

VRV IV

360° efficiency



VRV IV heat recovery, heat pump, replacement
and water cooled



Our new VRV IV heat recovery systems set pioneering standards in all-round climate comfort performance. Total design simplicity, offering rapid installation, full flexibility as well as absolute efficiency and comfort. Find out about all these revolutionary changes at www.daikineurope.com/vrviv

VRV IV =

3 revolutionary standards

- › Variable refrigerant temperature
- › Continuous comfort during defrost
- › VRV configurator

+ VRV IV technologies

+ Integrated climate control

+ VRV IV heat recovery technologies

3 intelligent efficiency improvements

Improved operational efficiency

- › Improved efficiency during heat recovery mode with 15%
- › Free heating or hot water by recovering heat from areas requiring cooling
- › Optimal comfort for everybody by simultaneous cooling spaces while heating others

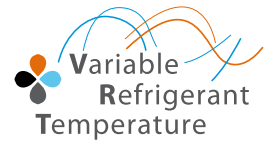
Improved design efficiency

- › Integrated climate control covering all thermal loads in the building
- › Free combination of outdoor units, single and multi BS boxes
- › Unique range of single and multi BS boxes

Improved installation efficiency

- › Fully redesigned multi BS boxes, smaller and up to 70% lighter
- › No limit on number of unused ports
- › Connect indoor units up to 28kW to a single and multi BS box

Variable refrigerant temperature



Customise your VRV for best seasonal efficiency and comfort

Thanks to its revolutionary variable refrigerant temperature technology, VRV IV continuously adjusts the refrigerant temperature to the actual temperature and capacity needed, thus providing optimal seasonal efficiency at all times.

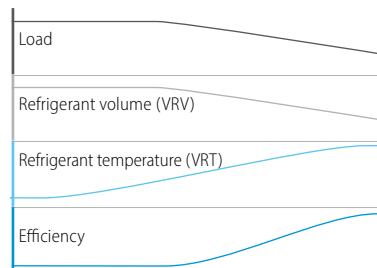
- › **Seasonal efficiency increased by 28%**
- › **Weather compensating control**
- › **Customer comfort is assured with automatic adjustment of refrigerant temperature, leading to higher outblow temperatures (and preventing cold draughts)**

Different modes

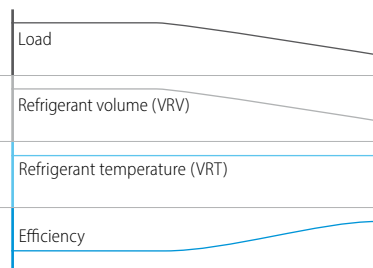
Easily customise your system using preset modes. These help you achieve the right balance between comfort and efficiency. In unique VRT automatic mode the system will aim for maximum efficiency

throughout the year and react quickly on the hottest days, ensuring comfort at all times while still resulting in **an increased seasonal efficiency up to 28%**.

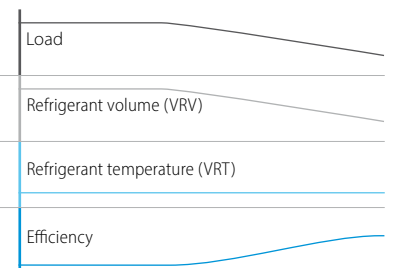
Automatic mode (Default setting on VRV IV)



High sensible mode



Basic mode (current VRF standard)



Effect of preset modes on efficiency and reaction speed

Automatic mode

Quick reaction speed

Top efficiency



The perfect balance: Achieves top efficiency throughout the year, reacts quickly on the hottest days

High sensible mode

Quick reaction speed

Top efficiency



Year round top efficiency

Basic mode

Quick reaction speed

Top efficiency



Quick reaction to peak load in order to maintain set point.



Success story

A field trial at a fashion chain store in Germany showed that the innovative VRV IV dramatically improves energy efficiency over previous models.

Live test: up to 40% less energy consumed

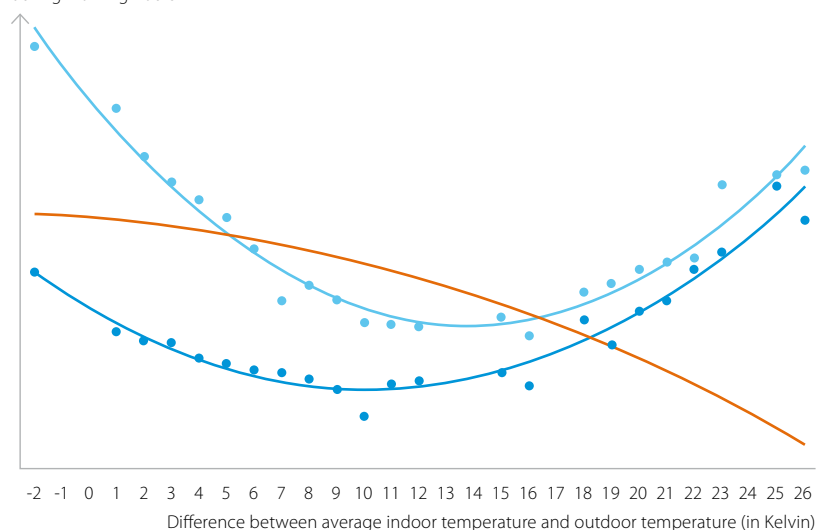
A field trial at a fashion chain store in Germany showed that the innovative VRV IV dramatically improves energy efficiency over previous models.

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

How effective is the VRV IV heat pump technology?

The trial demonstrates just that. Using a renewable energy source air – it provides a complete and environmentally sustainable solution for heating, cooling, and ventilation in commercial environments. The trial also showed that businesses can only identify and control energy wastage through careful and intelligent monitoring of climate control systems – a service which Daikin also offers.

Average energy consumption during working hours



Energy use in 2012:

VRV III single module system 20HP

• Metered energy use

— Trendline

Energy use in 2013:

VRV IV single module system 18HP

• Metered energy use

— Trendline

Savings:

— Trendline

Continuous heating

during defrost mode



Pure comfort

VRV IV continues to provide heating even during defrost mode, providing an answer to any perceived disadvantages of specifying a heat pump for monovalent heating.

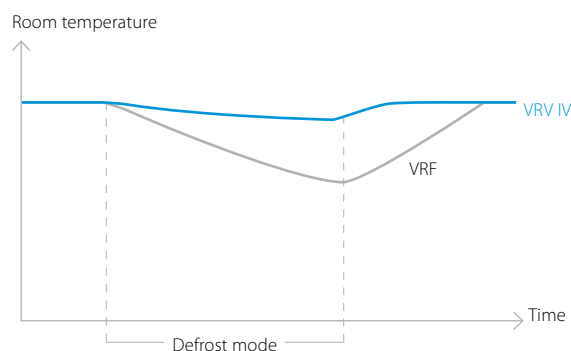
- › **Indoor comfort not affected during defrost mode**
- › **The best alternative to traditional heating systems**

Changed heating paradigm

Known for their high energy efficiency during heating, heat pumps also accumulate ice during operation. This must be melted periodically using a defrost function that reverses the refrigeration cycle. This causes a temporary drop in temperature and reduced comfort levels inside the building.

Defrosting may take longer than 10 minutes (depending on the size of the system) and occurs most frequently between -7°C and $+7^{\circ}\text{C}$ when air humidity is highest; this freezes to the coil and has a significant impact on perceived indoor comfort levels.

The VRV IV has changed the heating paradigm by providing heat even during defrost mode, thus eliminating the temperature drop inside and providing comfort at all times.





How does it work?

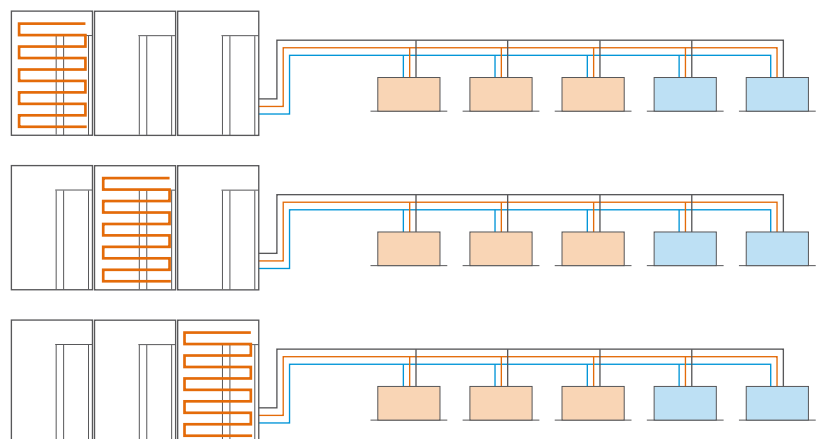
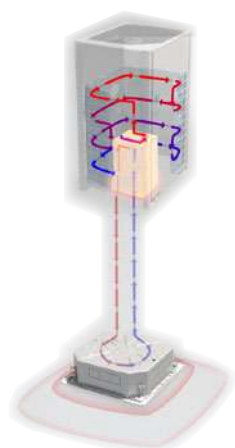
Unique heat-accumulating element

A unique heat-accumulating element made up of phase-change materials, provides the energy to defrost the outdoor unit. The energy needed for defrosting is stored in the element during normal heating operation.

