Total solution

- ✓ Connects to ventilaton. hot water and Biddle air curtains
- ✓ Combines stylish with standard VRV indoor units

The known VRV IV standards



- ☑ Variable Refrigerant Temperature
- ✓ Continuous heating during defrost
- ✓ VRV configurator
- 4-side heat exchanger





VWV II





High heating capacity at low ambient temperatures

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



High reliability down to -25°C WB

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



Already fully compliant to LOT 21 - Tier 2

High partial load efficiency

- ☑ New vapour injection scroll compressor optimised for low part load
- ☑ Variable Refrigerant Temperature adjusts refrigerant temperature to match the load
- ✓ Measured with indoor units for real applications!

Total solution

- Connects to ventilaton, hot water and Biddle air curtains
- Combines stylish with standard VRV indoor units







The known VRV IV standards

- ✓ Variable Refrigerant Temperature
- ✓ VRV configurator







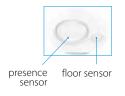
New round flow cassette



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



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



> Auto cleaning panels available in black and white





Auto cleaning filter

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

* Available as an option



Eco design directive for energy related products (ErP – ENER LOT21)

What is ENER LOT21?

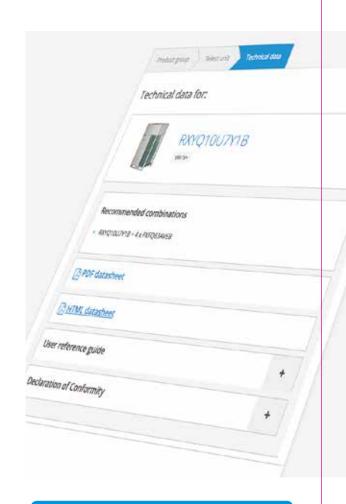
- Applicable for commercial heating and cooling products (including VRV)
- ☑ Goal is to reflect the seasonal efficiency thoughout the year, rather than the nominal efficiency that only occurs at peak load
- Sets minimum efficiency for performance targets on the actual year-round performance (cooling: $\eta_{rsc} = 133\%$; heating: $\eta_{rsb} = 181\%$)

How is the efficiency expressed?

- The seasonal efficiency of a system is calculated according to EN14825
- Expressed in "eta" values and % for cooling and heating operation: η_{rsc} and η_{rsh}
- Allows direct comparison of fossil fuel products with electrically-drive products

How to compare efficiencies?

- All efficiency data can be found on the free access website which each manufacturer has to make available
- EN14825 does not specify the indoor unit type and size, so please carefully check which unit is mentioned on the product fiche
- Daikin has chosen to test and list the most sold units to truly reflect the real life efficiency of the system, rather then selecting the largest units to achieve the highest possible theoretical efficiency



Visit our free access website https://www.daikin.eu/ seasonal-efficiency

User-friendly wired remote contoller with premium design









reddot award 2018





BRC1H519W/S/K(7)

- ✓ 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

Advanced user settings

Field settings

Find out more at page 164

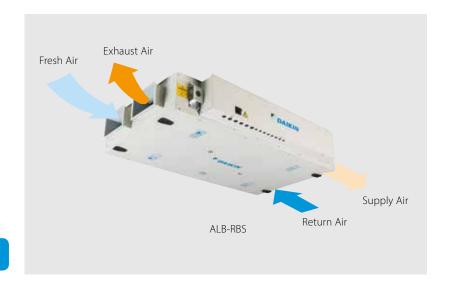
Modular L Smart:

Premium efficiency heat recovery fresh air unit

Highlights

- Smart series connect plug&play in the Sky Air or VRV control network
- ☑ Directly available from stock
- ✓ Wide air flow coverage from 150m3/h to 3,450m3/h
- Solution for ducted installation (maximum ESP available: 600 Pa)
- ✓ High efficiency counter flow aluminium heat exchanger (up to 93%)
- ☑ Up to F7 (ePM1 50%) + F9 (ePM1 80%) filtration level

find out more at page 148



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

Visit the minisite http://www.daikineurope.com/minisite/sustainability/index.jsp

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



World's first HVAC-R manufacturer to receive BES certificate

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



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







- > "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:



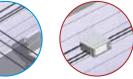
Outdoor unit



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:



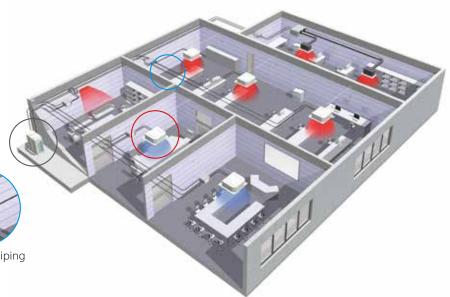
Outdoor unit



Indoor unit



Refrigerant piping



Water Cooled

- Suitable for high rise and large buildings because of the nearly unlimited possibilities of water piping
- > Not affected by outdoor temperature/climate
- > 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



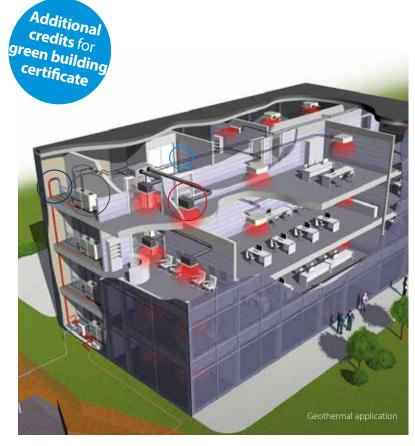
Refrigerant piping



Outdoor unit



(Geothermal) water loop



Which applications?



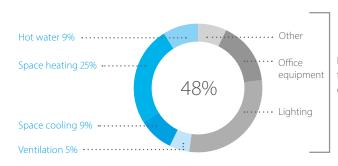
Typically, many buildings today rely on several separate systems for heating, cooling, air curtain heating and hot water. As a result energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into a total solution managing up to 70% of a buildings energy consumption 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, ... via VRV heat recovery or Sky Air units
- > **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 hot water



- > 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 hot water



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

Fresh air



- > 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/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 to minimise external space or noise in city centres
- > 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 runningcost 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.

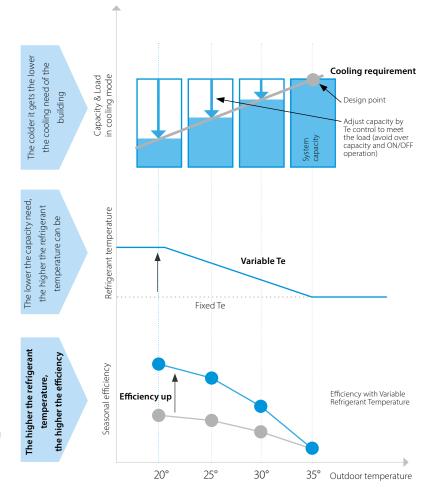
The capacity is controlled by the inverter compressor and variation of the evaporating (Te) and condensing (Tc) temperature of the refrigerant in order to achieve the highest seasonal efficiency.

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	svstem	

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 speed	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
- The state of the s
- 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.

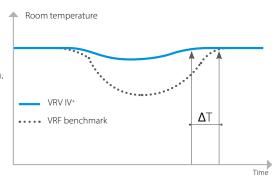
- Continuous indoor comfort ensured by the heat accumulating element and alternate defrost
- > An innovative alternative to traditional heating systems





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.

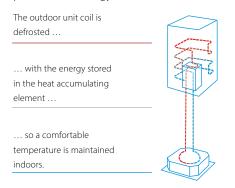
Defrosting can take over 10 minutes (depending on the size of the system) and occurs mostly between -7 and +7°C when humidity levels in the air are high. Humidity freezes on the coil, resulting firstly in poor performance and eventually low comfort levels. The VRV IV+ has changed the heating paradigm 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.

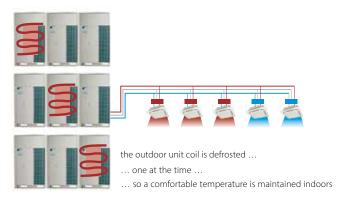


Available on:

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
RYYQ16-54U	REYQ10-54U	RXYQQ16-42U
		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

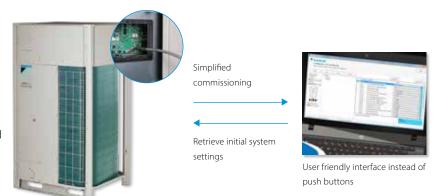




Configurator software for simplified commissioning

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-U	RYYQ-U	RXYQQ-U
	RXYQ-U	
	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



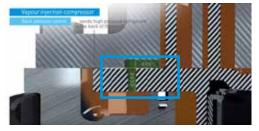
NEW Scroll compressor

Back pressure control UNIQUE

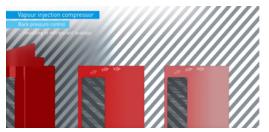
- > Pressure port increases pressure below the scroll in low load operation, preventing refrigerant leak from the high to low pressure side
- > Increased partial load efficiency



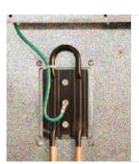




The back pressure control port sends high pressure refrigerant to the back of the scroll, preventing refrigerant leakage



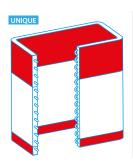
Refrigerant leak at low load with conventional compressor



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%

patents



4-sided, 3-row heat exchanger

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

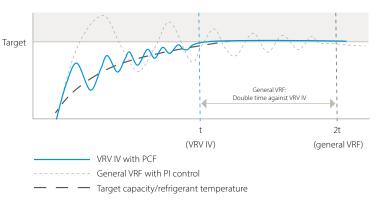


UNIQUE

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

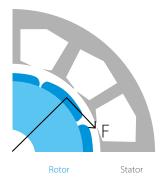
Sine wave DC inverter

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

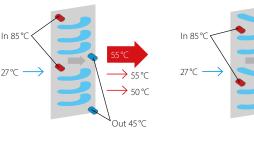
E-Pass heat exchanger

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.

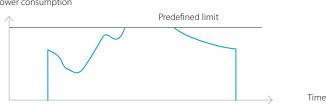
I-demand function

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



Power consumption





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	28
Comfort guaranteed at all times	30
Great design flexibility	32
Fast installation and commissioning	34

- 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.

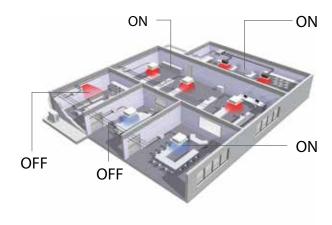
The provision of rust proof steel sheet on the underside of the unit gives additional protection.

Performed tests:

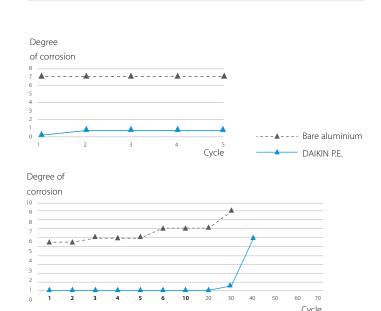
- > VDA Wechseltest
- > Contents of 1 cycle (7 days):
- > 24 hours salt spray test SS DIN 50021
- > 96 hours humidity cycle test KFW DIN 50017
- y 48 hours room temperature & room humidity testing period: 5 cycles

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

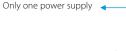
All flange and flare connections inside the unit have been replaced by brazing connections to ensure improved refrigerant containment. Also the connection of the outdoor in the main pipe is brazed.

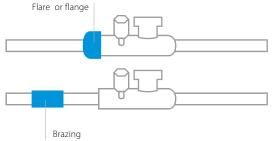












Comfort guaranteed at all times

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.

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

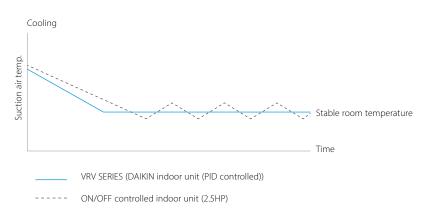
During defrost

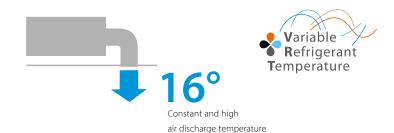
- Indoor comfort not effected via the unique heat accumulating element or alternate defrost
- > The best alternative to traditional heating systems

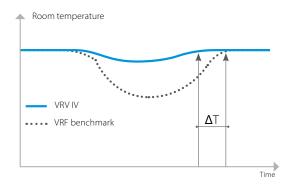
Available on REYQ-U, RYYQ-U, RXYQ-U and RXYQQ-U

Back-up function

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









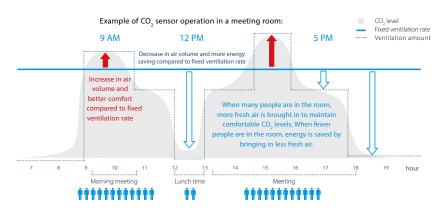
Single outdoor unit with multiple compressors



Multi outdoor unit system

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:



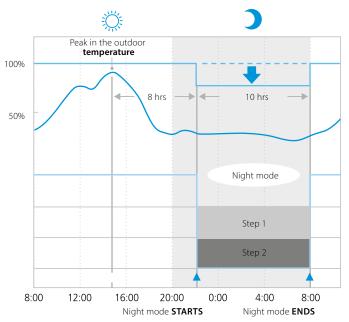


Night quiet mode

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.



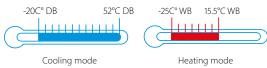
Example for VRV IV heat pump, factory setting.

Great design flexibility

Wide operation range

Air cooled

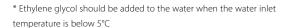
The VRV system can be installed practically anywhere. VRV air cooled outdoor units can cool between -20°C BD and +52°C DB outdoor ambient and can be used as monovalent heating system between -25°C WB and +15.5°C WB.

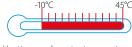


With the technical cooling function, the operation range in cooling of the heat recovery system is extended from -5°C to -20°C 1 , making it perfect for integrating server rooms.

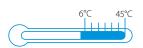
Water cooled

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

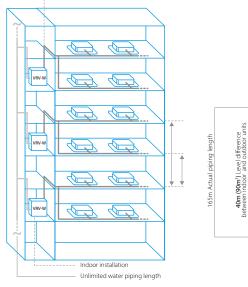


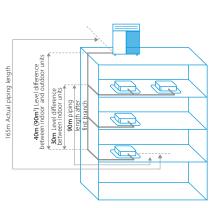
Cooling mode water temperature

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.

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





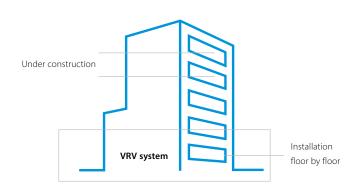
VRV IV example

	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.



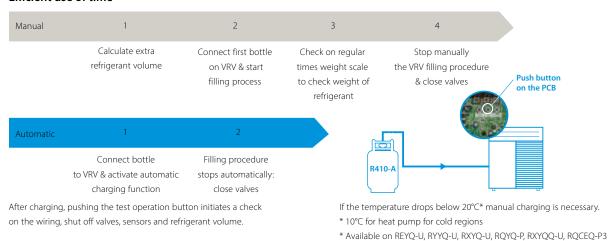
max. 398kg for a 20HP unit

Fast installation and commissioning

Easy servicing

Automatic charging & testing

Efficient use of time



Optimal charge = optimal efficiency



Compliance to F-gas regulation

required in reality

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

VRV configurator software

For simplified commissioning, configuration and customisation

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





User friendly interface instead of push buttons

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

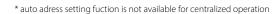
- > Easy retrofit of centralised remote control
- > Impossible to make incorrect connections thanks to non polarity wiring
- > Sheated wire can be used
- > Unique total wiring length up to 2,000 m

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.







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 III Heat recovery	Replacement VRV IV* heat pump	VRV IV W*series
	REYQ-U	RYYQ-U	RXYQ-U	RXYSCQ-TV1 RXYSQ-T8V RXYSQ-T8Y RXYSQ-TY1	SB.RKXYQ-T (8)	RXYLQ-T	RQCEQ-P3	RQYQ-P RXYQQ-U	RWEYQ-T9
Page	42	50	50	56	64	73	79	79	84
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)	×	•	×	×	•
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 **JRJ**

	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 AN	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 B5 boxes on the market	REYQ-U 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 Connectable to stylish indoor units (Daikin Emura, Nexura) Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-U YRY IV *				•	•	•		•	•	•	•	•	•	•	•	•
	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	RXYQ-U VRV IV +				•	•	•		•	•	•	•	•	•	•	•	•
dwnd	VRVIV-S series Compact	Variable Refrigerant temperature 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	RXYSCQ-TV1 VRV IV S -series Compact	•	•														
Air cooled - heat pump	VRVIV-S series	temperature 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 T8Y/ TY1	•	•	•	•	•	•	+			+	+					
	VRV IVheat pump for indoor installation	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 1-series		•		•												
	VRV IV heat pump, Z 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	RXYLQ-T VRY IV C*series					•	•		•	•	•	•	•	•	•	•	•
lent	heat recovery	Quick & quality replacement for R-22 and R-407C systems > Cost-effective and fast replacement through re-use of exisiting piping > Dirastically improve your comfort, efficiency and reliability > No interuption of daily business while replacing your system > Replace Daikin and other manufacturers systems safely	RQCEQ-P3 VRVIII Q					•		•		•	•	•	•	•	•	•	•
Replacement	NEW heat pump	Quick & 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-U VRV IV Q [†] serie		•		•	•	•		•	•	•	•	•	•	•	•	•
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 (Dalkin Emura, Nexura 2 analogue input signals allowing external control	RWEYQ-T9* **********************************				•	•	•		•	•	•	•	•	•	•	•	•

32	34	36	38	40	42	44	46		pacit			Description / Combination	VRV indoor units	Residential indoor units	LT Hydrobox HXY-A	HT Hydrobox HXHD-A	HRV units VAM-, VKM-	AHU connection EKEXV-+ EKEQMCBA	AHU connection EKEXV- + EKEQFCBA	Air curtains CYV-DK-	Remarks
												VRV IV+ Heat Recovery REYQ-T	0	x	0	0	0	0	x	0	> Standard total system connection ratio limit: 50 ~ 130%
												with only VRV indoor units	✓								
												with LT/HT Hydroboxes	✓		√	√	√				Max 32 indoor units, even on 16HP and larger systems Total system connection ratio with HT hydroboxes up to 200% possible
												HRV units VAM-, VKM-	√		√	✓	✓	√		√	
	•			•	•	•	•	•	•	•		AHU connection EKEXV + EKEQMCB	A 🗸				√	✓		√	 Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is allways neccessary
												Biddle air curtain CYV-DK-	\ \ \				· ✓	, ✓		<u>·</u>	> Total system connection ratio with AHU is 50 ~ 110%
											-			0	_	x			$\overline{}$		
												with only VRV indoor units	O ✓	0	0	X	0	0	0	0	Standard total system connection ratio limit: 50 ~ 130% 200% total system connection ratio possible under special circumstances
											\vdash		\ \	✓							> Only single-module systems (RYYQ 8~20 T / RXYQ 8~20 T)
•	•	•	•	•	•	•	•	•	•	•	•	with residential indoor units	-	V			√				Max 32 indoor units, even on 16HP, 18HP and 20HP systems Connection ratio: 80 ~ 130%
ļļ									ļ	ļ	ļ.,	with LT Hydroboxes	√		✓		✓				Max 32 indoor units, even on 16HP and larger systems Contact Daikin in case of multi-module systems (>20HP)
												HRV units VAM-, VKM-	✓	✓	✓		✓	✓		✓	
												AHU connection EKEXV + EKEQMCB	4 🗸				✓	✓		✓	> Total system connection ratio with AHU is 50 ~ 110%
												AHU connection EKEXV + EKEQFCB	4						✓		
•	•	•	•	•	•	•	•	•	•	•	•	Biddle air curtain CYV-DK-	✓				✓	✓		✓	
												VRV IV-S RXYSQ-/RXYSCQ-	0	0	×	×	0	0	×	0	> Standard total system connection ratio limit: 50 ~ 130%
												with VRV indoor units only	✓				✓	✓		✓	
												with residential indoor units only		✓							> With residential indoor: connection ratio limit: 80 ~ 130%
												VRV IV i series SB.RKXYQ-T(8)	✓	×	×	×	✓	✓	×	✓	> Standard total system connection ratio limit: 50 ~ 130%
												VRV IV-C+ series RXYLQ-T	0	0	0	×	0	0	0	0	> Standard total system connection ratio limit: 70 ~ 130%
												with VRV indoor units only	✓				✓			√	
	•	•	•									with residential indoor units only		✓							> With residential indoor: connection ratio limit: 80 ~ 130%
	•											with LT hydroboxes	✓		✓		✓				> Max. 32 indoor units, contact Daikin in case of multi-module systems (> 14HP)
												AHU connection EKEXV + EKEQMCBA	_				✓	✓		✓	> Total system connection ratio is 70~110%
												AHU connection EKEXV + EKEQFCBA	√						√		> With AHU only connection ration is 90~110%
												VRV III-Q+ series Replacement H/R RQCEQ-P3	✓	x	x	x	✓	x	x	x	> Standard total system connection ratio limit: 50 – 130%
•	•	•	•	•	•							VRV IV-Q Replacement H/P RXYQQ-T	✓	×	×	×	✓	✓	×	✓	Standard total system connection ratio limit: 50 – 130%
											Ť	VRV IV-W+ series Water-cooled VRV	0	0	×	0	0	0	0	0	> Standard total system connection ratio limit: 50 ~ 130%
												RWEYQ-T9 with VRV indoor units	✓			√	√	√	✓	√	
													٠.	/		•		_	•	•	> Only single-module systems (RWEYQ8-14T9) > Max 32 indoor units Connection ratio: 80 ~ 130%
					_							with split indoor units	V	√			√				Connection ratio: 80 ~ 130% only in heat pump version
	•		•	•	•							with HT hydrobox	✓ ✓			✓		√			> Total system connection ratio with AHU + X indoor is 50 ~ 110%
												AHU connection						٧			> Total system connection ration with AHU only is 90~110%

 $[{]f O}_-$ connection of indoor unit possible, but not neccessarily simultaneously with other allowed indoor units ${f v}_-$ connection of indoor unit possible even simultaneously with other checked units in the same row ${f x}_-$ connection of indoor not possible on this outdoor unit system



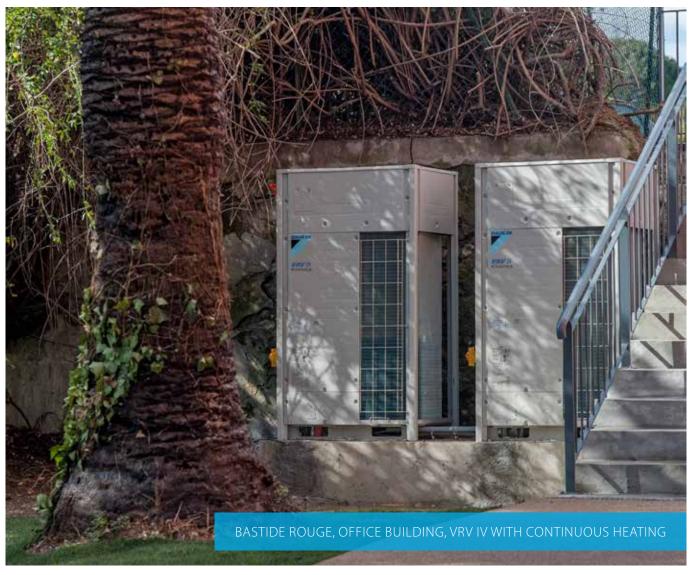












VRV IV+ heat recovery

Best efficiency and comfort solution





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

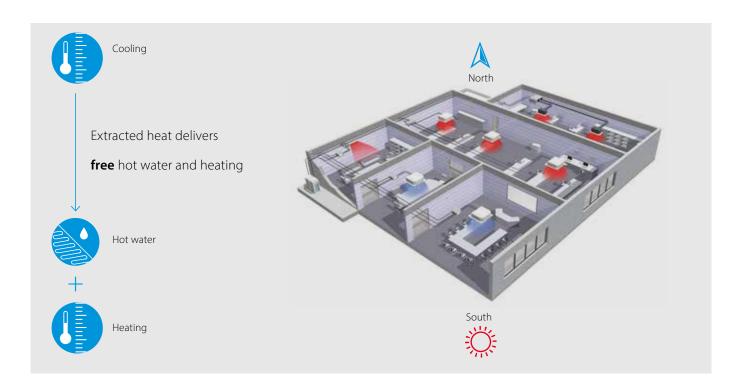
Continuous heating

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

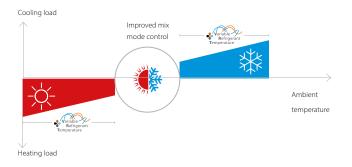
VRV IV heat recovery has a standard operation range down to -20°CWB in heating.

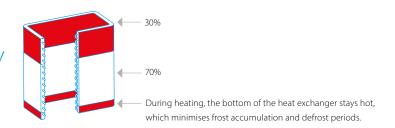
It can also provide cooling down to -20°CDB for technical server rooms Via field settings and specific system design.

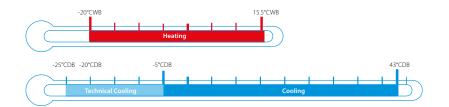
Maximum comfort

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.







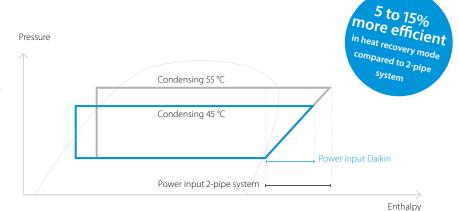
Advantages

of 3-pipe technology

More "free" heat

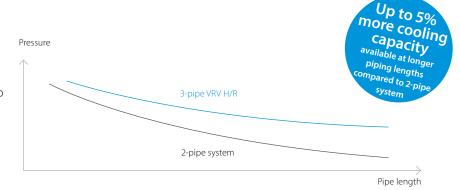
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

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

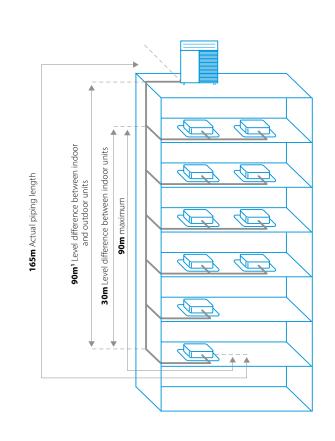
Freely combine outdoor units

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

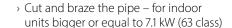
- > Unique to the market
- > Compact and light to install
- > No drain piping needed
- > Ideal for remote rooms
- > Technical cooling function
- > Connect up to 250 class unit (28 kW)
- > Allows multi-tenant applications

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

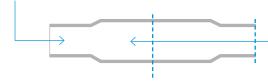
Faster installation thanks to open connection

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



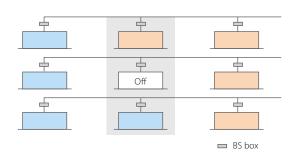






Maximum comfort at all times

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
- > Outdoor unit display for quick on-site settings and



easy read out of errors together with the indication of service parameters for checking basic functions.

- Free combination of outdoor units to meet installation space or efficiency requirements
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 1,000m
- Possibility to extend the operation range in cooling down to -20°C for technical cooling operation such as server rooms
- > Contains all standard VRV features



