

VRV III-S

High tech, energy saving air conditioners

Ensuring comfort in light commercial applications **R-410A**



Daikin Airconditioning UK Ltd

Daikin has a worldwide reputation based on over 70 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.

Environmental Awareness

In all of us,
a green heart



Air conditioning and the environment

Air conditioning systems bring a significant level of indoor comfort to our working and living conditions regardless of outdoor temperature. With the advent of climate change and increasing global awareness of the need to reduce the burdens on the environment, Daikin has invested heavily in developing increasingly efficient systems. Daikin's highly successful technological results are incorporated in the latest heating and cooling systems designed specifically, in all aspects, to limit their impact on our environment.

Enhanced Capital Allowances

The Enhanced Capital Allowance scheme (ECA) was introduced to encourage firms to make energy saving investments in efficient technology. Under this scheme, expenditure on technologies and products on the Energy Technology List (ETL) can qualify for 100% first year tax allowances.

The ETL is dynamic, with new products and technologies being added as and when they are approved. Daikin now have over 300 products listed under 3 technology categories. Extensive listings of all qualifying products can be found on www.eca.gov.uk/etl.

Investments in heat pumps and packaged chillers can only qualify for ECAs if the unit or system is named on the ETL. Eligible products are required to meet performance criteria for both heating and cooling.

The qualifying criteria for heat pump systems, including VRV, is that the minimum energy efficiency meets COP greater than 3.4 and EER greater than 3.0 (Energy Label B). As you will see in this brochure, Daikin VRV exceeds these criteria.

Part L of the Building Regulations

As part of the European Community's aim to reduce Global Warming emissions a directive known as Energy Performance in Buildings Directive (EPBD) was made effective.

In the UK we amended Part L of our building regulations to comply with this directive, which became law in April 2006. It is split between domestic (L1A / L1B) and non-domestic (L2A / L2B) buildings. It applies to new building design (sections A) and refurbishments (sections B).

Air conditioning is measured by Seasonal Energy Efficiency Ratio (SEER) and Seasonal Coefficient of Performance (SCoP) for cooling and heating respectively. The default levels in the Government calculating tool (SBEM) is SEER 3.5 and SCoP 2.2 for VRV.

Daikin VRV8 exceeds that with typical SEERs averaging over 5 and SCoPs over 3. This ensures that the designer can keep the carbon footprint as small as possible and due to VRV8's high efficiency, lower running costs are a welcome benefit to the end user.



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VRV III-S

→ **S**pace saving

→ **S**mall capacity

→ **S**lim design

→ **S**ilent operation

→ **S**uper wide range of indoor units

Features

1. WIDE APPLICATION RANGE

• VRV III-S OUTDOOR UNIT RANGE



VRV III-S Heat pump	Maximum number of connectable indoor units	Minimum capacity index	Maximum capacity index	Capacity steps
RXYSQ4PV/RXYSQ4PY1	6	50	130	31
RXYSQ5PV/RXYSQ5PY1	8	62.5	162.5	31
RXYSQ6PV/RXYSQ6PY1	9	70	182	31

• INDOOR UNIT CAPACITY INDEX

Model	20	25	32	40	50	63	71	80	100	125	200	250
Capacity Index	20	25	31.5	40	51	62.5	71	80	100	125	200	250

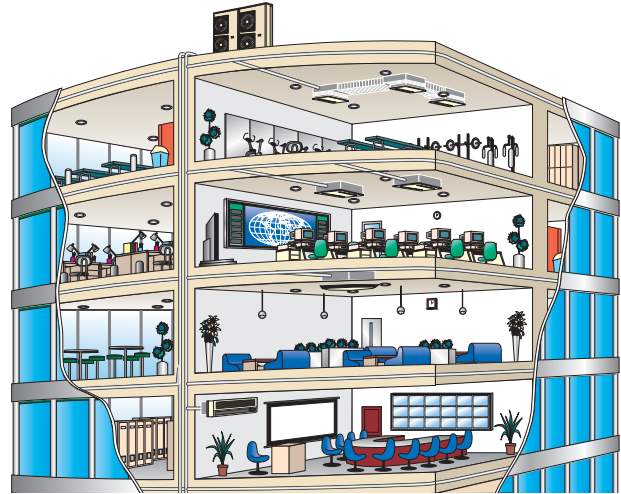
eg. Selected indoor units: FXCQ25 + FXFQ50 + FXDQ25 + FXDQ50
 Connection ratio: 25 + 50 + 25 + 50 = 150
 Possible outdoor unit: RXYSQ5PV



• **FLEXIBLE PIPING DESIGN**

The VRVIII-S provides the long piping length possibility of 150m¹ (175m equivalent piping length), with a total piping length of 300m. If the outdoor unit is installed above the indoor units, the height difference can be up to a maximum of 50m².

These generous allowances facilitate an extensive variety of system designs.

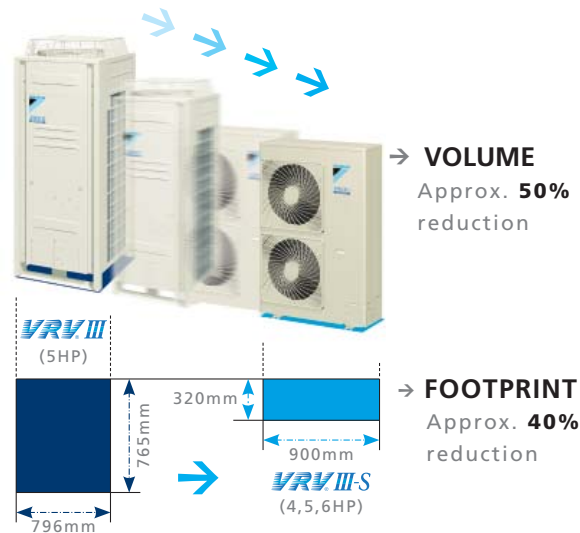


Notes:

- *1. 40 m when the outdoor unit is installed below indoor units.
- *2. Maximum piping length between the indoor unit and the first branch is 40 m.

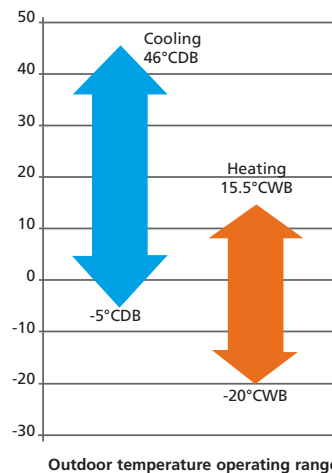
• **SPACE SAVING DESIGN**

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



• **WIDE OPERATION RANGE**

The VRVIII-S system can be installed practically anywhere. The incorporation of a high pressure "dome" type compressor results in a remarkable outdoor operating temperature range from as low as -20°C in heating mode to as high as 46°C in cooling mode.