The outdoor unit coil is defrosted with energy stored in the heat-accumulating element. Indoors, a comfortable temperature is maintained.

Alternate defrost

On all our multi-model combinations, only one outdoor coil is defrosted at a time, ensuring continuous comfort during the whole process.





Software for simplified
commissioning,
configuration and
customisation

VRV

configurator software

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

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 to configure the outdoor unit
- › Multiple systems at different sites can be managed in exactly the same way, providing simplified commissioning for key accounts
- › Initial settings on the outdoor unit can be easily retrieved

Simplified servicing

The user-friendly display for outdoor units simplifies basic servicing tasks.

- › Easy-to-read error report
- › Easy-to-understand menu indicates quick and easy on-site settings
- › Easy-to-follow parameters for checking basic functions: high pressure, low pressure, frequency and operation time, compressor history, temperature of discharge/suction pipe.



3-digit 7-segment display



User-friendly interface instead of push buttons



VRV IV technologies



Newly developed compressor

Full inverter

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

Reluctance brushless DC motor

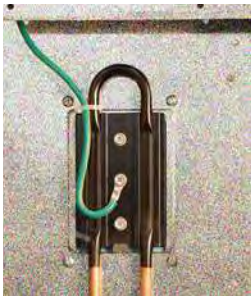
- › increased efficiency compared to AC motors by simultaneously using normal and reluctance torque
- › Powerful neodymium magnets efficiently generate high torque
- › High-pressure oil reduces thrust losses

High efficiency J-type 6-pole motor

- › 50% stronger magnetic field and higher rotation efficiency

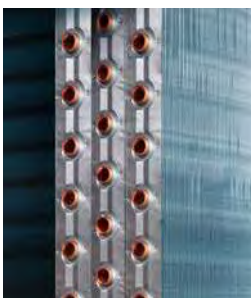
Newly developed compressor material

- › Compression volume is increased by 50% thanks to a new high-strength material cast in a semi-molten state (thixocasting process)



Gas-cooled PCB

- › Reliable cooling because it is not influenced by ambient air temperature
- › Smaller switchbox for smoother air flow through the heat exchanger



4-sided heat exchanger

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



DC fan motor

Outer rotor DC motor for higher efficiency

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

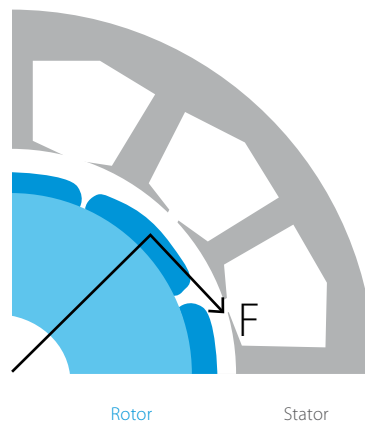
Sine wave DC inverter

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

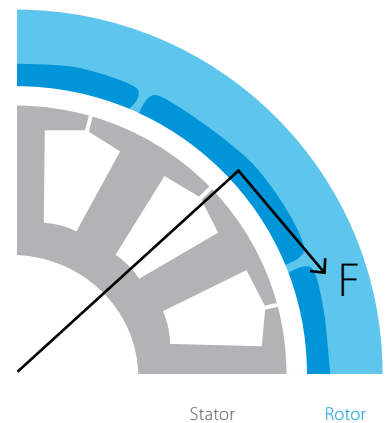
DC fan motor

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



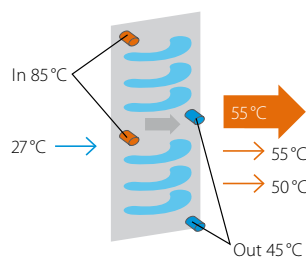
Daikin outer rotor



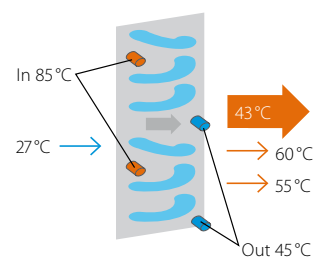
E-Pass heat exchanger

Optimization of the path layout of the heat exchanger prevents heat transferring from the overheated gas section towards the sub cooled liquid section – a more efficient use of the heat exchanger.

Standard heat exchanger



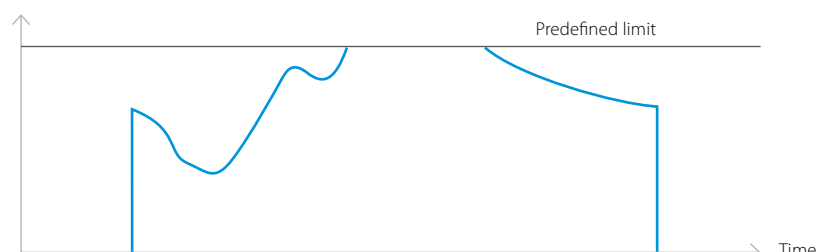
e-Pass heat exchanger



I-demand function

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

Power consumption



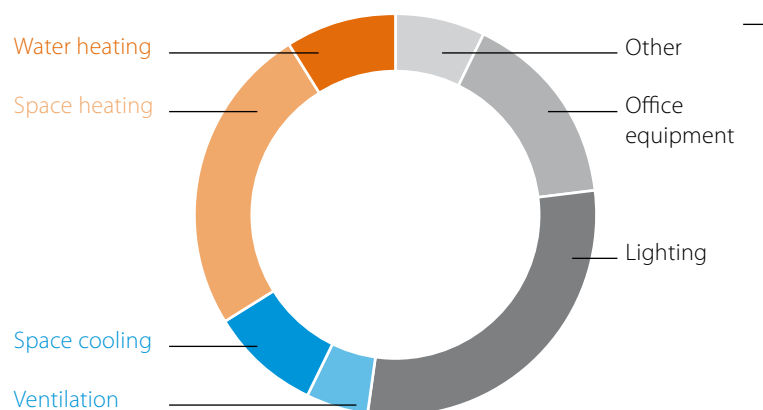
The VRV total solution



Typically, many buildings today rely on several separate systems for heating, cooling, refrigeration and hot water. As a result, a huge amount of energy is wasted. To provide a much more efficient alternative, VRV technology has been developed into a total solution managing up to 50% of a buildings energy consumption giving large potential to cost saving.

- › **Heating and cooling** for year round comfort
- › **Hot water** (high temperature applications)
- › **Underfloor heating** (low temperature application)
- › **Ventilation** for high quality environments
- › **Air curtains** for heat pump applications
- › **Controls** for maximum operating efficiency

Combine up to 50% of
your building's energy
consumption



Source: EIA; Commercial buildings energy consumption survey

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

Intelligent control systems



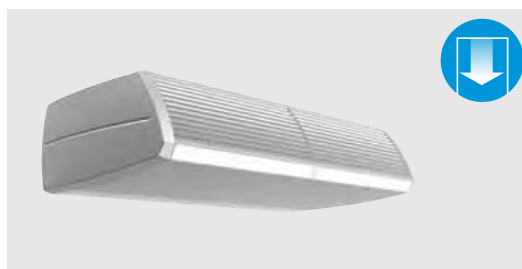
- › Mini BMS with connects Daikin and third-party equipment
- › Integrate intelligent control solutions with energy management tools to reduce running costs

Low-temperature hydrobox for highly efficient space heating throughout



- › Underfloor heating
- › Low temperature radiators
- › Heat pump convectors
- › Hot water from 25 °C to 45 °C

Biddle air curtain



- › Payback time less than 1 year compared to electrical air curtain
- › A highly efficient solution for doorway climate separation

High temperature hydrobox* for efficient hot water production



*only for connection to VRV heat recovery

- › Showers
- › Sinks
- › Tapwater for cleaning
- › Hot water from 25 °C to 80 °C

Ventilation



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

VRV IV heat recovery

Advantages through
superior technology



“Free” heat 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.