Already fully compliant to LOT 21 - Tier 2



Access all technical information on REYQ-U at my.daikin.eu or click here

Published data with real-life indoor units

Outdoor unit			REYQ	8U		10U	12	IJ	14U	1	6U	18U		20U
Capacity range			HP	8		10	12	2	14		16	18		20
Cooling capacity	Prated,c		kW	22.4		28.0	33.	5	40.0		5.0	50.4		52.0
Heating capacity	Prated,h		kW	13.7		16.0	18.		20.6	2	3.2	27.9		31.0
	Max.	6°CWB	kW	25.0		31.5	37.	5	45.0	5	0.0	56.5		63.0
Recommended com	oination			4xFXFQ50	AVEB 4x	FXFQ63AVEB	6xFXFQ5	OAVEB	1xFXFQ50AVE	B 4xFXF0	Q63AVEB	3xFXFQ50A\	VEB 2xFX	FQ50AVEB
								+	- 5xFXFQ63AV	EB + 1xFXF	Q80AVEB	+ 5xFXFQ63A	VEB + 6xF	XFQ63AVE
ης,ς			%	286.1		264.8	257	.0	255.8	24	43.1	250.6		246.7
ηs,h			%	165.1		169.7	183		168.3		57.5	172.5		162.7
SEER				7.2		6.7	6.5		6.5		5.2	6.3		6.2
SCOP				4.2		4.3	4.7		4.3		4.3	4.4		4.1
Maximum number o	f connectable	indoor units				113			64		5			
Indoor index	Min.	macor anno		100.0)	125.0	150	0	175.0	20	0.00	225.0		250.0
connection	Nom.			1001		12310	130	.0	-		00.0			230.0
	Max.			260.0)	325.0	390	0	455.0	5	20.0	585.0		650.0
Dimensions	Unit	HeightxWidthxDepth	mm	200.0		85x930x765			133.0		1,685x1,2			030.0
Weight	Unit	ricignixiviatiixbeptii	kg	230	1,0	230	23	0	314		314	317		317
Sound power level	Cooling	Nom.	dBA	78.0		79.1	83.		80.9		5.6	83.8		87.9
Sound pressure level	Cooling	Nom.	dBA	57.0		57.0	61.		60.0		3.0	62.0		65.0
Operation range	Cooling	Min.~Max.	°CDB	37.0		37.0	01.	0	-5.0~43.0	0	5.0	02.0		05.0
Operation range	Heating	Min.~Max.	°CWB						-20.0~15.5					
D-f-:		WIIII.~IVIAX.	CVVD						-20.0~13.3 R-410A/2,087					
Refrigerant	Type/GWP		l/TCO2F-	9.7/20	2	9.8/20.5	9.9/2		1-4 IUA/2,08/	.5	11.8/2	24.6		
D' . '	Charge	00	kg/TCO2Eq	9.7/20		9.8/20.5	9.9/2	0.7	10.7		11.8/2	.4.6	15.0	
Piping connections	Liquid	OD	mm		9.52				12.7				15.9	
	Gas	OD	mm	19.1		22.2					8.6			
	HP/LP gas	OD	mm	15.9			19.1			2	2.2			28.6
	Total piping length	System Actual	m						1,000					
Power supply	Phase/Freq	uency/Voltage	Hz/V					18	N~/50/380-4	15				
Current - 50Hz	Maximum f	use amps (MFA)	Α	20		25		32			40			50
Outdoor unit System			REYQ	10U	13U	16U	18U	20U	22U	24U	26U	28U	30U	32U
System		nit module 1	KETQ		Q5U	160	REYQ8U	200	REYQ10U	REYQ8U	200	REYQ12U	300	REYQ16U
System		nit module 2		REMQ5U			REYQ10U	DEV	(Q12U	REYQ16U	REYQ14U	-	REYQ18U	REYQ16U
Cit	Outdoor un	it module 2	HP		13		-	20	-	-	-	-	-	-
Capacity range	D. J. J.			10		16 44.8	18		22	24	26	28	30	32
Cooling capacity	Prated,c						50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0
			kW	28.0	36.4					2-2	0 = 4	20.7		
Heating capacity	Prated,h	**************************************	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		16.0 32.0	21.7 41.0	23.2 50.0	27.9 56.5	62.5	69.0	75.0	82.5	87.5	94.0	100.0
Recommended com	Max.	6°CWB	kW	16.0	21.7 41.0 3x FXFQ50AVEB	23.2 50.0 4x FXFQ63AVEB	27.9 56.5 4xFXFQ50AVEB		69.0 6 x FXFQ50AVEB	75.0 4x FXFQ50AVEB	82.5 7xFXFQ50AVEB	87.5 6xFXFQ50AVEB	94.0 9xFXFQ50AVEB	100.0 8 x FXFQ63AVE
	Max.	6°CWB	kW	16.0 32.0	21.7 41.0	23.2 50.0 4x FXFQ63AVEB	27.9 56.5	62.5	69.0	75.0 4xFXFQ50AVEB +4xFXFQ63AVEB	82.5 7xFXFQ50AVEB	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB	94.0	100.0 8 x FXFQ63AVE
Recommended com	Max.	6°CWB	kW kW	16.0 32.0 4x FXFQ63AVEB	21.7 41.0 3xFXFQ50AVEB +3xFXFQ63AVEB	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB	27.9 56.5 4x FXFQ50AVEB +4x FXFQ63AVEB	62.5 10 x FXFQ50AVEB	69.0 8 6xfxfqsoaveb +4xfxfq63aveb	75.0 4x FXFQ50AVEB +4x FXFQ63AVEB +2x FXFQ80AVEB	82.5 7 x FXFQ50AVEB +5 x FXFQ63AVEB	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB	94.0 9xfxfQ50AVEB +5xfXfQ63AVEB	100.0 8 x FXFQ63AVE + 4 x FXFQ80AVI
Recommended com	Max.	6°CWB	kW kW	16.0 32.0 4x FXFQ63AVEB 275,1	21.7 41.0 3xFXFQ50AVEB +3xFXFQ63AVEB 301,3	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6	27.9 56.5 4xFXFQ50AVEB +4xFXFQ63AVEB 272,9	62.5 10 x FXFQ50AVEB 266,0	69.0 8 6xFXFQ50AVEB +4xFXFQ63AVEB 260,4	75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 257,7	82.5 7x FXFQ50AVEB +5x FXFQ63AVEB 257,5	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 251,9	94.0 9xFXFQ50AVEB +5xFXFQ63AVEB 266,8	100.0 8 x FXFQ63AVE +4 x FXFQ80AVI
Recommended com	Max.	6°CWB	kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8	21.7 41.0 3xFXFQ50AVEB +3xFXFQ63AVEB 301,3 160,6	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6 168,2	27.9 56.5 4x FXFQ50AVEB +4x FXFQ63AVEB	62.5 10 x FXFQ50AVEB	69.0 8 6xfxfqsoaveb +4xfxfq63aveb	75.0 4x FXFQ50AVEB +4x FXFQ63AVEB +2x FXFQ80AVEB	82.5 7 x FXFQ50AVEB +5 x FXFQ63AVEB	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB	94.0 9xfxfQ50AVEB +5xfXfQ63AVEB	100.0 8 x FXFQ63AVE + 4 x FXFQ80AVI
Recommended com ns,c ns,h SEER	Max.	6°CWB	kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8 7,0	21.7 41.0 3xFXFQ50AVEB +3xFXFQ63AVEB 301,3	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6 168,2 7,3	27.9 56.5 4xFXFQ50AVEB +4xFXFQ63AVEB 272,9 167,9 6,9	62.5 10xFXFQS0AVEB 266,0 175,7 6,7	69.0 6 6xFXFQ50AVEB +4xFXFQ63AVEB 260,4 178,5 6,6	75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 257,7 167,6 6,5	82.5 7xFXFQ50AVEB +5xFXFQ63AVEB 257,5 175,5 6,5	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 251,9 174,8 6,4	94.0 9xFXFQ50AVEB +5xFXFQ63AVEB 266,8	100.0 8xFXFQ63AVE +4xFXFQ80AVI 243,1 169,1 6,2
Recommended com	Max.	6°CWB	kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8	21.7 41.0 3xFXFQ50AVEB +3xFXFQ63AVEB 301,3 160,6	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6 168,2	27.9 56.5 4xFXFQ50AVEB +4xFXFQ63AVEB 272,9 167,9	62.5 10xFXFQ50AVEB 266,0 175,7	69.0 6xFXFQSOAVEB +4xFXFQ63AVEB 260,4 178,5	75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 257,7 167,6	82.5 7x FXFQ50AVEB +5x FXFQ63AVEB 257,5 175,5	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 251,9 174,8	94.0 9xFXFQ50AVEB +5xFXFQ63AVEB 266,8 179,4	100.0 8xFXFQ63AVE +4xFXFQ80AVI 243,1 169,1
Recommended comings,c ns,c ns,h SEER	Max. Dination		kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8 7,0	21.7 41.0 3x FXFQSOAVEB +3x FXFQ63AVEB 301,3 160,6 7,6	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6 168,2 7,3	27.9 56.5 4xFXFQ50AVEB +4xFXFQ63AVEB 272,9 167,9 6,9	62.5 10xFXFQS0AVEB 266,0 175,7 6,7	69.0 6 6xFXFQ50AVEB +4xFXFQ63AVEB 260,4 178,5 6,6	75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 257,7 167,6 6,5	82.5 7xFXFQ50AVEB +5xFXFQ63AVEB 257,5 175,5 6,5	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 251,9 174,8 6,4	94.0 9xFXFQSOAVEB +5xFXFQ63AVEB 266,8 179,4 6,7	100.0 8xFXFQ63AVE +4xFXFQ80AVI 243,1 169,1 6,2
Recommended comings, constant of the second	Max. Dination		kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8 7,0	21.7 41.0 3x FXFQSOAVEB +3x FXFQ63AVEB 301,3 160,6 7,6	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6 168,2 7,3	27.9 56.5 4xFXFQ50AVEB +4xFXFQ63AVEB 272,9 167,9 6,9	62.5 10xFXFQS0AVEB 266,0 175,7 6,7	69.0 6xFXFQSAVEB +4xFXFQ63AVEB 260,4 178,5 6,6 4,5	75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 257,7 167,6 6,5	82.5 7xFXFQ50AVEB +5xFXFQ63AVEB 257,5 175,5 6,5	87.5 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 251,9 174,8 6,4	94.0 9xFXFQSOAVEB +5xFXFQ63AVEB 266,8 179,4 6,7	100.0 8xFXFQ63AVE +4xFXFQ80AVI 243,1 169,1 6,2
Recommended comings, cons, hose EER SCOP Maximum number o	Max. pination		kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8 7,0 4,0	21.7 41.0 3xFXFQSOAVEB +3xFXFQ63AVEB 301,3 160,6 7,6 4,1	23.2 50.0 4xFXFQ63AVE8 +2xFXFQ80AVE8 288,6 168,2 7,3 4,3	27.9 56.5 4x FXFQSOAVEB +4x FXFQ63AVEB 272.9 167.9 6,9 4,3	62.5 10x FXFQS0AVEB 266,0 175,7 6,7 4,5	69.0 6 x FXFQSOAVEB 4 x FXFQSOAVEB 260,4 178,5 6,6 4,5 64	75.0 4x FXFQS0AVEB +4x FXFQG3AVEB +2x FXFQ80AVEB 257,7 167,6 6,5 4,3	82.5 7xFXFQS0AVEB +5xFXFQ63AVEB 257,5 175,5 6,5 4,5	87.5 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQSOAVEB 251,9 174,8 6,4 4,4	94.0 9xFXFQSOAVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6	100.0 8xFXFQ63AVE +4xFXFQ80AVI 243,1 169,1 6,2 4,3
Recommended comings, constant of the second	Max. pination f connectable Min.		kW kW	16.0 32.0 4xFXFQ63AVEB 275,1 158,8 7,0 4,0	21.7 41.0 3xFXFQSOAVEB +3xFXFQ63AVEB 301,3 160,6 7,6 4,1	23.2 50.0 4xFXFQ63AVE8 +2xFXFQ80AVE8 288,6 168,2 7,3 4,3	27.9 56.5 4x FXFQSOAVEB +4x FXFQ63AVEB 272.9 167.9 6,9 4,3	62.5 10x FXFQS0AVEB 266,0 175,7 6,7 4,5	69.0 6 xFXFQS0AVEB 4 xFXFQ63AVEB 260,4 178,5 6,6 4,5 64 275.0	75.0 4x FXFQS0AVEB +4x FXFQG3AVEB +2x FXFQ80AVEB 257,7 167,6 6,5 4,3	82.5 7xFXFQS0AVEB +5xFXFQ63AVEB 257,5 175,5 6,5 4,5	87.5 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQSOAVEB 251,9 174,8 6,4 4,4	94.0 9xFXFQSOAVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6	100.0 8xFXFQ63AVE +4xFXFQ80AVI 243,1 169,1 6,2 4,3
Recommended comings, c. ns, h. SEER SCOP Maximum number o Indoor index	Max. Dination F connectable Min. Nom.		kW kW	16.0 32.0 4xFXFQ63AIEB 275,1 158,8 7,0 4,0	21.7 41.0 3xFXFQSAVEB +3xFXFQSAVEB 301,3 160,6 7,6 4,1 163.0	23.2 50.0 4xFXFQ63AVEB +2xFXFQ80AVEB 288,6 168,2 7,3 4,3	27.9 56.5 4x FXFQSOAVEB +4x FXFQGAVEB 272.9 167,9 6,9 4,3	62.5 10x FXFQ SOAVEB 266,0 175,7 6,7 4,5 250.0	69.0 6 6xFXFQSOAVEB +4xFXFQSAVEB +4xFXFQSAVEB 260,4 178,5 6,6 4,5 64 275.0	75.0 4xFXFQS0AVEB +4xFXFQS0AVEB +2xFXFQ80AVEB 257,7 167,6 6,5 4,3 300.0	82.5 7xFXFQS0AVEB +5xFXFQ63AVEB 257,5 175,5 6,5 4,5	87.5 6xFXFQS0AVEB +4xFXFQG3AVEB +2xFXFQ80AVEB 251,9 174,8 6,4 4,4	94.0 9xFXFQS0AVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6 375.0	100.0 8x FXFQ63AVE +4x FXFQ80AVI 243,1 169,1 6,2 4,3
Recommended comings, comps, hose SEER SCOP Maximum number of Indoor index connection	Max. pination f connectable Min. Nom. Max.	indoor units	kW kW 96 96	16.0 32.0 4xFXFQ63WEB 275,1 158,8 7,0 4,0 125.0	21.7 41.0 3xFXFQSAVEB +3xFXFQSAVEB 301,3 160,6 7,6 4,1 163.0	23.2 50.0 4x FXFQ63AVEB +2x FXFQ80AVEB 288,6 168,2 7,3 4,3 200.0	27.9 56.5 4x FXFQSOAVEB +4x FXFQGAVEB 272.9 167,9 6,9 4,3	62.5 10x FXFQ SOAVEB 266,0 175,7 6,7 4,5 250.0	69.0 6 6xFXFQSOAVEB +4xFXFQ63AVEB +4xFXFQ63AVEB 260,4 178,5 6,6 4,5 64 275.0 - 715.0	75.0 4xFXFQS0AVEB +4xFXFQS0AVEB +2xFXFQ80AVEB 257,7 167,6 6,5 4,3 300.0	82.5 7xFXFQS0AVEB +5xFXFQ63AVEB 257,5 175,5 6,5 4,5	87.5 6xFXFQS0AVEB +4xFXFQG3AVEB +2xFXFQS0AVEB 251,9 174,8 6,4 4,4 350.0	94.0 9xFXFQS0AVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6 375.0	100.0 8x FXFQ63AVE +4x FXFQ80AVI 243,1 169,1 6,2 4,3
Recommended comings, comps, hose SEER SCOP Maximum number of Indoor index connection	Max. f connectable Min. Nom. Max. Liquid	indoor units	kW kW	16.0 32.0 4xFXFQ63MEB 275,1 158,8 7,0 4,0 125.0 325.0 9.52 22.2	21.7 41.0 3xFXFQSAVEB +3xFXFQSAVEB 301,3 160,6 7,6 4,1 163.0	23.2 50.0 4x FEGGARES +2x FEGGARES 288,6 168,2 7,3 4,3 200.0 520.0 2.7	27.9 56.5 4x FIFQSON/E8 +4x FIFQSAN/E8 272,9 167,9 6,9 4,3 225.0	62.5 10x FXFQ SOAVEB 266,0 175,7 6,7 4,5 250.0	69.0 6 6xFXFQSOAVEB +4xFXFQ63AVEB +4xFXFQ63AVEB 260,4 178,5 6,6 4,5 64 275.0 - 715.0	75.0 4xFXFQS0AVEB +4xFXFQS0AVEB +2xFXFQ80AVEB 257,7 167,6 6,5 4,3 300.0	82.5 7xFXFQS0AVEB +5xFXFQ63AVEB 257,5 175,5 6,5 4,5	87.5 6xPXFQS0AVEB +4xFXFQS3AVEB +2xFXFQS0AVEB 251,9 174,8 6,4 4,4 350.0	94.0 9xFXFQS0AVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6 375.0	100.0 8x FXFQ63AVE +4x FXFQ80AVI 243,1 169,1 6,2 4,3
Recommended comings, comps, hose SEER SCOP Maximum number of Indoor index connection	Max. pination f connectable Min. Nom. Max. Liquid Gas	indoor units OD OD	kW kW % %	16.0 32.0 4xFXFQ63MEB 275,1 158,8 7,0 4,0 125.0 325.0 9.52 22.2	21.7 41.0 3x FXFQSONVEB +3x FXFQSSAVEB 301,3 160,6 7,6 4,1 163.0	23.2 50.0 4x FEGGARES +2x FEGGARES 288,6 168,2 7,3 4,3 200.0 520.0 2.7	27.9 56.5 4x FIFQSON/E8 +4x FIFQSAN/E8 272,9 167,9 6,9 4,3 225.0 585.0	62.5 10x FXFQ SOAVEB 266,0 175,7 6,7 4,5 250.0	69.0 6 6xFXFQSOAVEB +4xFXFQ63AVEB +4xFXFQ63AVEB 260,4 178,5 6,6 4,5 64 275.0 - 715.0	75.0 4xFXFQS0AVEB +4xFXFQS0AVEB +2xFXFQ80AVEB 257,7 167,6 6,5 4,3 300.0	82.5 7x FXFGSON/EB +5x FXFGGSAI/EB +5x FXFGGSAI/EB 257,5 175,5 6,5 4,5 325.0 845.0	87.5 6xPXFQS0AVEB +4xFXFQS3AVEB +2xFXFQS0AVEB 251,9 174,8 6,4 4,4 350.0	94.0 9xFXFQS0AVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6 375.0	100.0 8x FXFQ63AVE +4x FXFQ80AVI 243,1 169,1 6,2 4,3
Recommended comings, comps, hose SEER SCOP Maximum number of Indoor index connection	Max. Dination f connectable Min. Nom. Max. Liquid Gas HP/LP gas	indoor units OD OD OD	kW kW % % mm mm	16.0 32.0 4xFXFQ63MEB 275,1 158,8 7,0 4,0 125.0 325.0 9.52 22.2	21.7 41.0 3x FXFQSONVEB +3x FXFQSSAVEB 301,3 160,6 7,6 4,1 163.0	23.2 50.0 4xFFQ63AIE8 +2xFFQ60AVE8 288,6 168,2 7,3 4,3 200.0 520.0 2.7	27.9 56.5 4x FIFQSON/E8 +4x FIFQSAN/E8 272,9 167,9 6,9 4,3 225.0 585.0	62.5 10x FXFQ SOAVEB 266,0 175,7 6,7 4,5 250.0	69.0 6 6xFXFQSOAVEB +4xFXFQ63AVEB +4xFXFQ63AVEB 260,4 178,5 6,6 4,5 64 275.0 - 715.0	75.0 4xFXFQS0AVEB +4xFXFQS0AVEB +2xFXFQ80AVEB 257,7 167,6 6,5 4,3 300.0	82.5 7x FXFGSON/EB +5x FXFGGSAI/EB +5x FXFGGSAI/EB 257,5 175,5 6,5 4,5 325.0 845.0	87.5 6xFFQSM/E8 +4xFFQSM/E8 +2xFFQSM/E8 251,9 174,8 6,4 4,4 350.0	94.0 9xFXFQS0AVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6 375.0	100.0 8x FXFQ63AVE +4x FXFQ80AVI 243,1 169,1 6,2 4,3
ns,c ns,h SEER SCOP Maximum number o Indoor index connection	Max. pination f connectable Min. Nom. Max. Liquid Gas HP/LP gas Total piping length	indoor units OD OD OD	kW kW % % mm mm	16.0 32.0 4xFXFQ63MEB 275,1 158,8 7,0 4,0 125.0 325.0 9.52 22.2	21.7 41.0 3x FXFQSONVEB +3x FXFQSSAVEB 301,3 160,6 7,6 4,1 163.0	23.2 50.0 4xFFQ63AIE8 +2xFFQ60AVE8 288,6 168,2 7,3 4,3 200.0 520.0 2.7	27.9 56.5 4x FIFQSON/E8 +4x FIFQSAN/E8 272,9 167,9 6,9 4,3 225.0 585.0	62.5 10x FXFQSOAVEB 266,0 175,7 6,7 4,5 250.0 650.0	69.0 6 6xFXFQSOAVEB +4xFXFQ63AVEB +4xFXFQ63AVEB 260,4 178,5 6,6 4,5 64 275.0 - 715.0	75.0 4xFIFQSAMEB +4xFIFQSAMEB +4xFIFQSAMEB +2xFIFQSAMEB 257,7 167,6 6,5 4,3 300.0 780.0	82.5 7x FXFGSON/EB +5x FXFGGSAI/EB +5x FXFGGSAI/EB 257,5 175,5 6,5 4,5 325.0 845.0	87.5 6xFFQSM/E8 +4xFFQSM/E8 +2xFFQSM/E8 251,9 174,8 6,4 4,4 350.0	94.0 9xFXFQS0AVEB +5xFXFQ63AVEB 266,8 179,4 6,7 4,6 375.0	100.0 8x FXFQ63AVE +4x FXFQ80AVI 243,1 169,1 6,2 4,3









Outdoor unit System	n + Module		REYQ	34U	36U	38U	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor un	it module 1		REY	Q16U	REYQ8U	REYO	Q10U	REYQ12U	REYQ14U		REYQ16U		REYQ18U
	Outdoor un	it module 2		REYQ18U	REYQ20U	REYO	Q12U			REYQ16U			REY	Q18U
	Outdoor un	it module 3			-	REYO	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
Recommended comb	ination			3 x FXFQ50AVEB	2 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB	12 x FXFQ63AVEB	6 x FXFQ50AVEB	1 x FXFQ50AVEB	12 x FXFQ63AVEB	3 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB
				+9xFXFQ63AVEB	+ 10 x FXFQ63AVEB	+ 10 x FXFQ63AVEB	+9xFXFQ63AVEB	+4xFXFQ80AVEB	+8xFXFQ63AVEB	+ 13 x FXFQ63AVEB	+6 x FXFQ80AVEB	+ 13 x FXFQ63AVEB	+ 14 x FXFQ63AVEB	+ 15 x FXFQ63AVEB
				+2 x FXFQ80AVEB	+2xFXFQ80AVEB				+4xFXFQ80AVEB	+4xFXFQ80AVEB		+4xFXFQ80AVEB	+2xFXFQ80AVEB	
ηs,c			%	259,2	255,3	269,2	259,6	250,2	249,3	246,8	243,1	254,4	265,7	275,2
ηs,h			%	172,0	166,3	176,0	176,1	167,8	171,9	168,8	168,5	170,3	171,7	173,3
SEER				6,6	6,5	6,8	6,6	6,3	6,3	6,2	6,2	6,4	6,7	7,0
SCOP				4,4	4,2	4,5	4,5	4,3	4,4	4,3	4,3	4,3	4,4	4,4
Maximum number of	connectable	indoor units							64					
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					4	1.3				
	HP/LP gas	OD	mm	2	3.6					34.9				
	Total piping length	System Actual	m						1,000					
Power supply	Phase/Frequ	uency/Voltage	Hz/V					3N	~/50/380-	115				
Current - 50Hz	Maximum f	use amps (MFA)	Α	8	80			100				1.	25	
Outdoor unit modu	e		REMO						5U					
Dimensions	Unit	HeightxWidthxDepth	mm					1,	685x930x7	65				
Weight	Unit	-	kg						230					
Fan	External static pressure	Max.	Pa						78					
Sound power level	Cooling	Nom.	dBA						78.0					
Sound pressure level	Cooling	Nom.	dBA						57.0					
Operation range	Cooling	Min.~Max.	°CDB						-5.0~43.0					
	Heating	Min.~Max.	°CWB						-20.0~15.5					
Refrigerant	Type/GWP							R-	410A/2,08					
3	Charge		kg/TCO2Eq											
Power supply		uency/Voltage	Hz/V					3N	~/50/380-4	115				
Current - 50Hz		use amps (MFA)	Α						20					

Individual branch selector for VRV IV heat recovery

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



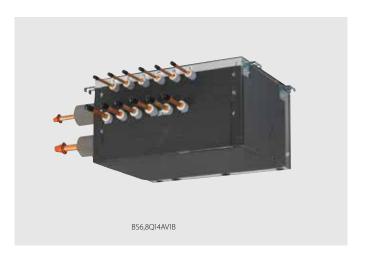


Access all technical information on BS1Q-A at my.daikin.eu or click here

Indoor unit				BS	1Q10A	1Q16A	1Q25A
Power input	Cooling	Nom.		kW		0.005	
	Heating	Nom.		kW		0.005	
Maximum number o	of connectable indo	or units			6	8	
Maximum capacity is	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		9.5	
		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	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 hoxes
- > 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





Access all technical information on BS-Q14AV1B at my.daikin.eu or click here

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	5				
Number of branches				Î	4	6	8	10	12	16		
Maximum capacity is	ndex of connectable	e indoor units			400	400 600 750						
Maximum capacity is	ndex of connectable	e indoor units p	er branch	Î			14	10				
Dimensions	Unit	HeightxWid	dthxDepth	mm	298x370x430	298x5	80x430	298x8	20x430	298x1,060x430		
Weight	Unit			kg	17	24	26	35	38	50		
Casing	Material						Galvanised	steel plate				
Piping connections	Outdoor unit	Liquid	OD	mm	9.5	12.7	12.7 / 15.9	15.9	15.9 / 19.1	19.1		
		Gas	OD	mm	22.2 / 19.1	28.6 / 22.2	28.6	28.6	/ 34.9	34.9		
		Discharge gas	OD	mm	19.1 / 15.9	19.1 / 22.2	19.1 / 22.2 / 28.6		28.6			
	Indoor unit	Liquid	OD	mm			9.5 /	6.4				
		Gas	OD	mm			15.9 /	12.7				
	Drain						VP20 (I.D. 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				
	Maximum fuse a	mps (MFA)		А			1.	5				

VRV IV+ heat pump

Daikin's optimum solution with top comfort



Control systems



Air curtainBiddle Air curtain for VRV (CYV)







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	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Flexi type unit	FLXS-B(9)			•	•		•	•	

VRV IV

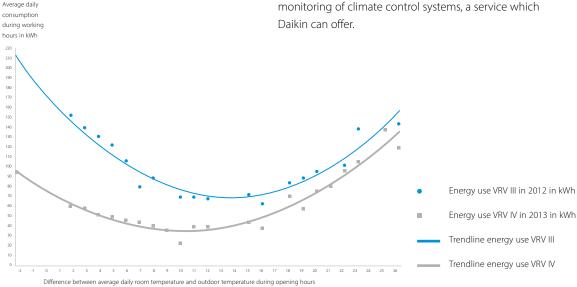
proven in practice: 40% more efficient

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.



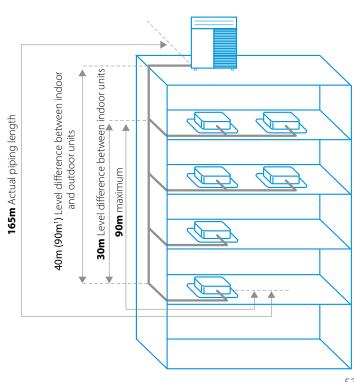
Free combination of outdoor units

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

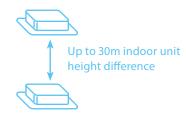


² in case outdoor unit is located below indoor units

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
- Outdoor unit display for quick on-site settings and easy read out of errors together with the indication of service parameters for checking basic functions.
- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Available as heating only by irreversible field setting
- > Contains all standard VRV features





Already fully compliant to LOT 21 - Tier 2





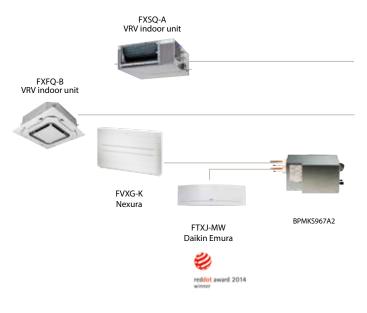


Access all technical information on RXYQ-U at my.daikin.eu or click here

Outdoor unit				RYYQ/RXYQ	8U	10	U	12U	14U	16U		18U	20U
Capacity range				HP	8	10)	12	14	16		18	20
Cooling capacity	Prated,c			kW	22.4	28.	.0	33.5	40.0	45.0		50.4	52.0
Heating capacity	Prated,h			kW	13.7	16.	.0	18.4	20.6	23.2		27.9	31.0
	Max.	6°CWB		kW	25.0	31.	.5	37.5	45.0	50.0		56.5	63.0
Recommended com	bination				4 x FXFQ50AV	/EB 4 x FXFQ	63AVEB	6 x FXFQ50AVEB	1x FXFQ50AVEB	4 x FXFQ63	AVEB 3 x FX	FQ50AVEB	2 x FXFQ50AVEB
									+ 5 x FXFQ63AVE	+ 2 x FXFQ80	JAVEB + 5 x F	XFQ63AVEB	+ 6 x FXFQ63AVEB
ηs,c				%	302.4	267	7.6	247.8	250.7	236.5		238.3	233.7
ηs,h				%	167.9	168	3.2	161.4	155.4	157.8	. 1	163.1	156.6
SEER					7.6	6.8	8	6.	3		6.0		5.9
SCOP						4.3	-	4.1		4.0		4.2	4.0
Maximum number o	f connectable inc	door units				5			64 (1)				
Indoor index	Min.	acor units			100.0	125	5.0	150.0	175.0	200.0		225.0	250.0
connection	Nom.				100.0	123	1.0	130.0	-	200.0		.23.0	250.0
connection	Max.				260.0	325	. 0	390.0	455.0	520.0		585.0	650.0
Dimensions	Unit	Lloiabty/Midt	-byDonth	mm	200.0	1,685x93		390.0	455.0		85x1,240x7		030.0
Weight	Unit	HeightxWidt	пхрериі			252 (RYYQ) /		(0)	310 (D)()(O)			78 (RYYQ) /	200 (DVVO)
		N		kg						/ 275 (RXYC			
Sound power level	Cooling	Nom.		dBA	78.0	79.	.1	83.4	80.9	85.6		83.8	87.9
Sound pressure level	Cooling	Nom.		dBA		57.0		61.0	60.0	63.0		62.0	65.0
Operation range	Cooling	Min.~Max.		°CDB					-5.0~43.0				
	Heating	Min.~Max.		°CWB					-20.0~15.5				
Refrigerant	Type/GWP								R-410A/2,087.5	_			
	Charge			kg/TCO2Eq	5.9/12.3	6.0/1	2.5	6.3/13.2	10.3/21.5	10.4/21	.7 11	.7/24.4	11.8/24.6
Piping connections	Liquid	OD		mm		9.52			12.7			15.	9
	Gas	OD		mm	19.1	22.	.2			28.6			
	Total piping length	System	Actual	m					1,000				
Power supply	Phase/Freque	ncy/Voltage		Hz/V					3N~/50/380-41	5			
Current - 50Hz	Maximum fuse	e amps (MFA)		Α	20	25	5	32	2		40		50
Outdoor unit Syste	m			RYYQ/RXYQ	22U	24U	26U	28U	30U	32U	34U	36U	38U
System	Outdoor unit i	module 1			10	8		12			16		8
,	Outdoor unit i	module 2			12	16	14	16	18	16	18	20	10
	Outdoor unit i								-				20
Capacity range				HP			26	28	30	32	34	36	38
Cooling capacity	Prated,c				22	24							
	···				22 61.5	24 67.4	_		83.9	-		-	
Heating canacity	Prated h			kW	61.5	67.4	73.5	78.5	83.9	90.0	95.4	97.0	102.4
Heating capacity	Prated,h	6°CWR		kW kW	61.5 34.4	67.4 36.9	73.5 39.0	78.5 41.6	46.3	90.0 46.4	95.4 51.1	97.0 54.2	102.4 60.7
	Max.	6°CWB		kW	61.5 34.4 69.0	67.4 36.9 75.0	73.5 39.0 82.5	78.5 41.6 87.5	46.3 94.0	90.0 46.4 100.0	95.4 51.1 106.5	97.0 54.2 113.0	102.4 60.7 119.5
Recommended com	Max.	6°CWB		kW kW	61.5 34.4 69.0 6x FXFQ50AVEB	67.4 36.9 75.0 4x FXFQ50AVEB	73.5 39.0 82.5 7xFXFQ50Al	78.5 41.6 87.5 WEB 6xFXFQ50AVEB	46.3 94.0 9x FXFQ50AVEB	90.0 46.4 100.0 8x FXFQ63AVEB	95.4 51.1 106.5 3x FXFQ50AVEB	97.0 54.2 113.0 2xFXFQ50AVI	102.4 60.7 119.5 EB 6xFXFQ50AVEB
	Max.	6°CWB		kW kW	61.5 34.4 69.0	67.4 36.9 75.0 4xFXFQ50AVEB +4xFXFQ63AVEB	73.5 39.0 82.5	78.5 41.6 87.5 VVEB 6 x FXFQ50AVEB AVEB +4 x FXFQ63AVEB	46.3 94.0 9xFXFQ50AVEB 3 +5xFXFQ63AVEB	90.0 46.4 100.0	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ63AVEB	97.0 54.2 113.0 2xFXFQ50AVI +10xFXFQ63AV	102.4 60.7 119.5 EB 6xFXFQ50AVEB +10xFXFQ63AVEB
Recommended com	Max.	6°CWB		kW kW kW	61.5 34.4 69.0 6x FXFQ50AVEB +4x FXFQ63AVEB	67.4 36.9 75.0 4x FXFQ50AVEB +4x FXFQ63AVEB +2x FXFQ80AVEB	73.5 39.0 82.5 7xFXFQ50AV +5xFXFQ63A	78.5 41.6 87.5 IVEB 6×FXFQ50AVEB 44×FXFQ63AVEB +2×FXFQ80AVEB +2×FXFQ80AVEB	46.3 94.0 9 x FXFQ50AVEB 3 + 5 x FXFQ63AVEB	90.0 46.4 100.0 8 x F X F Q 63 A V E B + 4 x F X F Q 80 A V E B	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ63AVEB +2xFXFQ80AVEB	97.0 54.2 113.0 2xFXFQ50AVI +10xFXFQ63AV +2xFXFQ80AV	102.4 60.7 119.5 EB 6xFXFQ50AVEB /EB +10xFXFQ63AVEB
Recommended com	Max.	6°CWB		kW kW kW	61.5 34.4 69.0 6xFXFQ50AVEB +4xFXFQ63AVEB	67.4 36.9 75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 269.9	73.5 39.0 82.5 7xFXFQ50Al +5xFXFQ63A	78.5 41.6 87.5 VVEB 6xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 257.8	46.3 94.0 9xFXFQSDAVEB 3 +5xFXFQ63AVEB 3 256.8	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ63AVEB +2xFXFQ80AVEB 253.3	97.0 54.2 113.0 2xFXFQ50AVI +10xFXFQ63AV +2xFXFQ80AV 250.8	102.4 60.7 119.5 EB 6xFXFQ50AVEB VEB +10xFXFQ63AVEB VEB 272.4
Recommended com ηs,c ηs,h	Max.	6°CWB		kW kW kW	61.5 34.4 69.0 6xFXFQS0AVEB +4xFXFQ63AVEB 274.5 171.2	67.4 36.9 75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 269.9 167.0	73.5 39.0 82.5 7xFXFQ50Al +5xFXFQ63A 264.2 164.6	78.5 41.6 87.5 WEB 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQSOAVEB 257.8 6166.0	46.3 94.0 9xFXFQS0AVEB 3 +5xFXFQG3AVEB 3 256.8 169.8	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ50AVEB +2xFXFQ80AVEB 253.3 166.2	97.0 54.2 113.0 2x FXFQSOAVI + 10 x FXFQG3AV + 2x FXFQ80AV 250.8 162.4	102.4 60.7 119.5 EB 6xFXFQ50AVEB VEB +10xFXFQ63AVEB VEB 272.4 167.5
Recommended com ns,c ns,h SEER	Max.	6°CWB		kW kW kW	61.5 34.4 69.0 6xFXFQSOAVEB +4xFXFQGSAVEB 274.5 171.2 6.9	67.4 36.9 75.0 4xFXFQ90AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 269.9 167.0 6.8	73.5 39.0 82.5 7xFXFQ50Al +5xFXFQ63A	78.5 41.6 87.5 WEB 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQ8OAVEB 2 257.8 6 166.0	46.3 94.0 9xFXFQS0AVEB 8 +5xFXFQ63AVEB 3 256.8 169.8	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1 6.	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ63AVEB +2xFXFQ80AVEB 253.3 166.2	97.0 54.2 113.0 2xFXFQ50AVI 110xFXFQ63AVI 250.8 162.4 6.3	102.4 60.7 119.5 EB 6xFXFQ50AVEB HD xFXFQ63AVEB EB 272.4 167.5 6.9
Recommended com ns.c ns.h SEER SCOP	Max. bination			kW kW kW	61.5 34.4 69.0 6xFXFQS0AVEB +4xFXFQ63AVEB 274.5 171.2	67.4 36.9 75.0 4xFXFQ50AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 269.9 167.0	73.5 39.0 82.5 7xFXFQ50Al +5xFXFQ63A 264.2 164.6	78.5 41.6 87.5 WEB 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQSOAVEB 257.8 6166.0	46.3 94.0 9xFXFQS0AVEB 3 +5xFXFQ63AVEB 3 256.8 169.8 6.5	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ63AVEB +2xFXFQ80AVEB 253.3 166.2	97.0 54.2 113.0 2x FXFQSOAVI + 10 x FXFQG3AV + 2x FXFQ80AV 250.8 162.4	102.4 60.7 119.5 EB 6xFXFQ50AVEB VEB +10xFXFQ63AVEB VEB 272.4 167.5
Recommended com ns.c ns.h SEER SCOP Maximum number o	Max. bination			kW kW kW	61.5 34.4 69.0 6xFXFQSOAVEB +4xFXFQSAVEB 274.5 171.2 6.9 4.4	67.4 36.9 75.0 4xFXFQS0AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 269.9 167.0 6.8 4.3	73.5 39.0 82.5 7xFXFQ50A\ +5xFXFQ63A 264.2 164.6 6.7	78.5 41.6 87.5 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQSOAVEB 257.8 6 166.0	46.3 94.0 9x FXFQSDAVEB 8 +5x FXFQGBAVEB 3 256.8 169.8 6.5 4.3 64.11	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1 6.	95.4 51.1 106.5 3xFXFQS0AVEB +9xFXFQS0AVEB +2xFXFQ80AVEB 253.3 166.2 4	97.0 54.2 113.0 2xFXFQS0AVI +10xFXFQ63AI +2xFXFQ80AV 250.8 162.4 6.3 4.1	102.4 60.7 119.5 6x FXFQSAWEB +10x FXFQSAWEB EB 272.4 167.5 6.9 4.3
Recommended com ns,c ns,h SEER SCOP Maximum number o Indoor index	Max. bination f connectable inc			kW kW kW	61.5 34.4 69.0 6xFXFQSOAVEB +4xFXFQGSAVEB 274.5 171.2 6.9	67.4 36.9 75.0 4xFXFQ90AVEB +4xFXFQ63AVEB +2xFXFQ80AVEB 269.9 167.0 6.8	73.5 39.0 82.5 7xFXFQ50Al +5xFXFQ63A 264.2 164.6	78.5 41.6 87.5 6xFXFQSOAVEB +4xFXFQSOAVEB +2xFXFQSOAVEB 257.8 6 166.0	46.3 94.0 9xFXFQS0AVEB 8 +5xFXFQS3AVEB 3 256.8 169.8 6.5 4.3 64 (1) 375.0	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1 6.	95.4 51.1 106.5 3xFXFQ50AVEB +9xFXFQ63AVEB +2xFXFQ80AVEB 253.3 166.2	97.0 54.2 113.0 2xFXFQ50AVI 110xFXFQ63AVI 250.8 162.4 6.3	102.4 60.7 119.5 EB 6xFXFQ50AVEB HD xFXFQ63AVEB EB 272.4 167.5 6.9
Recommended com ns.c ns.h SEER SCOP Maximum number o	Max. bination f connectable inc Min. Nom.			kW kW kW	61.5 34.4 69.0 6x FXFQSOAVEB +4x FXFQSOAVEB 274.5 171.2 6.9 4.4	67.4 36.9 75.0 4x FXFQSOAVEB +4x FXFQSOAVEB +2x FXFQBOAVEB 269.9 167.0 6.8 4.3	73.5 39.0 82.5 7xFXFQS0AI +5xFXFQ63A 264.2 164.6 6.7	78.5 41.6 87.5 41.6 87.5 6xFXFQS0AVEB +4xFXFQSGAVEB +2xFXFQS0AVEB +2xFXFQS0AVEB 4.2 4.2 350.0	46.3 94.0 9xFXFQS0AVEB 8 +5xFXFQ6SAVEB 3 256.8 169.8 6.5 4.3 64 (1) 375.0	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1 6. 4.	95.4 51.1 106.5 3xFXFQS0AVEB +9xFXFQS0AVEB +2xFXFQ80AVEB 253.3 166.2 4 2	97.0 54.2 113.0 2xFXFQS0AVI 3+10xFXFQ63AVI 250.8 162.4 6.3 4.1	102.4 60.7 119.5 EB 6x FXFQSONVEB FEB + 10x FXFQGAVEB FEB 272.4 167.5 6.9 4.3
ns,c ns,h SEER SCOP Maximum number of Indoor index connection	Max. bination of connectable income. Min. Nom. Max.	door units		kW kW kW	61.5 34.4 69.0 6xFXFQSOAVEB +4xFXFQSAVEB 274.5 171.2 6.9 4.4 275.0	67.4 36.9 75.0 4xFKFQS0AVEB +4xFKFQSAVEB +2xFKFQSAVEB 269.9 167.0 6.8 4.3 300.0	73.5 39.0 82.5 7xFXFQ50A\ +5xFXFQ63A 264.2 164.6 6.7	78.5 41.6 87.5 41.6 87.5 6xFXFQS0AVEB +4xFXFQSGAVEB +2xFXFQS0AVEB +2xFXFQS0AVEB 4.2 4.2 350.0	46.3 94.0 9xFXFQS0AVEB 8 +5xFXFQS3AVEB 3 256.8 169.8 6.5 4.3 64 (1) 375.0	90.0 46.4 100.0 8x FXFQ63AVEB +4x FXFQ80AVEB 251.7 163.1 6. 4.	95.4 51.1 106.5 3xFXFQS0AVEB +9xFXFQS0AVEB +2xFXFQ80AVEB 253.3 166.2 4	97.0 54.2 113.0 2xFXFQS0AVI +10xFXFQ63AI +2xFXFQ80AV 250.8 162.4 6.3 4.1	102.4 60.7 119.5 EB 6x FXFQSONVEB FEB + 10x FXFQGAVEB FEB 272.4 167.5 6.9 4.3
Recommended com ns,c ns,h SEER SCOP Maximum number o Indoor index	Max. bination of connectable income. Min. Nom. Max. Liquid	door units		kW kW kW	61.5 34.4 69.0 6xFXFGGAVEB +4xFXFQGAVEB 274.5 171.2 6.9 4.4 275.0	67.4 36.9 75.0 4xFKFQS0AVEB +4xFKFQSAVEB +2xFKFQSAVEB 269.9 167.0 6.8 4.3 300.0	73.5 39.0 82.5 7xFXFQS0AI +5xFXFQ63A 264.2 164.6 6.7	78.5 41.6 87.5 6xFXFQS0AVEB 4xFXFQS0AVEB +2xFXFQS0AVEB 2 257.8 6 166.0 4.2	46.3 94.0 9x FXFQSMVEB 3 +5x FXFQGSMVEB 3 256.8 169.8 6.5 4.3 64 (1) 375.0 975.0	90.0 46.4 100.0 8xFXFQ63AVEB +4xFXFQ80AVEB 251.7 163.1 6. 4.	95.4 51.1 106.5 3xFXFQS0AVEB +9xFXFQS0AVEB +2xFXFQ80AVEB 253.3 166.2 4 2	97.0 54.2 113.0 2xFXFQ50AVI + 10xFXFQ50AVI + 10xFXFQ50AVI 250.8 162.4 6.3 4.1 450.0	102.4 60.7 119.5 64 FKPGSOAVEB FEB + 104 FKPGSOAVEB 272.4 167.5 6.9 4.3 475.0
ns,c ns,h SEER SCOP Maximum number of Indoor index connection	Max. bination of connectable inc Min. Nom. Max. Liquid Gas	door units OD OD		kW kW kW	61.5 34.4 69.0 6xFXFQSOAVEB +4xFXFQSAVEB 274.5 171.2 6.9 4.4 275.0	67.4 36.9 75.0 4xFKFQS0AVEB +4xFKFQSAVEB +2xFKFQSAVEB 269.9 167.0 6.8 4.3 300.0	73.5 39.0 82.5 7xFXFQS0AI +5xFXFQ63A 264.2 164.6 6.7	78.5 41.6 87.5 6xFXFQS0AVEB 4xFXFQS0AVEB +2xFXFQS0AVEB 2 257.8 6 166.0 4.2	46.3 94.0 9xFXFQS0AVEB +5xFXFQGSAVEB 3 256.8 169.8 6.5 4.3 64 (1) 375.0 975.0	90.0 46.4 100.0 8x FXFQ63AVEB +4x FXFQ80AVEB 251.7 163.1 6. 4.	95.4 51.1 106.5 3xFXFQS0AVEB +9xFXFQS0AVEB +2xFXFQ80AVEB 253.3 166.2 4 2	97.0 54.2 113.0 2xFXFQ50AVI + 10xFXFQ50AVI + 10xFXFQ50AVI 250.8 162.4 6.3 4.1 450.0	102.4 60.7 119.5 EB 6x FXFQSONVEB FEB + 10x FXFQGAVEB FEB 272.4 167.5 6.9 4.3
ns,c ns,h SEER SCOP Maximum number of Indoor index connection	Max. bination of connectable income. Min. Nom. Max. Liquid	door units		kW kW kW	61.5 34.4 69.0 6xFXFGGAVEB +4xFXFQGAVEB 274.5 171.2 6.9 4.4 275.0	67.4 36.9 75.0 4xFKFQS0AVEB +4xFKFQSAVEB +2xFKFQSAVEB 269.9 167.0 6.8 4.3 300.0	73.5 39.0 82.5 7xFXFQS0AI +5xFXFQ63A 264.2 164.6 6.7	78.5 41.6 87.5 6xFXFCGOAVEB 4xxFXFCGSAVEB 4xxFXFCGSAVEB 257.8 166.0 4.2 0 350.0	46.3 94.0 9xFXFQS0AVEB 3 +5xFXFQS3AVEB 3 256.8 169.8 6.5 4.3 64.10 375.0 - 975.0	90.0 46.4 100.0 8x FXFQ6JAVEB +4x FXFQ6JAVEB 251.7 163.1 6. 4. 400.0	95.4 51.1 106.5 3xFXFQS0AVEB +9xFXFQS0AVEB +2xFXFQ80AVEB 253.3 166.2 4 2	97.0 54.2 113.0 2xFXFQ50AVI + 10xFXFQ50AVI + 10xFXFQ50AVI 250.8 162.4 6.3 4.1 450.0	102.4 60.7 119.5 64 FKPGSOAVEB FEB + 104 FKPGSOAVEB 272.4 167.5 6.9 4.3 475.0
ns,c ns,h SEER SCOP Maximum number of Indoor index connection	Max. bination of connectable inc Min. Nom. Max. Liquid Gas	oor units OD OD System ncy/Voltage		kW kW kW	61.5 34.4 69.0 6xFXFGGAVEB +4xFXFQGAVEB 274.5 171.2 6.9 4.4 275.0	67.4 36.9 75.0 4xFKFQS0AVEB +4xFKFQSAVEB +2xFKFQSAVEB 269.9 167.0 6.8 4.3 300.0	73.5 39.0 82.5 7x FXFQSQAI +5x FXFQSAI 264.2 164.6 6.7 325.0	78.5 41.6 87.5 6xFXFCGOAVEB 4xxFXFCGSAVEB 4xxFXFCGSAVEB 257.8 166.0 4.2 0 350.0	46.3 94.0 9xFXFQS0AVEB +5xFXFQGSAVEB 3 256.8 169.8 6.5 4.3 64 (1) 375.0 975.0	90.0 46.4 100.0 8x FXFQ6JAVEB +4x FXFQ6JAVEB 251.7 163.1 6. 4. 400.0	95.4 51.1 106.5 3x FXFCGAMVEB 49 x FXFCGAMVEB 253.3 166.2 4 2 425.0	97.0 54.2 113.0 2xFXFQ50AVI + 10xFXFQ50AVI + 10xFXFQ50AVI 250.8 162.4 6.3 4.1 450.0	102.4 60.7 119.5 64 FKPGSOAVEB FEB + 104 FKPGSOAVEB 272.4 167.5 6.9 4.3 475.0