• SUPER WIDE RANGE OF INDOOR UNITS

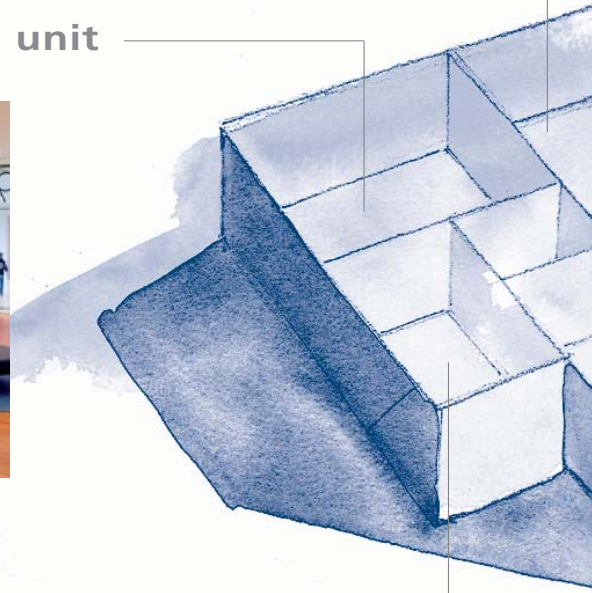
Whatever the air conditioning requirement, a Daikin indoor unit can provide the solution. The VRV III-S can be combined with **13 different indoor unit models** in a total of **73 variations**.

NEW



Cassette type unit

Concealed ceiling unit



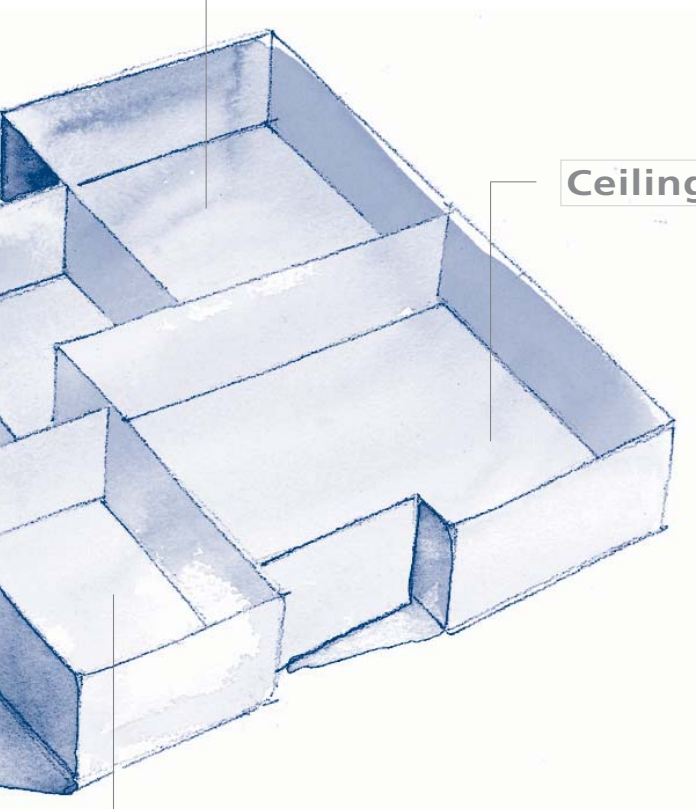
Floor standing unit

NEW

INDOOR UNITS		20	25	32	40	50	63	71	80	100	125
Roundflow ceiling mounted cassette	FXFQ	X	X	X	X	X	X		X	X	X
600x600 4-way blow ceiling mounted cassette	FXZQ	X	X	X	X	X					
2-way blow ceiling mounted cassette	FXCQ	X	X	X	X	X	X		X		X
Ceiling mounted corner cassette	FXKQ		X	X	X		X				
Small concealed ceiling unit	FXDQ-M	X	X								
Slim concealed ceiling unit	FXDQ-N	X	X	X	X	X	X				
Concealed ceiling unit	FXSQ	X	X	X	X	X	X		X	X	X
Large concealed ceiling unit	FXMQ				X	X	X		X	X	X
Wall mounted unit	FXAQ	X	X	X	X	X	X				
Ceiling suspended unit	FXHQ			X			X			X	
4 way blow ceiling suspended unit	FXUQ							X		X	X
Floor standing unit	FXLQ	X	X	X	X	X	X				
Concealed floor standing	FXNQ	X	X	X	X	X	X				



Concealed floor standing unit



Ceiling suspended unit



Wall mounted unit

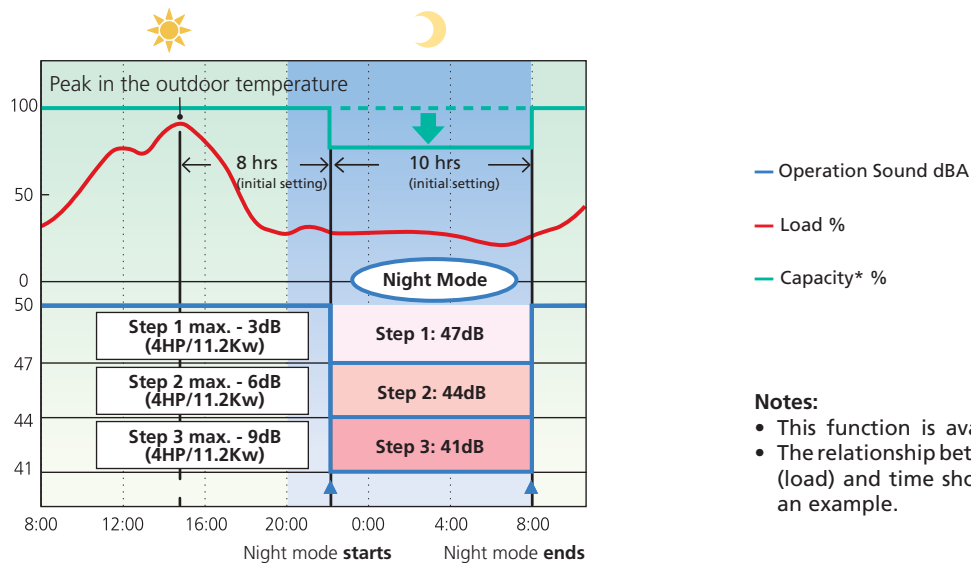


HRV		50	80	100
Ventilation, DX coil & humidifier	VKM-GAM	X	X	X
Ventilation & DX coil	VKM-GA	X	X	X

• SUPER SILENT OPERATION

Quietness is another important feature. To reduce noise and ensure comfortable operation, the latest technologies and features have been applied to the outdoor units.