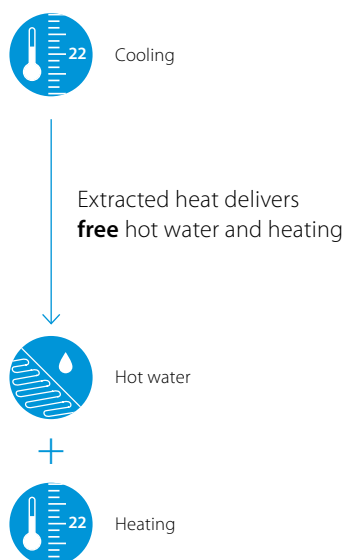
An integrated heat recovery system reuses heat from offices, server rooms, to warm other areas or create hot water.

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.

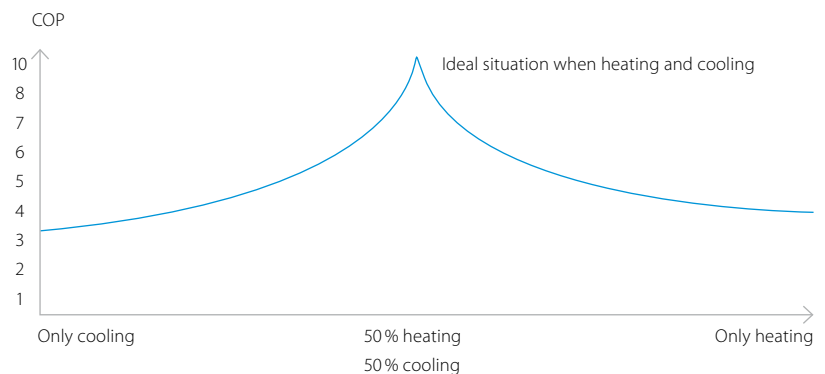




Fast design
Quick installation
More free heat
Maximum comfort

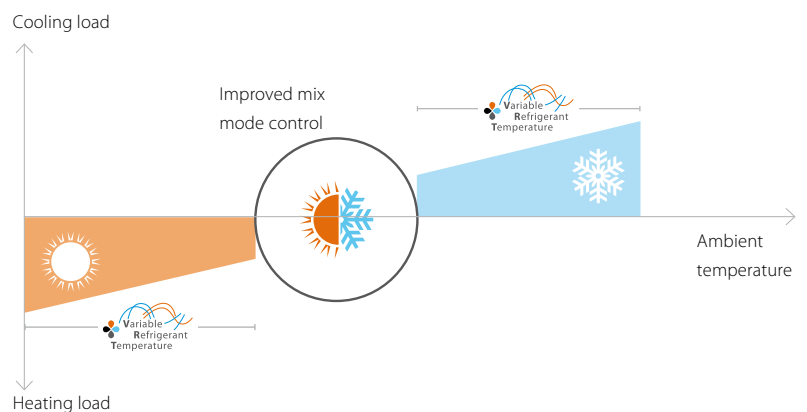
Savings in running costs and CO₂ emissions

Re-using energy gained through heat recovery can lead to a COP of up to 10, meaning for one kW of electricity you get up to 10kW of heating or cooling capacity.



Improved efficiency

In heat-recovery operation the VRV IV is up to 15% more efficient. In full-load operation the seasonal efficiency is even as much as 28% more efficient than the VRV III thanks to variable refrigerant temperature.



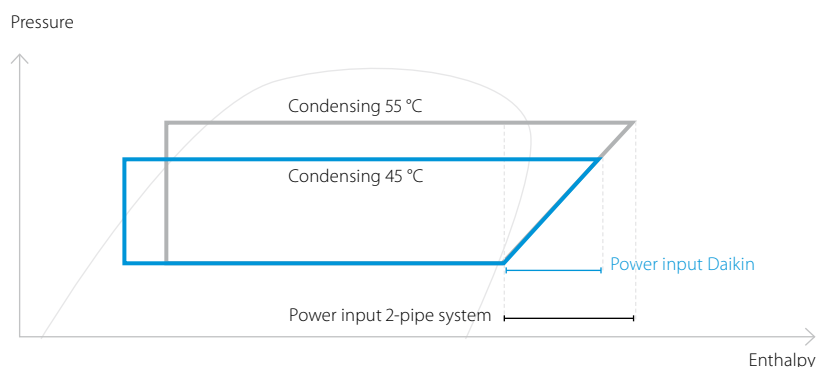


Advantages of 3-pipe technology

More “free” heat

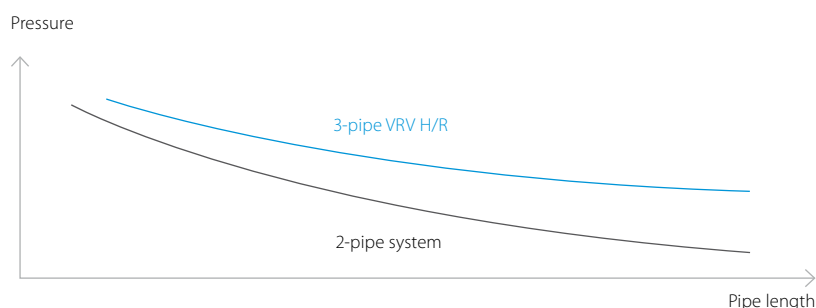
Daikin 3-pipe technology needs less energy to recover heat, meaning significantly higher efficiency during heat recovery mode. Our system can recover heat at a low condensing temperature because it has dedicated gas, liquid and discharge pipes.

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



Freely combine outdoor units

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

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.

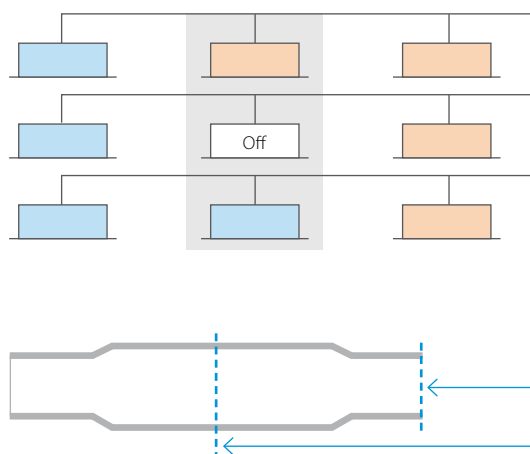
Single port

- › 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 70% smaller and 66% 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



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.

Faster installation thanks to open connection

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

What does a VRV IV installation mean to you?

See how you can profit from Daikin's highly flexible and efficient product range.



Consultants

Daikin's VRV IV technology maximises flexibility and leads the way in customisation to match individual building requirements in comfort and energy, with reduces running costs.

- › Ecological design meets and exceeds legal requirements
- › Ideal for reaching top BREEAM/EPDB levels
- › No more cold draughts with higher evaporation temperatures up to 11°C or 16°C
- › Unique specifications for monovalent heating
- › Maximum flexibility to meet customer requirements
- › Advanced software tools assist with system design

Building owners

VRV IV is the ultimate in customised comfort and intelligent control tailored to your individual needs and to maximise energy efficiency. Annual cost savings up to 28% (compared to VRV III).

- › Annual cost savings up to 28% (compared to VRV III)
- › No more cold draughts with variable refrigerant temperature
- › Single point of contact for the design and maintenance of your climate system
- › Integrated system, combining air conditioning, hot water, ventilation, etc. allows maximum heat recovery and energy efficiency
- › Multiple systems can be managed in exactly the same way for the key accounts
- › Dedicated after-sales service to ensure fast on-site support

Installers

Daikin VRV IV sets the standard with state-of-the-art technology and time-saving commissioning and servicing.