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	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Flexi type unit	FLXS-B(9)			•	•		•	•	

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

Outdoor unit System				RYYQ/RXYQ	40U	42U	44U	46U	48U	50U	52U	54U
System	Outdoor uni	it module 1			1	0	12	14		16		18
	Outdoor uni	it module 2			12			16			1	8
	Outdoor uni	it module 3			18		1	6			18	
Capacity range				HP	40	42	44	46	48	50	52	54
Cooling capacity	Prated,c			kW	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Prated,h			kW	62.3	62.4	64.8	67.0	69.6	74.3	79.0	83.7
	Max.	6°CWB		kW	125.5	131.5	137.5	145.0	150.0	156.5	163.0	169.5
Recommended combina	tion				9 x FXFQ50AVEB	12 x FXFQ63AVEB	6 x FXFQ50AVEB	1x FXFQ50AVEB	12 x FXFQ63AVEB	3 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB
					+9xFXFQ63AVEB	+4xFXFQ80AVEB	+8xFXFQ63AVEB	+ 13 x FXFQ63AVEB	+ 6 x FXFQ80AVEB	+ 13 x FXFQ63AVEB	+ 14 x FXFQ63AVEB	+ 15 x FXFQ63AVE
							+4xFXFQ80AVEB	+4xFXFQ80AVEB		+4xFXFQ80AVEB	+2xFXFQ80AVEB	
ηs,c				%	263.5	261.2	255.9	254.9	251.7	252.8	253.7	254.1
ηs,h				%	170.0	165.5	164.5	162.0	162.8	165.2	167.2	169.4
SEER					6.7	6.6	6.5			6.4		
SCOP					4.3	4	.2	4	.1	4.2	4	.3
Maximum number of cor	nectable indo	oor units						64	l ⁽¹⁾			
Indoor index connection	Min.				500.0	525.0	550.0	575.0	600.0	625.0	650.0	675.0
	Nom.								-			
	Max.				1,300.0	1,365.0	1,430.0	1,495.0	1,560.0	1,625.0	1,690.0	1,755.0
Piping connections	Liquid	OD		mm				19	9.1			
	Gas	OD		mm				41	1.3			
	Total piping length	System	Actual	m				1,0	000			
Power supply	Phase/Frequ	iency/Voltag	е	Hz/V				3N~/50/	/380-415			
Current - 50Hz	Maximum fu	ıse amps (MI	-A)	Α		10	00			1:	25	
Outdoor unit module fo	r continuous	heating		RYMO	8U	10U	120	14	u	16U	18U	20U

Outdoor unit modu combinations	le for continuous	heating	RYMQ	8U	10U	12U	14U	16U	18U	20U
Dimensions	Unit	HeightxWidthxDepth	mm		1,685x930x765			1,685x1,	240x765	
Weight	Unit		kg		198		2	75	30	08
Fan	External static pressure	Max.	Pa				78			
Sound power level	Cooling	Nom.	dBA	78.0	79.1	83.4	80.9	85.6	83.8	87.9
Sound pressure level	Cooling	Nom.	dBA	57	7.0	61.0	60.0	63.0	62.0	65.0
Operation range	Cooling	Min.~Max.	°CDB				-5.0~43.0			
	Heating	Min.~Max.	°CWB				-20.0~15.5			
Refrigerant	Type/GWP						R-410A/2,087.5			
	Charge		kg/TCO2Eq	5.9/12.3	6.0/12.5	6.3/13.2	10.3/21.5	11.3/23.6	11.7/24.4	11.8/24.6
Power supply	Phase/Frequenc	cy/Voltage	Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse	amps (MFA)	А	20	25	3	2	4	0	50

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

VRV IV S-series heat pump

The most compact VRV

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





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



Air curtainBiddle Air curtain for VRV (CYV)



Ventilation
Heat Reclaim ventilation
ALB/VAM/VKM AHU
connection kit



RXYSCQ4, 5TV1



NA13Q4, 3, 10V/101



RXYSQ8, 10, 12TY1



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

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

Widest range of front blow units on the market



Lowest height on the market

Ideal for roof installations

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



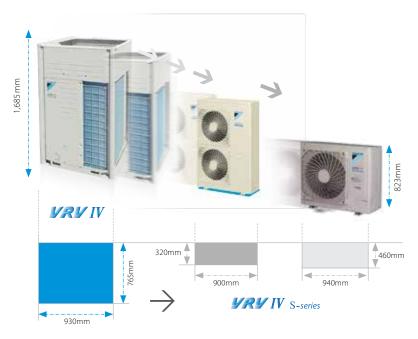
Unnoticeable for parapet installation





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-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	
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.

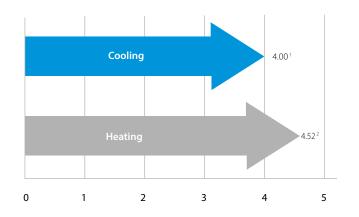
^{*} To connect stylish indoor units a BPMKS unit is needed



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.

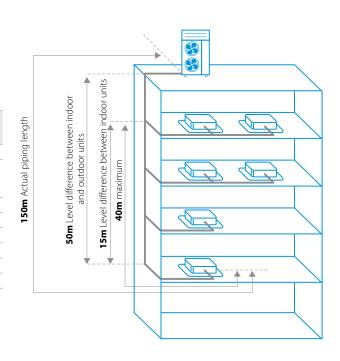
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°C, equivalent refrigerant piping: 5m, level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m,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

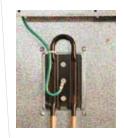


VRV IV S-series

technologies

Super aero grille

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



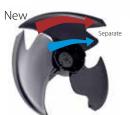
Refrigerantcooled PCB

- 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%

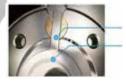
Improved fan blades







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

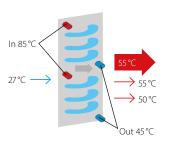
E-Pass heat exchanger

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.

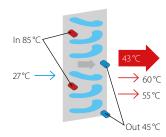
I-demand function

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

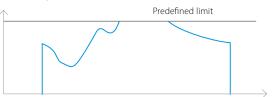
Standard heat exchanger



e-Pass heat exchanger



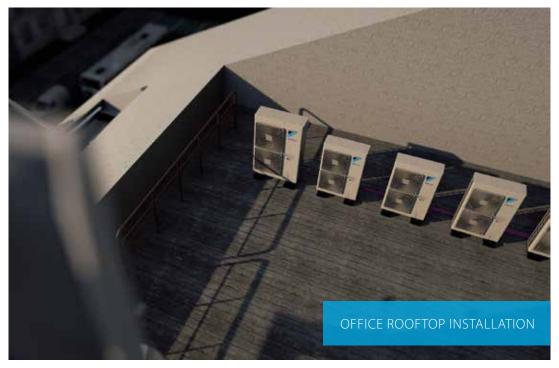
Power consumption















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



to LOT 21 - Tier 2

Published data with real-life indoor units

Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	
Flexi type unit	FLXS-B(9)			•	•		•	•	



Access all technical information on RXYSCQ-TV1 at my.daikin.eu or click here

Outdoor unit			RXYSCQ	4TV1	5TV1
Capacity range			HP	4	5
Cooling capacity	Prated,c		kW	12.1	14.0
Heating capacity	Prated,h		kW	8.4	9.7
	Max.	6°CWB	kW	14.2	16.0
Recommended com	oination			3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB	4 x FXSQ32A2VEB
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	connectable	indoor units		64	
Indoor index	Min.			50.0	62.5
connection	Nom.			-	
	Max.			130.0	162.5
Dimensions	Unit	HeightxWidthxDepth	mm	823x940	x460
Weight	Unit		kg	94	
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	-5.0~4	6.0
	Heating	Min.~Max.	°CWB	-20.0~1	5.5
Refrigerant	Type/GWP			R-410A/2,	.087.5
	Charge		kg/TCO2Eq	3.7/7.	7
Piping connections	Liquid	OD	mm	952	
	Gas	OD	mm	15.9	
	Total piping length	System Actual	m	300	
Power supply	Phase/Frequ	uency/Voltage	Hz/V	1~/50/22	0-240
Current - 50Hz	Maximum f	use amps (MFA)	A	32	





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





Published data with real-life indoor units

Connectable stylish indoor units

		15 CLASS	20 CLASS	25 CLASS	35 CLASS	42 CLASS	50 CLASS	60 CLASS	71 CLASS
Round flow cassette	FCAG-B				•		•	•	•
Fully flat cassette	FFA-A9			•	•		•	•	
Slim concealed ceiling unit	FDXM-F9			•	•		•	•	
Concealed ceiling unit with inverter driven fan	FBA-A(9)			•	•		•	•	
Daikin Emura - Wall mounted unit	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Ceiling suspended unit	FHA-A(9)				•		•	•	
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Concealed floorstanding unit	FNA-A9			•	•		•	•	
Flexi type unit	FLXS-B(9)			•	•		•	•	



Access all technical information on RXYSQ-T8V at my.daikin.eu or click here



Access all technical information on RXYSQ-T8Y at my.daikin.eu or click here



Access all technical information on RXYSQ-TY1 at my.daikin.eu or click here

Outdoor unit			RXYSQ/RXYSQ/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
Recommended com	bination			3 x FXSQ25A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB	3 x FXSQ25A2VEB	4 x FXSQ32A2VEB	2 x FXSQ32A2VEB	4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB
				+1 x FXSQ32A2VEB		+2 x FXSQ40A2VEB	+1 x FXSQ32A2VEB		+2 x FXSQ40A2VEB			
ηs,c			%	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 o	f connectable	indoor units						64				
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	HeightxWidt	hxDepth 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	5	1.0	50.0	5	1.0	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						F	R-410A/2,087.	.5			
	Charge		kg/TCO2Eq			3.6	/7.5			5.5/11.5	7.0/14.6	8.0/16.7
Piping connections	Liquid	OD	mm				95	52				127
	Gas	OD	mm	15	5.9	19.1	15	5.9	19	9.1	22.2	25.4
	Total piping length	System	Actual 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 (MF	A) A		32			16		2	!5	32

VRV IV i-series heat pump

for indoor installation







Ventilatio

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



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

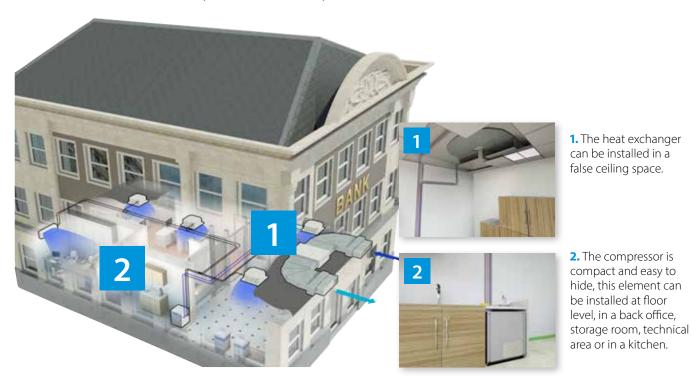
Lightweight parts can be installed by two people



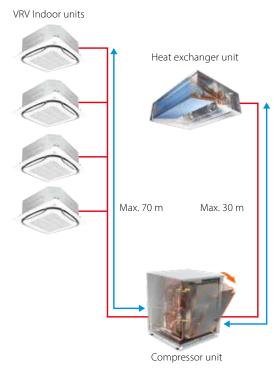
Unique split outdoor unit for indoor installation

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.

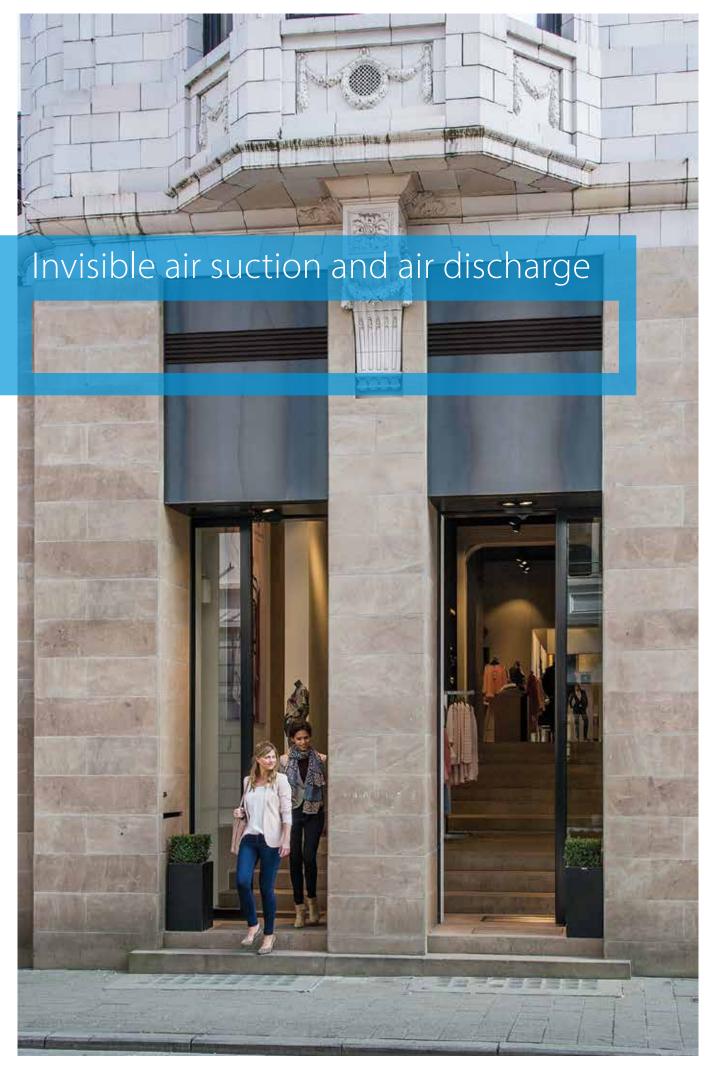
Unrivalled flexibility thanks to the fact that the outdoor unit is split into two parts



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

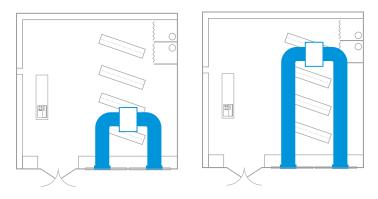
Example 1 High flexibilty

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

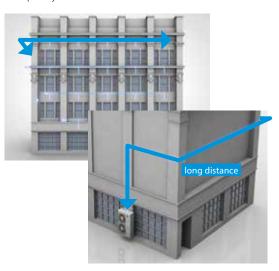


Example 2

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

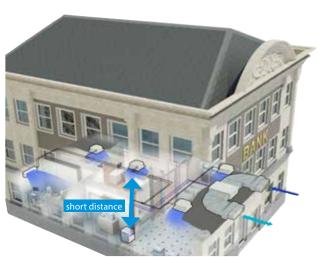
Back alley or rooftop needs very long piping lengths

- > 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

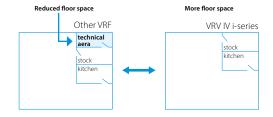


Example 3

No need for bulky and expensive sound countermeasures

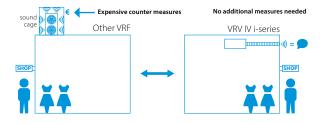
To comply with city regulation countermeasures are needed for standard units

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



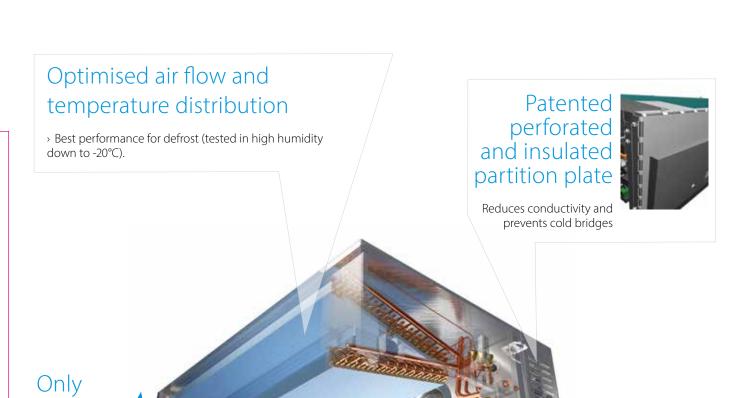
With VRV IV i-series you easily comply with city regulation without additional measures

- 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



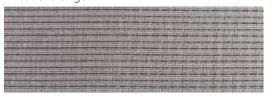


400mm high Fits easily in

any false ceiling

Standard delivered filter

> with the unit to prevent dirt from entering the heat exchanger



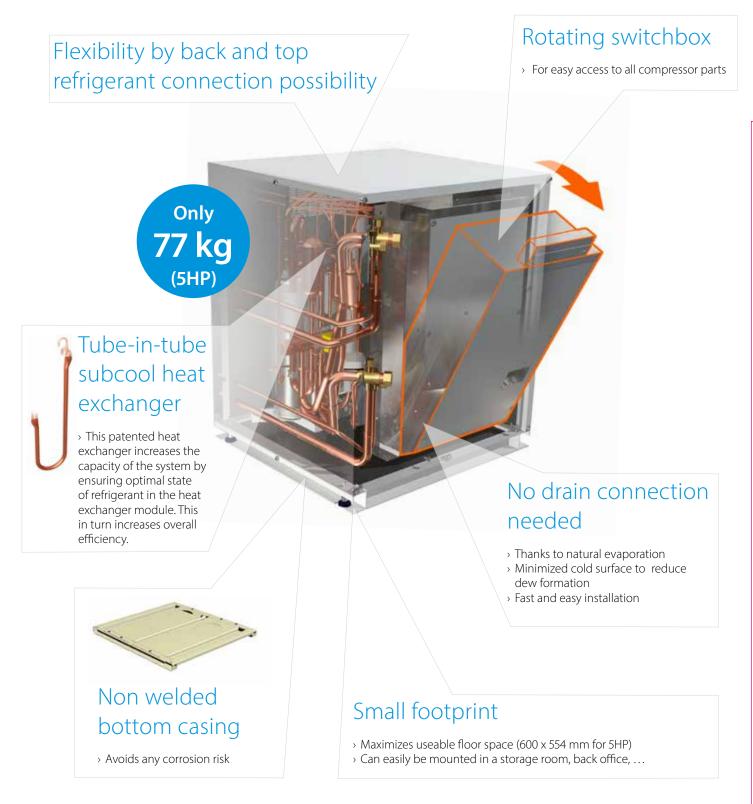
Super efficient centrifugal fans

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



Compressor unit with rotating switchbox

Flexible and easy to install

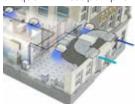




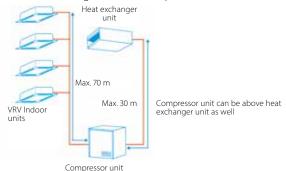
VRV IV heat pump for indoor installation

The invisible VRV

> Unique VRV heat pump for indoor installation



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



- > Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors



- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- > 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



Published data with real-life indoor units



Access all technical information on SB-RKXYQ-T at my.daikin.eu or click here



Access all technical information on SB-RKXYQ-T(8) at my.daikin.eu or click here

System			SB.RKXYQ	5T8	8T
System	Heat exchanger unit			RDXYQ5T8	RDXYQ8T
	Compressor unit			RKXYQ5T8	RKXYQ8T
Capacity range			HP	5	8
Cooling capacity	Prated,c		kW	14.0	22.4
Heating capacity	Prated,h		kW	10.4	12.9
	Max.	6°CWB	kW	16.0	25.0
Recommended com	bination			4 x FXSQ32A2VEB	4 x FXMQ50P7VEB
ηs,c			%	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	S		10	17
Indoor index	Min.			62.5	100.0
connection	Nom.				-
	Max.			162.5	260.0
Piping connections	Liquid	OD	mm		-
	Gas	OD	mm		-
	Between Compressor	Liquid C	DD mm	1.	2.7
	module (CM) and heat exchanger module (HM)	Gas C	DD mm	19.1	22.2
	Between Compressor		DD mm	9	.52
	module (CM) and indoor units (IU)	Gas C	DD mm	15.9	19.1
	Total piping length	System A	Actual m	140	300

				Heat exchang	er module - RDXYQ	Compressor m	odule - RKXYQ
Outdoor unit modu	le			5T8	8T	5T8	8T
Dimensions	Unit	HeightxWidthxD	epth mm	397x	1,456x1,044	701x600x554	701x760x554
Weight	Unit		kg	95	103	79	105
Fan	Air flow rate	Cooling Non	n. 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/-	R-410A	/2,087.5
	Charge		kg/TCO2Eq		-/-	2.00/4.20	4.00/8.35
Power supply	Phase/Frequency/Voltage Hz/		Hz/V	1N~/50/220-240		3N~/50	/380-415
Current - 50Hz	Maximum fuse amps (MFA) A			10	16	20	

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

VRV IV C+ series

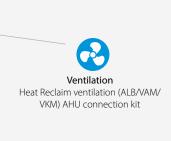
Where heating is priority without compromising on efficiency



Control systems



Air curtainBiddle Air curtain for VRV (CYV)





VRV IV standards:

Variable refrigerant temperature

Customize your VRV for best seasonal efficiency & comfort

VRV configurator

Software for simplified commissioning, configuration and customisation

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

Dutdoor Units







RXYLQ-T

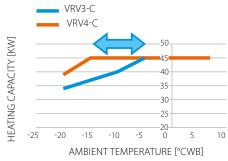
Where heating is priority without compromising on efficiency



High heating capacity at low ambient temperatures

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







High partial load efficiency

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





High reliability down to -25°C WB

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





High seasonal efficiency

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





The known VRV IV standards

- ☑ Variable Refrigerant Temperature
- ✓ VRV configurator

Total solution



Daikin Emura Wall mounted unit



Biddle air curtain



Air handling unit for ventilation



Nexura Floor standing unit



Intelligent Manager



Low temperature hydrobox



Fully flat cassette

VRV heat pump optimised for heating

Where heating is priority without compromising on efficiency

- Specifically developed for heating operation in low ambient conditions, making it suitable for single source heating
- > Stable heating capacity down to -15°C, thanks to vapour injection compressor
- > Extended operation range down to -25°C in heating
- > High reliability in severe conditions, thanks to hot gas bypass circuit in the heat exchanger
- > 15% increased heating capacity at high relative humidity (2°CDB/1°CWB and RH=83%) vs previous model
- Shorter defrost and heat up time, compared to standard VRV heat pump
- 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: possibility to combine VRV with stylish indoor units (Daikin Emura, Nexura, ...)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor, ...
- > Free combination of outdoor units to meet installation space or efficiency requirements
- > Wide piping flexibility: 30m indoor height difference, maximum piping length: 190m, total piping length: 500m
- Less installation time and smaller footprint compared to previous model thanks to removal of function unit



Already fully compliant to LOT 21 - Tier 2

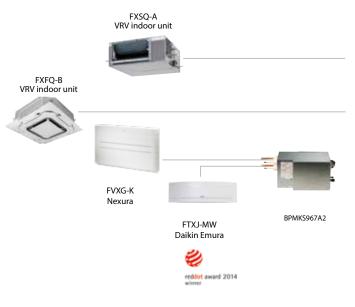
Access all technical information on RXYLQ-T at my.daikin.eu or click here

Published data with real-life indoor units

		RXYLQ		10T		12T		14T				
		HP		10		12		14				
Prated,c		kW		28		33.5		40				
Prated,h		kW		31.5		37.5		45				
Max.	6°CWB	kW		31.50		37.50		45.00				
oination			4 x FX	MQ63P7VEB		6 x FXMQ50P7VE	B 1 x	FXMQ50P7VEB + 5	x FXMQ63P7VEB			
		%		251.4		274.4		270.1				
		%		144.3		137.6		137.1				
				6.36		6.93		6.83				
fconnectable	indoor units				'							
Min.				175				245				
Nom.												
	HeightxWid	hxDepth mm										
		<u> </u>										
	Nom.			77				81				
						59						
		°CDB	-5.0~43.0									
	TTILL TTIGAL											
		ka/TCO2Fa										
	OD			9.5	127	12.7						
Total piping	System	Actual m		500								
	uency/Voltage	Hz/V				3N~/50/380-415						
				25		314 7307300 413						
			107		207	227		267	28T			
0.44	:s - 1	RXTLQ						-	RXYLQ14T			
				-	-	-	-	-				
Outdoorun	it module 2	LID			-	-	-	-	RXYLQ14T			
Dueste d e									28			
			44.8	50.4	50		67	/3.5	80			
	505145											
max. pination	e-CMR	KVV	4 x FXMQ63P7VEB + 2 x FXMQ80P7VEB	3 x FXMQ50P7VEB + 5 x FXMQ63P7VEB	2 x FXMQ50P7VEB	6 x FXMQ50P7VEB	4 x FXMQ50P7VEB + 4 x FXMQ63P7VEB	7 x FXMQ50P7VEB	90 6 x FXMQ50P7VEB + 4 x FXMQ63P7VE + 2 x FXMQ80P7VE			
		%			1	-		1				
						_						
						_						
						_						
f connectable	indoor units					64 (1)						
	macor arms		280	315	350		420	455	490			
									700			
									910			
	OD	mm			-							
					-	+	13.3		•••			
Total piping length	System	Actual m	20.0	20.0	20.0	500	1	J 4 .7				
			1									
	uency/Voltage	e Hz/V	ĺ			3N~/50/380-415						
	Prated,h Max. Dination f connectable Min. Nom. Max. Unit Unit Cooling Cooling Heating Type/GWP Charge Liquid Gas Total piping length Phase/Freq Maximum f Outdoor un Outdoor un Prated,c Prated,h Max. Dination f connectable Min. Nom. Max. Liquid Gas	Prated,h Max. 6°CWB Dination f connectable indoor units Min. Nom. Max. Unit HeightxWidt Unit Cooling Nom. Cooling Min.~Max. Type/GWP Charge Liquid OD Gas OD Total piping System length Phase/Frequency/Voltage Maximum fuse amps (MF) Outdoor unit module 1 Outdoor unit module 2 Prated,c Prated,c Prated,c Prated,h Max. 6°CWB Dination f connectable indoor units Min. Nom. Max. Liquid OD Gas OD	Prated,c kW Prated,h kW Max. 6°CWB kW Dination F connectable indoor units Min. Nom. Max. Unit HeightxWidthxDepth mm Unit kg Cooling Nom. dBA Cooling Nom. dBA Cooling Min.~Max. °CWB Heating Min.~Max. °CWB Type/GWP Charge kg/TC02Eq Liquid OD mm Gas OD mm Total piping System Actual meingth Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A RXYLQ Outdoor unit module 1 Outdoor unit module 2 HP Prated,c kW Prated,h kW Max. 6°CWB kW Dination F connectable indoor units Min. Nom. Max. Liquid OD mm Gas OD mm Max. Liquid OD mm Mm	HP	HP	HP	HP	Prated,	Prated_			









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	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Flexi type unit	FLXS-B(9)			•	•		•	•	

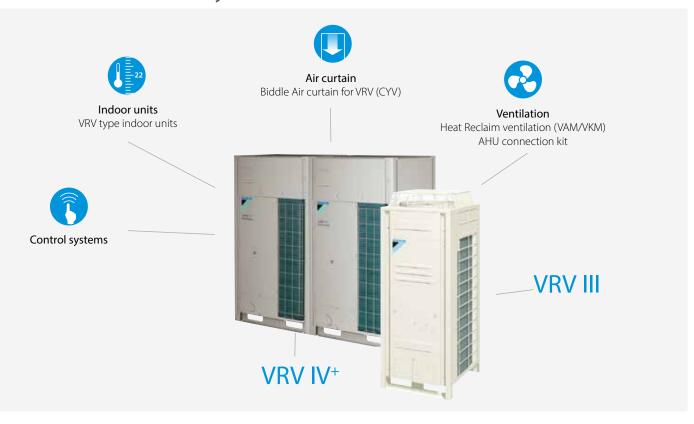
BPMKS box needed to connect RA indoors to VRV IV (RYYQ / RXYQ)

Outdoor unit				RXYLQ	30T	32T	34T	36T	38T	40T	42T
System	Outdoor un	nit module 1			RXYLQ10T	RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ14T
	Outdoor un	it module 2	2		RXYLQ10T	RXYLQ10T	RXYLQ12T	RXYLQ12T	RXYLQ12T	RXYLQ14T	RXYLQ14T
	Outdoor un	it module 3	3			RXYLQ12T			RXYLQ14T		
Capacity range				HP	30	32	34	36	38	40	42
Cooling capacity	Prated,c			kW	84	89,5	95	101	107	114	120
Heating capacity	Prated,h			kW				-			
	Max.	6°CWB		kW	94,5	100,5	106,5	112,5	120	127,5	135
Recommended com	oination				9 x FXMQ50P7VEB	8 x FXMQ63P7VEB	3 x FXMQ50P7VEB	2 x FXMQ50P7VEB	6 x FXMQ50P7VEB	9 x FXMQ50P7VEB	12 x FXMQ63P7\
					+ 5 x FXMQ63P7VEB	+ 4 x FXMQ80P7VEB	+9 x FXMQ63P7VEB	+ 10 x FXMQ63P7VEB	+ 10 x FXMQ63P7VEB	+ 9 x FXMQ63P7VEB	+ 4 x FXMQ80P7\
							+ 2 x FXMQ80P7VEB	+ 2 x FXMQ80P7VEB			
ηs,c				%				-			
ηs,h				%				-			
SEER								-			
SCOP								-			
Maximum number o	fconnectable	indoor unit	S					64 (1)			
Indoor index	Min.				525	560	595	630	665	700	735
connection	Nom.				750	800	850	900	950	1000	1050
	Max.				975	1040	1105	1170	1235	1300	1365
Piping connections	Liquid	OD		mm	19,1	19,1	19,1	19,1	19,1	19,1	19,1
	Gas	OD		mm	34,9	34,9	34,9	41,3		41,3	
	Total piping length	System	Actual	m				500			
Power supply	Phase/Freq	uency/Volta	age	Hz/V				3N~/50/380-415			
Current - 50Hz	Maximum f	use amps (N	MFA)	Α		8	30			90	
0				DVIII O				^			
Outdoor unit	11-4	11=:= =4:30/	i dala Da ala	RXMLQ				8T			
Dimensions	Unit	neigntxw	idthxDepth	mm				1,685x1,240x765			
Weight	Unit	News		kg				302			
Sound power level	Cooling	Nom.		dBA dBA				75,0 55.0			
Sound pressure level	Cooling	Min.~Max		°CDB				-5.0~43.0			
Operation range	Cooling	Min.~Max		°CWB				-5.0~43.0			
Dofrigorant	Heating Type/GWP	win.~wax	4.	CWB				-25.0~16.0 R-410A/2,087.5			
Refrigerant				I/TCO2F-							
D' ' '	Charge	OD		kg/TCO2Eq				11.8/24.6			
Piping connections	Liquid			mm				9.5			
	Gas	OD	Actual	mm				19.1 500			
	Total piping length	System		m							
Power supply	Phase/Freq	•	•	Hz/V				3N~/50/380-415			
Current - 50Hz (1) Actual number of conne	Maximum f	use amps (N	VIFA)	Α				20			



Replacement VRV

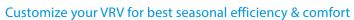
Quick & quality replacement for R-22 and R-407C systems



IRV IV Q⁺series

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

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

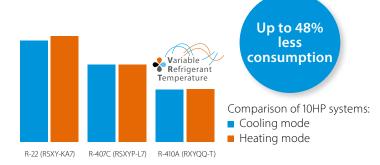
No interruption of daily business while replacing the system thanks to phased-in, fast installation.

Smaller footprint, more performance

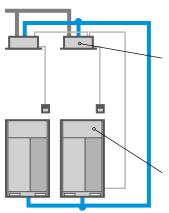
Thanks to a smaller footprint, Daikin outdoor units save space. Also, more indoor units can be connected to the new outdoor unit compared to the old system, allowing to increase capacity.

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 Daikir will last over 60 years after installation.
- Japan/China have replaced with VRV Q-series already 10 years ago!