Night quiet function (max. -9dBA)



During the night the sound level of the outdoor unit can be reduced for a certain period: starting time and ending time can be input

2 modes with low sound level at night:

→ Mode 1 Automatic mode

Set on the outdoor PCB. Time of maximum temperature is memorised. The low operating mode will become active 8 hours after the peak temperature in the daytime and operation will return to normal after 9 hours.

→ Mode 2 Customized mode

Starting and ending times can be input. (External control adapter for outdoor unit, DTA104A61 or DTA104A62 and a separately ordered timer are necessary.)

Notes:

*1. Determine which mode to select depending on the climatic characteristics of each country.

*2. Initial setting. Can be selected from 6, 8 and 10 hours.

*3. Initial setting. Can be selected from 8, 9 and 10 hours.

Daikin indoor units operate at sound levels as low as 25 dBA

dB(A)	Perceived loudness	Sound
0	Threshold 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



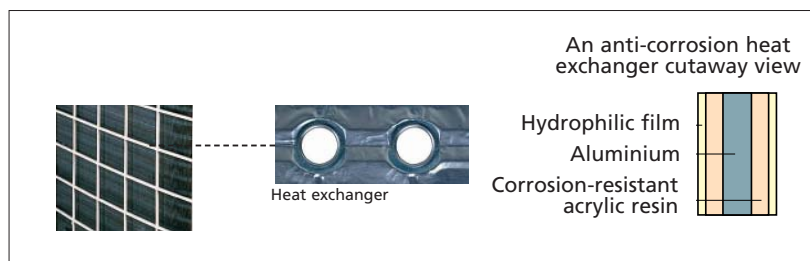
• ANTI CORROSION TREATMENT

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

Improvement in corrosion resistance

Corrosion resistance rating

	Non-treated	Anti-corrosion treated
Salt corrosion	1	5 to 6
Acid rain	1	5 to 6



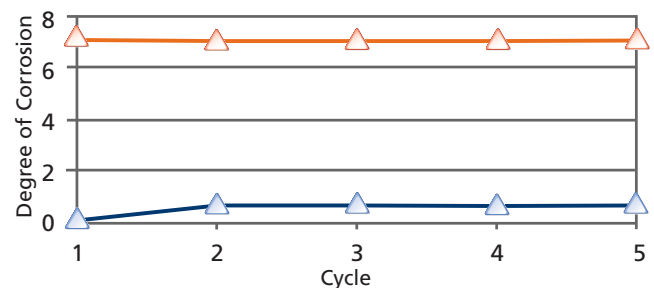
Performed tests:

→ VDA Wechseltest

Contents of single cycle (7 days):

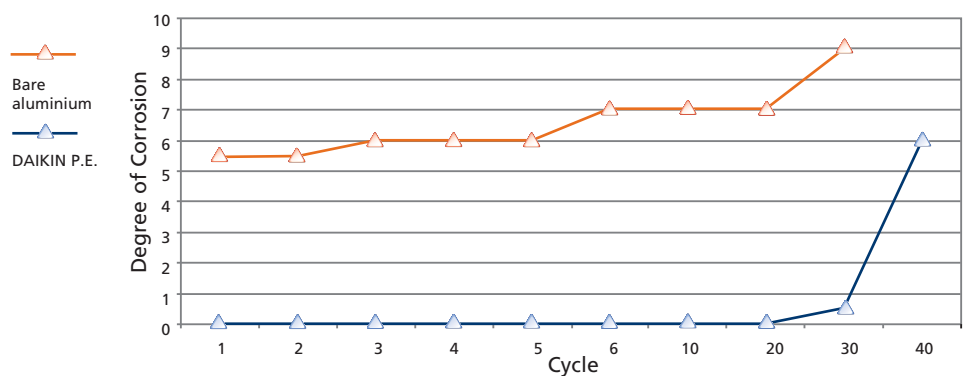
- 24 hours salt spray test SS DIN 50021
- 96 hours humidity cycle test KFW DIN 50017
- 48 hours room temperature & room humidity

Testing period: 5 cycles



→ Kesternich test (SO2)

- Contents of single cycle (48 hours) according to DIN50018 (0.21)
- Testing period: 40 cycles



In all of us,
a green heart

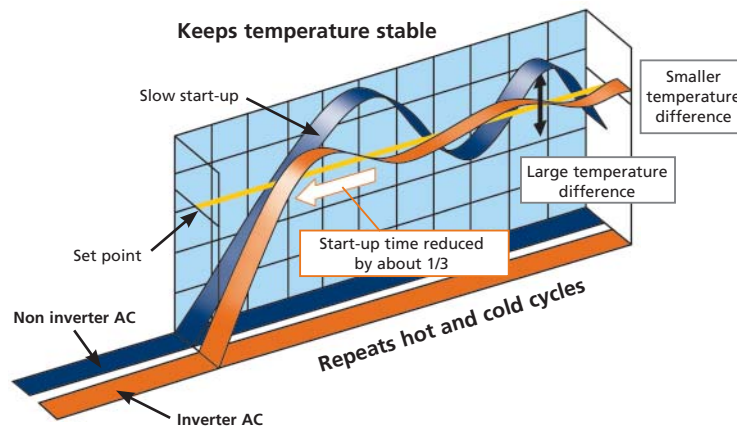


2. ENVIRONMENTAL AWARENESS

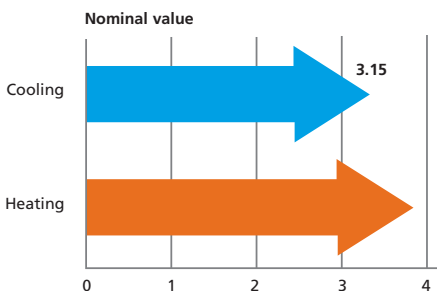
• INVERTER CONTROL

The application of inverter control saves energy for two basic reasons:

1. It enables compressor speed to vary according to the cooling/heating load and therefore consume only the power necessary to match that load. The 50 Hz frequency of the power supply is inverted to a higher or lower frequency according to the required capacity to heat or cool the room. If a lower capacity is needed, the frequency is decreased and less energy is used.
2. Under partial load conditions, the energy efficiency is higher. If the compressor rotates more slowly because less capacity is needed, the coil becomes virtually oversized. Improved efficiencies can therefore be achieved than are possible with non inverter compressors, which always run at the same speed.