- › Simplified and time-saving commissioning with VRV configurator
- › Remote refrigerant containment check
- › Unique range of single and multi BS boxes reduce installation time
- › Wide range of outdoor units (up to 54HP both for heat pump and heat recovery)
- › One supplier = one point of contact
- › Maximum flexibility to meet customer requirements
- › Customised training to maximise expertise

VRV IV outdoor unit products overview



VRV IV



VRV IV

VRV IV heat recovery

- › Fully integrated solution with heat recovery for maximum efficiency with COPs of up to 8!
- › Covers all thermal needs of a building via 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
- › Perfect personal comfort for guests/tenants via simultaneous cooling and heating
- › Incorporates VRV IV standards and technologies such as variable refrigerant temperature and continuous heating
- › Unique range of single- and multi BS boxes

VRV IV heat pump

- › 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
- › Can be connected to stylish indoor units (Daikin Emura, Nexura)
- › Incorporates VRV IV standards and technologies such as variable refrigerant temperature and continuous heating



VRV IV Q-series



VRV IV W-series












Replacement VRV IV

- › Cost-effective and fast replacement through re-use of existing piping
- › Up to 40% more efficient than R-22 systems
- › No interruption of daily business while replacing your system
- › Replace Daikin and other manufacturers' systems safely
- › Incorporates VRV IV standards and technologies such as variable refrigerant temperature

Water cooled VRV IV

- › Reduces CO₂ emissions by using geothermal energy as an energy source
- › Geothermal mode eliminates need for an external heating or cooling source
- › 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
- › Compact and lightweight design can be stacked for maximum space saving
- › Incorporates VRV IV standards and technologies such as variable refrigerant temperature
- › Variable water flow control option increases flexibility and control

Products overview *VRV*

Type	Model	Product name	4	5	6	8	10	12	13	14	16	18	20	22	24	26	28	30	
Air cooled	VRV IV heat recovery	<ul style="list-style-type: none">› 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 through heat recovery› The perfect personal comfort for guests/tenants via simultaneous cooling and heating› Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating› Allows technical cooling› Widest range of BS boxes on the market	REYQ-T <i>VRV IV</i>					●	●	●		●	●	●	●				
	VRV IV heat pump with continuous heating	<ul style="list-style-type: none">› 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› Connectable to stylish indoor units (Daikin Emura, Nexura)› Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature and continuous heating	RYYQ-T <i>VRV IV</i>					●	●	●		●	●	●	●				
	VRV IV heat pump without continuous heating	<ul style="list-style-type: none">› Daikin's solution for comfort & low energy consumption› Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, hot water, air handling units and Biddle air curtains› Connectable to stylish indoor units (Daikin Emura, Nexura)› Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-T <i>VRV IV</i>					●	●	●		●	●	●	●				
	VRV III-S	<ul style="list-style-type: none">› Space saving solution without compromising on efficiency› For residential and light commercial applications› Space saving design› Either connect VRV of stylish indoor units (Daikin Emura, Nexura)	RXYSQ-P8V1/P8Y1 <i>VRV III-S</i>		●	●	●												
	VRV IV-S series	<ul style="list-style-type: none">› 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	<i>VRV IV S-series</i>		●	●	●	●	●	●									
	VRV IV-S series Compact	<ul style="list-style-type: none">› The most compact VRV› Compact and lightweight single fan design saves space and is easy to install› Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains› Either connect VRV of stylish indoor units (Daikin Emura, Nexura)› Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	<i>VRV IV S-series Compact</i>		●	●	●												
	VRV III heat pump, optimised for heating	<ul style="list-style-type: none">› 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 and high efficiencies at low ambient temperatures	RTSYQ-PA <i>VRV III-C</i>						●		●	●		●					
	VRV Classic	<ul style="list-style-type: none">› Classic VRV configuration› For standard cooling & heating requirements› Connectable to VRV indoor units, controls and ventilation	RXYCQ-A <i>VRV Classic</i>						●	●	●		●	●	●	●			
	Replacement VRV heat recovery	<ul style="list-style-type: none">- Quick & quality replacement for R-22 and R-407C systems- Cost-effective and fast replacement through re-use of existing piping- Up to 40% more efficient than R-22 systems- No interruption of daily business while replacing your system- Replace Daikin and other manufacturers systems safely	RQCEQ-P <i>VRV III-Q</i>							●		●		●	●	●	●	●	●
	Replacement VRV heat pump	<ul style="list-style-type: none">› Quick & quality replacement for R-22 and R-407C systems› Cost-effective and fast replacement through re-use of existing piping› Up to 80% more efficient than R-22 systems› No interruption of daily business while replacing your system› Replace Daikin and other manufacturers systems safely› Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYQ-Q-T <i>VRV IV Q-series</i>		●			●	●	●		●	●	●	●		●	●	●
Water cooled	Water cooled VRV IV	<ul style="list-style-type: none">› 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› 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› 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	RWEYQ-T <i>VRV IV W-series</i>					●	●										

















● Single unit

● Multi combination

Capacity (HP)												Description / Combination	VRV indoor units	Residential indoor units	LT Hydrobox HXY-A	HT Hydrobox HXHD-A	HRV units VAM-, VKM-	AHU connection EKEXV- + EKEQMCB	AHU connection EKEXV- + EKEQFCB	Air curtains CYV-DK-	Remarks
32	34	36	38	40	42	44	46	48	50	52	54										
												VRV IV Heat Recovery REYQ-T	○	×	○	○	○	○	×	○	› Standard total system connection ratio limit: 50 ~ 130%
													✓								
													✓		✓	✓	✓				› Max 32 indoor units, even on 16HP and larger systems › Total system connection ratio up to 200% possible
													✓		✓	✓	✓		✓		
●	●	●	●	●	●	●	●	●	●	●	●		✓				✓	✓		✓	› Dedicated systems (with only ventilation units) not allowed – a mix with standard VRV indoor units is always necessary
													✓				✓	✓		✓	
												VRV IV Heat Pump RYYQ-T / RXYQ-T	○	○	○	×	○	○	○	○	› Standard total system connection ratio limit: 50 ~ 130%
													✓								› 200% total system connection ratio possible under special circumstances
●	●	●	●	●	●	●	●	●	●	●	●		✓	✓			✓				› Only single-module systems (RYYQ 8~20 T / RXYQ 8~20 T) › Max 32 indoor units, even on 16HP, 18HP and 20HP systems
													✓		✓	✓					› Max 32 indoor units, even on 16HP and larger systems › Contact Daikin in case of multi-module systems (>20HP)
												HRV units VAM-, VKM-	✓	✓	✓		✓	✓		✓	
													✓				✓	✓		✓	
●	●	●	●	●	●	●	●	●	●	●	●							✓			
													✓				✓	✓		✓	
												VRV III-S Mini VRV RXYSQ-P8	○	○	×	×	○	○	×	○	› Standard total system connection ratio limit: 50 ~ 130%
													✓				✓	✓		✓	
														✓							› Total system connection ratio in terms of VRV indexes: 56 ~ 145%
												VRV IV-S Mini VRV	○	○	×	×	○	○	×	○	› Standard total system connection ratio limit: 50 ~ 130%
													✓				✓	✓		✓	
														✓							› Total system connection ratio in terms of VRV indexes: 56 ~ 145%
												VRV IV-S Mini VRV	○	○	×	×	○	○	×	○	› Standard total system connection ratio limit: 50 ~ 130%
													✓				✓	✓		✓	
														✓							› Total system connection ratio in terms of VRV indexes: 56 ~ 145%
												VRV III Cold Region RTSYQ-PA	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
													✓	×	×	×	✓	×	×	×	› Standard total system connection ratio limit: 50 ~ 120% › In case of using at least one FXFQ20~25 indoor units on 8HP or 10HP models, the maximum connection ratio is 100%.
													✓	×	×	×	✓	×	×	×	› Standard total system connection ratio limit: 50 ~ 130%
												VRV III-Q Replacement H/R RQCEQ-P	✓	×	×	×	✓	×	×	×	› Standard total system connection ratio limit: 50 ~ 130%
●	●	●	●	●	●								✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
													✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%
												VRV IV-W Water-cooled VRV RWEYQ-T	✓	×	×	×	✓	✓	×	✓	› Standard total system connection ratio limit: 50 ~ 130%