Umeda Center Building, Japan

- → 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 40% can be realized, thanks to technological developments in heat pump technology and the more efficient R-410A refrigerant
- > Less intrusive and time consuming installation compared to installing a new system, as the refrigerant piping can be maintained
- Unique automatic refrigerant charge eliminates the need to calculate refrigerant volume and allows safe replacement of competitor replacement
- > Automatic cleaning of refrigerant piping ensures a clean piping network, even when a compressor breakdown has occurred
- Possibility to add indoor units and increase capacity without changing the refrigerant piping
- Possibility to spread the various stages of repclacement thanks to the modular design of the VRV system
- > Accurate temperature control, fresh air provision, air handling units and Biddle air curtains all integrated in a single system requiring only one single point of contact (RXYQQ-T only)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant
- > Temperature and full inverter compressors (RXYQQ-T only)
- > Free combination of outdoor units to meet installation space or
- efficiency requirements (RXYQQ-T only)





Already fully compliant

to LOT 21 - Tier 2

Published data with real-life indoor units



Access all technical information on RQCEQ-P3 at my.daikin.eu or click here

Outdoor unit System	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		RQEQ140P3	RQEQ180P3	RQEQ140P3	RQEQ	180P3	RQEQ212P3	RQEQ	180P3	RQEQ	212P3		
	Outdoor un	it module 3			-		RQEQ180P3	3	RQEQ212P3	RQEQ180P3		RQEQ212P3	3		
	Outdoor un	it module 4					-				RQEQ	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		
Recommended comb	oination			4 x FXMQ63P7VEB	4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	4 x FXSQ32A2VEB	12 x FXSQ40A2VEB	3 x FXSQ40A2VEB	4 x FXSQ32A2VEB	4 x FXSQ32A2VEB	7 x FXSQ40A2VEB	4 x FXSQ40A2VE		
					+2xFXMQ63P7VEB	+2xFXMQ80P7VEB	+8 x FXSQ40A2VEB		+9 x FXSQ50A2VEB	+9 x FXSQ40A2VEB	+6 x FXSQ40A2VEB	+9xFXSQ50A2VEB	+ 12 x FXSQ50A2V		
										+3 x FXSQ50A2VEB	+6 x FXSQ50A2VEB				
ηs,c			%	200	185	191	201	198	186	1:	94	204	187		
ηs,h			%	159	157	161	150	148	157	153	1:	55	157		
SEER									-						
SCOP									-						
Maximum number of	connectable	indoor units		21	28	34	39	43	47	52	56	60	64		
Indoor index	Min.			140	180	230	250	270	318	356	356 372		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 A	ctual m					3	00						
Power supply	Phase/Freq	uency/Voltage	Hz/V		3~/50/400										
Current - 50Hz	Maximum f	use amps (MFA)	А	30	40	50	6	60	70	8	30	9	90		
Outdoor unit modu	le		ROEO-P3		140P3			18	0P3			212P3			
Dimensions	Unit	HeightxWidth	xDepth mm					1,680x6	535x765						
Weight	Unit		kg				175					179			
Fan	Air flow rate	Cooling N	lom. m³/min		95					110					
	Туре							Prope	ller fan						
Sound power level	Cooling	Nom.	dBA		79				83 87						
Sound pressure level	Cooling	Nom.	dBA						-						
Operation range	Cooling	Min.~Max.	°CDB					-5-	~43						
. 3	Heating	Min.~Max.	°CWB					-20~	-15.5						
Refrigerant	Type/GWP								/2,087.5						
J	Charge		kg/TCO2Eq		10.3/21.	5		10.6				11.2/23.4			
Power supply		uency/Voltage	Hz/V						380-415						
Current - 50Hz		use amps (MFA)	Α		15				20			22.5			





Replacement VRV, heat pump





Access all technical information on RQYQ-P at my.daikin.eu or click here



Access all technical information on RXYQQ-U at my.daikin.eu or click here

			RXYQQ/RQYQ-P	140P	3	BU	10U	12U		14U	16U	18	U	20U				
			HP	5		8	10	12		14	16	18	3	20				
Prated,c			kW	14.0	2	2.4	28.0	33.5		40.0	45.0	50	4	52.0				
Prated,h			kW	16.0	1	3.7	16.0	18.4		20.6	23.2	27.	9	31.0				
Max.	6°CWB		kW	-	2	5.0	31.5	37.5		45.0	50.0	56	5	63.0				
ination				4 x FXSQ32A2	VEB 4 x FXF	Q50AVEB	4 x FXFQ63AVEB	6 x FXFQ50	AVEB 1 x F	XFQ50AVEB	4 x FXFQ63AVE	B 3 x FXFQ	50AVEB 2 x	FXFQ50AVEB				
									+5x	FXFQ63AVEB	+ 2 x FXFQ80AV	EB + 5 x FXFC	63AVEB + 6	x FXFQ63AVE				
			%	194	30	02.4	267.6	247.8	3	250.7	236.5	238	3.3	233.7				
			%	137	16	57.9	168.2	161.4	1	155.4	157.8	163	.1	156.6				
				-	7	7.6	6.8		6.3			6.0		5.9				
				-		4.3		4.1		4.0	0	4.:	2	4.0				
connectable	indoor units			10						64 (1)								
Min.				62.5	10	0.00	125.0	150.0)	175.0	200.0	225	.0	250.0				
Nom.				125						-								
					26	50.0	325.0	390 () .	455.0	520.0	585	0	650.0				
	HeightxWi	dthxDepth	mm															
								-		27								
Air flow rate	Coolina	Nom.								-	-		500					
					7	8.0	79 1	83.4		80.9	85.6	83	8	87.9				
				-														
				-5~43		37.10		01.10	-5		05.0	02		05.0				
					5													
	TTILL TTIGAL		C5	20 .5	-			R										
			kn/TCO2Fn	11 1/23	2 59	/123	6.0/12.5	_			11 3/23 6	11.7/	24.4 1	11.8/24.6				
					2 3.5.			0.5, 15			1113, 2310	1107						
					1					12.7	28.6		.5.5					
		Actual		15.5		2.1	22.2		300		20.0							
				3~/50/380-41	5					50/380-415	:							
					_	20	25	1		00/360-413	,	40		50				
Maximum	iuse arrips (iv	i Aj	, A	13					32			70						
n + Module			RXYQQ	22U		26U		30U						42U				
				RXYQQ10U										Q10U				
Outdoor u	nit module 2			RXYQQ12U	RXYQQ16U	RXYQQ14U	RXYQQ16U	RXYQQ18U	RXYQQ16U	RXYQQ18U	RXYQQ20U	RXYQQ10U	RXYQQ12U	RXYQQ16U				
Outdoor u	nit module 3						-					RXYQQ20U	RXYQQ18U	RXYQQ16U				
			HP	22	24	26	28	30	32	34	36	38	40	42				
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				
Prated,h			kW	34.4	36.9	39.0	41.6	46.3	46.4	51.1	54.2	60.7	62.3	62.4				
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				
oination				6 x FXFQ50AVEB	4 x FXFQ50AVEB	7 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB	8 x FXFQ63AVEB	3 x FXFQ50AVEB	2 x FXFQ50AVEB	6 x FXFQ50AVEB	9 x FXFQ50AVEB	12 x FXFQ63AVE				
				+4xFXFQ63AVEB	+4xFXFQ63AVEB	+5xFXFQ63AVEB	+4xFXFQ63AVEB	+5 x FXFQ63AVEB	+4xFXFQ80AVEB	+ 9 x FXFQ63AVEB	+ 10 x FXFQ63AVEB	+ 10 x FXFQ63AVEB	+9xFXFQ63AVEB	+4xFXFQ80AVE				
					+2xFXFQ80AVEB		+2 x FXFQ80AVEB			+ 2 x FXFQ80AVEB	+2 x FXFQ80AVEB							
			%	274.5	269.9	264.2	257.8	256.8	251.7	253.3	250.8	272.4	263.5	261.2				
			%	171.2	167.0	164.6	166.0	169.8	163.1	166.2	162.4	167.5	170.0	165.5				
					6.8	6.7	6.	5	6	5.4	6.3	6.9	6.7	6.6				
				6.9				4.3	4	1.2	4.1	4	.3	4.2				
				6.9 4.4	4.3	4	7.2	1.5										
connectable	indoor units				4.3	4	T. Z	1.5	64									
connectable	indoor units				4.3 300.0	325.0	350.0	375.0	64 400.0	425.0	450.0	475.0	500.0	525.0				
	indoor units			4.4										525.0				
Min.	indoor units			4.4					400.0					525.0				
Min. Nom.	indoor units		mm	275.0	300.0 780.0	325.0	350.0	375.0	400.0	425.0	450.0	475.0	500.0					
Min. Nom. Max. Liquid	OD			4.4 275.0 715.0	300.0 780.0	325.0	350.0 910.0	375.0 975.0	400.0	425.0 1,105.0	450.0	475.0 1,235.0	500.0					
Min. Nom. Max. Liquid Gas	OD OD		mm	4.4 275.0 715.0	300.0 780.0	325.0	350.0	375.0 975.0	400.0 - 1,040.0	425.0 1,105.0	450.0	475.0	500.0					
Min. Nom. Max. Liquid Gas Total piping lengtl	OD OD	Actual		4.4 275.0 715.0	300.0 780.0	325.0	350.0 910.0	375.0 975.0	400.0	425.0 1,105.0 19.1	450.0	475.0 1,235.0	500.0					
	Prated,h Max. Joination connectable Min. Nom. Max. Unit Unit Unit Airflowrate Cooling Cooling Heating Type/GWP Charge Liquid Gas Total piping lengt Phase/Freq Maximum in H Module Outdoor ur Outdoor ur Outdoor ur Prated,c Prated,h Max.	Prated,h Max. 6°CWB ination connectable indoor units Min. Nom. Max. Unit HeightxWid Unit Airflowrate Cooling Cooling Nom. Cooling Nom. Cooling Min.~Max. Heating Min.~Max. Type/GWP Charge Liquid OD Gas OD Total piping length System Phase/Frequency/Voltag Maximum fuse amps (M n + Module Outdoor unit module 1 Outdoor unit module 3 Prated,c Prated,c Prated,h Max. 6°CWB	Prated,h Max. 6°CWB ination connectable indoor units Min. Nom. Max. Unit HeightxWidthxDepth Unit Airflowrate Cooling Nom. Cooling Nom. Cooling Nom. Cooling Min.~Max. Heating Min.~Max. Heating Min.~Max. Type/GWP Charge Liquid OD Gas OD Total piping length System Actual Phase/Frequency/Voltage Maximum fuse amps (MFA) n + Module Outdoor unit module 1 Outdoor unit module 3 Prated,c Prated,h Max. 6°CWB	Prated,c kW Prated,h kW Max. 6°CWB kW sination connectable indoor units Min. Nom. Max. Unit HeightxWidthxDepth mm Unit kg Airflowrate Cooling Nom. m³/min Cooling Nom. dBA Cooling Nom. dBA Cooling Nom. cCDB Heating Min.~Max. °CDB Heating Min.~Max. °CDB Liquid OD mm Gas OD mm Gas OD mm Gas OD mm Total pipinglength System Actual m Phase/Frequency/Voltage Hz/V Maximum fuse amps (MFA) A n+Module RXYQQ Outdoor unit module 1 Outdoor unit module 2 Outdoor unit module 3 HP Prated,c kW Prated,h kW Max. 6°CWB kW	HP S	HP 5	HP S 8 Prated,c	HP 5	HP 5 8 10 12	HP S 8 10 12 Prated.c kW 14.0 22.4 28.0 33.5 Prated.c kW 16.0 13.7 16.0 18.4 4 Max. 6°CWB kW - 25.0 31.5 37.5 15.0 15.0 15.0 15.0 15.0 15.0 15.0 16.2 161.4 5 161.4	Prated,c	HP 5 8 10 12 14 16	HP S S N N N N N N N N	Prated_c				

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

Software for simplified commissioning, configuration and customisation

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

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





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



Daikin Emura wall mounted unit



Biddle air curtain



Nexura Floor standing unit



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



Fully flat cassette



Low temperature hydrobox



Intelligent Manager



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

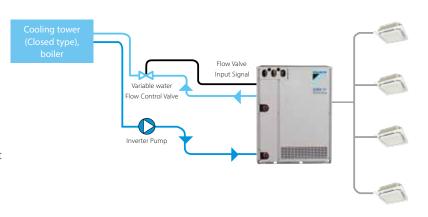
Maximum design flexibility and installation speed

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



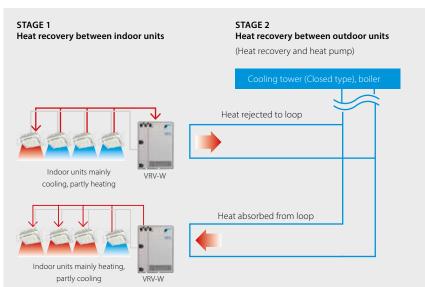
Single port

Multi port: 4 - 6 - 8 - 10 - 12 - 16



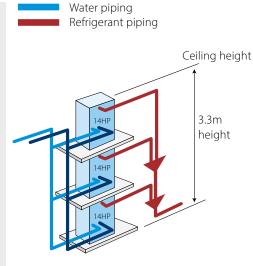
BS 10. 12 O14 A

2-stage heat recovery



Stacked configuration

BS 16 O14 A







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

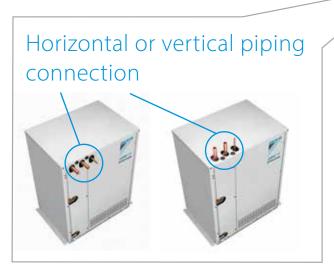
- > 67 x VRV water-cooled units
- 2 x VRV outdoor heat pump units
- > 289 VRV indoor units (265 ducts, 24 x cassettes)
- > 5 x Sky Air with Roundflow Cassettes
- > 4 x air-cooled water chillers
- > 11 x DMS504B51 (LonWorks gateway)

Awards

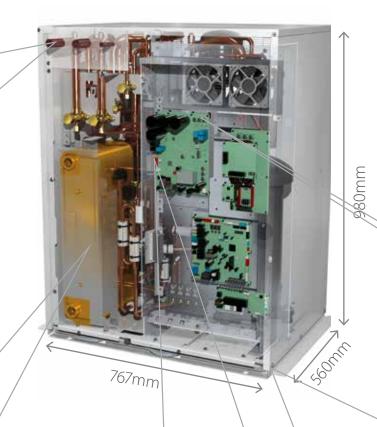
- Green Building of the Year 2012 (ROGBC)
- Environmental Social & Sustainability award (ESSA)

Innovations

for maximum flexibility and ease of installation



Highly improved efficiency thanks to enlarged heat exchanger



Easy access to components

Easy front plate removal

step 1



Rotating switchbox

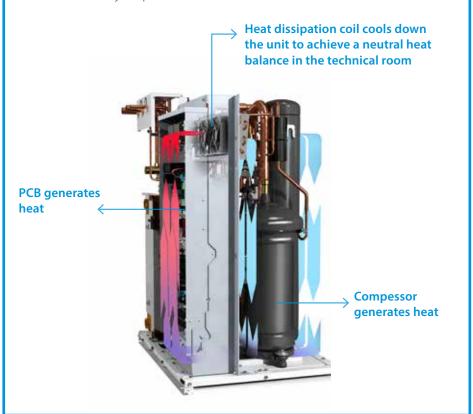


Zero heat dissipation principle

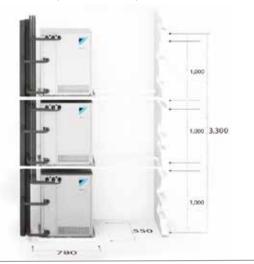
No need for ventilation or cooling of the technical room



> Enhancing installation flexibility and reliability of parts









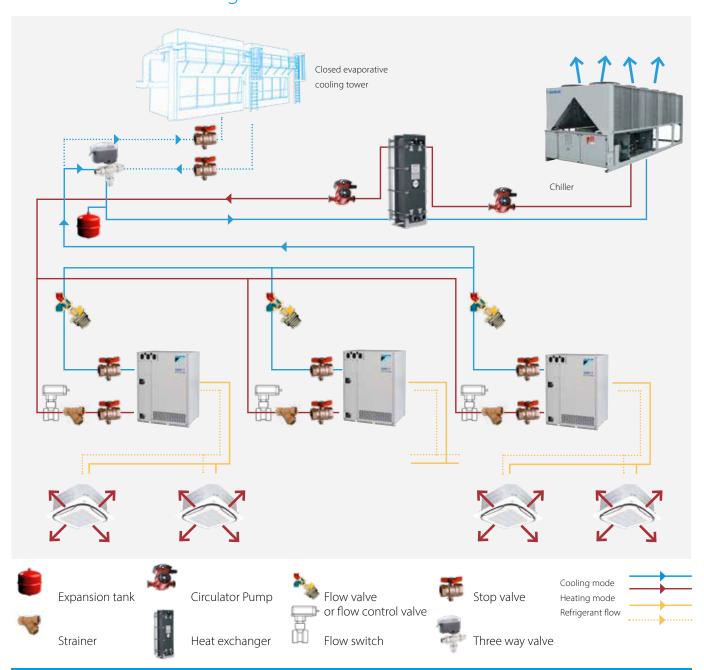


- > VRV configurator
- >7 segment display

Application

example

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



Benefits of this setup

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

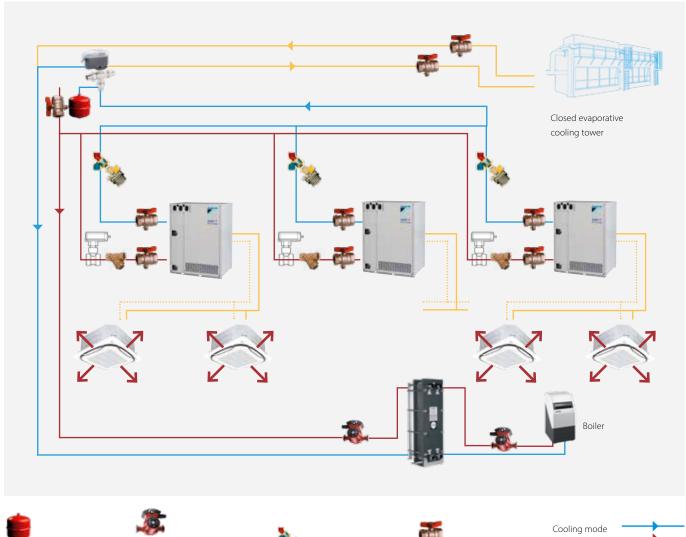
When to use?

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

Application

example

Dry cooler used for cooling, boiler used for heating





Benefits of this setup

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

the water temperature to stay within acceptable range even without using drycooler and boiler.

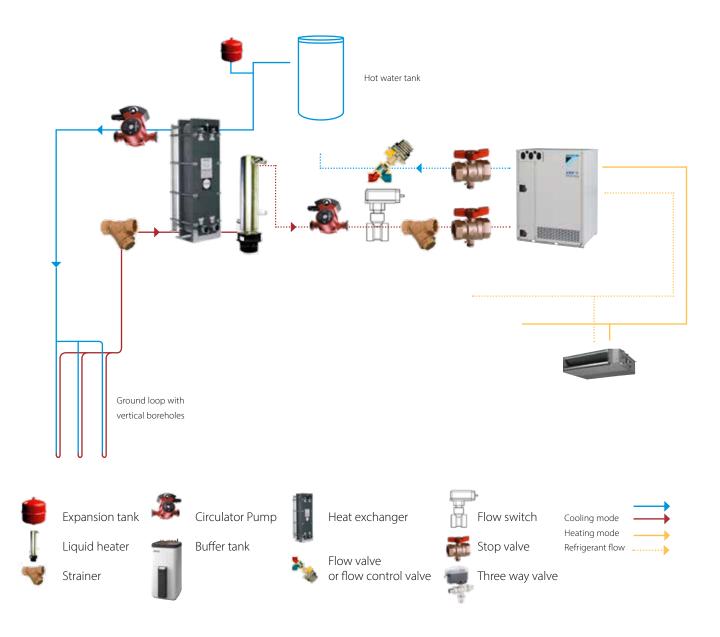
When to use?

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

Application

example

Geothermal operation



Benefits of this setup

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

When to use?

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

Ground loop

Examples

Open system

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



Conditions:

- At 20 m depth water has a constant temperature of 10°C through the year
- > Surface water cools down to 5°C during winter
- Can be the most economical type of geothermal system
- Constant ground water temperature has positive impact on heat pump efficiency
- Risk to damage system components because of water quality → a secondary loop might be required to protect the heat exchanger
- ➤ Water should be tested for acidity, mineral content, organic content and 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 10°C
- ✓ Less surface space required
- √ Very constant ground temperature
- × Expensive due to drilling cost





Horizontal loop system

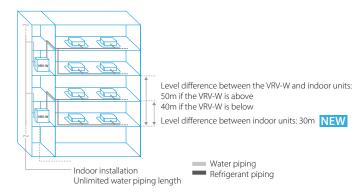
- > Typical trench depth: 1 2 m. The ground temperature varies, but always above 5°C (Exception: in cold areas)
- Slinky loop: the plastic geothermal loop pipe is coiled in overlapped circles and flattened (Installed where there is not enough space for closed horizontal)
- ✓ Installation is easier and 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
- > Unique zero heat dissipation principle obviates the need for ventilation or cooling in the technical room, maximising installation flexibility
- > Wide range of indoor units: possibility to combine VRV with stylish indoor units (Daikin Emura, Nexura, ...)
- > Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator, 7-segment display and full inverter compressors
- > Developed for easy installation and servicing: choice between top or front connection for refrigerant piping and rotating switch box for easy access to serviceable parts
- > Compact & lightweight design can be stacked for maximum space saving: 42HP can be installed in less than 0,5m² 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
- > 2 analogue input signals allowing external control of ON-OFF, operation mode, error signal, ...
- > Contains all standard VRV features





Already fully compliant to LOT 21 - Tier 2

Published data with real-life indoor units

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	FTXJ-MW/MS		•	•	•		•		
Wall mounted unit	CTXM-M	•			•				
Wall mounted unit	FTXM-N		•	•	•	•	•	•	•
Nexura - Floor standing unit	FVXG-K			•	•		•		
Floor standing unit	FVXM-F			•	•		•		
Flexi type unit	FLXS-B(9)			•	•		•	•	

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

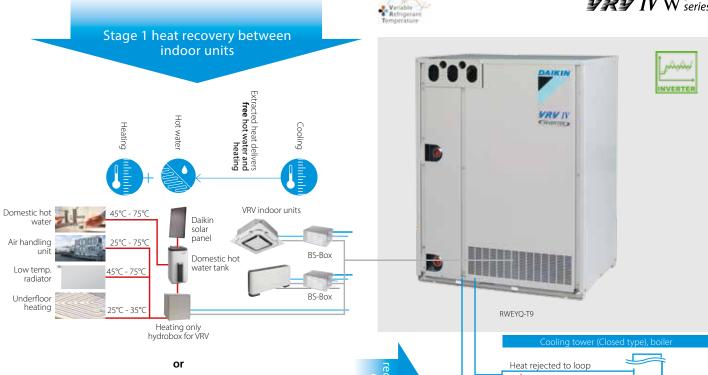


Access all technical information on RWEYQ-T9 at my.daikin.eu or click here

Outdoor unit				RWEYQ	8T9	10T9	12T9	14T9
Capacity range				HP	8	10	12	14
Cooling capacity	Prated,c			kW	22.4	28.0	33.5	40.0
Heating capacity	Prated,h			kW	25.0	31.5	37.5	45.0
	Max.	6°CWB		kW	25.0	31.5	37.5	45.0
Recommended com	bination				4 x FXMQ50P7VEB	4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	1 x FXMQ50P7VEB + 5 x FXMQ63P7VE
ης,ς				%	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	f connectable indoc	or units				64	(1)	
Indoor index	Min.				100.0	125.0	150.0	175.0
connection	Nom.				-			
	Max.				300.0	375.0	450.0	525.0
Dimensions	Unit	HeightxWid	dthxDepth	mm		980x76	57x560	·
Weight	Unit			kg	19	95		197
Sound power level	Cooling	Nom.		dBA	65.0	71.0	72.0	74.0
Sound 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	Max.		°CDB		4	0	
SEER SCOP Maximum number of Indoor index connection Dimensions Weight Sound power level Sound pressure level Operation range Refrigerant Piping connections	casing							
	Humidity around casing	Cooling~Heating	Max.	%		80-	~80	
Refrigerant	Type/GWP					R-410A	/2,087.5	
	Charge			kg/TCO2Eq	7.9/	16.5	9.6	5/20.0
Piping connections	Liquid	OD		mm	95	52		127
	Gas	OD		mm	19.1 (2)	22.2 (2)	28	3.6 (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/Outlet	Size			ISO 228-G1 1/4 B	/ISO 228-G1 1/4 B	
	Total piping length	System	Actual	m		50	00	
Power supply	Phase/Frequency	/Voltage		Hz/V		3N~/50/	380-415	
Current - 50Hz	Maximum fuse ar	mps (MFA)		Α	2	0		25







			or
Low temp. radiator		25°C - 45°C	
Underfloor heating		25°C - 35°C	
_	Liquid pipe		Reversible low temperature

Current - 50Hz

Maximum fuse amps (MFA)

Gas pipe Discharge gas pipe Hot water

Heat absorbed from loop * Above system configuration are for illustration purpose only.

Heat absorbed from loop

Heat rejected to loop

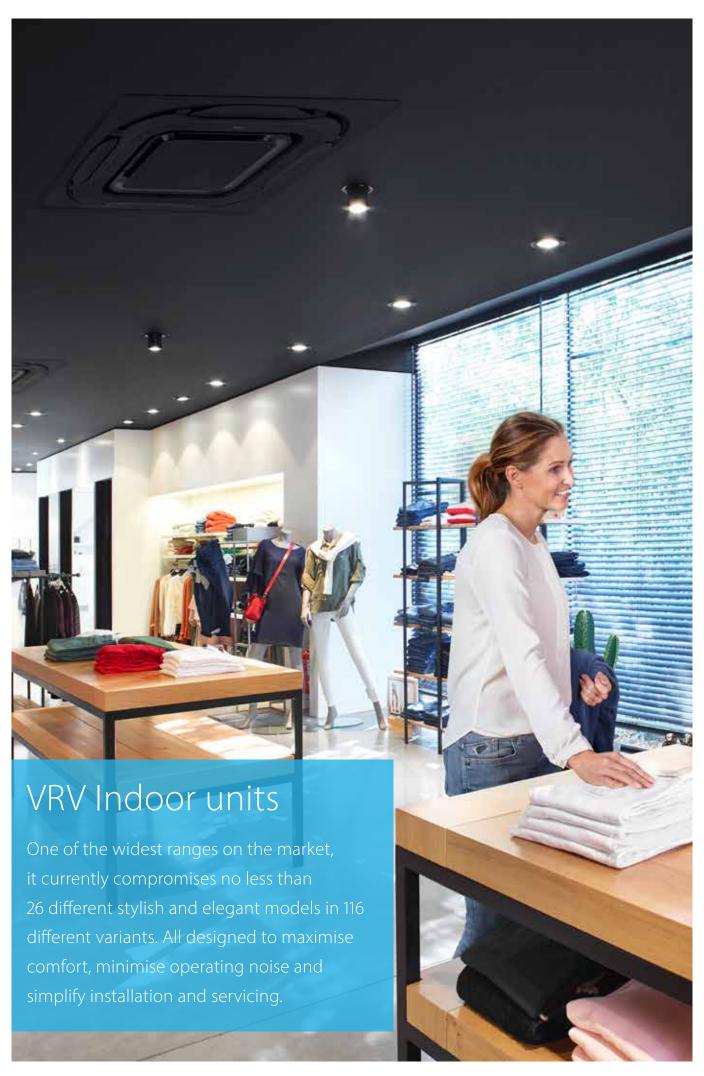
Outdoor unit Syster	m		RWEYQ	16T9	18T9	20T9	22T9	24T9	26T9	28T9
System	Outdoor unit me	odule 1		RWE	YQ8T	RWEY	'Q10T	RWEY	′Q12T	RWEYQ14T
	Outdoor unit mo	odule 2		RWEYQ8T	RWEY	/Q10T	RWEY	′Q12T	RWEY	Q14T
Capacity range			HP	16	18	20	22	24	26	28
Cooling capacity	Prated,c		kW	44.8	50.4	56.0	61.5	67.0	73.5	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
ηs,c			%	307.6	308.7	298.1	311.3	342.6	322.5	306.1
ηs,h			%	459.2	491.1	466.8	447.9	434.5	406.9	387.9
SEER				7	.9	7.7	8.0	8.8	8.3	7.9
SCOP				11.7	12.5	11.9	11.4	11.1	10.4	9.9
Recommended comb	bination			4 x FXMQ63P7VEB	6 x FXMQ50P7VEB	4 x FXMQ50P7VEB	8 x FXMQ63P7VEB	12 x FXMQ50P7VEB	7 x FXMQ50P7VEB	2 x FXMQ50P7VE
				+ 2 x FXMQ80P7VEB	+4xFXMQ63P7VEB	+4xFXMQ63P7VEB			+ 5 x FXMQ63P7VEB	+ 10 x FXMQ63P7V
Maximum number of	f connectable indo	or units					64 (1)			
Indoor index	Min.			200.0	225.0	250.0	275.0	300.0	325.0	350.0
connection	1101111						-			
	Max.			600.0	675.0	750.0	825.0	900.0	975.0	1,050.0
Piping connections	Liquid	OD	mm 127 159 19		91					
. •	Gas OD mm 28.6 (2) 34.9 (2)									
	HP/LP gas	OD	mm	22.2 (3)	/ 28.6 (4)	28.6 (3) / 28.6 (4)	28.6 (3) / 28.6 (4)		28.6 (3) / 34.9 (4)	
	Total piping length	System	Actual m				500			
Power supply	Phase/Frequenc	y/Voltage	Hz/V				3N~/50/380-415			
Current - 50Hz	Maximum fuse a	mps (MFA)	A	3	2	35	4	.0	5	0
Outdoor unit Syster	m		RWEYO	30T9	32T9	34T9	36T9	38T9	40T9	42T9
System	Outdoor unit me	ndule 1		50.2	RWEYQ10T	22	30.5	RWEYQ12T		RWEYQ14T
-,	Outdoor unit me			RWE	/Q10T		RWEYQ12T		RWE	
	Outdoor unit me			RWEYO10T		RWEYO12T			RWEYO14T	
Capacity range			HP	30	32	34	36	38	40	42
Cooling capacity	Prated.c		kW	84.0	89.5	95.0	100.5	107.0	113.5	120.0
Heating capacity	Prated,h		kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0
	Max.	6°CWB	kW	94.5	100.5	106.5	112.5	120.0	127.5	135.0
Recommended comb		0 0110		12 x FXMO63P7VEB	6 x FXMO50P7VEB	12 x FXMO50P7VEB	18 x FXMO50P7VEB	13 x FXMQ50P7VEB	8 x FXMQ50P7VEB	3 x FXMO50P7VEI
						+ 4 x FXMQ63P7VEB			+ 10 x FXMQ63P7VEB	
ηs,c			%	308.3	318.2	342.5	352.3	338.8	341.4	332.9
ηs,h			%	467.2	456.1	447.0	438.5	419.4	404.4	391.2
SEER			,-	7.9	8.2	8.8	9.0		.7	8.5
				-		11.4	11.2	10.7	10.3	10.0
SCOP				11.9	11.6					
SCOP Maximum number of	f connectable indo	or units		11.9	11.6	11.4	64 (1)	10.7		
	f connectable indo Min.	or units		375.0	400.0	425.0		475.0	500.0	525.0
Maximum number of		or units					64 (1)		500.0	525.0
Maximum number of Indoor index	Min. Nom.	or units		375.0	400.0	425.0	64 (1) 450.0 -	475.0		
Maximum number of Indoor index connection	Min. Nom. Max.		mm				64 (1) 450.0 - 1,350.0		500.0	525.0 1,575.0
Maximum number of Indoor index	Min. Nom. Max. Liquid	OD	mm	375.0	400.0	425.0	64 (1) 450.0 -	475.0 1,425.0	1,500.0	
Maximum number of Indoor index connection	Min. Nom. Max. Liquid Gas	OD OD	mm	375.0 1,125.0	400.0 1,200.0 34.9	425.0	64 (1) 450.0 - 1,350.0	475.0 1,425.0	1,500.0	
Maximum number of Indoor index connection	Min. Nom. Max. Liquid Gas HP/LP gas	OD OD OD	mm mm	375.0 1,125.0	400.0	425.0	64 (1) 450.0 - 1,350.0 19.1 (2)	475.0 1,425.0	1,500.0	
Maximum number of Indoor index connection	Min. Nom. Max. Liquid Gas	OD OD OD System	mm	375.0 1,125.0	400.0 1,200.0 34.9	425.0	64 (1) 450.0 - 1,350.0	475.0 1,425.0 41.3 (3)	1,500.0	

⁽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 of heat recovery system (4) in case of heat pump system m (50% <= CR <= 130%) | (2) In case of heat pump system, gas pipe is not used (3) In case

63

50

Α



VRV Indoor units

VRV indoor units

	VIIV IIIdoor driits	
UNIQUE UNIQUE	Ceiling mounted cassette units FXFQ-B FXZQ-A FXCQ-A FXKQ-MA	107 108 112 113
UNIQUE SLIMMEST IN CLASS	Concealed ceiling units	114 115 116 117 118
UNIQUE	Wall mounted unit FXAQ-A Ceiling suspended units FXHQ-A FXUQ-A	119 120 121
SLIMMEST IN CLASS	Floor standing units FXNQ-A FXLQ-P	122

Stylish indoor units

	BPMKS	
	Accessory to connect stylish indoor units	124
	Wall mounted	
	FTXJ-MW/MS	126
	CTXM-M / FTXM-N	127
NIQUE ESIGN UNIT	Floor standing	
	FVXG-K	129
	FVXM-F	130
NIQUE DIATING PANEL	Flori trung conit	
	Flexi type unit	124
	FLXS-B(9)	131

Products overview **JRJ**

Capacity class (kW)

Type	Model	Pr	oduct name	15	20	25	32	40	50	63	71	80	100	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! > Widest choice ever in decoration panel designs and colors	FXFQ-B		•	•	•	•	•	•		•	•	•		d	NEW Black an designe panels
Ceiling mounted 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 mou	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			•	•	•		•							
	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	•	•	•	•	•	•	•			ito cl lter c				ulti zon option
Concealed ceiling	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 leve! > 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	•	•	•	•	•	•	•		•	•	•	•	Mu	ulti zon option
Conc	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	ł												•	•
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	•	•	•	•	•	•	•							
Ceiling 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				•			•			•				
Ceiling 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								•		•				
Floor 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]	•	•	•	•	•	•							
Floor st	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		•	•	•	•	•	•							_
	g capacity (kW				7 2 2	2.0	2.5	4.5	ГС	7 1	0.0	0.0	112	140	160	22.4	20.0

 $^{(1) \} Nominal\ cooling\ capacities\ are\ based\ on:\ indoor\ temperature:\ 27^\circ CDB,\ 19^\circ CWB,\ outdoor\ temperature:\ 35^\circ CDB,\ equivalent\ refrigerant\ piping:\ 5m,\ level\ difference:\ 0m$

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

Connectable outdoor unit

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

outdoor unit portfolio for combination restrictions. RXYSCQ-TV13 RXYSQ-TV13 RXYSQ-TY13 Capacity class (kW) RXYQ-T(9) RXYLQ-T Туре Model **Product name** 20 25 35 42 50 60 Round flow cassette ROUND FLOW FCAG-B (incl. auto-cleaning function1) Ceiling mounted cassette Fully flat FFA-A9 cassette Slim concealed ceiling unit FDXM-F9 Concealed ceiling Concealed ceiling unit FBA-A9 with inverter-driven fan Daikin Emura FTXJ-MW/MS • Wall mounted unit reddot award 2014 Wall mounted CTXM-M Wall mounted unit FTXM-N Ceiling Ceiling suspended unit FHA-A9 suspended Nexura floor standing unit FVXG-K Floor standing unit FVXM-F • Floor standing Flexi type unit FLXS-B(9) Concealed floor standing unit FNA-A9

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

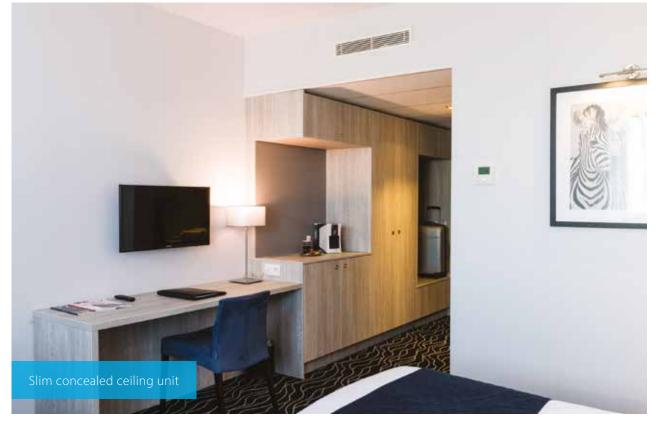
 $^{^{\}rm 2}$ To connect stylish indoor units a BPMKS unit is needed

³ A mix of RA indoor units and VRV indoor units is not allowed.