• HIGH COP VALUES



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





3. INSTALLATION & MAINTENANCE FRIENDLY DESIGN

• AUTOMATIC CHARGE FUNCTION

Conventional Way:

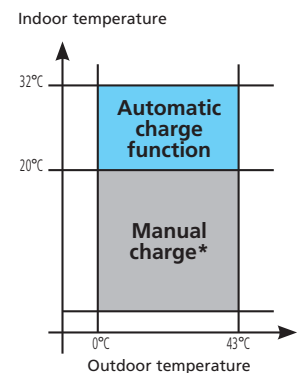
1. calculation of additional refrigerant charging volume
2. charging the unit with additional refrigerant
3. measuring the weight of the cylinder
4. judgment based on pressure (test operation)



VRVIII-S:

With VRVIII however, these 4 steps are omitted since VRVIII-S can be charged with the necessary amount of refrigerant automatically via a push button on the PCB. Automatic charging will cease once the appropriate amount of refrigerant has been transferred.

If temperature drops below 20°C manual charging is necessary (to avoid overcharging the system). After having switched to heating and once the indoor temperature rises above 20°C, push the auto charge button to initialise auto charge function. Refrigerant containment is only available after performing the automatic charge function.



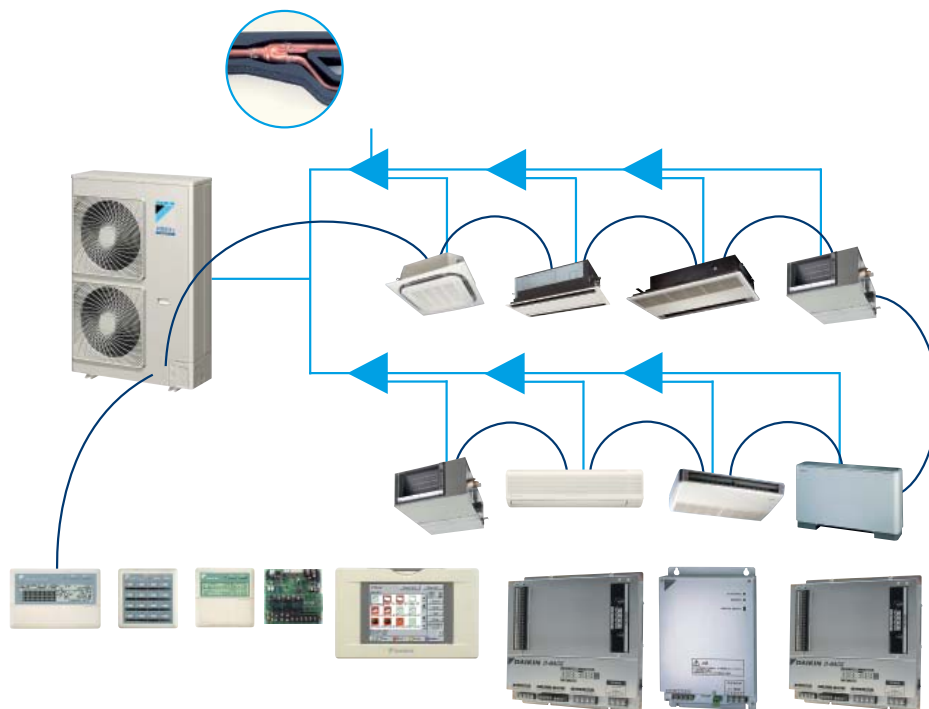
*To avoid overcharging the system

• AUTOMATIC TEST

When refrigerant charging has ceased, pushing the test operation button on the PCB will initiate a check on the wiring, shut off valves, sensors and refrigerant volume. This test ceases automatically when completed.



• SIMPLE WIRING AND PIPING CONNECTION

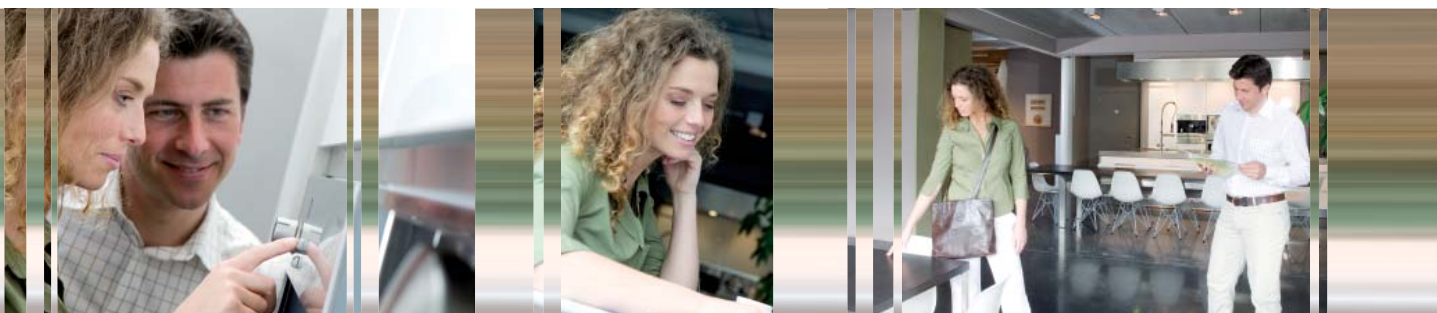


■ SIMPLE WIRING

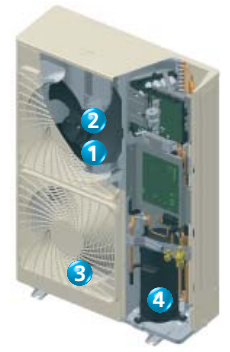
- Super Wiring allows the shared use of wiring between indoor units, outdoor units and the centralised remote controls.
- This system makes it easy for the user to retrofit the existing system with a centralised remote control, simply by connecting it to the outdoor units.
- The use of non polarity wiring, makes incorrect connection impossible and reduces installation time.

■ PIPING CONNECTION

- The unified Daikin REFNET piping system is specially designed for simple installation.
- REFNET joints and headers (both accessories) can cut down on installation work and increase system reliability.



Outdoor Units



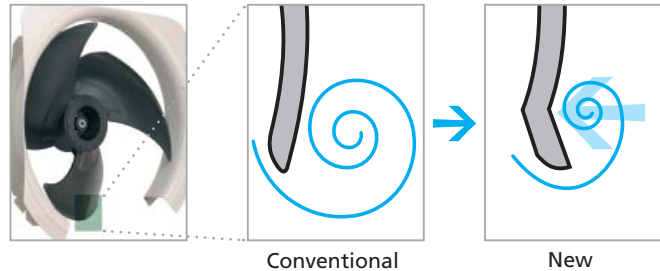
1. VRVIII-S TECHNOLOGY

1 SMOOTH AIR INLET BELL MOUTH AND AERO SPIRAL FAN

These features assist in significantly reducing noise. Guides are added to the bell mouth intake to reduce turbulence in the air flow generated by fan suction.