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

Products overview















Type	Model		Product name	
Ceiling mounted cassette	Round flow cassette	<ul style="list-style-type: none"> › 360° air discharge for optimum efficiency and comfort › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximize comfort › Flexibility to suit every room layout › Lowest installation height in the market! 	 FXFQ-A	
	Fully flat cassette	<ul style="list-style-type: none"> › Unique design in the market that integrates fully flat into the ceiling › Perfect integration in standard architectural ceiling tiles › Blend of iconic design and engineering excellence with a white or silver and white finish › 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	
	2-way blow ceiling mounted cassette	<ul style="list-style-type: none"> › 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 › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating › Optimum comfort guaranteed with automatic air flow adjustment to the required load 	FXCQ-A	
	Ceiling mounted corner cassette	<ul style="list-style-type: none"> › 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	
	Small concealed ceiling unit	<ul style="list-style-type: none"> › Designed for hotel rooms › Compact dimensions enable installation in narrow ceiling voids › Discreetly concealed in the ceiling: only the grilles are visible › Flexible installation as the air suction direction can be altered from rear to bottom suction 	FXDQ-M9	
Concealed ceiling	Slim concealed ceiling unit	<ul style="list-style-type: none"> › 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 developed for small or well-insulated rooms › Reduced energy consumption thanks to DC fan motor 	FXDQ-A	
	Concealed ceiling unit with medium ESP	<ul style="list-style-type: none"> › Optimum comfort guaranteed no matter the length of ductwork or type of grilles › Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort › Medium external static pressure up to 140Pa › Only grilles are visible › Reduced energy consumption thanks to DC fan motor › Flexible installation as the air suction direction can be altered from rear to bottom suction 	FXSQ-A	 Preliminary
	Concealed ceiling unit with high ESP	<ul style="list-style-type: none"> › 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 › Only grilles are visible › 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	<ul style="list-style-type: none"> › 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-MA	
Wall mounted	Wall mounted unit	<ul style="list-style-type: none"> › For rooms with no false ceilings nor free floor space › Flat, stylish front panel blends easily with any interior décor and is more easy to clean › Can easily be installed in both new and refurbishment projects › Small capacity unit developed for small or 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-P	
Ceiling suspended	Ceiling suspended unit	<ul style="list-style-type: none"> › For wide rooms with no false ceilings nor free floor space › Ideal for comfortable air flow in wide rooms thanks to Coanda effect › Even rooms with ceilings up to 3.8m can be heated up or cooled down 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	
	4-way blow ceiling suspended unit	<ul style="list-style-type: none"> › 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! › 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	<ul style="list-style-type: none"> › 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 › Stylish unit blends easily with any interior › Requires very little installation space › Wall mounted installation facilitates cleaning beneath the unit 	FXLQ-P	
	Concealed floor standing unit	<ul style="list-style-type: none"> › Ideal for installation in offices, hotels and residential applications › Discreetly 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	
Cooling capacity (kW) ¹				
Heating capacity (kW) ²				

Capacity class (kW)

15	20	25	32	40	50	63	71	80	100	125	140	200	250
	●	●	●	●	●	●		●	●	●			
●	●	●	●	●	●								
	●	●	●	●	●	●		●		●			
		●	●	●		●							
	●	●											
●	●	●	●	●	●	●							
●	●	●	●	●	●	●		●	●	●	●		
					●	●		●	●	●			
												●	●
●	●	●	●	●	●	●							
			●			●			●				
							●		●				
	●	●	●	●	●	●							
	●	●	●	●	●	●							
1.7	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	16.0	22.4	28.0
1.9	2.5	3.2	4.0	5.0	6.3	8.0	9.0	10.0	12.5	16.0	18.0	25.0	31.5



Stylish indoor units overview

Capacity class (kW)											Connectable outdoor unit				
Type	Model	Product name		15	20	25	35	42	50	60	71	RYYQ-T	RXYQ-T	RXYSQ-P8V1	RXYSQ-P8Y1
Ceiling mounted cassette	Round flow cassette (incl. auto-cleaning function*)	FCQG-F					●		●	●				✓	✓
	Fully flat cassette	 FFQ-C				●	●		●	●				✓	✓
Concealed ceiling	Small concealed ceiling unit	FDBQ-B				●								✓	✓
	Slim concealed ceiling unit	FDXS-F(9)				●	●		●	●				✓	✓
	Concealed ceiling unit with inverter-driven fan	FBQ-D					●		●	●				✓	✓
Wall mounted	Daikin Emura Wall mounted unit	 FTXG-LW/LS			●	●	●		●			✓	✓	✓	✓
	Wall mounted unit	CTXS-K FTXS-K		●	●	●	●	●	●			✓	✓	✓	✓
	Wall mounted unit	FTXS-G								●	●	✓	✓	✓	✓
Ceiling suspended	Ceiling suspended unit	FHQ-C					●		●	●				✓	✓
	Nexura floor standing unit	FVXG-K				●	●		●			✓	✓	✓	✓
Floor standing	Floor standing unit	FVXS-F				●	●		●			✓	✓	✓	✓
	Flexi type unit	FLXS-B(9)				●	●		●	●		✓	✓	✓	✓

* Decoration panel BYCQ140CG + BRC1E52A/B needed

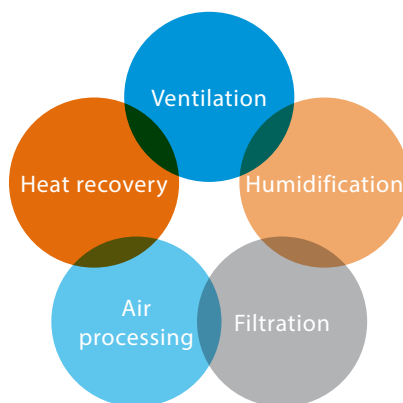


Ventilation range





overview

Five components of indoor air quality

- › **Ventilation:** ensures the provision of fresh air
- › **Heat recovery:** recovers heat and moisture from the outgoing air to maximise comfort and efficiency
- › **Air processing:** heats or cools incoming fresh air maximising comfort and minimizing the load on the air conditioning installation
- › **Humidification:** optimises the balance between indoor and outdoor humidity
- › **Filtration:** removes dust, pollution and odours from the air



Air flow rate (m³/h)*

Type	Product name		0	200	400	600	800	1,000	2,000	4,000	6,000	8,000	140,000	Components of indoor air quality
Heat reclaim ventilation	VAM-FA/FB													› Ventilation › Heat recovery
	VKM-GB													› Ventilation › Heat recovery › Air processing
	VKM-GBM													› Ventilation › Heat recovery › Air processing › Humidification
Air handling units	DX total fresh air package												**	› Ventilation › Heat recovery › Air processing › Humidification › Filtration

* Air flow rate is a calculated indication only, based on the following values: heating capacity EKEXV-kit * 200m³/h

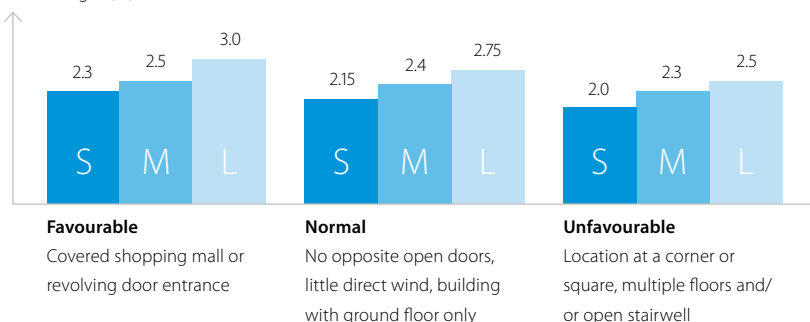
** Daikin AHU connected to Daikin chiller solution

Overview additional options

Biddle air curtain range



Type	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

Door height (m)



Hydrobox range

Capacity class (kW)

Type	Product name		80	125	Leaving water temperature range
Low temperature hydrobox	HXY-A		●	●	5 °C - 45 °C
High temperature hydrobox	HXHD-A			●	25 °C - 80 °C



Network solutions

Type		ITC	ITM	DMS-IF	BACNET
Screen	Layout screen		●		
	Touch screen	●	●		
Integration	Mini BMS for heating, air conditioning applied systems and refrigeration units (BACnet and WAGO)		●		
	3rd party equipment integration (BACnet and WAGO)		●		
Control	Basic control functions: on/off, temp, setting, air flow settings	●	●	●	●
	Refrigerant containment check		●		
	Temperature limitation	●	●		
	Setback		●		
	Automatic changeover	●	●		
	Weekly schedule and special day pattern	●	●		
	Timer extension		●		
	Forced off	●	●	●	●
Monitoring	Basic control functions: ON/OFF status, operation mode, set point temp.	●	●	●	●
	Filter status	●	●	●	●
	Malfunction code	●	●	●	●
	History (operation, malfunction...)	●	●		
Options	Visualisation	●	●		
	PPD	●	●		●
	Web access and control	●	Std		
Other	HTTP option	●			
	Interlock	●	●		
	Pre-cool/heat		●		
	Sliding temperature		●		
	Free cooling	●	●		
	ACNSS connection Air Conditionning Network Service System	●	●	●	●
	Maximum indoor unit groups	64	2560	64	4x64



In 2015 our successful Mini VRV range gets a thorough update to make it even better suited for light commercial applications where space is limited and performance expectations are high.