⁴ Only in heat pump operation

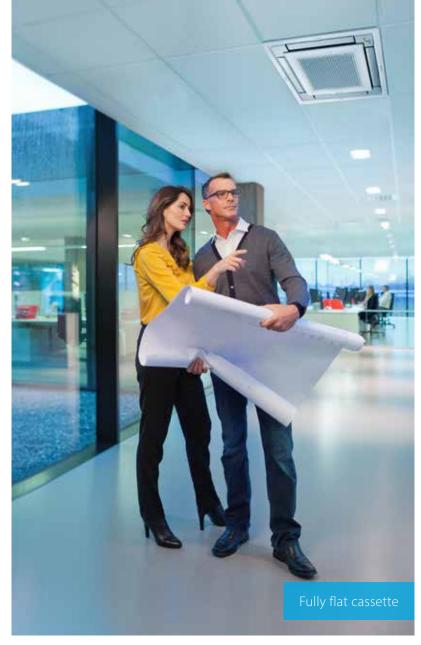












Benefits overview **URV**

		Home leave operation	During absence, indoor comfort levels can be maintained									
We care	B	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating									
We	*	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 1	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									
Comfort	(- <u>1-</u>)	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood									
J	[A]	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature									
Air treatment		Air filter	Removes airborne dust particles to ensure a steady supply of clean air									
Humidity control	Ø Ø DRY	Dry programme	Allows humidity levels to be reduced without variations in room temperature									
	\$\frac{1}{2}	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									
MO	8	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution									
Air flow	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									
ē	24/7	Weekly timer	Timer can be set to start and stop operation anytime on a daily or weekly basis									
& ti Ti		Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit									
contro		Wired remote control	Wired remote control to remotely control your indoor unit									
emote control & timer		Centralised control	Centralised control to to control several indoor units from one single point									
æ		Multi zoning	Allows up to 6 individual climate zones with one indoor unit									
SL	AUTO 4	Auto-restart	The unit restarts automatically at the original settings after power failure									
Otner funtcions		Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies									
ther T	%	Drain pump kit	Facilitates condensation draining from the indoor unit									
_	=		The indoor unit's main power supply can be turned off when leaving the building or for servicing purposes									

Ce	eiling mounte	ed cassette un	its		Concealed	ceiling units		Wall mounted unit	mounted Ceiling suspended units			Floor standing units		
FXFQ-B	FXZQ-A	FXCQ-A	FXKQ-MA	FXDQ-A3	FXSQ-A	FXMQ-P7	FXMQ-MB	FXAQ-A	FXHQ-A	FXUQ-A	FXNQ-A	FXLQ-P		
				-		-1								
•	•	•	•	•	•	•	•	•	•	•	•	•		
•	•	•	•	•	•	•	•	•	•	•	•	•		
•				•										
•	•													
•	•		•							•				
•	•	•		•	•		•							
•	•	•	•	•	•	•	•	•	•	•	•	•		
G1 8 (optional)	G1	•	G1	•	G1 F8 (optional)	•	G1 F8 (optional)	•	G1	G1	G1	G1		
•	•	•	•	•	•	•	•	•	•	•	•	•		
			1									T		
•	•	•	•											
•	•	•	•					•		•				
3 + auto	3 + auto	3 + auto	2	3	3 + auto	3	2	2	3	3 + auto	2	2		
•	•									•				
•	•	•	•	•	•	•	•	•	•	•	•	•		
•	•	•	•	•	•	•	•	•	•	•	•	•		
•	•	•	•	•	•	•	•	•	•	•	•	•		
•	•	•	•	•	•	•	•	•	•	•	•	•		
				•	•									
•	•	•	•	•	•	•	•	•	•	•	•	•		
•	•	•	•	•	•	•	•	•	•	•	•	•		
•		1	1							1				
Standard	Standard	Standard	Standard	Standard	Standard	Standard	Optional	Optional	Optional	Standard				





360° air discharge for improved comfort

> Industry-first and proven design.

NEW > Wider flaps to even further improve equal temperature distribution

More energy efficient and user-friendly than any other cassette

> Running costs can be reduced down to 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.

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

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



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

* Available as an option



Flexible installation

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









Widest ever range of decoration panels to fit the interior and application

Standard panels availabe in white and black

> The unquee Daikin round flow cassette with 360° air flow, wide flaps and optional intelligent sensors



BYCQ140E white standard panel



BYCQ140EW Full white standard panel



BYCQ140EB black standard panel

Auto cleaning panels availabe in white and black

- > The unique Daikin auto cleaning cassette with wide flaps and optional intelligent sensors
- > Finer mesh panel for dust prone areas (i.e. clothing and book shops)



BYCQ140EG White auto cleaning panel



BYCQ140EG(F)
White auto cleaning panel
with fine dust filter



BYCQ140EGFB Black auto cleaning panel with fine dust filter

Designer panel in white and black

- > New line of design panels hiding air intake grilles for a more stylized outlook
- > With 360° air flow, wide flaps and optional intelligent sensors

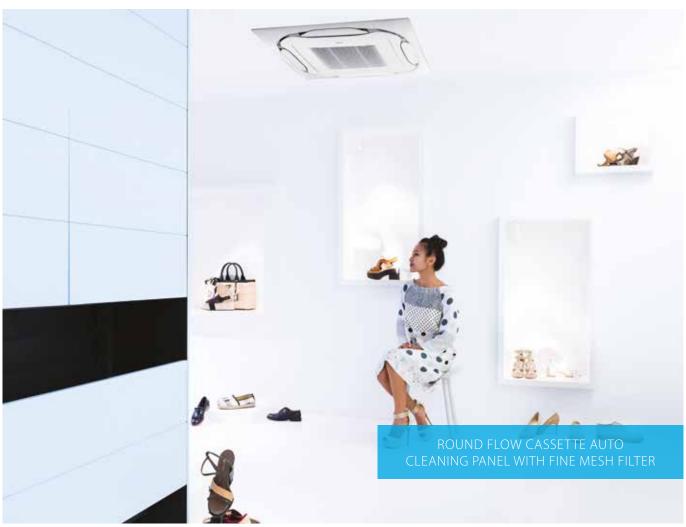


White BYCQ140EP White designer panel panel



BYCQ140EPB Black designer panel



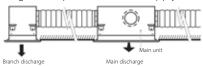


ROUND FLOW

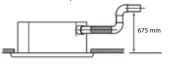
Round flow cassette

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
- NEW > Widest choice ever in decoration panels: Designer, standard and autocleaning panels in white (RAL9010) and black (RAL9005) **NEW** > Bigger flaps improve equal air distribution
 - > Individual flap control: flexibility to suit every room layout without changing the location of the unit!
 - > Lowest installation height in the market: 214mm for class 20-63
 - > Optional fresh air intake
 - > Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



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













Black panel Black design panel

Access all technical information on FXFQ-B at my.daikin.eu or click here

Indoor unit				FXFQ	20B	25B	32B	40B	50B	63B	80B	100B	125B	
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	tal 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	204x840x840						246x840x840 288x8						
Weight	Unit	kg			19 20				2	1	24		26	
Casing	Material				Galvanised steel plate									
Decoration panel	Model Standard panels: BYCQ140E - white with grey louvers / BYCQ140EW - full white / BYCQ140EB - bla Auto cleaning panels BYCQ140EGF - white / BYCQ140EGFB - black Designer panels: BYCQ140EP - white / BYCQ140EPB - black									lack				
	Dimensions	HeightxW	idthxDepth	mm	Standard panels: 50x950x950 / Auto cleaning panels: 130x950x950 / Designer panels: 50x950x950									
	Weight	Standard panels: 5.4 / Auto cleaning panels: 10.3 / Designer panels: 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			5	51		55	60	61	
Sound pressure level	Cooling	Low/Nom./High dBA				28.0/29.0/31.)	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		dBA	28.0/29.0/31.0 29.			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				VP25 (O.D. 32 / I.D. 25)									
Power supply	Phase/Frequence	1~/50/60/220-240/220												
Current - 50Hz	Maximum fuse	16												
Control systems	Infrared remote control					BRC7FA532F								
	Wired remote control				BRC1H519W/S/K / BRC1E53A/B/C / BRC1D52									





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



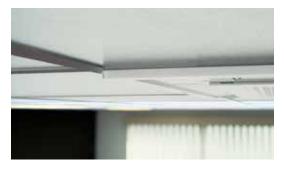
Choice between grey or white panel

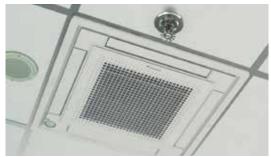




Benefits for the consultant

Benefits for the end user > Engineering excellence and unique design in one





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

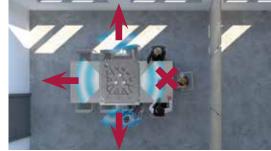
Optional presence sensor

- > 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

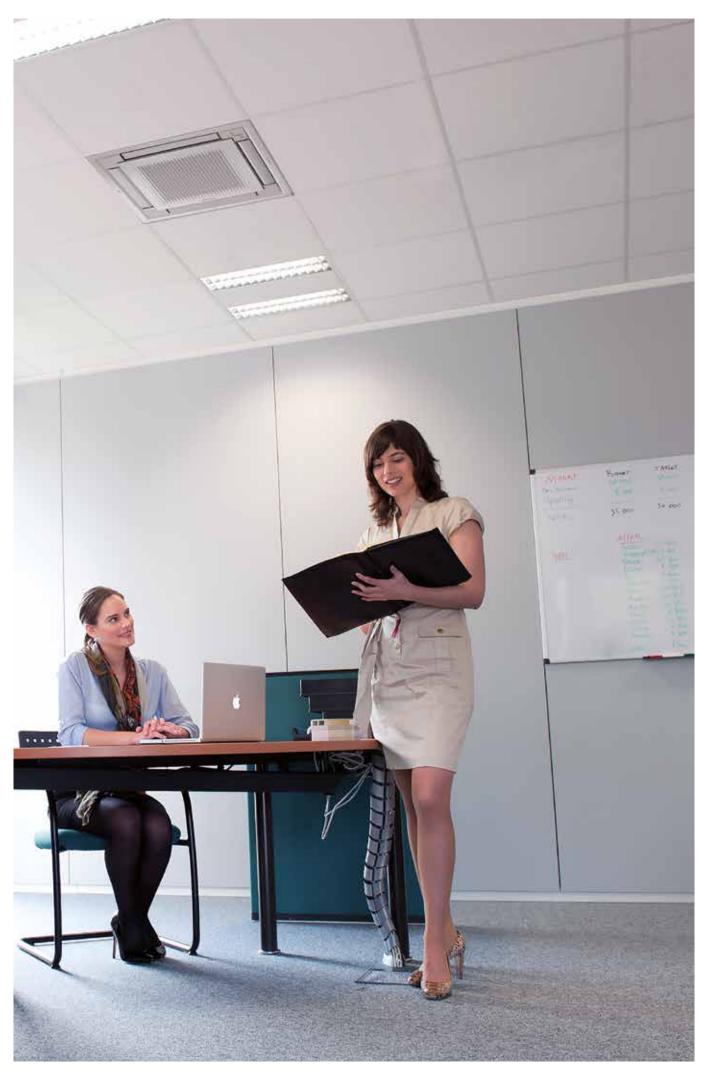
- > Individual flap control: easily control one or more flaps via the wired remote controller (BRC1E/ BRC1H) when rearranging the room. When fully closing or blocking the flaps, the option "Sealing member of air discharge outlet" is needed.
- > Most silent cassette in the market (25dBA), important for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



Marketing tools

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









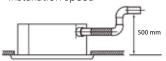
Fully flat cassette

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!



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







Access all technical information on FXZQ-A at my.daikin.eu or click here

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	HeightxV	VidthxDepth	mm			260x5	75x575		
Weight	Unit		-	kg		15.5		16	5.5	18.5
Casing	Material						Galvanised	steel plate		
Decoration panel	Model						BYFQ60	C2W1W		
	Colour						White	(N9.5)		
	Dimensions	HeightxV	VidthxDepth	mm			46x62	0x620		
	Weight		•	kg			2	.8		
Decoration panel 2	Model						BYFQ60	C2W1S		
	Colour						SIL	VER		
	Dimensions	HeightxV	VidthxDepth	mm			46x62	0x620		
	Weight			kg			2	.8		
Decoration panel 3	Model						BYFQ6	0B2W1		
	Colour						White (F	RAL9010)		
	Dimensions	HeightxV	VidthxDepth	mm			55x70	0x700		
	Weight			kg			2	.7		
Decoration panel 4	Model						BYFQ6	0B3W1		
	Colour			ĺ			WHITE (F	RAL9010)		
	Dimensions	HeightxV	VidthxDepth	mm			55x70	0x700		
	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	Туре						Resi	n net		
Sound power level	Cooling	High		dBA	4	19	50	51	54	60
Sound pressure level	Cooling	Low/Non	n./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/Non	n./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	2.7		
	Drain			ĺ			VP20 (I.D.	20/O.D. 26)		
Power supply	Phase/Frequenc	y/Voltage		Hz/V			1~/50/60/2	20-240/220		
Current - 50Hz	Maximum fuse a	amps (MFA)		Α			1	6		
Control systems	Infrared remote	control			BF	RC7EB530W (standar	rd panel) / BRC7F530	OW (white panel) / B	RC7F530S (grey pan	el)
	Wired remote co						RC1H519W/S/K / BRO			

2-way blow ceiling mounted cassette

Thin, lightweight design installs easily in narrow corridors

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

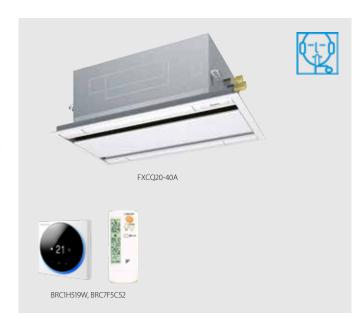


- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- > Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

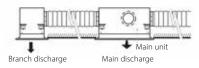
Fresh air intake opening in casing



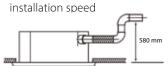
- * Brings in up to 10% of fresh air into the room
- > Optimum comfort guaranteed with automatic air flow adjustment to the required load
- > Maintenance operations can be performed by removing the front panel



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



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





Access all technical information on FXCQ-A at my.daikin.eu or click here

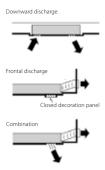
Indoor unit			FXCQ	20A	25A	32A	40A	50A	63A	80A	125A
Cooling capacity	Total capacity	Nom.	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Heating capacity	Total capacity	Nom.	kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0
Power input - 50Hz	Cooling	Nom.	kW	0.031	0.0	139	0.041	0.059	0.063	0.090	0.149
	Heating	Nom.	kW	0.028	0.0	35	0.037	0.056	0.060	0.086	0.146
Dimensions	Unit	HeightxWidthxDepth	mm		305x7	75x620		305x9	90x620	305x1,4	45x620
Weight	Unit		kg		1	9		22	25	33	38
Casing	Material						Galvanised	steel plate			
Decoration panel	Model				BYBCQ	40HW1		BYBCQ	63HW1	BYBCQ1	25HW1
	Colour						Fresh white	(6.5Y 9.5/0.5)			
	Dimensions	HeightxWidthxDepth	mm		55x1,0	70x700		55x1,2	85x700	55x1,7	40x700
	Weight		kg		1	0		1	1	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	Туре						Resin net with I	mold resistance	2		
Sound power level	Cooling	Nom./High	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	mm			6.35				9.52	
	Gas	OD	mm			12.7				15.9	
	Drain						VP25 (O.D.	32 / I.D. 25)			
Power supply	Phase/Frequenc	y/Voltage	Hz/V				1~/50/2	220-240			
Current - 50Hz	Maximum fuse a	mps (MFA)	Α				1	6			
Control systems	Infrared remote	control					BRC	7C52			
	Wired remote co	ontrol				BRC1H	519W/S/K / BRC	1E53A/B/C / BI	RC1D52		

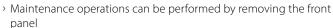
door Units

Ceiling mounted corner cassette

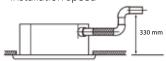
1-way blow unit for corner installation

- > 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













Access all technical information on FXKQ-MA at my.daikin.eu or click here

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				Galvanised	d steel plate	
Decoration panel	Model				BYK45FJW1		BYK71FJW1
	Colour				W	hite	
	Dimensions	HeightxWidthxDepth	mm		70x1,240x800		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				Resin net with	mold resistance	
Sound power level	Cooling	High	dBA	5	i4	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-410A	/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/Frequency	y/Voltage	Hz/V		1~/50/60/2	220-240/220	
Current - 50Hz	Maximum fuse a	mps (MFA)	Α			15	
Control systems	Infrared remote	control			BRC	4C61	
	Wired remote co	ntrol			BRC1H519W/S/K / BR	C1E53A/B/C / BRC1D52	

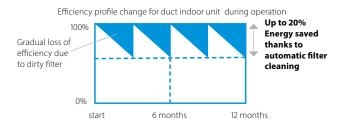




The unique automatic cleaning filter achieves higher efficiency and comfort with lower maintenance costs

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

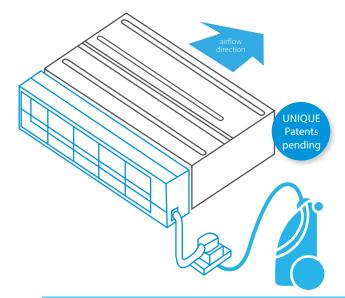
Unique technology

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



Combination table

	S	plit/	Sky A	ir				VRV			
		FDX	M-F9				F)	(DQ-	A 3		
	25	35	50	60	15	20	25	32	40	50	63
BAE20A62	•	•			•	•	•	•			
BAE20A82									•	•	
BAE20A102			•	•							•



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

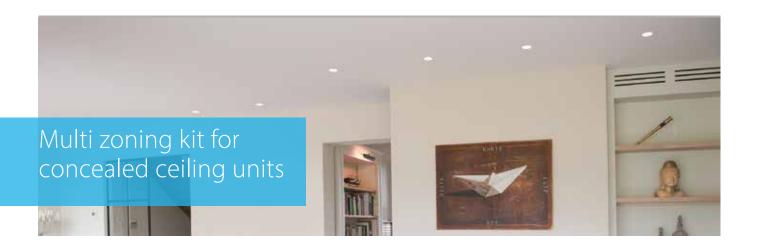




www.youtube.com/Daikin Europe

Specifications

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



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.

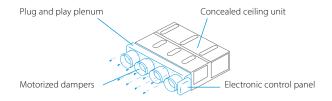
Benefits

Increased comfort

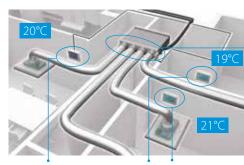
- > Increases comfort levels by allowing more individual zone control
 - Up to 8 individual zones can be served thanks to separate modulating dampers
 - Individual thermostat for room-by-room or zone-by-zone control

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?





fully pre-assembled plenum with dampers

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

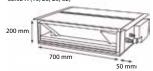
Compa	tik	oility							S	k	//	tir	-												1	1	Ħ	1	1							
					FDX	M-F	9			F	BA-	۹9			Α	DEA	-A			FX	DQ-	А3								FXS	Q-A					
Numl motorised dar		Reference	Dimensions H x W x D (mm)	25	35	50	60	35	50	60	71	100	125	140	71	100	125	15	20	25	32	40	50	63	15	20	25	32	40	50	63	71	80	100	125	140
		AZEZ6DAIST07XS2																							•	•	•	•								
	2	AZEZ6DAIST07S2	300 x 930 x 454					•	•																				•	•						
	_	AZEZ6DAIST07XS3																							•	•	•	•								
	3	AZEZ6DAIST07S3	300 x 930 x 454					•	•																				•	•						
		AZEZ6DAIST07S4	300 x 930 x 454					•	•																				•	•						
Standard Ceiling	4	AZEZ6DAIST07M4	300 x 1,140 x 454							•	•				•																•		•			
Void	_	AZEZ6DAIST07M5								•	•				•																•		•			
	5	AZEZ6DAIST07L5	300 x 1,425 x 454									•	•	•		•	•																	•	•	
444		AZEZ6DAIST07M6								•	•				•																•		•			
W. III.	6	AZEZ6DAIST07L6	300 x 1,638 x 454									•	•	•		•	•																	•	•	
	_	AZEZ6DAIST07L7										•	•	•		•	•																	•	•	
	7	AZEZ6DAIST07XL7	515 x 1,425 x 454																																	•
	8	AZEZ6DAIST07L8	F1F 1 42F 4F4									•	•	•		•	•																	•	•	
	٥	AZEZ6DAIST07XL8	515 x 1,425 x 454																																	•
Compact Ceiling	2	AZEZ6DAISL01S2	210 x 720 x 444	•	•													•	•	•	•															
Void	3	AZEZ6DAISL01S3	210 x 720 x 444	•	•													•	•	•	•															
Charles and	4	AZEZ6DAISL01M4	210 x 930 x 444																			•	•													
- Although	5	AZEZ6DAISL01L5	210 x 1,140 x 444			•	•																	•												

Slim concealed ceiling unit

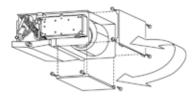
Slim design for flexible installation

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

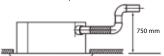




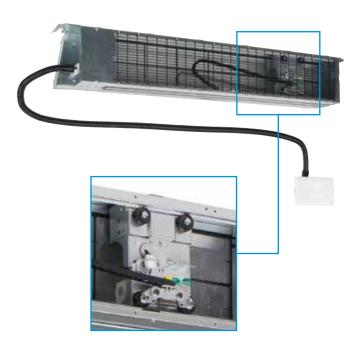
- Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, 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
- > 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



Access all technical information on FXDQ-A3 at my.daikin.eu or click here



Access all technical information on BAE20A at my.daikin.eu or click here

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	HeightxWidthxDepth	mm		200x7	50x620		200x9	50x620	200x1,150x620
Weight	Unit		kg		2	2.0		20	5.0	29.0
Casing	Material						Galvanised stee	el		
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	Pa		10/	30.0			15/44.0	
Air filter	Туре					Re	movable / wash	able		
Sound power level	Cooling	High	dBA	50		51		52	53	54
Sound pressure level	Cooling	Low/Nom./High	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	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.	26)		
Power supply	Phase/Frequency	y/Voltage	Hz/V			1~	/50/60/220-240	/220		
Current - 50Hz	Maximum fuse a	mps (MFA)	Α				16			
Control systems	Infrared remote	control				Е	RC4C65 / BRC4C	266		
	Wired remote co	ntrol				BRC1H519W	/S/K / BRC1E53A	/B/C/ BRC1D52		

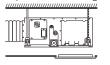
Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

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



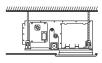
- > Quiet operation: down to 25dBA sound pressure level
- > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the wall: only the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



For free use into a false



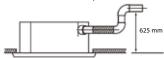
suction canva (not supplied by Daikin)



For direct connection to Daikin panel (via EKBYBSD kit)



> 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 $\pm 10\%$

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



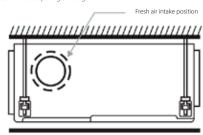
Access all technical information on FXSQ-A at my.daikin.eu or click here

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	HeightxV	VidthxDepth	mm		245x5	50x800		245x70	00x800	245x1,0	00x800	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	l plate				
Fan	Air flow rate -	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
	50Hz	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 Pa						30/150				40/	150	50/	/150
Air filter	Туре									Resin net					
Sound power level	Cooling	High		dBA		54		55	6	0	59	6	51	6	54
Sound pressure level	Cooling	Low/Non	n./High	dBA	25.0/28.0/29.5	25.0/28	3.0/30.0	26.0/29.0/31.0	29.0/32	.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/Non	n./High	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/2,08	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/Frequency	//Voltage		Hz/V					1~/50	/60/220-24	10/220				
Current - 50Hz	Maximum fuse a	mps (MFA)							16						
Control systems	Infrared remote	control							BRC4C65						
	Wired remote co	ntrol					BRC1	H519W/S/K	/ BRC1E53	A/B/C / BRO	C1D52				

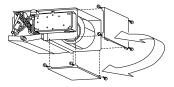
Concealed ceiling unit with high ESP

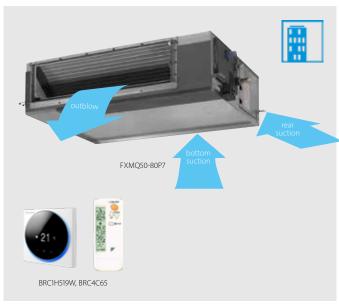
Ideal for large sized spaces FXMQ-P7: ESP up to 200 Pa

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

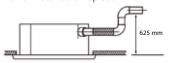


- * Brings in up to 10% of fresh air into the room
- Flexible installation, as the air suction direction can be altered from rear to bottom suction





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



FXMQ-MB: ESP up to 270 Pa

- High external static pressure up to 270Pa facilitates extensive duct and grille network
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Large capacity unit: up to 31.5 kW heating capacity

Automatic Airflow Adjustment function

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

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance * the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster





Access all technical information on FXMQ-P7 at my.daikin.eu or click here



Access all technical information on FXMQ-MB at my.daikin.eu or click here

Indoor unit				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
	Nom.			kW				-			
Heating capacity	Total capacity	Nom.		kW	6.3	8.0	10.0	12.5	16.0	25.0	31.5
	Nom.			kW				-			
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	HeightxW	/idthxDepth	mm		300x1,000x700		300x1,	400x700	470x1,38	0x1,100
Weight	Unit			kg		35		4	16	13	2
Casing	Material						Ga	lvanised steel pl	ate		
Decoration panel	Model					BYBS71DJW1		BYBS1:	25DJW1	-	
	Colour						White (10Y9/0.5)			-	
	Dimensions	HeightxW	/idthxDepth	mm		55x1,100x500		55x1,5	00x500	-x-	х-
	Weight			kg		4.5		6	i.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 static	Nom./Hig	jh	Pa			100/200			160/270	170/270
	pressure - 50Hz										
Air filter	Type						Resin net			-	
Sound power level	Cooling	Nom./Hig	jh	dBA	-/61	-/64	-/67	-/65	-/70	75/	76
Sound pressure level	Cooling	Low/High	1	dBA	37/41	38/42	39,	/43	40/44	45/	48
	Heating	Low/High	1	dBA	37/41	38/42	39,	/43	40/44	-/	-
Refrigerant	Type/GWP						R-410A/-			R-410A/	2,087.5
Piping connections	Liquid	OD		mm	6.35			9.	.52		
	Gas	OD		mm	12.7		15	5.9		19.1	22.2
	Drain					VI	P25 (I.D. 25/O.D. 3	2)		PS	1B
Power supply	Phase/Frequency	y/Voltage		Hz/V		1~	/50/60/220-240/2	220		1~/50/2	20-240
Current - 50Hz	Maximum fuse a	mps (MFA)		A				16			
Control systems	Infrared remote	control						BRC4C65			
	Wired remote co	ntrol					BRC1H519W/	S/K / BRC1E53A/I	B/C / BRC1D52		

Wall mounted unit

For rooms with no false ceilings nor free floor space

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





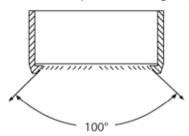
Access all technical information on FXAQ-A at my.daikin.eu or click here

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	HeightxWidthxDe	pth mm		290x7	95x266			290x1,050x269	
Weight	Unit		kg		1	12			15	
Fan	Air flow rate - 50Hz	Cooling Low/H	igh 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	Туре					,	Washable resin ne	et		
Sound power level	Cooling	High	dBA	51.0	52.0	53.0	5	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			1:	2.7			15.9
	Drain					V	P13 (I.D. 15/O.D. 1	18)		
Power supply	Phase/Frequence	y/Voltage	Hz/V				1~/50/220-240			
Current - 50Hz	Maximum fuse	amps (MFA)	А				16			
Control systems	Infrared remote	control				BRO	7EA628 / BRC7E	A629		
	Wired remote co	ontrol				BRC1H519W/	/S/K / BRC1E53A/E	B/C / BRC1D52		

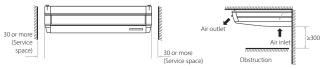
Ceiling suspended unit

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





Access all technical information on FXHQ-A at my.daikin.eu or click here

Indoor unit				FXHQ	32A	63A	100A
Cooling capacity	Total capacity	Nom.		kW	3.6	7.1	11.2
Heating capacity	Total capacity	Nom.		kW	4.0	8.0	12.5
Power input - 50Hz	Cooling	Nom.		kW	0.107	0.111	0.237
	Heating	Nom.		kW	0.107	0.111	0.237
Dimensions	Unit	HeightxW	VidthxDepth	mm	235x960x690	235x1,270x690	235x1,590x690
Weight	Unit			kg	24	33	39
Casing	Material					Resin	
Fan	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
Air filter	Туре					Resin net with mold resistance	
Sound power level	Cooling	Nom./Hig	jh	dBA	52/54	53/55	55/62
Sound pressure level	Cooling	Low/Non	n./High	dBA	31.0/34.0/36.0	34.0/35.0/37.0	34.0/37.0/44.0
	Heating	Low/Non	n./High	dBA	31.0/34.0/36.0	34.0/35.0/37.0	34.0/37.0/44.0
Refrigerant	Type/GWP					R-410A/2,087.5	
Piping connections	Liquid	OD		mm	6.35	9.1	52
	Gas	OD		mm	12.7	15	5.9
	Drain					VP20 (I.D. 20/O.D. 26)	
Power supply	Phase/Frequenc	y/Voltage		Hz/V		1~/50/220-240	
Current - 50Hz	Maximum fuse	amps (MFA)		A		16	
Control systems	Infrared remote	control				BRC7G53	
	Wired remote co	ontrol		i	BF	RC1H519W/S/K / BRC1E53A/B/C / BRC1D	52

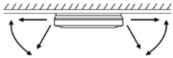
4-way blow ceiling suspended unit

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

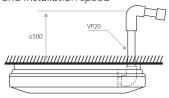
- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- > Can easily be installed in both new and refurbishment projects
- > Individual flap control: flexibility to suit every room layout without changing the location of the unit!



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



> Standard drain pump with 500mm lift increases flexibility and installation speed





A

Access all technical information on FXUQ-A at my.daikin.eu or click here

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	HeightxW	/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				Resin net with r	mold resistance
Sound power level	Cooling	Nom./Hig	jh	dBA	56/58	62/65
Sound pressure level	Cooling	Low/Non	n./High	dBA	36.0/38.0/40.0	40.0/44.0/47.0
	Heating	Low/Non	n./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	9.5	52
	Gas	OD		mm	15	.9
	Drain				I.D. 20/	O.D. 26
Power supply	Phase/Frequenc	/Frequency/Voltage Hz/V			1~/50/60/220	-240/220-230
Current - 50Hz	Maximum fuse a	amps (MFA)		А	1	6
ontrol systems Infrared remote control					BRC7	⁷ C58
	Wired remote co	ontrol		i	BRC1H519W/S/K / BRC	1E53A/B/C / BRC1D52

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





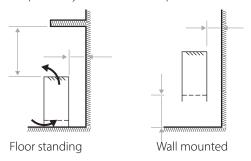
Access all technical information on FXNQ-A at my.daikin.eu or click here

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	HeightxV	/idthxDepth	mm		620 / 720x790x200		620 / 720	x990x200	620 / 720x1,190x200
Weight	Unit			kg		23.5		27	7.5	32.0
Casing	Material						Galvanised	l 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./Hig	jh	Pa	10/	41.0	10/42.0	15/52.0	15/59.0	15/55.0
Air filter	Туре						Resi	n net		
Sound power level	Cooling	High		dBA		51		52	53	54
Sound pressure level	Cooling	Low/Non	n./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/Non	n./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
Refrigerant	Type/GWP						R-410A	/2,087.5		
Piping connections	Liquid	OD		mm			6.35			9.52
	Gas	OD		mm			12.7			15.9
	Drain						VP20 (I.D.	20/O.D. 26)		
Power supply	Phase/Frequency	//Voltage		Hz/V			1~/50/60/2	20-240/220		
Current - 50Hz	Maximum fuse a	mps (MFA)		A			1	6		
Control systems	Infrared remote	control					BRC	4C65		
	Wired remote co	ntrol				BF	RC1D52 / BRC1E53A	/B/C / BRC1H519W/S	5/K	

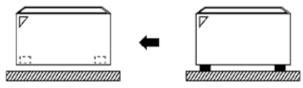
Floor standing unit

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





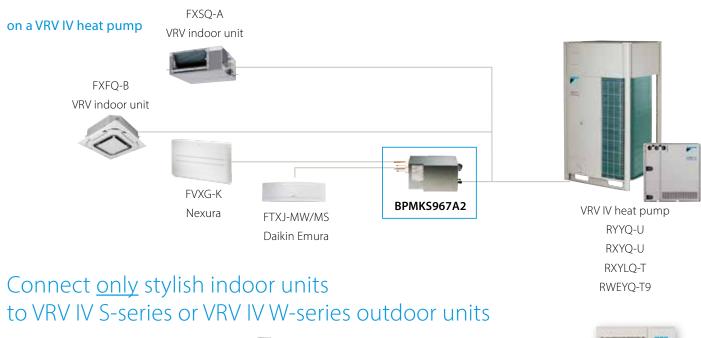
Access all technical information on FXLQ-P at my.daikin.eu or click here

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	HeightxW	idthxDepth	mm	600x1	,000x232	600x1,	140x232	600x1,4	120x232
Weight	Unit			kg		27	3	32	3	8
Fan	Air flow rate - 50Hz	Cooling	Low/High	m³/min	6	5.0/7	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/Volta	ige	Hz/V			1~/50/60/2	220-240/220		
Current - 50Hz	Maximum f	use amps (N	ЛFA)	A			1	15		
Control systems	Infrared ren	note contro	I				BRC	4C65		
	Wired remo	te control				BF	RC1H519W/S/K / BRO	C1E53A/B/C / BRC1E	052	

VRV heatpump combined with

stylish indoor units

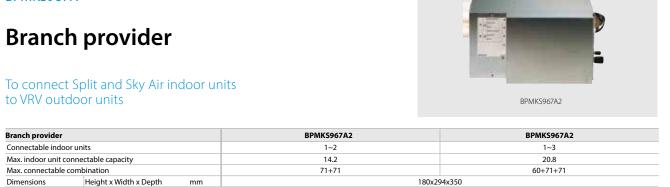
Combine VRV indoor units with stylish indoor units





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

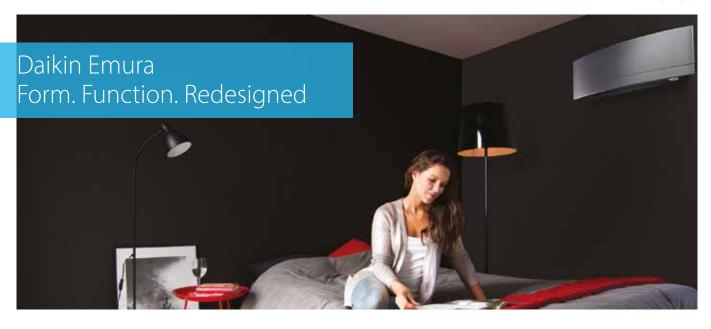
BPMKS967A



Weight







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				FTXJ	20MW	20MS	25MW	25MS	35MW	35MS	50MW	50MS
Dimensions	Unit	HeightxW	idthxDepth	mm	303x998x212							
Weight	Unit			kg				12	2.0			
Air filter	Type							Removable	/ washable			
Fan	Air flow rate	Cooling	Silent operation/Low/ Medium/High	m³/min		2.6/4.4/	6.6 /8.9		2.9/4.8/	7.8 /10.9	3.6/6.8	/8.9 /10.9
		Heating	Silent operation/Low/ Medium/High	m³/min	3.8/6.3/	8.4 /10.2	3.8/6.3/8	3.6 /11.0	4.1/6.9/	9.6 /12.4	5.0/8.1/	10.5 /12.6
Sound power level	Cooling			dBA		5	4			59		60
	Heating			dBA		5	6			59		60
Sound pressure level	Cooling	Silent ope	ration/Low/High	dBA		19/2	5/38		20/2	26/45	32/	35/46
	Heating	Silent ope	ration/Low/High	dBA	19/2	8/40	19/2	8/41	20/2	29/45	32/	35/47
Control systems	Infrared rem	ote contro						ARC4	166A9			
	Wired remo	te control							-			
Power supply	Phase/Frequ	ency/Volta	age	Hz/V				1~/50/	220-240			



Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- > Practically inaudible: the unit runs so quietly, you will almost forget it is there.
- Cleaner air thanks to Daikin's Flash Streamer technology:
 you can breathe deep with no worries about impure air
- 2 area motion detection sensor: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energyefficient setting.
- Online controller: control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- Sleek, unobtrusive air conditioning unit that matches European sensibilities regarding interior design
- > 3-D air flow combines vertical and horizontal auto swing to
- > circulate a stream of warm or cool air right to the corners of even large spaces



Indoor unit				FTXM	CTXM15N	20N	25N	35N	42N	50N	60N	71N
Dimensions	Unit	HeightxW	idthxDepth	mm					-			
Weight	Unit			kg					-			
Air filter	Type								-			
Fan	Air flow rate	Cooling	Silent operation/Low/High	m³/min					-			
		Heating	Silent operation/Low/High	m³/min					-			
Sound power level	Cooling			dBA		57		6	50	59	60	60
	Heating			dBA			54		60	58	59	61
Sound pressure level	Cooling	Silent opera	tion/Low/Nom./High	dBA		19/41		19/45	21/45	44/27	30/46	32/47
	Heating	Silent opera	tion/Low/Nom./High	dBA		20	0/39		21/45	31/43	33/45	34/46
Control systems	Infrared ren	note contro	l					ARC4	66A33			
,	Wired remote control				BRC944B2 / BRC073A1 BRC944B2 / BRC073					73		
Power supply	Phase/Frequency/Voltage Hz/V							1~/50/	220-240			





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	Туре				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 remote control			ARC466A2				
Power supply	Phase / Freque	ency / Voltage	Hz/V		1~/50/220-240			

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				FVXM	25F	35F	50F				
Dimensions	Unit	HeightxWi	idthxDepth	mm	mm 600x700x210						
Weight	Unit			kg		14					
Air filter	Туре					Removable / washable					
Fan	Air flow rate	Cooling	Silent operation/Low/ Medium/High	m³/min	4.1/4.8/6.5 /8.2	4.5/4.9/6.7 /8.5	6.6/7.8/8.9 /10.1				
		Heating	Silent operation/Low/ Medium/High	m³/min	4.4/5.0/6.9 /8.8	4.7/5.2/7.3 /9.4	7.1/8.5/10.1 /11.8				
Sound power level	Cooling			dBA	5	52	57				
	Heating			dBA	5	52	58				
Sound pressure level	Cooling	Silent oper	ration/Low/High	dBA	23/26/38	24/27/39	32/36/44				
	Heating	Silent oper	ration/Low/High	dBA	23/26/38	24/27/39	32/36/45				
Control systems	Infrared remo	te control				ARC452A1					
	Wired remote	e control									
Power supply	Phase/Freque	Phase/Frequency/Voltage Hz/V			1~/50/220-230-240						

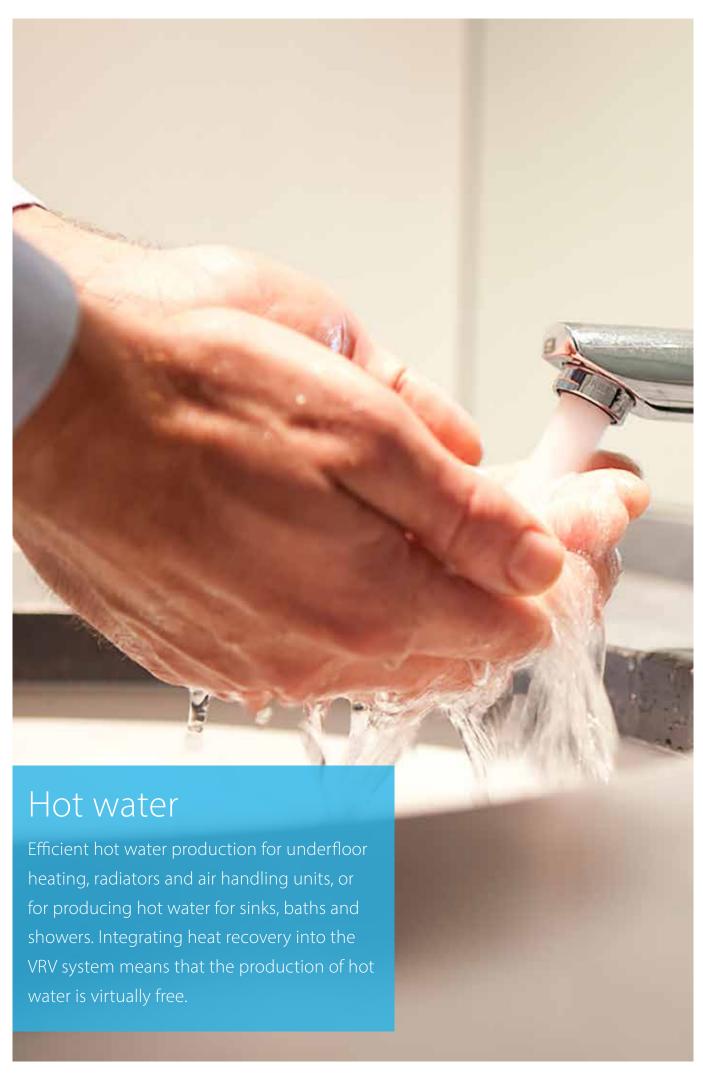
Flexi type unit

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	1	6	17	
Air filter	Туре				Removable / wash	nable / 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 / Freque	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



Hot water

Low temperature hydrobox	
HXY-A8	134
High temperature hydrobox	
HXHD-A8	135
Accessories for hot water	136

Hydrobox range

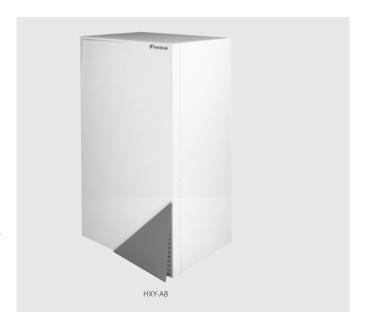
Capacity class (kW)

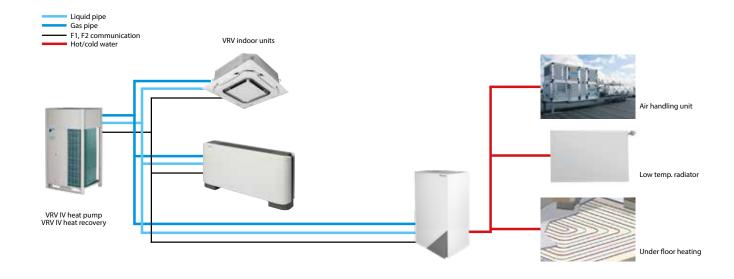
Туре	Product name	Model	80	125	200	Leaving water temperature range
Low temperature hydrobox	HXY-A8	For high efficiency space heating and cooling > Ideal for hot or cold water in underfloor, air handling units, low temperature radiators > Hot/cold water from 5° to 45°C > Large operation range (down to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







Access all technical information on HXY-A8 at my.daikin.eu or click here

Indoor Unit				HXY	080A8	125A8		
Cooling capacity	Nom.			kW	8.0 (1)	12.5 (1)		
Heating capacity	Nom.	om. kW			9.00 (2) 14.00 (2)			
Dimensions	Unit	Unit HeightxWidthxDepth 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	-N-			
	water	Water side	Min.~Max.	°C		~ -		
Refrigerant	Туре				R-4	10A		
	GWP				2,087.5			
Refrigerant circuit	Gas side diamete	er		mm	15.9			
	Liquid side diame	eter		mm	9.	.5		
Water circuit	Piping connections diameter inch			inch	G 1"1/4 (female)			
Power supply	Phase/Frequency/Voltage Hz/V			Hz/V	1~/50/220-240			
Current	. , ,			Α	6~16			

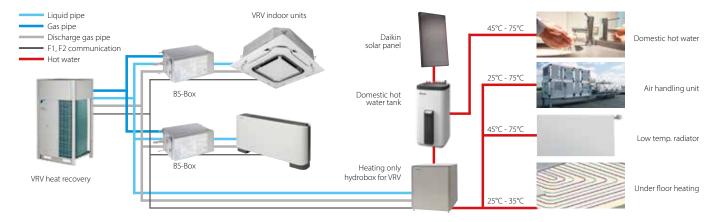
(1) Tamb 35°C - LWE 18°C (DT=5°C) (2) DB/WB 7°C/6°C - LWC 35°C (DT=5°C) (3) Flow switch setting

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







Access all technical information on HXHD-A8 at my.daikin.eu or click here

Indoor Unit				HXHD	125A	200A
Heating capacity	Nom.			kW	14.0	22.4
Dimensions	Unit	Height x Wid	dth x Depth	mm	705 x 60	00 x 695
Weight	Unit			kg	92.0	147
Casing	Colour				Metall	lic grey
	Material				Precoated :	sheet metal
Sound power level	Nom.			dBA	55.0 (2)	60.0 (2)
Sound pressure level	Nom.			dBA	42.0 (2) / 43.0 (3)	46.0 (2) / 46.0
	Night quiet mode	Level 1		dBA	38 (2)	45 (2)
Operation range	Heating	Ambient	Min. ~ Max.	°C	-20.0 ~ 2	20 / 24 (1)
		Water side	Min. ~ Max.	°C	25 ~	80.0
	Domestic	Ambient	Min. ~ Max.	°CDB	-20.0	~ 43.0
	hot water	Water side	Min. ~ Max.	°C	45 -	~ 75
Refrigerant	Type				R-1	34a
	GWP				1,4	130
	Charge			kg	2.00	2.60
Water circuit	Piping conr	nections diam	eter	inch	G 1" (f	emale)
	Heating water system	Water volume	Max. ~ Min.	- 1	200 ~ 20	400 ~ 20
Power supply	Phase / Fred	quency / Volta	age	Hz/V	1~/50/220-240	3~/50/380-415
Current	Recommen	ded fuses		А	20	16

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)	/ Dark grey (RAL7011)
•	Material			Impact resistant	polypropylene
Dimensions	Unit	Width	mm	595	790
		Depth	mm	615	790
Weight	Unit	Empty	kg	58	82
Tank	Water volur	ne	1	294	477
	Material			Polypro	ppylen
~		vater temperature	°C	8	5
•	Insulation	Heat loss	kWh/24h	1.5	1.7
	Energy effic			[3
	Standing he		W	64	72
	Storage vol		- 1	294	477
leat exchanger	Domestic	Quantity		1	
	hot water	Tube material		Stainless stee	
		Face area	m ²	5.600	5.800
		Internal coil volume		27.1	28.1
		Operating pressure	bar		
		Average specifc thermal output	W/K	2,790	2,825
	Charging	Quantity		1	
		Tube material		Stainless stee	l (DIN 1.4404)
		Face area	m ²	3	4
		Internal coil volume		13	18
		Operating pressure	bar		<u></u>
		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
		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 (RAL9016) / Dark grey (RAL7011)				
	Material			Impact resistant polypropylene				
Dimensions	Unit	Width	mm	595	790			
		Depth	mm	615	790			
Weight	Unit	Empty	kg	58	89			
ank	Water volur	Water volume I		294	477			
	Material			Po	olypropylen			
~	Maximum v	vater temperature	°C		85			
•	Insulation	Heat loss	kWh/24h	1.5	1.7			
	Energy effic	iency class			В			
	Standing he	eat loss	W	64	72			
	Storage volume I		1	294	477			
leat exchanger	Domestic Quantity				1			
	hot water	Tube material		Stainless	s steel (DIN 1.4404)			
		Face area	m²	5.600	5.900			
		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		Stainless steel (DIN 1.4404)				
		Face area	m²	3	4			
		Internal coil volume	1	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		-	Stainless steel (DIN 1.4404)			
	solar	Face area	m²	-	1			
	heating	Internal coil volume	1	-	4			
	cating	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	E	KSV/EKSH	21P	26F	•	
Mounting			Vert	Horizontal		
Dimensions	Unit HeightxWidthxDepth	mm	1,006x8	x85x2,000 2,000x85x		
Weight	Unit	kg	33	42		
Volume		- 1	1.3	1.7 2.1		
Surface	Outer	m ²	2.01	2.60)	
	Aperture	m ²	1.800	2.36	0	
	Absorber	m ²	1.79	2.35	5	
Coating			Micro-the	rm (absorption max. 96%, Emission ca. 59	6 +/-2%)	
Absorber			Harp-shaped copper pipe register with laser-welded highly selective coated aluminium plate			
Glazing			Sin	gle pane safety glass, transmission +/- 92	%	
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	0.00	7	
	Thermal capacity	kJ/K	4.9	6.5		
Auxiliary	Solpump	W		-		
	Solstandby	W		-		
	Annual auxiliary electricity consumption Qaux	kWh		=		

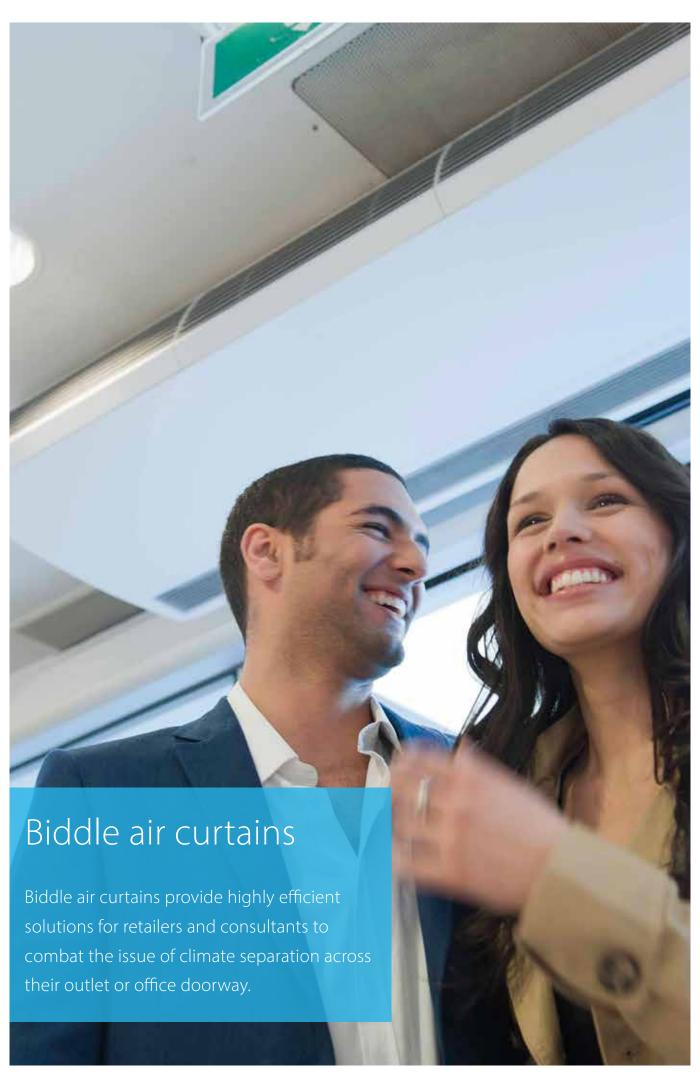
EKSRDS2A/EKSRPS4A

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/EKS	RDS2A	EKSRPS4A	EKSRDS2A		
Mounting				On side of tank	On wall		
Dimensions	Unit Heigh	txWidthxDepth	mm	815x142x230	410x314x154		
Weight	Unit		kg	6	i		
Operation range	Ambient temperature Min.~	Max.	°C	5~40	0~40		
Operating pressure	Max.		bar	-	6		
Stand still temperature	Max.		°C	85	120		
Thermal performance	collector efficiency (ηcol)		%	-			
♣	Zero loss collector efficiend	cy η0	%	-			
Control	Type			Digital temperature difference controller with plain text display			
	Power consumption		w	2	5		
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/230	/50/230		
Sensor	Solar panel temperature se	ensor	ĺ	Pt1000			
	Storage tank sensor			PTC	-		
	Return flow sensor			PTC	-		
	Feed temperature and flow sensor			Voltage signal (3.5V DC)	-		
Power supply intake	ower supply intake			Indoor unit			
Auxiliary	Solpump W			30	23		
	Solstandby W			2.00	5.00		
	Annual auxiliary electricity consu	mption Qaux	kWh	78	89		



Biddle air curtains

connected to Daikin Heat Pumps

'Open Door' Trading

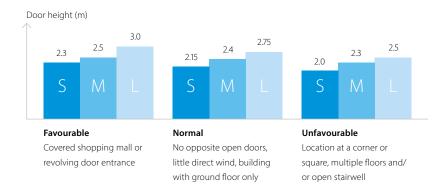
Although the customer-friendly aspects of open door trading are widely appreciated by retail and commercial outlet managers, open doors can also give rise to massive losses in conditioned warm or cold air and hence, energy. Biddle air curtains however, not only preserve indoor temperatures and generate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

High efficiency and low CO₂ emission

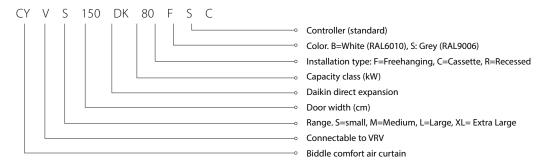
An efficient outdoor/indoor climate separation limits heat loss through the door opening and enhances the efficiency of the air conditioning system.

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

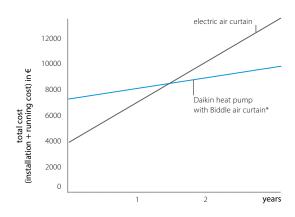
Туре	Product name	
Biddle air curtain free hanging	CYV S/M/L-DK-F	
Biddle air curtain cassette	CYV S/M/L-DK-C	
Biddle air curtain recessed	CYV S/M/L-DK-R	-

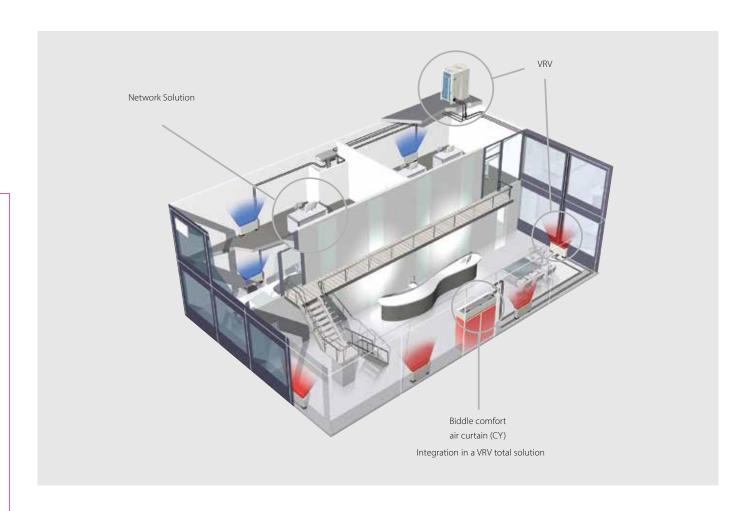
- A payback time of less than 1.5 years compared to electrical air curtains
- > Easy and quick installation
- Maximum energy efficiency thanks to rectifier technology
- > 85% air separation efficiency
- > Cassette model (C): mounted into a false ceiling enhancing aesthetics
- > Free-hanging model (F):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

Biddle air curtain for VRV

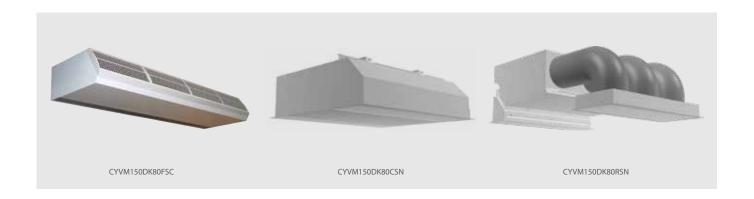
- > Connectable to VRV heat recovery and heat pump
- > VRV is among the first DX systems suitable for connection to air curtains
- > Free-hanging model (F): easy wall mounted installation
- > Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- > Recessed model (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				590/82	21/561			
Required ceiling voic	l>		mm	420							
Door height	Max.		m	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5	1.0	1.5	2.0	2.5
Weight	Unit		kg	56	66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	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	Liquid/OD/Gas/	OD	mm		9.52/16.0		9.52/19.0		9.52/16.0		9.52/19.0
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52)							
Power supply	Voltage		V				2:	30			

				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	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		774/1,1	05/745		
Required ceiling voic	l>		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/Ga	s/OD	mm	9.52/16.0 9.52/19.0 9.52/22.0				
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1H51(9)W/S/K / BRC1E53A/B/C / BRC1D52)				
Power supply	Voltage		V	230				

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





Ventilation & air handling

	Why choose Daikin ventilation	144
	ERV / HRV - Heat reclaim ventilation units	148
NEW	ALB-LBS/RBS - Modular L Smart	148
	ALD electrical heater	149
	VAM-FC / J	150
	VH-B electrical heater	151
	VKM-GB(M)	152
	Daikin air handling units with DX connection	153
	Advantages	153
	Overview of VRV & ERQ DX units	154
	Control possibilities	155
	Integration in third party AHU	158
	Expansion valves & Control boxes	158
	Selection procedure	159





Market leading controls& connectivity

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







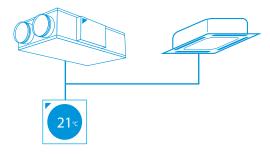












2 Unique installation benefits

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









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



4 Best comfort

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



5 Top reliability

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



Did you know?

CO₂ levels and ventilation rates all have significant, independent impacts on cognitive function:

COGNITIVE FUNCTION SCORES ...



+ 61%
IN GREEN BUILDING
CONDITIONS



+ 101%
IN ENHANCED
GREEN BUILDING CONDITIONS

Widest range of DX integrated ventilation on the market

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

Ventilation solutions

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

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

Heat Reclaim Ventilation - Ventilation with heat recovery as standard

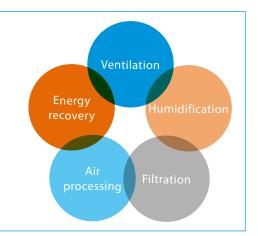
Our heat recovery units **recover sensible heat** (Modular L / Modular L Smart) and **latent heat** (VAM/VKM), substantially reducing the load on the air conditioning system up to 40%.

Ventilation with DX connection - Control over fresh air temperature

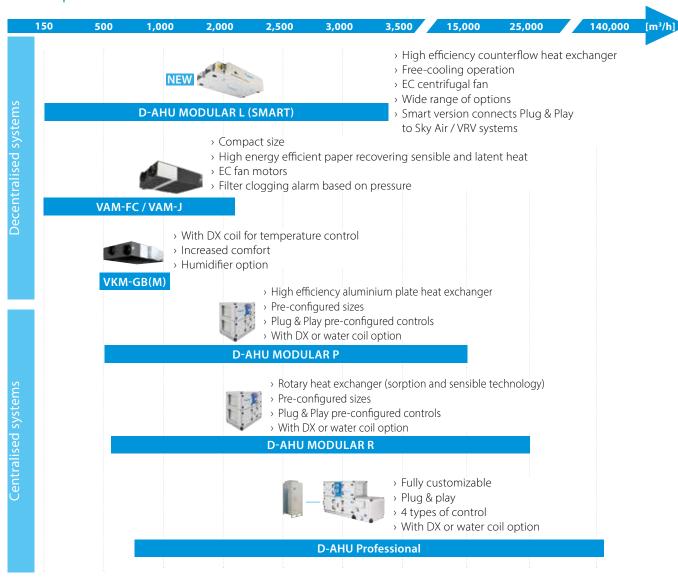
Daikin offers a range of inverter condensing units to be used in combination with Daikin AHUs for ultimate control over the fresh air. There are 4 control possibilities when **combining AHU and Daikin outdoor units** hence offering all the required flexibility for any installation. Indoor units can be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

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



Fresh air portfolio

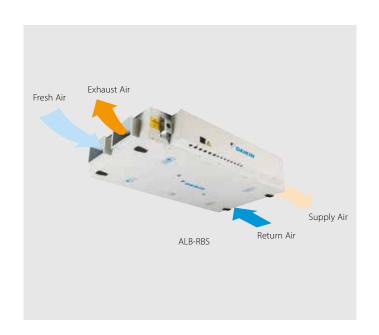


Modular L Smart

Premium efficiency heat recovery unit

Highlights

- > Connects Plug&Play into the Sky Air and VRV control network
- > Easy installation and commissioning
- > Internal pre-filter stage (up to ePM₁ 50% (F7) + ePM₁ 80% (F9)) making the unit reach highest indoor air quality requirements.
- > Wide air flow coverage from 150m³/h to 3,450m³/h
- > Exceeding ERP 2018 requirements
- Best choice when compactness is needed (only 280 mm height up to 550 m³/h)
- > 50 mm double skin panel (120 kg/m³) for a maximum sound and thermal insulation



EC centrifugal fan

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

Heat exchanger

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

For integration with Applied systems,

please refer to the Modular L, in the AHU chapter



Access all technical information on ALB-RBS at my.daikin.eu or click here



Access all technical information on ALB-LBS at my.daikin.eu or click here

Technical details

D-AHU Modular L Sr	nart	ALB-RBS/LBS	02	03	04	05	06	07
Airflow		m³/h	300	600	1200	1500	2300	3000
Heat exchanger thermal efficiency ¹		%	90	91	90	90	92	91
External static pressure	Nom.	Pa	100	100	100	100	100	100
Temperature after heat exchanger ¹	Nom.	°C	19,4	19,5	19,4	19,2	19,8	19,5
Max ESP @ nom. airflow		Pa	400	450	260	270	250	210
Current	Nom.	Α	0,52	1,17	1,91	2,48	3,76	5,39
Power input	Nom.	kW	0,12	0,27	0,44	0,57	0,87	1,24
SFPv ²		kW/m³/s	1,24	1,49	1,28	1,32	1,32	1,46
ERP compliant				ErP 2018	Compliant			
Electrical supply	Phase	ph	1	1	1	1	1	1
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60
	Voltage	V	220/240 Vac					
Main unit dimensions	Width	mm	920	1100	1600	1600	2000	2000
	Height	mm	280	350	415	415	500	500
	Length	mm	1660	1800	2000	2000	2000	2000
Rectangular duct flange	Width	mm	250	400	500	500	700	700
	Height	mm	150	200	300	300	400	400
Unit Sound Power Level (Lwa)		dB	48	54	57	53	60	57
Unit Sound Pressure Level ³	dBA	34	39	41	37	44	41	
Weight unit		kg	125	180	270	280	355	360

^{1.} Winter design condition: Outdoor: -5°C, 90% Indoor: 22°C,50%

^{2.} SFPv is a parameter that quantifies the fan efficiency (the lower it is the better will be). This reduces if airflow decreases.

^{3.} According to EN3744. Surrounding, Directivity (Q) = 2, @ 1,5m distance

Electrical heater for Modular L smart

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

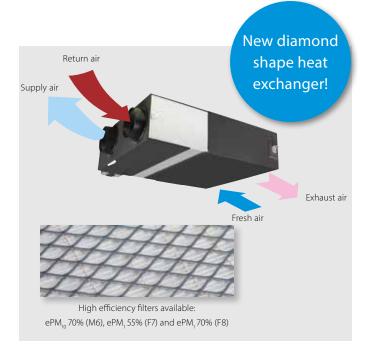


Electrical heater for Modular L Smart (ALD)	02HEFB	03HEFB	05HEFB	07HEFB
Capacity kW	1,5	3	7,5	15
Connectable Modular L Smart size	02	03	04, 05	06, 07
Supply voltage	230\	/,1ph	400\	/,3ph
Output current (maximum) (A)	6,6	13,1	10,9	21,7
Temperature sensor	15k ohms at -20 °C 10k ohms at +10 °C	16k ohms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

Energy 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
- > Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- > Prevent energy losses from over-ventilation while improving indoor air quality with optional CO, 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
- 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









Access all technical information on VAM-FC at my.daikin.eu or click here



Access all technical information on VAM-J at my.daikin.eu or click here

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 o 0.239
Temperature exchange efficiency - 50Hz	Ultra high/l	High/Low		%	78.3 (1) / 72.3 (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/ŀ	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/ŀ	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 system	1					Air to air cross flow total heat (sensible + latent heat) exchange							
Heat exchange eleme	nt							specially proc	essed non-fla	mmable pape	er		
Dimensions	Unit	HeightxWic	lthxDepth	mm	285x7	76x525	301x1,	113x886	368x1,354x920		54x1,172	731x1,3	54x1,172
Weight	Unit			kg	24	1.0	4	6.5	61.5		9.0	15	57
Casing	Material								anised steel ہ		1		
Fan	Air flow rate - 50Hz	e 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 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)
	External static pressure - 50Hz	Ultra high/l	High/Low	Pa	90 /87/40	70 /63/25			90	(1)/70.0 /50.0	(1)		
Air filter	Туре				Multidirectiona	l fibrous fleeces			Multidirect	ional fibrous	fleeces (G3)		
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/ŀ	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/l	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 uni	t		°CDB		-			0°C~40	°CDB, 80% RI	l or less		
Connection duct diam	eter			mm	100	150	2	00		250		2x2	250
Power supply	Phase/Freq	uency/Voltag	e	Hz/V				1~/5	0/60/220-240)/220			
Current		use amps (MI	FA)	A		5.0				16.0			
Specific energy	Cold climat			kWh/(m².a)	-56.0 (5)	-60.5 (5)				-			
consumption (SEC)	Average cli			kWh/(m².a)	-22.1 (5)	-27.0 (5)				-			
	Warm clima	ate		kWh/(m².a)	-0.100 (5)	-5.30 (5)				-			
SEC class						B / See note 5				-			
Maximum flow rate at				m³/h	130	207				-			
100 Pa ESP	Electric pov	ver input		W	129	160				-	1	1	
Sound power level (Lv				dB	40	43	51	54	5	8	61	62	65
Annual electricity con				kWh/a	18.9 (5)	13.6 (5)				-			
Annual heating saved				kWh/a	41.0 (5)	40.6 (5)				-			
	Average cli			kWh/a	80.2 (5)	79.4 (5)				-			
	Warm clima	ate		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 | 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
- > Heater only consumes what is required to pre-heat to the desired minimum fresh air temperature; thus saving energy



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

Energy 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
- > 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





Access all technical information on VKM-GB at my.daikin.eu or click here



Access all technical information on VKM-GBM at my.daikin.eu or click here

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/				
	b) pass mode		High/Low		0.140	0.192	0.230	0.170	0.192	0.230				
Fresh air	Cooling		Tilgii/Low	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		%	3.30 / 2.30 / 3.3	0.777 3.777 3.0	10.05/ 4.35/ 7.0	3.30 / 2.30 / 3.3	0.757 3.757 3.0	10.05/ 4.35/ 7.0				
exchange efficiency	Olda High/High/L	-044		/0	76/76/77.5	78/78/79	74/74/76.5	76/76/77.5	78/78/79	74/74/76.5				
					70/70/77.3	70/70/79	74/74/70.3	70/70/77.3	70/70/79	/4//4//0.3				
- 50Hz	C!:	Lillana lata	la /I II alla /II accord	%	64/64/67	66/66/68	62/62/66	64/64/67	66/66/68	62/62/66				
Enthalpy exchange	Cooling		h/High/Low	% %										
efficiency - 50Hz	Heating	Uitra nig	h/High/Low	%	67/67/69	71/71/73	65/65/69	67/67/69	71/71/73	65/65/69				
Operation mode							change mode / Byp							
Heat exchange system							ss flow total heat (s							
Heat exchange eleme							pecially processed r							
Humidifier	System	11-1-1-4-1	Afficials and a second		207: 1 764: 022		C4::1 214		tural evaporating t					
Dimensions	Unit Unit	Heightxi	WidthxDepth	mm	387x1,764x832	110	64x1,214	387x1,764x832 100	119	64x1,214				
Weight				kg	94	110	112		119	123				
Casing Fan-Air flow rate	Material Heat exchange mode	I Ilaun lain	h/High/Low	m³/h	500/500/440	750/750/640	950/950/820	steel plate 500/500/440	750/750/640	950/950/820				
	Bypass mode		h/High/Low	m³/h										
- 50Hz			n/nign/Low		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	_							1.61						
Air filter	Туре		1 0 1 1 0	ID 4	20/27/25	44.5 (20 (27		l fibrous fleeces	40/275/255	10/20/25 5				
Sound pressure level			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	Uitra nig	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				80% RH or less						
	Supply air			°CDB				80% RH or less						
	Return air	C 1: 04	01 04:	°CDB		45/42	0°C~40°CDB, 8	80% RH or less	45/42					
	On coil temperature	Cooling/M	ax./Heating/Min.	°CDB		-15/43			-15/43					
Refrigerant	Control							pansion valve						
	Туре							10A						
C	GWP				200	1		87.5	2	- n				
Connection duct diar		00		mm	200		50	200	2	50				
				mm mm										
Water supply mr						-	DT2/4 auto	rnal thread	6.4					
Drain Power supply Phase/Frequency/Voltage Hz/								rnai thread 220-240						
Power supply Current	Maximum fuse ar			Hz/V A				<u> </u>						
Current	iviaxiffiuffi fuse af	rips (IVIFA)		А				3						

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.

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

- Unique manufacturer offering a complet range
- > Plug & Play solution
- > Direct iTM compatibility

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

High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a 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.



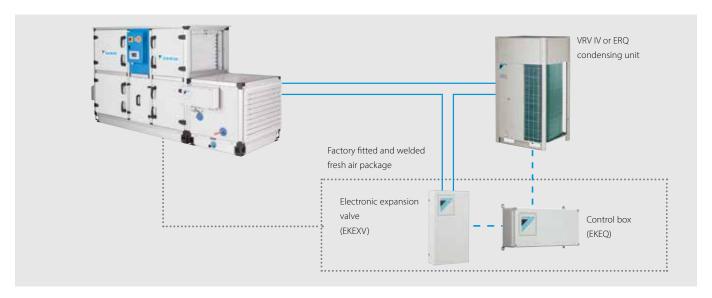
Fast response to changing loads resulting in high comfort levels

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

- \rightarrow 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

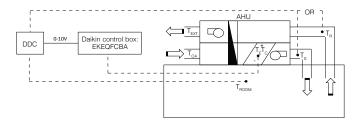
X control: Precise control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)

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

Air temperature control via DDC controller

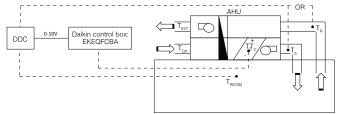
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V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



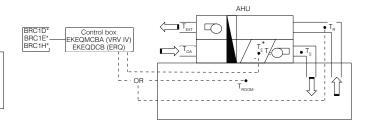
Y control (T_E/T_C control):

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 (BRC1* - optional) have to be connected for initial set-up but not required for operation.