The aero spiral fan features fan blades with bent blade edges, further reducing turbulence.

Aero spiral fan blade tips

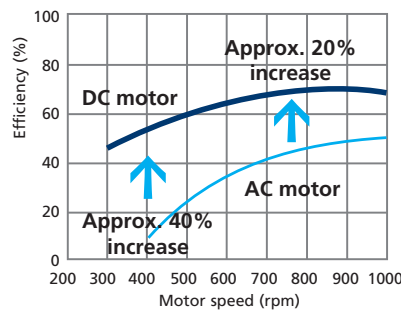


Escaping edges are sucked in by the bent blade edges, reducing overall turbulence.

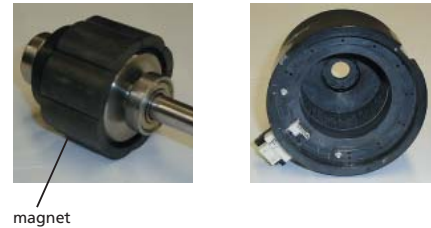
2 DC FAN MOTOR

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

DC motor efficiency (comparison with a conventional AC motor)



DC fan motor structure



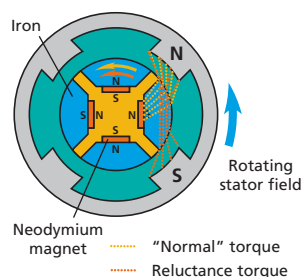
Note: Data are based on studies conducted under controlled conditions at a Daikin laboratory

3 SUPER AERO GRILLE

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

4 RELUCTANCE BRUSHLESS DC COMPRESSOR

The reluctance brushless DC motor provides significant increases in efficiency compared to conventional AC inverter motors, simultaneously using two different forms of torque (normal and reluctance torque) to produce extra power from small electric currents.



Neodymium magnet



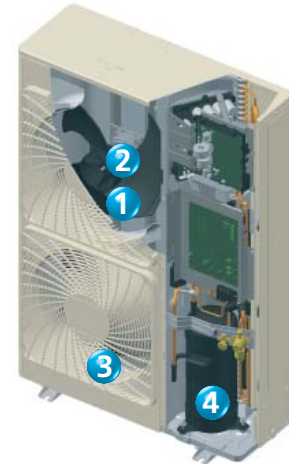
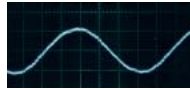
Ferrite magnet



→ Powerful magnets

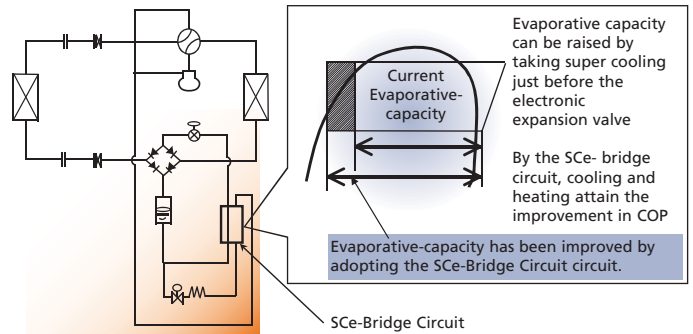
The motor comprises powerful neodymium magnets that create the reluctance torque. These magnets are approximately 12 times stronger than ferrite types and make a major contribution to its energy saving characteristics.

- **Smooth sine wave DC inverter**
Optimizing the sine wave curve results in smoother motor rotation and improved motor efficiency.
- **Optimal refrigerant configuration**
Changes to the shape of the spiral and volume ratio result in optimal refrigerant layout.
- **Stronger materials**
The strength of the casing has been increased by boosting the internal dome pressure.



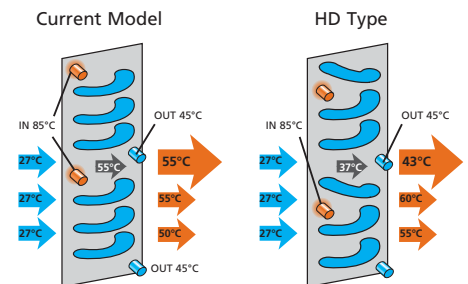
5 e-BRIDGE CIRCUIT

Prevents accumulation of liquid refrigerant in the condenser. This results in more efficient use of the condenser surface under all conditions and leads in turn to better energy efficiency. Increased evaporative capacity stems from the newly developed refrigeration circuit, the SCe-bridge circuit, which adds super cooling prior to the expansion cycle. By adopting this circuit, the COPs in both cooling and heating have been drastically improved.



6 e-PASS HEAT EXCHANGER

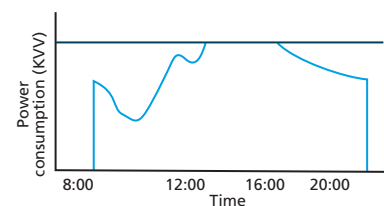
Optimization of the layout path of the heat exchanger prevents heat transferring from the overheated gas section towards the sub cooled liquid section, a more efficient use of the heat exchanger.



In cooling mode, the heat exchanger of the condenser is improved. This means an improvement of COP by 3%.

7 i-DEMAND FUNCTION

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



Outdoor units

2. SPECIFICATIONS

				RXYSQ4P7V3B/RXYSQ4P7Y1B	RXYSQ5P7V3B/RXYSQ5P7Y1B	RXYSQ6P7V3B/RXYSQ6P7Y1B
Nominal capacity	cooling		kW	11.2	14.0	15.5
	heating		kW	12.5	16.0	18.0
COP	cooling			3.15	3.01	3.03
	heating			3.41	3.73	3.62
Capacity range			HP	4	5	6
Max n° of indoor units to be connected				6	8	9
Indoor index connection	minimum			50	62.5	70
	maximum			130	162.5	182
Casing	colour			daikin white		
	material			painted galvanised steel		
Power supply			V3	1~, 50Hz, 230V / 3~, 50Hz, 380-415V		
Dimensions	unit	height	mm	1,345	1,345	1,345
		width	mm	900	900	900
		depth	mm	320	320	320
Weight	unit		kg	125/120	125/120	125/120
Fan	type			Propeller		
	air Flow Rate (nominal at 230V)	cooling	m/min	106	106	106
heating		m/min	102	105	105	
Compressor	type			hermetically sealed scroll compressor		
	starting method			direct on line		
Operation range	cooling	minimum	°CDB	-5.0	-5.0	-5.0
		maximum	°CDB	46	46	46
	heating	minimum	°CWB	-20	-20	-20
		maximum	°CWB	15.5	15.5	15.5
Sound level (nominal)	cooling	sound power	dB(A)	66	67	69
		sound pressure	dB(A)	50	51	53
	heating	sound power	dB(A)	52	53	55
		sound pressure	dB(A)			
Refrigerant	type			R-410A		
	charge		kg	4.0	4.0	4.0
	control			expansion valve (electronic type)		
Refrigerant Oil	type			daphne FVC68D		
	charged Volume		l	1.5	1.5	1.5
Piping Connections	liquid	diameter (OD)	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)
		gas	diameter (OD)	mm	15.9 (Flare)	15.9 (Flare)
	heat Insulation			both liquid and gas pipes		
	max. total length		m	300	300	300
Safety devices				HPS, fan motor thermal protection, inverter overload protector, PC board fuse		

Notes:

Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, inlet water temperature : 30°C, equivalent refrigerant piping : 7.5m, level difference : 0m.

Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m

Sound power level is an absolute value that a sound source generates.

Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings.

Sound values are measured in a semi-anechoic room.

3. ACCESSORIES

	RXYSQ4P7V3B/RXYSQ4P7Y1B	RXYSQ5P7V3B/RXYSQ5P7Y1B	RXYSQ6P7V3B/RXYSQ6P7Y1B
Cool/heat selector		KRC19-26A6	
Fixing box		KJB111A	
Refnet headerr		KHRQ22M29H	
Refnet joint		KHRQ22M20T	
Central drain plug		KKP15F180	

Indoor Units

1. FEATURES

FXFQ-P

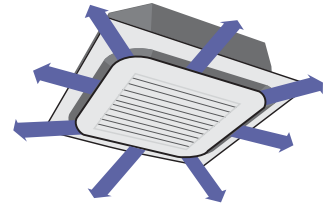
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ROUND FLOW CEILING MOUNTED CASSETTE

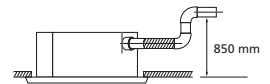
COMFORT

- Modern style decoration panel in white (RAL9010)
- 360° air discharge ensures uniform air flow and temperature distribution
- Air discharge from the corners avoids dead zones that may be subject to temperature differences
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- 23 different air flow patterns possible
- Fresh air intake: up to 20%

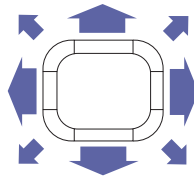


FLEXIBLE INSTALLATION AND EASY MAINTENANCE

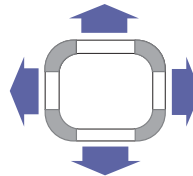
- Reduced installation height: 214mm for class 20-63
- Easy visible drain check thanks to clear drain socket
- Drain-up pump with 850 mm lift fitted as standard



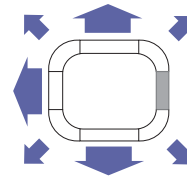
EXAMPLES OF AIRFLOW PATTERNS



360° Round Flow



4-Way Flow



3-Way Flow



2-Way Flow

FXZQ-M8

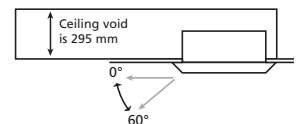
20-25-32-40-50



4-WAY BLOW CEILING MOUNTED CASSETTE (600MMX600MM)

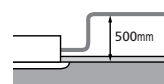
COMFORT

- Modern style decoration panel in white (RAL9010)
- Extremely quiet in operation
- Excellent low draught characteristics. Since the flaps can move to a 0° position, virtually no draught can be experienced
- Any one of 5 different air flow patterns can be freely selected between 0° and 60° and will then be maintained during the operational cycle of the air conditioner



FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- Thanks to the compact casing, it matches standard architectural modules of 600x600mm, therefore ceiling tile cutting is no longer necessary
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Since the switch box is located within the unit, it is easy to access from below for maintenance without removing ceiling tiles
- Drain-up pump with 500mm lift fitted as standard





2-WAY BLOW CEILING MOUNTED CASSETTE

COMFORT

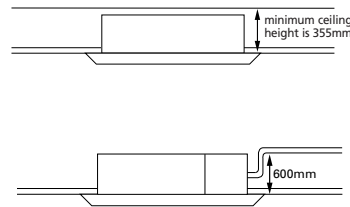
- Quiet in operation
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Automatic air flow director ensures uniform air flow and temperature distribution
- Anti-ceiling soiling technology

FILTER

- Standard long life filter

FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- Easy installation in false ceilings of only 355mm
- Drain-up pump with 600mm lift fitted as standard
- Maintenance can be performed by simply removing the front panel
- Easy to clean flat suction grille
- Detachable swing flaps



FXCQ-M8

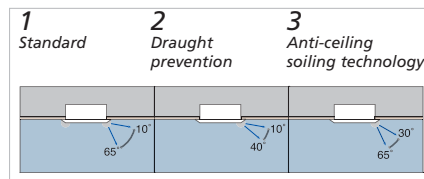
20-25-32-40-50-63-80-125



CEILING MOUNTED CORNER CASSETTE

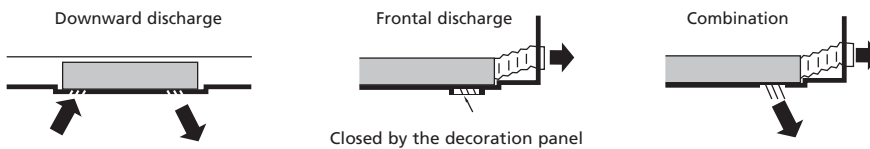
COMFORT

- Equipped with special draught prevention and anti-ceiling soiling technology
- Automatic air flow director ensures uniform air flow and temperature distribution



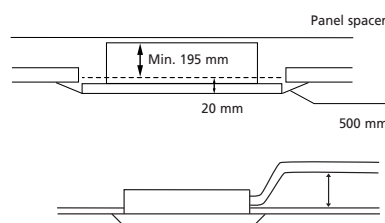
Note: Standard setting when shipped.