- › Variable Refrigerant Temperature
- › Connect a wide range of up to 9 indoor units: either connect VRV or stylish indoor units (Daikin Emura, Nexura, ...)
- › All indoor units can be individually controlled
- › Connects to all VRV control, ventilation, air handling units and Biddle air curtains
- › Space saving design
- › More flexibility through extension of the range

VRV IV
S series



- › The most compact VRV
- › Low height resulting in minimum visual impact
- › Lightweight reduces installation time and manpower to an absolute minimum
- › Available in single phase



- › Available in single phase and three phase
- › Extended range with 8, 10 and 12 HP unit for bigger applications with space limitations (expected end of 2015)

VRV IV heat recovery

Outdoor system				REYQ	8T	10T	12T	14T	16T	18T	20T
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Nom.			kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
Heating capacity	Nom./Max.			kW	22.4/25.0	28.0/31.5	33.5/37.5	40.0/45.0	45.0/50.0	50.4/56.5	56.0/63.0
Power input - 50Hz	Cooling	Nom.		kW	5.31	7.15	9.23	10.7	12.8	15.2	18.6
	Heating	Nom./Max.		kW	4.75/5.51	6.29/7.38	8.05/9.43	9.60/11.3	11.2/12.9	12.3/14.3	14.9/17.5
EER					4.22	3.92	3.63	3.74	3.52	3.32	3.01
COP - Max.					4.54	4.27	3.98		3.88	3.95	3.60
COP - Nom.					4.72	4.45	4.16	4.17	4.02	4.10	3.76
ESEER - Automatic					7.41	7.37	6.84	7.05	6.63	6.26	5.68
ESEER - Standard					6.25	5.78	5.36	5.45	5.14	4.84	4.39
Maximum number of connectable indoor units					64						
Indoor index connection	Min./Nom./Max.				100/200/260	125/250/325	150/300/390	175/350/455	200/400/520	225/450/585	250/500/650
Dimensions	Unit	HeightxWidthxDepth		mm	1,685x930x765						
Weight	Unit			kg	210	218		304	305	337	
Fan	Air flow rate	Cooling	Nom.	m³/min	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dBA	58			61	64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0						
	Heating	Min.~Max.		°CWB	-20~15.5						
Refrigerant	Type				R-410A						
Piping connections	Liquid	OD		mm	9.52		12.7			15.9	
	Gas	OD		mm	19.1	22.2	28.6				
	Discharge gas	OD		mm	15.9	19.1		22.2			28.6
	Total piping length	System	Actual	m	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	40			50

Outdoor system				REYQ	10T	13T	16T	18T	20T	22T	24T	26T	28T	30T	32T		
System	Outdoor unit module 1				REMQ5T		REYQ8T		REYQ10T		REYQ8T	REYQ12T		REYQ16T			
	Outdoor unit module 2				REMQ5T	REYQ8T		REYQ10T		REYQ12T		REYQ16T	REYQ14T	REYQ16T	REYQ18T	REYQ16T	
Capacity range				HP	10	13	16	18	20	22	24	26	28	30	32		
Cooling capacity	Nom.			kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5	83.9	90.0		
Heating capacity	Nom./Max.			kW	28.0/32.0	36.4/41.0	44.8/50.0	50.4/56.5	55.9/62.5	61.5/69.0	67.4/75.0	73.5/82.5	78.5/87.5	83.9/94.0	90.0/100.0		
Power input - 50Hz	Cooling	Nom.		kW	6.34	8.48	10.62	12.46	14.54	16.38	18.11	19.93	22.03	24.43	25.6		
	Heating	Nom./Max.		kW	5.42/6.50	7.46/8.76	9.50/11.02	11.04/12.89	12.80/14.94	14.34/16.81	15.95/18.41	17.65/20.73	19.25/22.33	20.35/23.73	22.4/25.8		
EER					4.42	4.29	4.22	4.04	3.84	3.75	3.72	3.69	3.56	3.43	3.52		
COP - Max.					4.92	4.68	4.54	4.38	4.18	4.10	4.07	3.98	3.92	3.96	3.88		
COP - Nom.					5.17	4.88	4.72	4.57	4.37	4.29	4.23	4.16	4.08	4.12	4.02		
ESEER - Automatic					7.77	7.54	7.41	7.38	7.06	7.07	6.87	6.95	6.72	6.48	6.63		
ESEER - Standard					6.55	6.36	6.25	5.98	5.68	5.54	5.46	5.41	5.23	5.03	5.14		
Maximum number of connectable indoor units					64												
Indoor index connection	Min./Nom./Max.				125/250/325	162.5/325/422.5	200/400/520	225/450/585	250/500/650	275/550/715	300/600/780	325/650/845	350/700/910	375/750/975	400/800/1,040		
Piping connections	Liquid	OD		mm	9.52	12.7		15.9				19.1					
	Gas	OD		mm	22.2	28.6										34.9	
	Discharge gas	OD		mm	19.1		22.2			28.6							
	Total piping length	System	Actual	m	500					1,000							
Current - 50Hz	Maximum fuse amps (MFA)			A	40					50	63				80		
Continuous heating					v												

Outdoor system				REYQ	34T	36T	38T	40T	42T	44T	46T	48T	50T	52T	54T
System	Outdoor unit module 1				REYQ16T		REYQ8T	REYQ10T		REYQ12T	REYQ14T	REYQ16T		REYQ18T	
	Outdoor unit module 2				REYQ18T	REYQ20T	REYQ12T	REYQ12T	REYQ16T				REYQ18T		
	Outdoor unit module 3				-	-	REYQ18T	REYQ18T	REYQ16T				REYQ18T		
Capacity range				HP	34	36	38	40	42	44	46	48	50	52	54
Cooling capacity	Nom.			kW	95.4	101.0	106.3	111.9	118.0	123.5	130.0	135.0	140.4	145.8	151.2
Heating capacity	Nom./Max.			kW	95.4/106.5	101.0/113.0	106.3/119.0	111.9/125.5	118.0/131.5	123.5/137.5	130.0/145.0	135.0/150.0	140.4/156.5	145.8/163.0	151.2/169.5
Power input - 50Hz	Cooling	Nom.		kW	28.0	31.4	29.74	31.58	32.75	34.83	36.3	38.4	40.8	43.2	45.6
	Heating	Nom./Max.		kW	23.5/27.2	26.1/30.4	25.10/29.24	26.64/31.11	28.69/33.18	30.45/35.23	32.00/37.1	33.6/38.7	34.7/40.1	35.8/41.5	36.9/42.9
EER					3.41	3.22	3.57	3.54	3.60	3.55	3.58	3.52	3.44	3.38	3.32
COP - Max.					3.92	3.72	4.07	4.03	3.96	3.90	3.91	3.88	3.90	3.93	3.95
COP - Nom.					4.06	3.87	4.24	4.20	4.11	4.06		4.02	4.05	4.07	4.10
ESEER - Automatic					6.43	6.06	6.66	6.68	6.79	6.68	6.75	6.63	6.49	6.37	6.26
ESEER - Standard					4.97	4.70	5.25	5.20	5.28	5.20	5.23	5.14	5.03	4.93	4.84
Maximum number of connectable indoor units					64										
Indoor index connection	Min./Nom./Max.				425/850/1,105	450/900/1,170	475/950/1,235	500/1,000/1,300	525/1,050/1,365	550/1,100/1,430	575/1,150/1,495	600/1,200/1,560	625/1,250/1,625	650/1,300/1,690	675/1,350/1,755
Piping connections	Liquid	OD		mm	19.1										
	Gas	OD		mm	34.9	41.3									
	Discharge gas	OD		mm	28.6	28.6	34.9								
	Total piping length	System	Actual	m	1,000										
Current - 50Hz	Maximum fuse amps (MFA)			A	80			100			125				
Continuous heating					v										

Outdoor unit module				REMQ	5T
Dimensions	Unit	Height/Width/Depth		mm	1,685/930/765
Weight	Unit			kg	210
Fan	Air flow rate	Cooling	Nom.	m³/min	162
Sound power level	Cooling	Nom.		dBA	77
Sound pressure level	Cooling	Nom.		dBA	56
Operation range	Cooling	Min.~Max.		°CDB	-5.0~43.0
	Heating	Min.~Max.		°CWB	-20~15.5
Refrigerant		Type			R-410A
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20

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

VRV IV heat pump with/without continuous heating and Replacement VRV IV heat pump