Control box EKEQFCBA

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 BRC1* 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
	$T_{EXT} = Extraction air temperature$	$T_{\rm E}$ = 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
Danailailita 7	EKEQDCB	Using Daikin infrared remote control BRC1*
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)

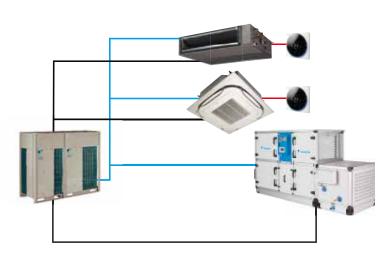
An advanced solution for both pair and multi application

- > Inverter controlled units
- > Heat recovery, heat pump
- > R-410A
- > Control of room temperature via Daikin control
- > Large range of expansion valve kits available
- > BRC1H519W/S/K 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





_____ Refrigerant piping

F1-F2

P1-P2



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

A basic fresh air solution for pair application

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

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





Access all technical information on ERQ-AV1 at my.daikin.eu or click here



Access all technical information on ERQ-AW1 at my.daikin.eu or click here

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	ricuting	1101111			99	3.42
COP				4.56	4.15	3.94
Dimensions	Unit	HeightxWidthxDepth	mm	4.50	1,345x900x320	3.54
Weight	Unit	Heightxwidthxbepth	kg		120	
Casing	Material		ку		Painted galvanized steel plate	
Fan-Air flow rate		Nom.	m³/min		106	
ran-Air now rate	Cooling			102		05
	Heating	Nom.	m³/min			
Sound power level	Cooling	Nom.	dBA	66	67	69
Sound pressure level	Cooling	Nom.	dBA	50	51	53
	Heating	Nom.	dBA	52	53	55
Operation range	Cooling	Min./Max.	°CDB		-5/46	
	Heating	Min./Max.	°CWB		-20/15.5	
	On coil temperature	Heating/Min./Cooling/Max.	°CDB		10/35	
Refrigerant	Туре				R-410A	
	Charge		kg		4.0	
			TCO₂eq		8.4	
	GWP				2,087.5	
	Control				Expansion valve (electronic type)	
Piping connections	Liquid	OD	mm		9.52	
	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		Α Α		32.0	
Ventilation		,	ERO	125AW1	200AW1	250AW1
			HP	5	200AW I	10
Capacity range			kW	14.0	22.4	28.0
Cooling conscitu						
	Nom.				25.0	31.5
Heating capacity	Nom.		kW	16.0		
Heating capacity	Nom. Cooling	Nom.	kW	3.52	5.22	7.42
Heating capacity Power input	Nom.	Nom.		3.52 4.00	5.56	7.42 7.70
Heating capacity Power input EER	Nom. Cooling		kW	3.52 4.00 3.98	5.56 4.29	7.42 7.70 3.77
Heating capacity Power input EER COP	Nom. Cooling Heating	Nom.	kW kW	3.52 4.00 3.98 4.00	5.56 4.29 4.50	7.42 7.70 3.77 4.09
Heating capacity Power input EER COP Dimensions	Nom. Cooling Heating Unit		kW kW	3.52 4.00 3.98 4.00 1,680x635x765	5.56 4.29 4.50 1,680x9	7.42 7.70 3.77 4.09
Heating capacity Power input EER COP Dimensions Weight	Nom. Cooling Heating Unit Unit	Nom.	kW kW	3.52 4.00 3.98 4.00	5.56 4.29 4.50 1,680x5	7.42 7.70 3.77 4.09
Heating capacity Power input EER COP Dimensions Weight	Nom. Cooling Heating Unit	Nom.	kW kW	3.52 4.00 3.98 4.00 1,680x635x765	5.56 4.29 4.50 1,680x9	7.42 7.70 3.77 4.09
Heating capacity Power input EER COP Dimensions Weight Casing	Nom. Cooling Heating Unit Unit	Nom.	kW kW	3.52 4.00 3.98 4.00 1,680x635x765	5.56 4.29 4.50 1,680x5	7.42 7.70 3.77 4.09
Heating capacity Power input EER COP Dimensions Weight Casing	Nom. Cooling Heating Unit Unit Material	Nom. HeightxWidthxDepth	kW kW	3.52 4.00 3.98 4.00 1,680x635x765 159	5.56 4.29 4.50 1,680x9 187 Painted galvanized steel plate	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate	Nom. Cooling Heating Unit Unit Material Cooling	Nom. HeightxWidthxDepth Nom.	kW kW mm kg	3.52 4.00 3.98 4.00 1,680x635x765 159	5.56 4.29 4.50 1,680x9 187 Painted galvanized steel plate 171 171	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level	Nom. Cooling Heating Unit Unit Material Cooling Heating	Nom. HeightxWidthxDepth Nom.	kW kW mm kg m³/min m³/min	3.52 4.00 3.98 4.00 1,680x635x765 159 95	5.56 4.29 4.50 1,680x9 187 Painted galvanized steel plate 171 171	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level	Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom.	Nom. HeightxWidthxDepth Nom.	kW kW mm kg m³/min m³/min dBA	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	5.56 4.29 4.50 1,680x5 187 Painted galvanized steel plate 171 171	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level	Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling	Nom. HeightxWidthxDepth Nom. Nom.	kW kW mm kg m³/min m³/min dBA dBA °CDB	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	5.56 4.29 4.50 1,680x5 187 Painted galvanized steel plate 171 171 7 57	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level	Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max.	kW kW mm kg m³/min m³/min dBA dBA cCDB cCWB	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	5.56 4.29 4.50 1,680x9 187 Painted galvanized steel plate 171 171 57 -5/43 -20/15	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Cooling Heating Unit Unit Cooling Heating Nom. Nom. Nom. Cooling Heating On coil temperature	Nom. HeightxWidthxDepth Nom. Nom.	kW kW mm kg m³/min m³/min dBA dBA °CDB	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95	5.56 4.29 4.50 1,680x 187 Painted galvanized steel plate 171 171 7 57 -5/43 -20/15 10/35	7.42 7.70 3.77 4.09 930x765 240
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max.	kW kW kW kW kg m³/min dBA dBA °CDB °CWB	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x5 187 Painted galvanized steel plate 171 171 57 57 -5/43 -20/15 10/35 R-410A	7.42 7.70 3.77 4.09 930x765 240 185 185 8
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Cooling Heating Unit Unit Cooling Heating Nom. Nom. Nom. Cooling Heating On coil temperature	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max.	kW kW kW kW kW kW kg m³/min m³/min dBA dBA °CDB °CWB CDB kg	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x5 187 Painted galvanized steel plate 171 171 57 57 -5/43 -20/15 10/35 R-410A 7.7	7.42 7.70 3.77 4.09 930x765 240 185 185 8 58
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Cooling Heating Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max.	kW kW kW kW kg m³/min dBA dBA °CDB °CWB	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x9 187 Painted galvanized steel plate 171 171 57 57 -5/43 -20/15 10/35 R-410A 7.7	7.42 7.70 3.77 4.09 930x765 240 185 185 8
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Cooling Heating Unit Unit Cooling Heating Nom. Nom. Nom. Nom. Tooling Heating On coil temperature Type Charge GWP	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max.	kW kW kW kW kW kW kg m³/min m³/min dBA dBA °CDB °CWB CDB kg	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x9 187 Painted galvanized steel plate 171 171 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5	7.42 7.70 3.77 4.09 930x765 240 185 185 8 58
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range	Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max. Heating/Min/Cooling/Max.	kW kg kg kg kg kg kg kW kW kW kW kW kg kg kW	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x5 187 Painted galvanized steel plate 171 171 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve	7.42 7.70 3.77 4.09 930x765 240 185 185 8 58
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant	Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control Liquid	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max. Heating/Min/Cooling/Max.	kW kW kW mm kg m³/min m³/min dBA dBA °CDB °CWB rCDB TCO₂eq mm	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x5 187 Painted galvanized steel plate 171 171 57 -5/43 -20/15 10/35 R-410A 7.7 16.1 2,087.5 Electronic expansion valve 9.52	7.42 7.70 3.77 4.09 930x765 240 185 185 8 58
Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant	Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control Liquid Gas	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max. Heating/Min/Cooling/Max.	kW kW kW mm kg m³/min m³/min dBA dBA °CDB °CWB TCO2eq mm mm	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x5 187 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	7.42 7.70 3.77 4.09 930x765 240 185 185 8 58
Cooling capacity Heating capacity Power input EER COP Dimensions Weight Casing Fan-Air flow rate Sound power level Sound pressure level Operation range Refrigerant Piping connections Power supply Current	Nom. Cooling Heating Unit Unit Unit Material Cooling Heating Nom. Nom. Cooling Heating On coil temperature Type Charge GWP Control Liquid	Nom. HeightxWidthxDepth Nom. Nom. Min./Max. Min./Max. Heating/Min/Cooling/Max. OD OD OD Voltage	kW kW kW mm kg m³/min m³/min dBA dBA °CDB °CWB rCDB TCO₂eq mm	3.52 4.00 3.98 4.00 1,680x635x765 159 95 95 72 54	5.56 4.29 4.50 1,680x5 187 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	7.42 7.70 3.77 4.09 930x765 240 185 185 8 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					Mr I
		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	-	-	-	-	
	ERQ140	Р	Р	-	-	-	Р	Р	Р	Р	-	-	-	-	Ni da a a a a a a a a a a a a a a a a a a
	ERQ125	Р	Р	-	-	Р	Р	Р	Р	Р	-	-	-	-	Not possible
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
VRV IV \	/ H/P / W-series S-series	-	P (1 -> 3)	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	Possible (not mandatory)
	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	-		nt exchanger e (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							401x	215x78				
Weight	Unit		kg		2.9										
Sound pressure leve								45							
Operation range	On coil	Heating Min.	°CDB							10) (1)				
	temperature	Cooling Max.	°CDB							35	5 (2)				
Refrigerant Type / GWP				R-410A / 2.087,5											
Piping connection	tions 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			
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 356.

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) is selected. 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%.

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.

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

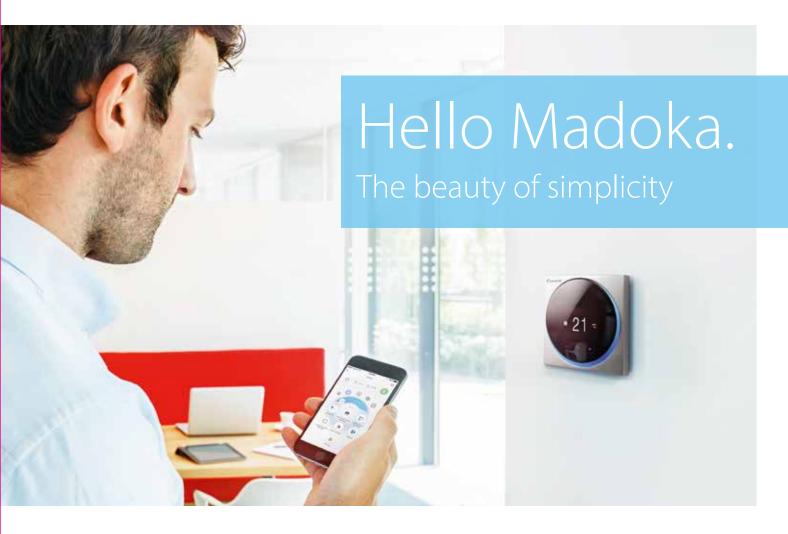
Step 2: Outdoor unit selection

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 only available control is Z control and the combination of AHU and VRV DX indoor units requires EKEQMCBA control box





Madoka guarantees comfort in the most intuitive way imaginable

Available in three attractive colours, Madoka adds style and class to any interior space.

Measuring just 85 x 85 mm, Madoka is extremely compact and will become a fluid part of any background.

Madoka combines refinement and simplicity.

The intuitive touch button control enlarges the display and makes Madoka both easy and enjoyable to use.

The Madoka Assistant app simplifies the advanced settings such as schedule or set point limitation. Your smartphone connects easily with Madoka via Bluetooth®











atrol Systems

Control Systems

Application overview	162
Individual control systems	
	164
Online controller	164
Wired / infrared remote controls	166
Centralised control systems	
Centralised remote control /	
Unified ON/OFF control / Schedule timer	170
intelligent Controller	171
Intelligent Controller with Daikin Cloud Service	172
Intelligent Manager	174
Standard protocol interfaces	
Modbus interface	178
KNX Interface	181
PMS Interface for hotels	182
BACnet Interface	183
LonWorks Interface	184
Daikin Configurator Software	
EKPCCAB3	185
Daikin Cloud Service for commercial DX systems	
Darkin Cloud Service for Commercial DA systems	
Other devises	
Wireless room temperature sensor	188
Wired room temperature sensor	188
Other integration devices	189
=	



CLOUD SERVICE

Control solutions summary

Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

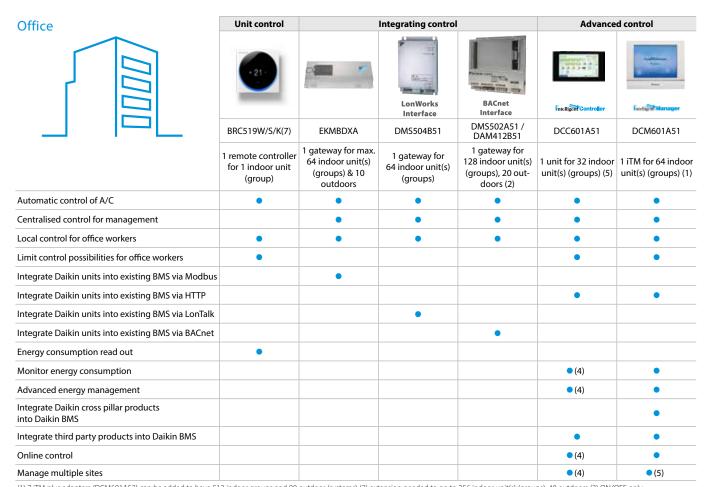
- > Basic control solutions for those customers with few requirements and limited budget
- > Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
- Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

Shop		Unit co	ontrol	lı	ntegrating con	trol	Advanc	ed control
	0	-21			- American (1974)	· ×	intelligent Controller	I _{sob} Manager
	BRP069* Online controller	BRC519W/ S/K(7)	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	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) (5)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•	•	•	•	•	•
Limit control possibilities for shop staff		•	•	•	•	•	•	•
Create zones within the shop			•				•	•
Interlock with eg. Alarm, PIR sensor			•				(limited)	•
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)					• (2)	•
Advanced energy management							• (2)	•
Allows free cooling							•	•
Integrate Daikin products cross pillars into Daikin BMS								•
Integrate third party products into Daikin BMS							•	•
Online control	•						• (2)	• (3)
Manage multiple sites							• (2)	• (3)

^{(1) 7} iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via Daikin cloud service (3) Through own IT set-up (not Daikin cloud server) (4) Not available on all indoors (5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service

Hotel 1	Unit control	Integratir	ng control	Advance	d control
	21		James and State of the State of	PMS Interface	Laction Manager
	BRC519W/S/K(7)	RTD-HO	KLIC-DI	DCM010A51	DCM601A51
	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)		•
Limit control possibilities for hotel guests	•	•	•	•	•
Interlock with window contact	• (2)	•			•
Interlock with key-card	• (2)	•			•
Integrate Daikin units into existing BMS via Modbus		•			
Integrate Daikin units into existing BMS via KNX			•		
Integrate Daikin units into existing BMS via HTTP					•
Integrate Daikin unit control in hotel booking software				Oracle Opera PMS	
Monitor energy consumption					•
Advanced energy management					•
Integrate Daikin products cross pillars into Daikin BMS					•
Integrate third party products into Daikin BMS					•
Online control					•
(1) 7 (7) 1 1 1 (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)			1 175.07		

^{(1): 7} iTM plus adapters (DCM601AS2) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via BRP7AS1 adapter (3) requires KNX compatible controller



(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)

(5) Up to 10 DCC601A51 can be combined as a single site on Daikin Cloud Service

Infrastructure cooling	Unit	Integ	rating	Advanced
	•21			(sotie Hanager
	BRC519W/S/K(7)	RTD-10	DTA113B51	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 adapter for op to 4 units	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	•	•	•	•
Back-up operation	•	•	•	•
Duty rotation	•	•	•	•
Limit control possibilities in the technical cooling room	•	•		•
If room temperature above max., then show alarm & start standby unit.		•		•
If an error occurs, an alarm will be shown.	•	•		•
If an error occurs, activate an alarm output	Via KRP2/4A option (3)	•		Via WAGO I/O

^{(1): 7} iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to Seasonal Smart outdoor units. (3) See option list of indoor unit



Madoka

The beauty of simplicity.







User-friendly wired remote controller with premium design

Madoka combines refinement and simplicity

- > Sleek and elegant design
- > Intuitive touch-button control
- > Two display options: standard and detailed
- > Three colours to match any interior
- > Compact, measures only 85 x 85 mm
- > Advanced settings and commissioning via smartphone







Madoka Assistant







Simplifies the advanced settings such as schedule or set point limitation

- ✓ Visual interface simplifies advanced settings such as schedule setting, energy saving activation, setting restrictions, etc.
- ☑ Easy and quick commissioning, saves time and cost for installers
- ✓ Featuring Bluetooth® low energy technology

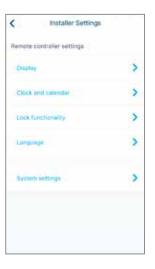
Easy setting of schedules



Advanced user settings



Installer settings



Field settings



BRC1H519W(7) / BRC1H519S(7) / BRC1H519K(7)

Madoka wired remote controller for Sky Air and VRV





BRC1H519S(7)



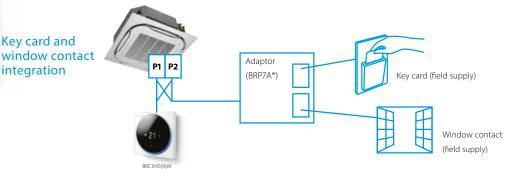
A complete redesigned controller focussed to enhance user experience

- > Sleek and elegant design
- > Intuitive touch-button control
- > Two display options: standard and detailed
- > Direct access to basic functions
- (on/off, set point, mode, target values, fan speed, louvres, filter icon & reset (4), error & code)
- > Three colours to match any interior
- > Compact, measures only 85 x 85 mm
- > Real time clock with auto update to daylight saving time
- > Equipped with a buzzer

Hotel application features

- > Energy saving through key card, window contact integration and set point limitation (BRP7A*)
- > Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort







Madoka Assistant: Advanced settings can be easily done via your smartphone

A range of energy-saving functions that can be selected individually

- Temperature range restriction
- > Setback function
- > Adjustable presence detector and floor sensor (available on the Round Flow and Fully Flat Cassettes)
- > Automatic temperature reset (4)
- > Auto off timer

Temperature range restriction means no excessive heating/cooling

Save on energy by setting the low-temperature limit in cooling mode and

the high-temperature limit in heating mode. (1) Kilowatt-hour consumption tracking (2)

The kWh indicator displays indicative power consumption for the last day/month/year. (4)

Other functions

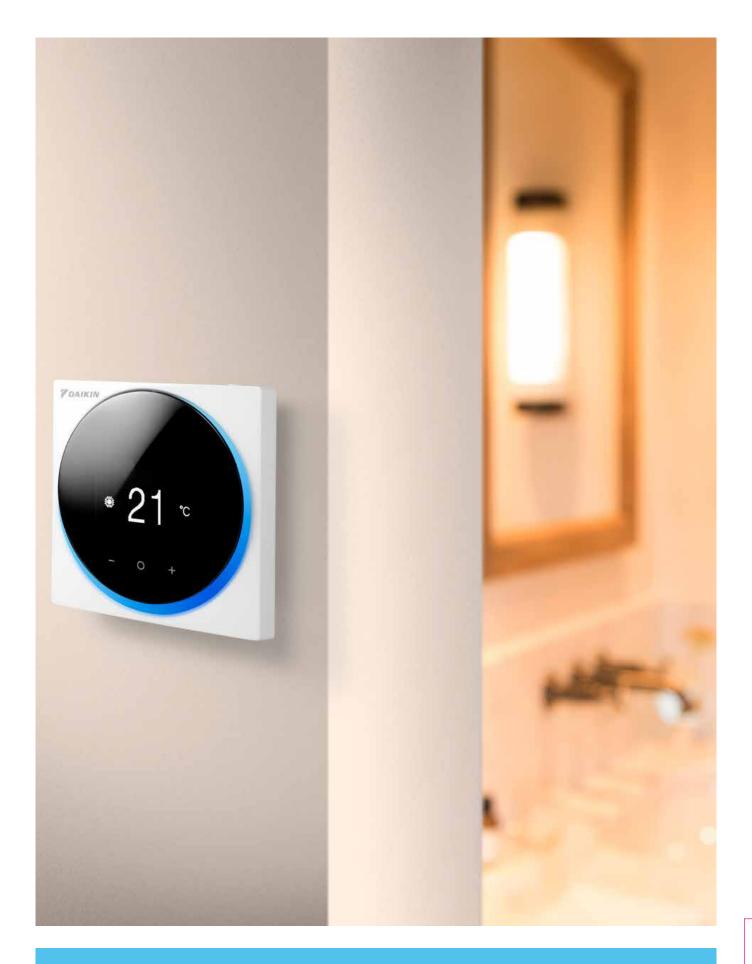
- > Up to three independent schedules can be programmed, allowing you to switch easily between them throughout the year (e.g. summer/winter/ mid-season)
- > Menu settings can be individually locked or restricted
- > The outdoor unit (3) can be set to quiet mode
- > Real-time clock that updates automatically for daylight saving



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, extending the system lifetime. Rotation interval can be set for 6, 12, 24, 72 or 96 hours, as well as weekly.

- (1) Also available in auto cooling/heating changeover mode (2) For Sky Air FBA, FCAG and FCAHG pair combinations only
- (3) Only available on RZAG*, RZASG*, RZQG*, RZQSG*
- (4) Feature will become available with future app updates from the second half of 2018 onwards



www.daikin.eu/madoka

BRC1E53A/B/C

User friendly remote control for Sky Air and VRV



Graphical display of indicative electricity consumption (Function available in combination with FBA-A, FCAG and FCAHG)

A series of energy saving functions that can be individually selected

- > Demand control (1)
- > Temperature range limit
- > Setback function
- Presence & floor sensor connection (available on round flow and fully flat cassette)
- > kWh indication (2)
- > Set temperature auto reset
- > Off timer

Cost-effective solution for infrastructure cooling applications

> Only in combination with 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 systems

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



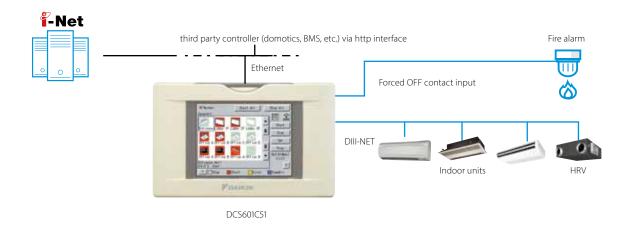
Providing simultaneous and individual control of 16 groups of indoor units.

- > 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
- DutchPortuguese

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

- 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

with Cloud connection

2 solutions:

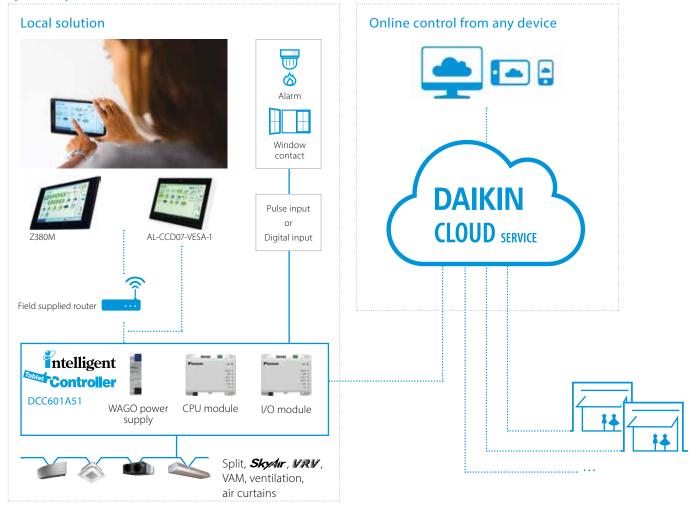
Local solution

- > Offline centralised control
- > Stylish optional screen fits any interior

Cloud solution

- > Flexible online control from any device (Laptop, tablet...)
- > Monitor & control one or multiple sites
- Benchmark the energy consumption of different installations (1)
- > Energy consumption follow-up to comply with local regulations

System layout



(1) For VRV and Sky Air R-32 ranges

- 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

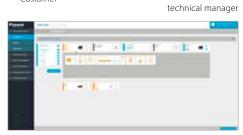
- Stylish Daikin supplied optional screen for local control fits any interior
- > Intuitive and user-friendly interface
- > Full solution with simple control
- > Easy commissioning

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 units per controller and 320 units per site

(1) only available in combination with certain indoor units

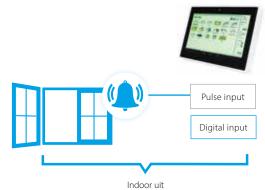
From one to ∞ sites DAIKIN CLOUD SERVICE Installer/



Intuitive control from the cloud



Easy follow up of energy consumption



Functions overview

			6 1 1 1
		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,)	•	•
	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

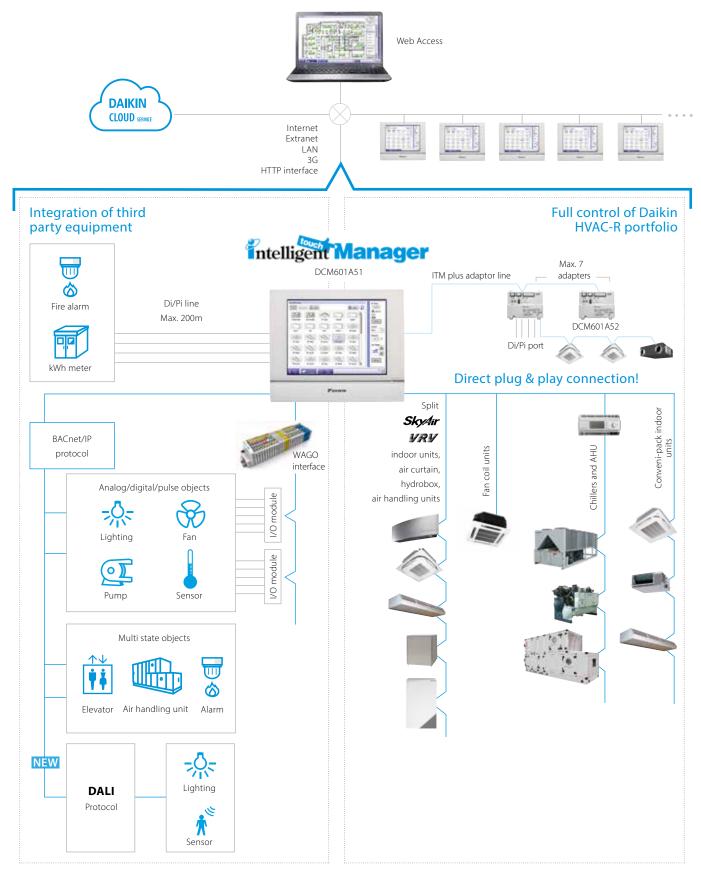
- > Easy selection of WAGO materials
- Material list creation
- → Time saving
- Includes wiring schemes
- Contains commissioning/preset data for iTM







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

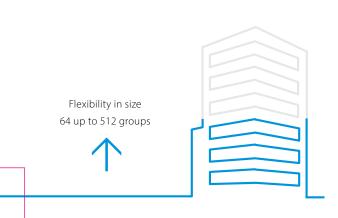
- > Monitoring if energy use is according to plan
- > Helps to detect origins of energy waste
- Powerful schedules guarantee correct operation throughout the year
- Save energy by interlocking A/C operation with other equipment such as heating

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

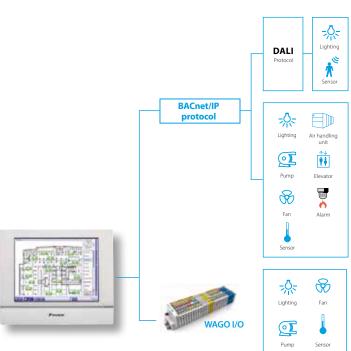
Easy servicing and commissioning

- 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









Control Syste

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)



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

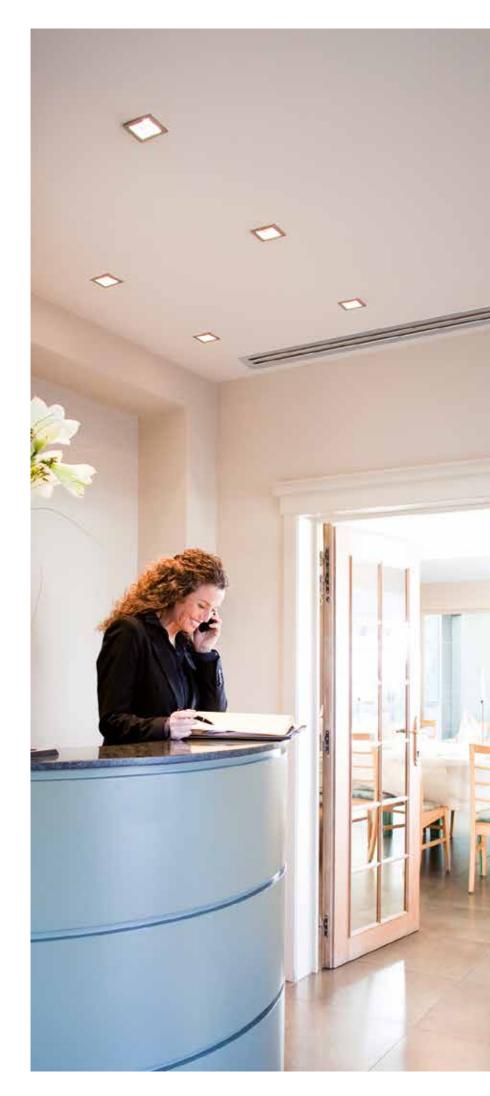
- Advanced control of Sky Air, VRV, VAM/VKM and air curtains
- > Clone or independent zone control
- > Increased comfort with integration of CO₂ sensor for fresh air volume control
- > Save on running costs via
 - pre/post and trade mode
 - set point limitation
 - overall shut down
- PIR sensor for adaptive 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 x1	00 x 22	
Key card + window contact					Po-
Set back function	₽				Po-
Prohibit or restrict remote control functions (setpoint limitation,)	₽	Pe-	P	R-"	Po-
Modbus (RS485)	₽	Pe-	P	B	Po-
Group control	₽ (1)	Pe-	P	B	Pe-
0 - 10 V control			P	B	
Resistance control			12-	₽-	
IT application	₽		R-		
Heating interlock			R-	B	
Output signal (on/defrost, error)			P	₽	Po-
Retail application				B	
Partitioned room control				B	
Air curtain		₽	₽	B	

(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			12
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	M.C
Set point leaving water temperature (H/C)	M
Room temperature setpoint	M
Operation mode	M
Domestic Hot Water reheat	M
Domestic Hot Water storage	M
Number of units in the group	M
Average leaving water temperature	M
Remocon room temperature	M
Fault	M,C
Fault code	M
Circulation pump operation	M
Flow rate	
Solar pump operation	
Compressor status	M
Desinfection operation	M
Setback operation	M
Defrost/ start up	M
Hot start	
Booster Heater operation	
3-Way valve status	
Pump running hours accumulated	M
Compressor running hours accumulated	
Actual leaving water temperature	M
Actual return water temperature	M
Actual DHW tank temperature (*)	M
Actual refrigerant temperature	
Actual outdoor temperature	M

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

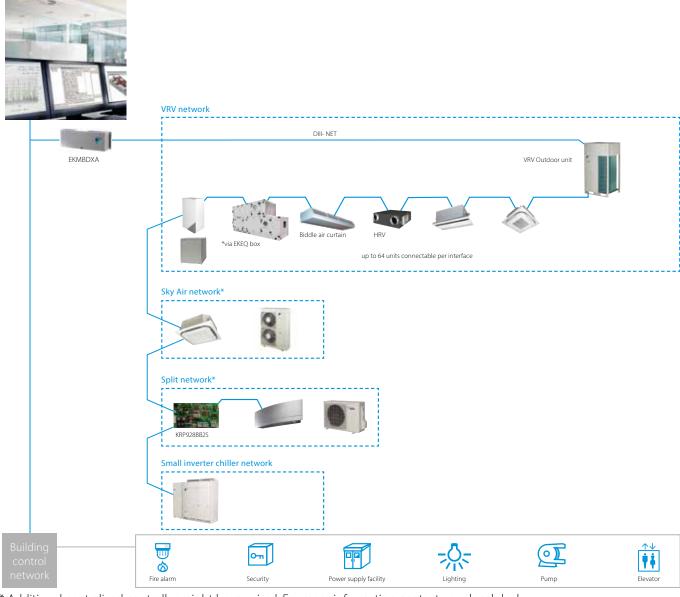
DIII-net Modbus interface

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).





* 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 outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KNX interface

KLIC-DD 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 'scene' - such as "Home leave" - in which the end-user selects

a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

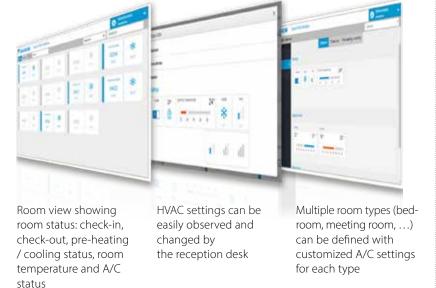
KNX interface for KLIC-DD Size 45x45x15mm KLIC-DI Size 90x60x35mm Sky Air Split Basic control On/Off Auto, heat, dry, fan, cool Mode Auto, heat, dry, fan, cool Auto, heat, dry, fan, cool Temperature Fan speed levels 3 or 5 + auto 2 or 3 2 or 3 Stop or movement Swing or fixed positions (5) Swing Stop 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

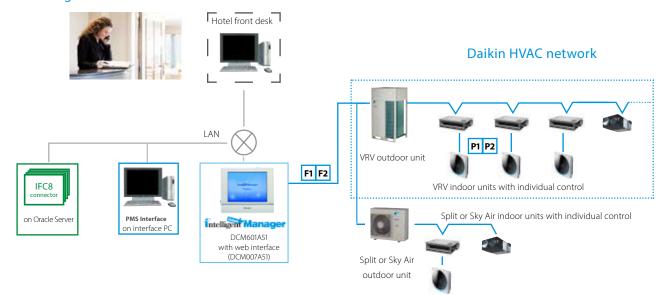
- > User-friendly interface for easy front desk support in hotels, conference centers, ...
- Compatible with Oracle Opera PMS (formerly known as Micros Fidelio)
- Automated push of indoor unit settings based on the Opera PMS Check-In and Check-Out commands
- > Energy saving thanks to the possibility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

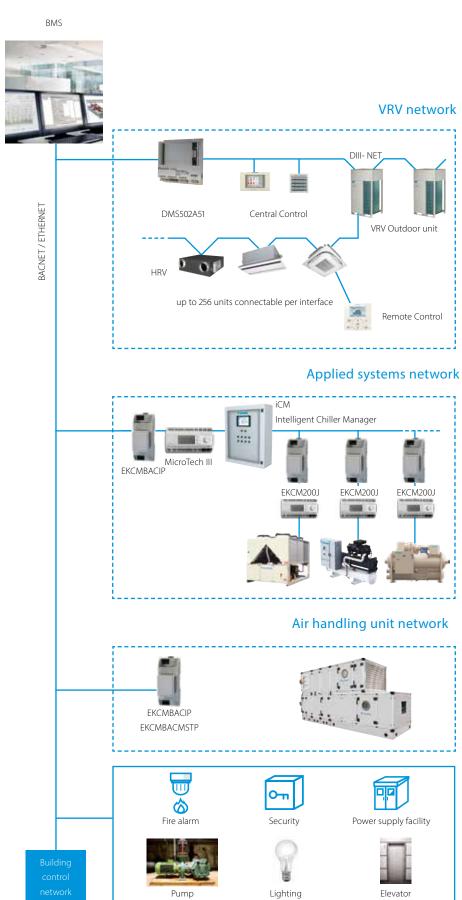


BACnet Interface

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)



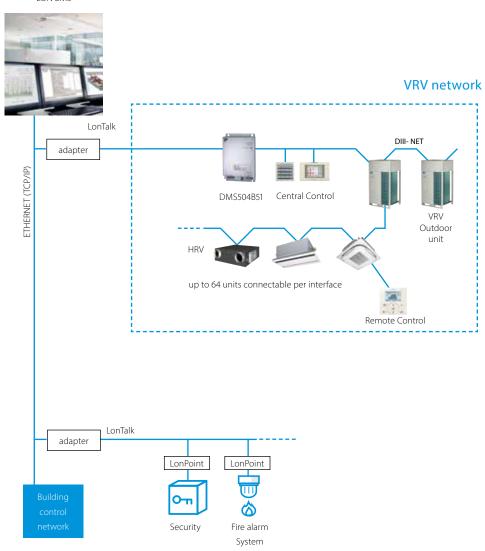
LonWorks Interface

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

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







Daikin Cloud Service

to achieve optimal operation



Daikin Cloud Service is a cloud-based remote control and monitoring solution for DX systems. Using enhanced control, monitoring and predictive logic, Daikin Cloud Service provides real-time data and support from Daikin experts to help you identify cost-saving opportunities, increase the lifetime of your equipment and reduce the risk of unexpected issues.