- Air flow by either downward air discharge, frontal discharge or a combination of both



FLEXIBLE INSTALLATION

- Compact dimensions, can easily be mounted in a narrow ceiling void (only 220mm ceiling space required, 195 with panel spacer, available as accessory)
- Drain-up pump with 500mm lift fitted as standard



FXKQ-MA

20-32-40-63



FXDQ-M8

20-25



SMALL CONCEALED CEILING UNIT

COMFORT

- Designed for hotel bedrooms
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Extremely quiet in operation

FILTER

- Air suction filter fitted as standard

FLEXIBLE INSTALLATION

- Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void
- The air suction direction can be altered from rear to bottom suction
- For easy mounting, the drain pan can be located to the left or the right of the unit

FXDQ-P/NA

20-25-32-40-50-63



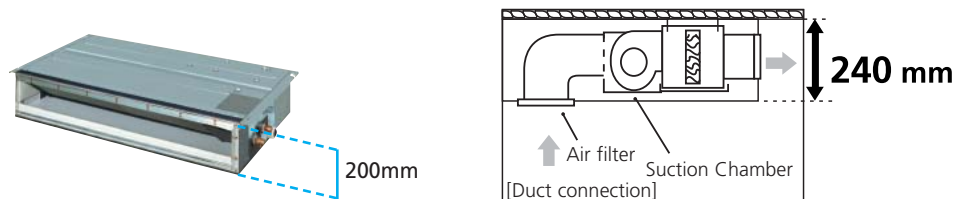
SLIM CONCEALED CEILING UNIT

COMFORT

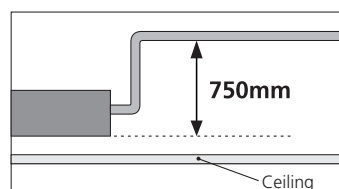
- Quiet in operation
- Blends unobtrusively with any interior décor
- Leaves maximum floor and wall space for furniture, decorations and fittings

FLEXIBLE INSTALLATION

- Slim design, can easily be mounted in a ceiling void of only 240mm



- Can be installed in both new and existing buildings
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- Drain-up pump with 750mm lift fitted as standard





CONCEALED CEILING UNIT

COMFORT

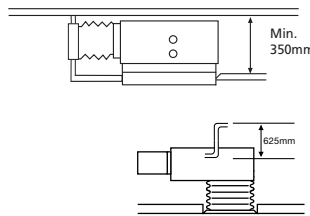
- High flexibility for a wide variety of applications
- Quiet in operation
- Blends unobtrusively with any interior décor

FILTER

- Long life filter fitted as standard
- High efficiency filters (65% and 95%) available as accessory

FLEXIBLE INSTALLATION AND EASY MAINTENANCE

- High external static pressure facilitates unit use with flexible ducts of varying lengths
- When using suction panel, unit requires only 350mm of ceiling space
- Drain-up pump with 625mm lift fitted as standard
- The air suction direction can be altered from rear to bottom suction
- The switch box can be reached from the side or from the bottom side of the unit for easy servicing



FXSQ-M8

20-25-32-40-50-63-
80-100-125



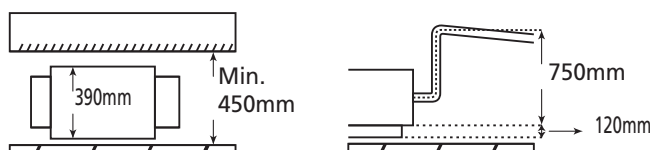
LARGE CONCEALED CEILING UNIT

COMFORT

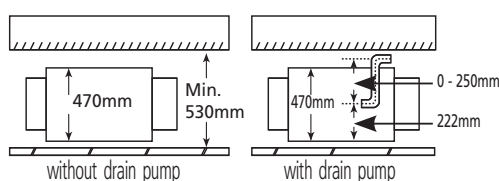
- Leaves maximum floor and wall space for furniture, decorations and fittings

FLEXIBLE INSTALLATION

- More than 150 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Drain-up pump with 750mm lift available as accessory for class 40-125



- External static pressure can be easily adjusted using a change-over switch inside the electrical box to meet the resistance in the duct system
- Built-in drain pump (accessory): housing the drain pump inside the unit (class 200 & 250) has reduced the required installation space



FXMQ-MA

40-50-63-80-100-125



FXAQ-MA

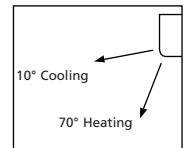
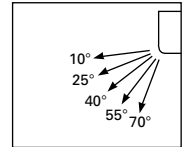
20-25-32-40-50-63



WALL MOUNTED UNIT

COMFORT

- Compact and stylish design blends unobtrusively in any interior décor
- Automatic air flow director ensures efficient air distribution via louvers that close automatically when the unit is switched off
- 5 different discharge angles can be programmed via the remote control
- Discharge angle automatically returns to its previous position on restart (initial setting 10 degrees for cooling and 70 degrees for heating)

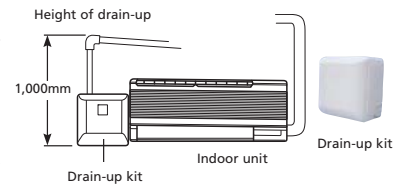


FILTER

- Mildew proof polystyrene filter and drain pan

FLEXIBLE INSTALLATION AND EASY MAINTNANCE

- Both horizontal flaps and front panel can easily be removed and washed
- All maintenance operations can be carried out from the front of the unit
- Drain-up pump with 1,000mm lift available as accessory
- Drain pipe can be fitted either to the left or right side of the unit



FXHQ-MA

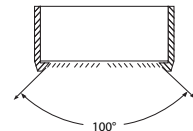
32-63-100



CEILING SUSPENDED UNIT

COMFORT

- Quiet in operation
- Leaves maximum floor and wall space for furniture, decorations and fittings



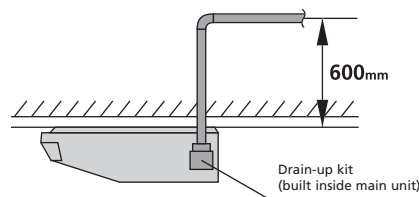
- Enhanced horizontal and vertical air circulation in all directions thanks to an air flow pattern of 100°

FILTER

- Long life filter fitted as standard

FLEXIBLE INSTALLATION AND EASY MAINTNANCE

- Can be installed in both new and existing buildings
- The ideal solution for installation without false ceilings
- Drain-up pump with 600mm lift available as accessory



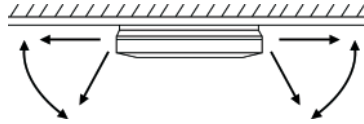
- Maintenance can be performed easily from below the unit
- Bristle free flap makes cleaning easier



4-WAY BLOW CEILING SUSPENDED UNIT

COMFORT

- Group control with other VRV indoor units possible
- Cool heat selection
- Prevention of cold draught at hot start, defrost and oil return in heating
- Air can be discharged in any of 4 directions
- Air can be discharged at 5 different angles between 0 and 60 degrees



- Automatic air flow director ensures efficient air and temperature distribution.
- Air flow distribution for ceiling heights up to 3.5m without loss of capacity.