Outdoor unit				RYYQ/RXYQ/RXYQQ	8T	10T	12T	14T	16T	18T	20T
Capacity range				HP	8	10	12	14	16	18	20
Cooling capacity	Nom.			kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0
Heating capacity	Nom./Max.			kW	22.4/25.0	28.0/31.5	33.5/37.5	40.0/45.0	45.0/50.0	50.0/56.0	56.0/63.0
Power input - 50Hz	Cooling	Nom.		kW	5.21	7.29	8.98	11.0	13.0	14.7	18.5
	Heating	Nom./Max.		kW	4.75/5.51	6.29/7.38	7.77/9.10	9.52/11.2	11.1/12.8	12.4/14.4	14.5/17.0
EER					4.30	3.84	3.73	3.64	3.46	3.40	3.03
ESEER					6.37(1)/7.53(2)	5.67(1)/7.20(2)	5.50(1)/6.96(2)	5.31(1)/6.83(2)	5.05(1)/6.50(2)	4.97(1)/6.38(2)	4.42(1)/5.67(2)
COP					4.72/4.54	4.45/4.27	4.31/4.12	4.20/4.02	4.05/3.91	4.03/3.89	3.86/3.71
Maximum number of connectable indoor units					64(3)						
Indoor index connection	Min./Nom./Max.				100/200/260	125/250/325	150/300/390	175/350/455	200/400/520	225/450/585	250/500/650
Dimensions	Unit	HeightxWidthxDepth	mm	1,685x930x765							
Weight	Unit			kg	261	268	364			398	
Fan	Air flow rate	Cooling	Nom.	m³/min	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	78	79	81		86		88
Sound pressure level	Cooling	Nom.		dBA	58		61	64		65	66
Operation range	Cooling	Min.~Max.		°CDB	-5~43						
	Heating	Min.~Max.		°CWB	-20~15.5						
Refrigerant	Type				R-410A						
Piping connections	Liquid	OD	mm	9.52			12.7			15.9	
	Gas	OD	mm	19.1	22.2	28.6					
	Total piping length	System	Actual	m	1,000						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	40			50

Outdoor system				RYYQ/RXYQ/RXYQQ	22T	24T	26T	28T	30T	32T	34T	36T
System	Outdoor unit module 1				10	8	12			16		
	Outdoor unit module 2				12	16	14	16	18	16	18	20
Capacity range				HP	22	24	26	28	30	32	34	36
Cooling capacity	Nom.			kW	61.5	67.4	73.5	78.5	83.5	90.0	95.0	101.0
Heating capacity	Nom./Max.			kW	61.5/69.0	67.4/75.0	73.5/82.5	78.5/87.5	83.5/93.5	90.0/100.0	95.0/106.0	101.0/113.0
Power input - 50Hz	Cooling	Nom.		kW	16.27	18.2	20.0	22.0	23.7	26.0	27.7	31.5
	Heating	Nom./Max.		kW	14.06/16.48	15.85/18.31	17.29/20.30	18.87/21.90	20.17/23.50	22.2/25.6	23.5/27.2	25.6/29.8
EER					3.77	3.70	3.68	3.57	3.52	3.46	3.43	3.21
ESEER					5.58(1)/7.07(2)	5.42(1)/6.81(2)	5.39(1)/6.89(2)	5.23(1)/6.69(2)	5.17(1)/6.60(2)	5.05(1)/6.50(2)	5.01(1)/6.44(2)	4.68(1)/6.02(2)
COP					4.37 / 4.19	4.25 / 4.10	4.25 / 4.06	4.16 / 4.00	4.14 / 3.98	4.05 / 3.91	4.04 / 3.90	3.95 / 3.79
Maximum number of connectable indoor units					64(3)							
Indoor index	Min.				275	300	325	350	375	400	425	450
connection	Nom.				550	600	650	700	750	800	850	900
	Max.				715	780	845	910	975	1,040	1,105	1,170
Piping connections	Liquid	OD		mm	15.9			19.1				
	Gas	OD		mm	28.6	34.9						41.3
	Total piping length			System	Actual	1,000						
Current - 50Hz	Maximum fuse amps (MFA)			A	63				80			

Outdoor system				RYYQ/RXYQ/RXYQQ	38T	40T	42T	44T	46T	48T	50T	52T	54T	
System	Outdoor unit module 1				8	10	10	12	14	16			18	
	Outdoor unit module 2				10	12	16				18			
	Outdoor unit module 3				20	18	16				18			
Capacity range	HP				38	40	42	44	46	48	50	52	54	
Cooling capacity	Nom.				kW	106.0	111.5	118.0	123.5	130.0	135.0	140.0	145.0	150.0
Heating capacity	Nom./Max.				kW	106.4/119.5	111.5/125.0	118.0/131.5	123.5/137.5	130.0/145.0	135.0/150.0	140.0/156.0	145.0/162.0	150.0/168.0
Power input - 50Hz	Cooling	Nom.			kW	31.0		33.3	35.0	37.0	39.0	40.7	42.4	44.1
	Heating	Nom./Max.			kW	25.54/29.89	26.46/30.88	28.49/32.98	29.97/34.70	31.72/36.8	33.3/38.4	34.6/40.0	35.9/41.6	37.2/43.2
EER						3.42	3.61	3.54		3.51	3.46	3.44	3.42	3.40
ESEER						5.03(1)/6.36(2)	5.29(1)/6.74(2)	5.19(1)/6.65(2)	5.17(1)/6.62(2)	5.13(1)/6.60(2)	5.05(1)/6.50(2)	5.02(1)/6.46(2)	4.99(1)/6.42(2)	4.97(1)/6.38(2)
COP						4.17 / 4.00	4.21 / 4.05	4.14 / 3.99	4.12 / 3.96	4.10 / 3.94	4.05 / 3.91	4.05 / 3.90	4.04 / 3.89	4.03 / 3.89
Maximum number of connectable indoor units					64(3)									
Indoor index connection	Min.				475	500	525	550	575	600	625	650	675	
	Nom.				950	1,000	1,050	1,100	1,150	1,200	1,250	1,300	1,350	
	Max.				1,235	1,300	1,365	1,430	1,495	1,560	1,625	1,690	1,755	
Piping connections	Liquid	OD			mm	19.1								
	Gas	OD			mm	41.3								
	Total piping length		System	Actual	m	1,000								
Current - 50Hz	Maximum fuse amps (MFA)				A	100					125			

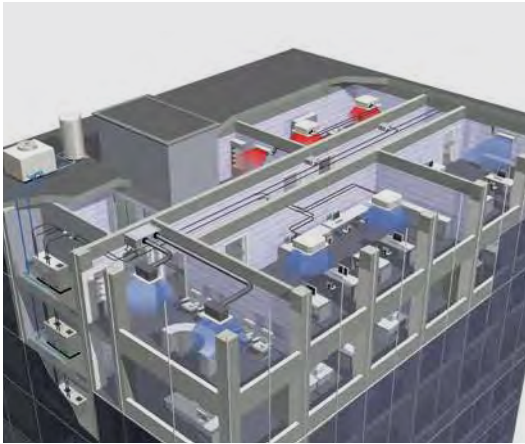
Outdoor unit module				RYMQ	8T	10T	12T	14T	16T	18T	20T
Dimensions	Unit	Height/Width/Depth		mm	1,685/930/765				1,685/1,240/765		
Weight	Unit			kg	188	195		309		319	
Fan	Air flow rate	Cooling	Nom.	m³/min	162	175	185	223	260	251	261
Sound power level	Cooling	Nom.		dBA	78	79		81	86		88
Sound pressure level	Cooling	Nom.		dBA	58			61	64	65	66
Operation range	Cooling	Min.~Max.		°CDB	-5~43						
	Heating	Min.~Max.		°CWB	-20~15.5						
Refrigerant	Type				R-410A						
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415						
Current - 50Hz	Maximum fuse amps (MFA)			A	20	25	32	40		50	

(1) The STANDARD ESEER value corresponds with normal VRV IV heat pump operation, not taking into account advanced energy saving operation functionality

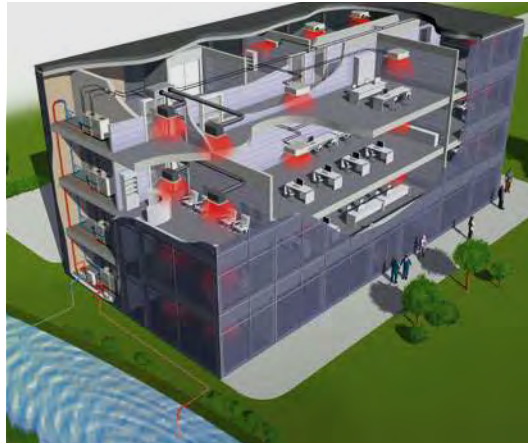
(2) The AUTOMATIC ESEER corresponds with normal VRV IV heat pump operation, taking into account the advanced energy saving functionality (variable refrigerant temperature)