Monitor & control* your system no matter where you are while teaming up with Daikin experts

Remote control and energy visualisation

Puts you in the driving seat of your energy management

- ✓ Control and monitor your premises, wherever you are
- Centralised control and monitoring of all your premises
- ✓ Check errors remotely without having to go on site
- ✓ Visualise energy consumption and reduce energy waste by comparing different premises

Multi-site monitoring



Remote support and diagnostics

Daikin specialist supervision, so you can focus on your core business

- ☑ Early warning of system deviations to maximise system uptime and avoid emergency repairs**
- Service providers have access to operational data so they arrive on site prepared
- ▼ Remote expert assistance in case of errors



Advice and optimisation

Get the best out of your system through expert advice

✓ Periodical analysis and optimisation report by experts

Personalised actions to maximise energy efficiency and comfort

✓ Increased system lifetime as the system runs as it should

Daikin Cloud Service requires a subscription. Contact your local sales representative for more information.

^{*} Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

^{**} Only available for VRV systems

Daikin Cloud Service packages

	Control and monitoring	Remote support and diagnostics	Advice and optimisation
Remote control, scheduling and interlocking	(DCC601A51 only)	(DCC601A51 only)	(DCC601A51 only)
Energy monitoring	✓	✓	✓
Multi-site benchmark	✓	✓	✓
Alarm history and e-mail notifications**	✓	✓	✓
Predictions and e-mail notifications**	Х	✓	✓
Operational data access	Х	✓	✓
Indoor use analysis	Х	✓	✓
Outdoor use analysis	Х	✓	✓
Remote diagnostic and support from Daikin	Х	✓	✓
Periodical analysis and optimisation advice from Daikin	Х	Х	✓
Can be combined with maintenance programmes: - Technical inspection - Preventive Maintenance Plan - Comprehensive Maintenance Plan	X	×	√

Packages subject to local availability
Daikin Cloud Service replaces VRV Cloud and i-Net services.

Flexible solution

Manage your premises according to your needs, using a local control or remotely via Daikin Cloud Service, or a combination of both.

Control*, no matter where you are

Daikin Cloud Service gives you full control of one or more premises wherever you are, using your PC, tablet or smartphone.

Predictive logic for VRV to prevent breakdowns

The operational data is continuously analysed by Daikin algorithms to predict potential failures and avoid unexpected costs.

Compatible with:

- > Intelligent Tablet Controller (DCC601A51)
- > Intelligent Touch Manager (DCM601A51) + IoT gateway
- > LC8 + IoT gateway



1. Monitor and control your system



4. Detailed energy consumption follow up



2. Compare energy use with target



5. Follow up of alarm and fault prediction



3. Compare energy use from multiple sites

^{*} Remote Control function via Daikin Cloud Service only available for sites with an Intelligent Tablet controller

^{**} Only available for VRV systems

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	0				
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

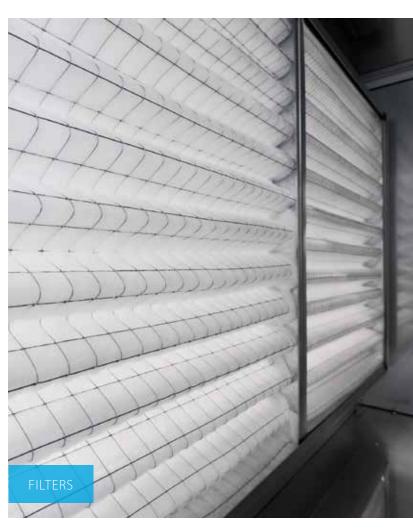
requirements Deployed on	single or multiple uni	ts	Co	nnectable	to:
			Split	Sky Air	VRV
	(E)KRP1B* adapter for wiring	 Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper Powered by and installed at the indoor unit 		•	•
	KRP2A*/KRP4A* Wiring adapter for electrical appendices	 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 		•	•
MI COLUMN	KRP58M3	Low noise and demand control option for RZQ200/250C		•	
THE STATE OF THE S	SB.KRP58M51	 Low noise and demand control option for RZQG and RZQSG single phase Includes mounting plate EKMKSA1 		•	
MIN COLUMN	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			•
- WING MIS	KRP928* Interface adapter for DIII-net	Allows integration of split units to Daikin central controls	•		
	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	15	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		 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 - ITI outdoor					
	Options & accessories - = = = outdoor		,	VRV IV Heat Recovery	,	
		REYQ 8~12	REYQ 14~20	REMQ5	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)	EKBPH012T7A	EKBPH020T7A	EKBPH012T7A		
	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*, BSVQ box, or VRV-WIII outdoor unit.				depends on type of inc Options & Accessories	
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					
	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					
	EKPCCAB4 VRV configurator	•	•	•	•	•
Others	KKSB26B1* 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					

	Drain plug kit			
			VRV	/ 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 F1/F2 communication line and requires power supply from an indoor unit*, BSVQ box, or VRV-WIII outdoor unit.		DTA104A53/61/62 n 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)	1		
_	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)			•
	EKPCCAB4 VRV configurator	•	•	•
Others	KKSB26B1* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			
Ó	DTA109A51 DIII-net expander adapter	1		
	BPMKS967A2/A3 Branch provider (for connection of 2/3 RA indoor units)	•	•	•
	EKDK04 Drain plug kit	1	•	•
	, , , , , , , , , , , , , , , , , , ,			-

VRV IV with continuous heating							VRV IV without continuous heating			VRV IV C+series				
RYYQ8-12	RYYQ14-20	RYMQ8-12	RYMQ14-20	2-module systems	3-module systems	RXYQ8-12	RXYQ14-20	2-module systems	3-module systems	RXYLQ	RXMLQ	2-module systems	3-module systems	
				BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517			BHFQ22P1007	BHFQ22P1517	
EKBPH012T7A	EKBPH020T7A	EKBPH012T7A	EKBPH020T7A			EKBPH012T7A	EKBPH020T7A							
•	•	•	•	1 kit per system	1 kit per system	•	•	1 kit per system	1 kit per system					
			Fo			or unit: exact a	A53/61/62 dapter type dep equired. See Opt		f indoor unit. ries of indoor un	its				
				1 kit	1 kit			1 kit	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	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 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 per system
•	•	•	•	•	•	•	•	•	•	•	•	•	•
	•		•				•						
_													

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

•

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

See Options & Accessories of indoor units											
			•	•							
				•							
			•	•							
			•								
•			•	•							
•											



			VRV IV-	-Q Heat Pump Replacem	nent VRV	
_		RQYQ 140P	RXYQQ8-12	RXYQQ14-20	2-module systems	3-module systems
	Multi-module connection kit (obligatory) Connects multiple modules into a single refrigerant system				BHFQ22P1007	BHFQ22P1517
v,	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)		EKBPH012T7A	EKBPH020T7A		
	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
Adapters	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*, BSVQ box, or VRV-WIII outdoor unit.	DTA104AS3/61/62 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	For 14-20 HP the deman	to an indoor unit: exact a	.A53/61/62 idapter type depends on t equired. See Options & Ac	
4	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	TRISTAINANT OF THIRD TO CONTINUE ASSESSED TO THE TRISTAIN OF T		•	•	•	•
Oth	KKSB2B61* Demand PCB mounting plate. Needed to mount Demand PCB for one or more outdoor units.			•		
	DTA109A51 DIII-net expander adapter	•	•	•	•	•

- (Refne	et Joints			Refnet Headers
Ret	fnets & branch selector boxes	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
Refnets	Imperial-size connections for heat recovery pump (2-pipe)	KHRQ22M20T	KHRQ22M29T9	KHRQ22M64T	KHRQ22M75T	KHRQ22M29H	KHRQ22M64H
	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 rv 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						
	KHRP26A1250C Joint kit						
Options for for connec	Quiet kit						

(1) For installations with special requirements towards fire regulations, the insulation material can be replaced using kits EKHBFQ1 and EKHBFQ2. The kits contain insulation material that complies with ENI3501-I:B-S3,dO and BS476-7 (class I)

ès	
0	
- is	
5	
ŭ	
Æ	
⊗	
S	
- 0	
=	
Ω	

	VPV III-O Heat Recov	ery Replacement VRV			VR	V-W IV Water-cooled V	/RV				
	VIIV III-Q Heat Necov	ery neplacement vitv			Heat Pump	application	Heat Recovery application				
RQEQ 140~212	2-module systems	3-module systems	4-module systems	RWEYQ8-14	2-module systems	3-module systems	2-module systems	3-module systems			
	BHFP26P36C	BHFP26P63C	BHFP26P84C		BHFQ22P1007 / BHFQ22P1517 (1)	BHFQ22P1517 (1)	BHFQ23P907 / BHFQ23P1357 (1)	BHFQ23P1357 (1)			
•	1 kit per system	1 kit per system	1 kit per system								

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

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

	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	BS16Q14AV1B							
KHRQM22M75H														
KHRQ22M75H														
KHRQM23M75H														
KHRQ23M75H														
	•													
		•	•	•	•	•	•							
		•	•	•	•	•	•							
		KDDN26A4	KDDN26A8	KDDN26A8	KDDN26A12	KDDN26A12	KDDN26A16							

)pt	tions & accessories - IRI indoor			Ceiling mor	unted cassette unit	.s
		Round flow (800x800)	4-way (600x600)		2-way blow	
		FXFQ 20~125B	FXZQ 15~50A	FXCQ 20~40A	FXCQ 50~63A	FXCQ 80 ~125
_	Decoration panel (obligatory for cassette units, optional for others, rear panel for FXLQ)	Standard panels: BYCQ140E (white) / BYCQ140EW (full white)(I) / BYCQ140EB (black) Auto cleaning (5)(6): BYCQ140EGF (white) / BYCQ140EGFB (black) Designer panels: BYCQ140EP (white) / BYCQ140EPB (black)	BYFQ60CW (white panel) BYFQ60CS (grey panel) BYFQ60B3 (Standard panel)	BYBCQ40H	BYBCQ63H	BYBCQ125H
			KDBQ44B60			
1	Panel spacer for reducing required installation height		(Standard panel)			
-	Sealing kit for 3- or 2-directional air discharge Sensor kit	KDBHQ56B140 (7) BRYQ140B (white panels) BRYQ140BB (black panels) BRYQ140C (white designer panel) BRYQ140CB (black designer panel)				
	Infrared remote control including receiver	BRC7FA532F (white panels) BRC7FA532FB (black panels) BRC7FB532F (white designer panel) BRC7FB532FB (black designer panel)		BRC7C52	BRC7C52	BRC7C52
	Madoka BRC1H519W(7) (White) / BRC1H519S(7) (Silver) / BRC1H519K(7) (Black) User-friendly wired remote controller with premium design	•	•	•	•	•
	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•
1	BRC1D52 (4) Standard wired remote control with weekly timer	• (15)	•	•	•	•
	DCC601A51 Intelligent Tablet Controller	•	•	•	•	•
	DCS601C51 (12) intelligent Touch Controller	•	•	•	•	•
	DCS302C51 (12) Central remote control	•	•	•	•	•
	DCS301B51 (12) (13) Unified ON/OFF control	•	•	•	•	•
	DST301B51 (12) Schedule timer	•	•	•	•	•
DCS: Unification of the control of t	DCM601A51 Intelligent Touch Manager	•	•	•	•	•
	EKMBDXA DIII-net modbus interface	•	•	•	•	•
	KLIC-DI KNX interface	•	•	•	•	•
	DMS502A51 BACnet interface	•	•	•	•	•
+ standard protocol interface + standard protocol interface Popular	DMS504B51 LowWorks interface	•	•	•	•	•
1	Replacement long life filter, non-woven type	KAFP551K160	KAFQ441BA60	KAFP531B50	KAFP531B80	KAFP531B16
	Auto cleaning filter	see decoration panel		ĺ		
1	Wiring adapter for external monitoring/control via dry contacts and setpoint control via 0-140 $\!\Omega$	KRP4A53 (2)(7)	KRP4A53 (2)	KRP4A51	KRP4A51	KRP4A51
	Wiring adapter with 2 output signals (Compressor / Error, Fan output)	KRP1BA58 (2)(7)	KRP1B57			
	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1C12 (2)(7)	EKRP1B2	EKRP1B2	EKRP1B2	EKRP1B2
	Adapter for wiring (interlock for fresh air intake fan) Wiring adapter for external central monitoring/control (controls 1 entire system)		KRP2A52	KRP2A51	KRP2A51	KRP2A51
1	External control adapter for outdoor unit (installation on indoor unit)			DTA104A61	DTA104A61	DTA104A6
	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61			
-	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 K.RSS	KRCS01-7B	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4
-	External wireless temperature sensor Connector for forced-off contact	Standard	Standard	Standard	Standard	Standard
-	Multi zoning kit	Standard	Standard	Standard	Standard	Janua
-	Drain pump kit	Standard	Standard	Standard	Standard	Standard
-	Fresh air intake kit	KDDP55C160-1 + KDDP55D160-2 (7)(8)	KDDQ44XA60			
	Air discharge adapter for round duct					
				KDDEDE3BE0	KUUEDESBOU	KUDEDE2D1

Filter chamber for bottom suction

KDDFP53B50

KDDFP53B80

KDDFP53B160

⁽¹⁾ pump station is necessary for this option
(2) Installation box is necessary for these adapters
(3) The BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140EW decoration panel in environments exposed to concentrations of dirt"

⁽⁴⁾ Not recommended because of the limitation of the functions
(5) To be able to control the BYCQ140DG(F)(B) the controller BRC1E or BRC1H* is needed
(6) The BYCQ140DG(F)(B) is not compatible with Multi and Split Non-Inverter Outdoor units

⁽⁷⁾ Option not available in combination with BYCQ140DG(F)(B) (8) Both parts of the fresh air intake are needed for each unit

⁽⁹⁾ Sensing function not available

⁽⁹⁾ Sensing function not available
(10) Independently controllable flaps function not available
(11) Only possible in combination with BRC1H* / BRC1E*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller
(13) Option KEK26-1A (Noise filter) is required when installing DCS301B51
(14) Wire harmass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box

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

			Concea	led ceiling units (du	ct units)		
Corner (1-		Slim		Stan	dard		
FXKQ 25~40MA	FXKQ 63MA	FXDQ 15~63A	FXSQ 15~32A	FXSQ 40~50A	FXSQ 63~80A	FXSQ 100~125A	FXSQ 140A
BYK45F	BYK71F						
511(15)	21.0.1.						
BRC4C61	BRC4C61	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65	BRC4C65
•	•	•	•	•	•	•	•
			•		_		
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•		•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•		•		•	•	•
	•	•		•		•	•
•	•	•	•	•	•	•	•
		15-32: BAE20A62					
		40-50: BAE20A82 63: BAE20A102					
KRP4A51	KRP4A51	KRP4A54	KRP4A52(2)	KRP4A52(2)	KRP4A52(2)	KRP4A52(2)	KRP4A52(2)
KRP1B61	KRP1B61	KRP1B56	EKRP1B2(2)	EKRP1B2(2)	EKRP1B2(2)	EKRP1B2(2)	EKRP1B2(2)
1/2224		//ppa.s.=a	1/2224 = 1/2)	1/2224 = 1/2)	1/2224 =1/2)	((0.000 + 54/0)	//DD0.4.54/0\
KRP2A51	KRP2A51	KRP2A53	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)	KRP2A51(2)
DTA104A61	DTA104A61	DTA104A53	DTA104A61	DTA104A61	DTA104A61	DTA104A61	DTA104A61
		DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61	DTA114A61
BRP7A51	BRP7A51	BRP7A54	BRP7A51	BRP7A51	BRP7A51	BRP7A51 KRP1BA101/	BRP7A51
		KRP1B101	KRP1BA101/ KRP1B100	KRP1BA101/ KRP1B100	KRP1BA101/ KRP1B100	KRPIBAIOI/ KRPIB100	KRP1BA101/ KRP1B100
KRCS01-1	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4	KRCS01-4
•	•	•	•	•	•	•	•
Standard	Standard		Standard	Standard	Standard	Standard	Standard
Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
			KDAP25A36A	KDAP25A56A	KDAP25A71A	KDAP25A140A	

		Conceal	ed ceiling units (d	uct units)		Ceilin	ng suspended units
			fficiency	Large		1-way blow	
		FXMQ 50~80	FXMQ 100~125	FXMQ 200~250	FXHQ 32A	FXHQ 63A	FXHQ 71~100A
	Decoration panel						
els	(obligatory for cassette units, optional for others, rear panel for FXLQ)		-				
Panels	Panel spacer for reducing required installation height						
_	Sealing kit for 3- or 2-directional air discharge						-
	Sensor kit	BRC4C65	DDC4C65	BRC4C65	PDC7G52	PDC7C52	PDC7C52
control	Infrared remote control including receiver Madoka BRC1H519W(7) (White) / BRC1H519S(7) (Silver) / BRC1H519K(7) (Black) User-friendly wired remote controller with premium design	BRC4C03	BRC4C65	BRC4C65	BRC7G53	BRC7G53	BRC/G53
Individual control systems	BRC1E53A/B/C Wired remote control with full-text interface and back-light	•	•	•	•	•	•
٩	BRC1D52 (4) Standard wired remote control with weekly timer	•	•	•	•	•	•
sme	DCC601A51 Intelligent Tablet Controller	•	•	•	•	•	•
Centralised control systems	DCS601C51 (12) intelligent Touch Controller	•	•	•	•	•	•
ed cont	DCS302C51 (12) Central remote control	•	•	•	•	•	•
ntralise	DCS301B51 (12) (13) Unified ON/OFF control	•	•	•	•	•	•
	DST301B51 (12) Schedule timer	•	•	•	•	•	•
stem + face	DCM601A51 Intelligent Touch Manager	•	•	•	•	•	•
nent sy: ol inter	EKMBDXA DIII-net modbus interface	•	•	•	•	•	•
management system + ard protocol interface	KLIC-DI KNX interface	•	•	•	•	•	•
ding ma andard	DMS502A51 BACnet interface	•	•	•	•	•	•
Building	DMS504B51 LowWorks interface	•	•	•	•	•	BRC7G53
Filters	Replacement long life filter, non-woven type				KAFP501A56	KAFP501A80	KAFP501A160
盖	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
	Wiring adapter with 4 output signals (Compressor / Error, Fan, Aux. heater, Humidifier output)	EKRP1B2	EKRP1B2	KRP1B61			
	Adapter for wiring (interlock for fresh air intake fan)		-				-
2	Wiring adapter for external central monitoring/control (controls 1 entire system)	KRP2A51	KRP2A51	KRP2A51	KRP2A62	KRP2A62	KRP2A62
Adapters	External control adapter for outdoor unit (installation on indoor unit)	DTA104A61	DTA104A61	DTA104A61	DTA104A62	DTA104A62	DTA104A62
Ada	Adapter for multi-tenant applications (24VAC PCB power supply interface)	DTA114A61	DTA114A61				
	Digital input adapter (2) / (11)	BRP7A51	BRP7A51	BRP7A51	BRP7A52	BRP7A52	BRP7A52
	Installation box / Mounting plate for adapter PCBs (For units where there is no space in the switchbox)	KRP4A96	KRP4A96		KRP1D93A	KRP1D93A	
	External wired temperature sensor	KRCS01-4	KRCS01-4	KRCS01-1	KRCS01-4	KRCS01-4	KRCS01-4
	K.RSS External wireless temperature sensor	•	•	•	•	•	•
	Connector for forced-off contact	Standard	Standard	Standard	EKRORO4	EKRORO4	EKRORO4
	Multi zoning kit						
Ş.	Drain pump kit	Standard	Standard		KDU50P60	KDU50P140	KDU50P140
Others	Fresh air intake kit				KDDQ50A140	KDDQ50A140	KDDQ50A140
	Air discharge adapter for round duct	KDAJ25K71	KDAJ25K140				
	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 BYCQ140EW has white insulation. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140E decoration panel in

environments exposed to concentrations of dirt"
(4) Not recommended because of the limitation of the functions

⁽⁵⁾ To be able to control the BYCQ140DG(F)(B) the controller BRCIE is needed
(6) The BYCQ140DG(F)(B) is not compatible with Multi and Split Non-Inverter Outdoor units
(7) Option not available in combination with BYCQ140DG(F)(B)

⁽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* / BRC1E*
(12) When fixing box is required, use KJB212A, KJB311A or KJB411A depending on the size of the controller

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

⁽¹⁴⁾ Wire harnass EKEWTSC is necessary
(15) The active airflow circulation function is not available for this controller.
(16) Up to 2 adaptor PCBs can be installed per installation box
(17) Only one installation box can be installed per indoor unit

	Wall mounted units		Floor stan	iding 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
3HP49B140 + KDBTP49B140					
BRC7C58	BRC7EA628	BRC4C65	BRC4C65	BRC4C65	BRC4C65
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•
KAFP551K160					
KRP4A53 *2	KRP4AA51(2)	KRP4A54	KRP4A51	KRP4A51	KRP4A51
	KRP1B56	KRP1B56	KRP1B61	KRP1B61	KRP1B61
	VDD2A51 / VDD2A51/2\	VDD2452	VDD2451	NDD3 VE1	VDD2451
	KRP2A51 / KRP2A61(2)	KRP2A53	KRP2A51	KRP2A51	KRP2A51
	DTA104A51 / DTA104A61	DTA114 A C1	EVANTAC	EVATAC	FUALTAC
22222	DTA114A61	DTA114A61	EKMTAC	EKMTAC	EKMTAC
BRP7A53		BRP7A51	BRP7A51	BRP7A51	BRP7A51
KRP1B97	KRP4AA93(15)(16)				
KRCS01-4	KRCS01-1B	KRSC01-4	KRCS01-1	KRCS01-1	KRCS01-1
•	• (14)	•	•	•	•
EKRORO5	Standard	Standard	Standard	Standard	Standard
	K-KDU572EVE				
1	N-NDU3/ZEVE				

	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

			lecover Iodular	-				Energ	gy recla	im ven	tilation	- VAM				rgy rec tilation			andling	-
		ALB 02LBS/ RBS	ALB 03LBS/ RBS	ALB 04,05LBS/ RBS	ALB	VAM 150FC	VAM 250FC	VAM 350J	VAM 500J	VAM 650J	VAM 800J	VAM 1000J	VAM 1500J	VAM 2000J	VKM	VKM	VKM	EKEQ	EKEQ DCB (1)	
	BRC301B61																			
Individual control systems	VAM wired remote control Madoka BRC1H519W(7) (Glossy white) / BRC1H519S(7) (Silver Metallic) / BRC1H519K(7) (Black matte) User-friendly wired remote controller with premium design	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Individual c	BRC1E53A/B/C Wired remote control with full-text interface and back-light BRC1D52	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Standard wired remote control with weekly timer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	DCC601A51 intelligent Tablet Controller	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ontrol	DCM601A51 intelligent Touch Controller	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Centralised c	DCS302C51 Central remote control	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Centra	DCS301B51 Unified ON/OFF control DST301B51	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
	Schedule timer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
ystem	DCM601A51 intelligent Touch Manager	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Suilding ement Sy dard pro	EKMBDXA Modbus interface	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Buil yem yem	DMS502A51 BACnet Interface	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Building Management System & Standard protocol	DMS504B51 LonWorks Interface	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
-	Coarse 55% (G4)	ALF 02G4A	ALF 03G4A	ALF 05G4A	ALF 07G4A															
	ePM ₁₀ 75% (M5)	ALF 02M5A	ALF 03M5A	ALF 05M5A	ALF 07M5A															
	ePM ₁₀ 70% (M6)							EKAFVJ 50F6	EKAFVJ 50F6	EKAFVJ 65F6	EKAFVJ 100F6	EKAFVJ 100F6	EKAFVJ 100F6 x2	EKAFVJ 100F6 x2						
v	ePM ₁ 50% (F7)	ALF 02F7A	ALF 03F7A	ALF 05F7A	ALF 07F7A															
Filters	ePM ₁ 55% (F7)							EKAFVJ 50F7	EKAFVJ 50F7	EKAFVJ 65F7	EKAFVJ 100F7	EKAFVJ 100F7	EKAFVJ 100F7 x2	EKAFVJ 100F7x2						
	ePM, 70% (F8)							EKAFVJ 50F8	EKAFVJ 50F8	EKAFVJ 65F8	EKAFVJ 100F8	EKAFVJ 100F8		EKAFVJ 100F8 x2						
	ePM ₁ 80% (F9)	ALF 02F9A	ALF 03F9A	ALF 05F9A	ALF 07F9A															
	High efficiency filter														KAF 242H80N	KAF 1 242H100M	KAF 1242H100M	ı		
	Replacement air filter														KAF 241H80M	KAF 241H100M	KAF 241H100M			
ies —	Rail	ALA 02RLA	ALA 03RLA	ALA 05RLA	ALA 07RLA															
hani	Rectangular to round duct transition	ALA 02RCA	ALA 03RC	ALA 05RCA	ALA 07RCA															
Mechanical accessories	Separate plenum	UZNCA	USINC	USINCA	UNCA								EKPLEN 200 (6)	EKPLEN 200 (6)						
CO ₂ senso	r	BRYMA200 (preliminary)	BRYMA200 (preliminary)	BRYMA200 (preliminary)	BRYMA200 (preliminary)			BRYMA 65	BRYMA 65	BRYMA 65	BRYMA 100	BRYMA 100	BRYMA 200	BRYMA 200	BRYMA 65	BRYMA 100	BRYMA 200			
Electrical	heater	ALD 02HEFB	ALD 03HEFB	ALD 05HEFB	ALD 07HEFB	VH1B	VH2B	VH3B	VH3B	VH4B / VH4/AB	VH4B / VH4/AB	VH4B / VH4/AB	VH5B(7)	VH5B(7)						
Silencer (900mm depth)	ALS 0290A	ALS 0390A	ALS 0590A	ALS 0790A															
ries	Wiring adapter for external monitoring/ control					KRP2A51	KRP2A51	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)	KRP2A51 (2)		BRP) 4A50A (4)	BRP 4A50A (4)			
esso	(controls 1 entire system) Adapter PCB for humidifier					KRP50-2	KRP50-2	KRP1C4	KRP1C4	KRP1C4			KRP1C4	KRP1C4	BRP	BRP	BRP			
al acc	Adapter PCB for third party heater						BRP4A50	(5) 4BBBA	(5) 4BBBA	(3/5) BRP 4A50A	(5) BRP 4A50A	(5) 4BBPA	(3/5) BRP 4A50A	(3/5) BRP 4A50A	4A50A (4) BRP	4A50A (4) BRP	4A50A (4) BRP			
Electrical accessories	External wired temperature sensor							(4)	(4)	(3/4)	(4)	(4)	(3/4)	(3/4)	4A50A (4)	4A50A (4)	4A50A (4)		KRCS01-1	
Ele	Adapter PCB Mounting plate									EKMP 65VAM			ENT	PVAM						

Notes

- (1) Do not connect the system to DIII-net devices LONWorks interface, BACnet interface, ...; (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) 3rd party heater and 3rd party humidifier cannot be combined
- (5) Installation box KRP50-2A90 needed
- (6) Contains 1 plenum and can be used for half side of the unit (up to 4 plenums can be used on 1 unit)
- (7) Available only with optional plenum

S

Individual and centralised controls

	BRC1D*	BRC1E*	BRC1H*	DCS301B51	DST301B51	DCS302C51	DCS601C51
Madoka Assistant app for advanced settings			•				
Electical box KJB111A	•	•	•				
Electical box KJB212A(A) (1)	•	•		•	•		
Electical box KJB311A(A)						•	
Electical box KJB411AA							•

⁽¹⁾ recommended as wider (more stable mounting)

Intelligent Tablet Controller - DCC601A51

		Intelligent Controller			
		Options for local control	Cloud options	Software	
Wired screen for local control	AL-CCD07-VESA-1	•	-	-	
Zenpad 8" Tablet for local control	Z380M	•	-	-	
Control and monitoring package		-	•	-	
Remote support and diagnostics package		-	•	-	
Advise and optimisation package		-	•	-	
App for tablet - download for Android (Play store) only (In case of AL-CCD07-VESA-1 app is pre-installed)		-	-	•	
Commissioning tool		-	-	•	
Software update tool		-	-	•	

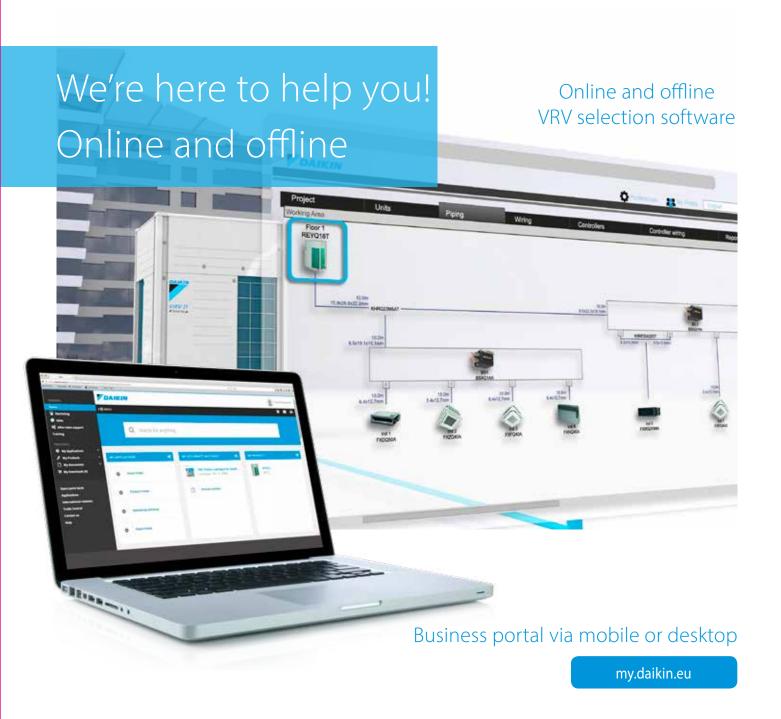
Daikin Cloud Service requires a subscription. Contact your local sales representative for more information

Intelligent Touch Manager - DCM601A51

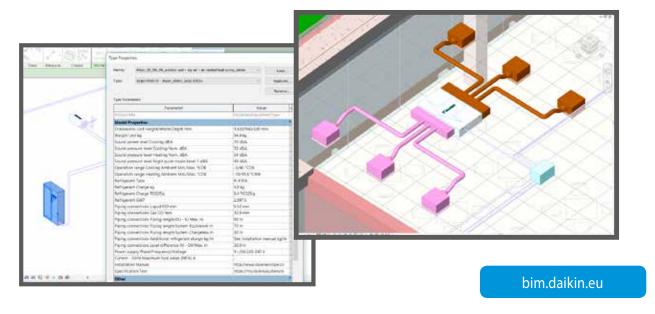
		Intelligent Manager	Cloud options
iTM plus adapter – Allows connection of an additional 64 indoor units/groups. Up to 7 adapters can be connected	DCM601A52	•	
iTM PPD software – Allows distribution of used kWh by indoor units connected to the iTM	DCM002A51	•	
iTM HTTP interface - Allows communication 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	
Control and monitoring package			•
Remote support and diagnostics package			•
Advise and optimisation package			•

Standard protocol interfaces - DMS502A51

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



Full BIM object library available



Tools and platforms

Literature overview 204
Supporting tools, software and apps 206
30 years of history 210

Reference books:



Reference catalogue Daikin commercial and industrial references

213

Product profiles:



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

208



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

207



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 140

Product flyers:



Madoka Detailed info remote control

306

RTD modbus interface Detailed info on RTD controls and applications

308

Product catalogues:



Sky Air Catalogue Detailed technical information & benefits on Sky Air 100



VRV Catalogue Detailed technical information & benefits of the VRV total 200



Ventilation Catalogue Detailed info on Ventilation products



Commercial Solutions Daikin offers solutions for commercial applications

100



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

216



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

218

Reference books:

Product profiles:



Intelligent Touch Manager Detailed benefits of Intelligent Touch Manager 302



Intelligent
Tablet
Controller
Detailed
benefits
of Intelligent
Tablet
Controller
303



Daikin Cloud Serivce Details on the Daikin Cloud connection

Focus topics:



Replacement technology Clear building owner/investor benefits of replacement technology 15-215



F-gas regulation
Details on the F-gas
regulation and how
Daikin is prepared
for the future HVAC-R
market

605

Product flyers:



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

Supporting tools, software and apps

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

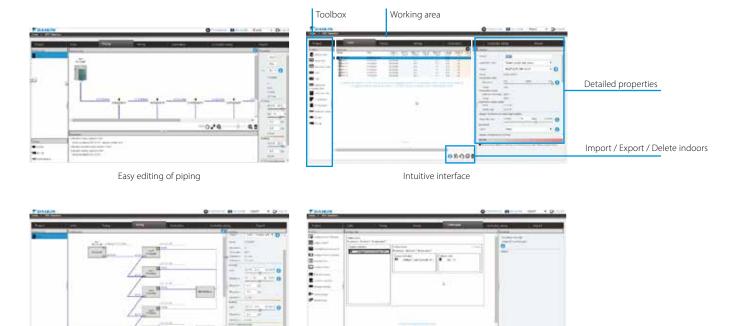
New web based Xpress selection software

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.

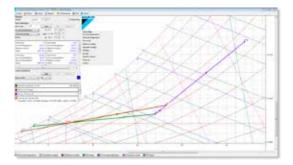
- > Accurate heat load calculation
- > Precize selection based on peak loads
- > Energy consumption indication



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

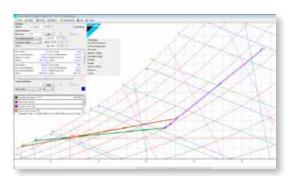
Seasonal simulator

- 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**

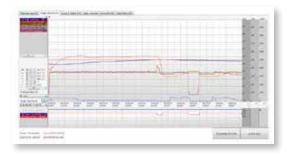
Monitoring of Split, Sky Air and VRV data via any bluetooth device

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

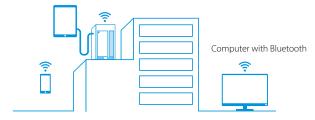
VRV Service-Checker

- 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:



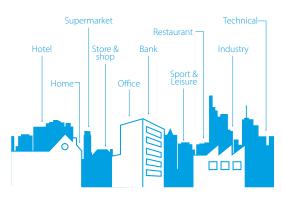
Online support

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

R-22

Introduction the original VRV air conditioning system to Europe, invented by Daikin in 1982

> Up to 6 indoor units connected to 1 outdoor unit



R-407C

1998

Launch inverter series with R-407C

 Up to 16 indoor units connected to 1 outdoor unit



2004

Expand to light commercial sector with 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



2003

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

Available in cooling, heat pump and heat recovery

 40 units connected to single refrigerant circuit



Extends VRVII inverter range with water cooled VRV-WIII

 Available in heat pump and heat recovery



2006-2007

Launch the extensively re-engineered VRVIII

- Available in cooling, heat pump and heat recovery
- Automatic charging and testing
- > Up to 64 units connected to 1 system



and heating



R-410A



2009

Extends VRVIII range with water cooled VRV-WIII

- > Geothermal version available
- > Operate down to -10C in heating mode





2011

Launch total solution concept

- > Integrate hot water production and Biddle air curtains into VRV system
- > Connectable to Daikin Emura and Nexura
- > 400,000 outdoors units sold
- > 2.2 million indoor units sold



2015

the market



Launch of VRV IV S-series

> Widest range in the market

> Most compact unit in



2018

Launch of VRV IV C+series

- > Optimised for heating in cold regions
- > With new unique Vapour injection compressor with back-pressure control



2010

Launch of replacement VRV (VRVIII-Q)

> Upgrade to replace older VRV units using R-22 refrigerant



2012-2014

Setting new standards with the launch of VRV IV

- > 28% improved seasonal efficiency
- > Continuous heating on heat pumps
- > Available in heat pump, heat recovery, water-cooled and replacement series



2015

Launch of VRV IV i-series

- > The invisible VRV
- > Unique product concept





Notes	







New round flow cassette

- > Bigger flaps and new sensor logic further improves equal air distribution in the room
- > Widest ever choice in panels for cassette units, with up to 8 different panels
- > Comes with the known benefits: 360° air flow discharge and intelligent sensors
- > Auto cleaning panels available in black and white







Black designer panel



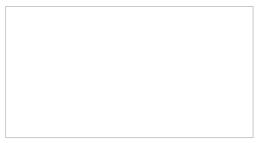
Full white standard panel





White designer panel

Daikin Europe N.V. Naamloze Vennootschap Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Publisher)





ECPEN19-200 03





Daikin Europe N.V. participates in the Eurovent Certified 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

The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V.

Printed on non-chlorinated paper.