(3) Actual number of 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%)

VRV IV water cooled series



Standard operation



Geothermal operation

Outdoor unit				RWEYQ	8T	10T	16T	18T	20T	24T	26T	28T	30T
System	Outdoor unit module 1			RWEYQ8T	RWEYQ10T	RWEYQ8T		RWEYQ10T	RWEYQ8T			RWEYQ10T	
	Outdoor unit module 2			-		RWEYQ8T	RWEYQ10T		RWEYQ8T			RWEYQ10T	
	Outdoor unit module 3			-					RWEYQ8T	RWEYQ10T			
Capacity range			HP	8	10	16	18	20	24	26	28	30	
Cooling capacity	Nom.		kW	22.4	28.0	44.8	50.4	56.0	67.2	72.8	78.4	84.0	
Heating capacity	Nom.		kW	25.0	31.5	50.0	56.5	63.0	75.0	81.5	88.0	94.5	
Power input - 50Hz	Cooling	Nom.	kW	4.42	6.14	8.8	10.6	12.3	13.3	15.0	16.7	18.4	
	Heating	Nom.	kW	4.21	6.00	8.4	10.2	12.0	12.6	14.4	16.2	18.0	
EER				5.07	4.56	5.07	4.77	4.56	5.07	4.86	4.69	4.56	
COP				5.94	5.25	5.94	5.53	5.25	5.94	5.65	5.43	5.25	
Maximum number of connectable indoor units				36									
Indoor index connection	Min.			100	125	200	225	250	300	325	350	375	
	Nom.			200	250	400	450	500	600	650	700	750	
	Max.			260	325	520	585	650	780	845	910	975	
Dimensions	Unit	HeightxWidthxDepth		mm	1,000x780x550			-					
Weight	Unit			kg	137			-					
Fan	Air flow rate	Cooling	Nom.	m³/min	-								
Sound power level	Cooling	Nom.		dBA	-								
Sound pressure level	Cooling	Nom.		dBA	50	51	53	54	55			56	
Operation range	Inlet water temperature	Cooling	Min.~Max.	°CDB	10~45								
		Heating	Min.~Max.	°CWB	-10~45								
Refrigerant	Type				R-410A								
Piping connections	Liquid	OD		mm	9.52		12.7	15.9			19.1		
	Gas	OD		mm	19.10 (1)	22.2 (1)	28.6 (1)			34.9 (1)			
	Discharge gas	OD		mm	15.9 (2) / 19.10 (3)	19.1 (2) / 22.10 (3)	22.2 (2) / 28.60 (3)			28.6 (2) / 34.90 (3)			
	Water	Inlet/Outlet			PT1 1/4B internal thread/PT1 1/4B internal thread								
	Total piping length	System	Actual	m	300								
Power supply	Phase/Frequency/Voltage			Hz/V	3N~/50/380-415								
Current - 50Hz	Maximum fuse amps (MFA)			A	20		32			50			

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

BS1Q-A Individual branch selector – VRV IV heat recovery

Indoor unit				BS	1Q10A	1Q16A	1Q25A
Power input	Cooling	Nom.		kW		0.005	
	Heating	Nom.		kW		0.005	
Maximum number of connectable indoor units					5	8	
Maximum capacity index of connectable indoor units					15 < x ≤ 100	100<x≤160	160<x≤250
Dimensions	Unit	HeightxWidthxDepth		mm	207x388x326		
Weight	Unit			kg	12	15	
Casing	Material				Galvanised steel plate		
Piping connections	Outdoor unit	Liquid	Type/OD	mm	Braze connection/9.5		
		Gas	Type/OD	mm	Braze connection/15.9		Braze connection/22.2
		Discharge gas	Type/OD	mm	Braze connection/12.7		Braze connection/19.1
	Indoor unit	Liquid	Type/OD	mm	Braze connection/9.5		
		Gas	Type/OD	mm	Braze connection/15.9		Braze connection/22.2
		Sound absorbing thermal insulation				Foamed polyurethane Flame-resistant needle felt	
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240			
Total circuit	Maximum fuse amps (MFA)		A	15			

BS-Q14A Multi branch selector – VRV IV heat recovery

Indoor unit				BS	4Q14A	6Q14A	8Q14A	10Q14A	12Q14A	16Q14A
Power input	Cooling	Nom.		kW	0.043	0.064	0.086	0.107	0.129	0.172
	Heating	Nom.		kW	0.043	0.064	0.086	0.107	0.129	0.172
Maximum number of connectable indoor units					20	30	40	50	60	64
Maximum number of connectable indoor units per branch					5					
Number of branches					4	6	8	10	12	16
Maximum capacity index of connectable indoor units					400	600	750			
Maximum capacity index of connectable indoor units per branch					140					
Dimensions	Unit	HeightxWidthxDepth		mm	298x370x430	298x580x430		298x820x430		298x1,060x430
Weight	Unit			kg	17	24	26	35	38	50
Casing	Material				Galvanised steel plate					
Piping connections	Outdoor unit	Liquid	OD	mm	9.5	12.7	12.7 / 15.9	15.9	15.9 / 19.1	19.1
		Gas	OD	mm	22.2 / 19.1	28.6 / 22.2	28.6	28.6 / 34.9		34.9
		Discharge gas	OD	mm	19.1 / 15.9	19.1 / 22.2	19.1 / 22.2 / 28.6	28.6		
	Indoor unit	Liquid	OD	mm	9.5 / 6.4					
		Gas	OD	mm	15.9 / 12.7					
	Drain				VP20 (I.D. 20/O.D. 26)					
Sound absorbing thermal insulation					Urethane foam, polyethylene foam					
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-440					
Total circuit	Maximum fuse amps (MFA)			A	15					

BSVQ-P9B Individual branch selector – Water cooled VRV IV heat recovery

Indoor unit				BSVQ	100P9B	160P9B	250P9B
Power input	Cooling	Nom.		kW		0.005	
	Heating	Nom.		kW		0.005	
Maximum number of connectable indoor units					6	8	
Maximum capacity index of connectable indoor units					15 < x ≤ 100	100<x≤160	160<x≤250
Dimensions	Unit	HeightxWidthxDepth		mm	207x388x326		
Weight	Unit			kg	12	15	
Casing	Material				Galvanised steel plate		
Piping connections	Outdoor unit	Liquid	Type/OD	mm	Brazing connection/9.5		
		Gas	Type/OD	mm	Brazing connection/15.9		
		Discharge gas	Type/OD	mm	Brazing connection/12.7		Brazing connection/22.2
	Indoor unit	Liquid	Type/OD	mm	Brazing connection/12.7		Brazing connection/19.1
		Gas	Type/OD	mm	Brazing connection/9.5		
					Brazing connection/15.9	Brazing connection/15.9	Brazing connection/22.2
Sound absorbing thermal insulation					Foamed polyurethane Flame-resistant needle felt		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Total circuit	Maximum fuse amps (MFA)			A	15		

BSV4Q-PV/BSV6Q-PV Multi branch selector – Water cooled VRV IV heat recovery

Indoor unit				BSV4Q-PV/BSV6Q-PV	4Q100PV	6Q100PV
Power input	Cooling	Nom.	kW	0.020	0.030	
	Heating	Nom.	kW	0.020	0.030	
Maximum number of connectable indoor units				24	36	
Maximum number of connectable indoor units per branch				6		
Number of branches				4	6	
Maximum capacity index of connectable indoor units				400	600	
Maximum capacity index of connectable indoor units per branch				100		
Dimensions	Unit	HeightxWidthxDepth	mm	209x1,053x635	209x1,577x635	
Weight	Unit		kg	60	89	
Casing	Material	Galvanised steel plate				
Piping connections	Outdoor unit	Liquid	Type/OD	mm	Brazing connection/12.7	Brazing connection/15.9
		Gas	Type/OD	mm	Brazing connection/28.6	
		Discharge gas	Type/OD	mm	Brazing connection/19.1	Brazing connection/28.6
	Indoor unit	Liquid	Type/OD	mm	Brazing connection/9.5	
		Gas	Type/OD	mm	Brazing connection/15.9	
		Foamed polyurethane Flame-resistant needle felt				
Sound absorbing thermal insulation						
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240	
Total circuit	Maximum fuse amps (MFA)			A	15	

VRV IV Heat Recovery

360° efficiency

installation
efficiency

design
efficiency

operational
efficiency



FAST
design

+

QUICK
installation

+

MORE
free heat

+

MAX
comfort

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