FILTER

- Air filter, drain pan and heat exchanger fin are mildew proof and anti-bacterial treated

FLEXIBLE INSTALLATION

- Ideal for installation in new and existing buildings
- 5m maximum distance between FXUQ unit and junction box
- Possibility to shut 1 or 2 flaps for easy installation in corners



- Drain-up pump with 500mm lift fitted as standard

FXUQ-MA

71-100-125



FXLQ-MA

20-25-32-40-50-63



FLOOR STANDING UNIT

COMFORT

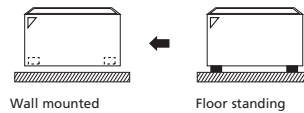
- Ideal for installation beneath a window
- Compact dimensions (only 222mm deep and 600mm high)
- All models are available with remote control

FILTER

- Long life filter fitted as standard

FLEXIBLE INSTALLATION & EASY MAINTENANCE

- Running the pipes from connections at the back, enables the unit to be wall mounted



- On site connection during installation is easier
- The fibreless discharge grille prevents condensation and staining

FXNQ-MA

20-25-32-40-50-63



CONCEALED FLOOR STANDING UNIT

COMFORT

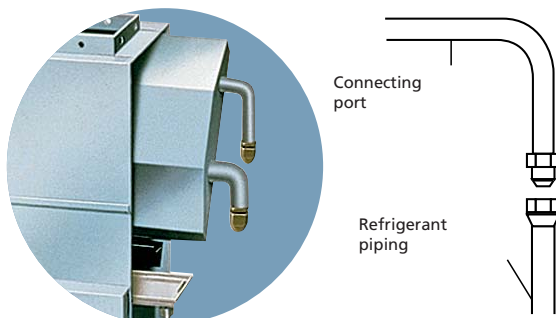
- Ideal for perimeter air conditioning
- Ideal for installation below a window
- All models are available with remote control

FILTER

- Long life filter fitted as standard

FLEXIBLE INSTALLATION

- On site connection during installation is easier
- The connecting port faces downward, eliminating the need to attach auxiliary piping





Roundflow ceiling mounted cassette

FXFQ-P				20	25	32	40	50	63	80	100	125
Capacity	cooling	kW		2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
	heating	kW		2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power input	cooling	kW		0.053		0.063		0.083	0.095	0.120	0.173	0.258
	heating	kW		0.045		0.055		0.067	0.114	0.108	0.176	0.246
Dimensions	(H x W x D)	mm		204x840x840				246x840x840				288x840x840
Weight	unit	kg		20.0				21.0		24.0		26.0
Casing				Galvanised steel								
Air Flow Rate	cooling	high/low	m ³ /min	12.5/9.0			13.5/9.0	15.5/10.0	16.5/11.0	23.5/14.5	26.5/17.0	33.0/20.0
	heating	high/low	m ³ /min	12.5/9.0			13.5/9.0	15.0/9.5	17.5/12.0	23.5/14.5	28.0/17.5	33.0/20.0
Sound power (nominal)	cooling		dB(A)	49			50	51	52	55	58	61
Sound pressure	cooling	high/low	dB(A)	31/28			32/28	33/28	34/29	38/32	41/33	44/34
	heating	high/low	dB(A)	31/28			32/28	33/28	36/30	38/32	42/34	44/34
Refrigerant	name			R-410A								
Power Supply				1~ / 220-240V / 50Hz								
Piping Connections	L/G/D	diameter	mm	6.35/12.7/32	6.4/12.7/32				9.5/15.9/32			
Air Filter				Resin net with mold resistance								
Drain-up Height			mm	750								
Decoration Panel	model			BYCQ140CW1								
	colour			RAL9010								
	(H x W x D)	mm		50x950x950								
	weight	kg		5.5								

- Notes:
- The sound pressure values are mentioned for a unit installed with rear suction
 - The sound power level is an absolute value indicating the power which a sound source generates.
 - Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, 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.
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

ACCESSORIES

FXFQ-P	20	25	32	40	50	63	80	125
Wired remote control								BRC1D52
Infrared remote control	cooling only							BRC7F533F
		heat pump						BRC7F532F
Decoration panel								BYCQ140CW1
Replacement long life filter (non-woven type)								KAFP551K160
Fresh air intake kit (20% fresh air intake) (chamber type)								KDDQ5C140
Air discharge outlet sealing member								KDBHQ55C140



FXZQ-M8

p. 24



4-way blow ceiling mounted cassette (600mm x 600mm)

FXZQ-M8			20	25	32	40	50
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3
Nominal input	cooling	W	73	73	76	89	115
	heating	W	64	64	68	80	107
Dimensions (HxWxD)		mm	286x575x575				
Weight		kg	18				
Casing			galvanised steel plate				
Air flow rate (H/L)		m ³ /min	9.0/7.0	9.0/7.0	9.5/7.5	11.0/8.0	14.0/10.0
Sound pressure level (H/L)(220V)		dB(A)	30/25	30/25	32/26	36/28	41/33
Sound power level		dB(A)	47	47	49	53	58
Refrigerant type			R-410A				
Piping connections	liquid/gas	mm	ø6.4/ø12.7				
Air filter			resin net with mold resistant				
Drain-up height		mm	500				
Power supply		V1	1~, 50Hz, 220-240V				
Decoration panel	dimensions (HxWxD)	mm	55x700x700				
	weight	kg	2.7				
	Colour		white (RAL 9010)				

Notes:

- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent piping length: 7.5m (horizontal)
- Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent piping length: 7.5m (horizontal)
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

ACCESSORIES

FXZQ-M8			20	25	32	40	50
Wired remote control					BRC1D52		
Infrared remote control	cooling only				BRC7E531		
	heat pump				BRC7E530		
Decoration panel					BYFQ60B		
Sealing member of air discharge outlet					KDBH44B60		
Panel spacer					KDBQ44B60		
Replacement long life filter					KAFQ441B60		
Fresh air intake kit	direct installation type				KDDQ44X60		



FXCQ-M8

p. 25



2-way blow ceiling mounted cassette

FXCQ-M8			20	25	32	40	50	63	80	125	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0	
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	16.0	
Nominal input	cooling	W	77	92	92	130	130	161	209	256	
	heating	W	44	59	59	97	97	126	176	223	
Dimensions (HxWxD)		mm	305x780x600			305x995x600		305x1,180x600		305x1,670x600	
Weight		kg	26			31		32		47	
Casing			galvanised steel plate								
Air flow rate (H/L)		m ³ /min	7/5	9/6.5	9/6.5	12/9	12/9	16.5/13	26/21	33/25	
Sound pressure level (H/L)		dB(A)	33/28	35/29	35/29	35.5/30.5	35.5/30.5	38/33	40/35	45/39	
Sound power level		dB(A)	45	50	50	50	50	52	54	60	
Refrigerant type			R-410A								
Piping connections	liquid/gas	mm	ø6.4/ø12.7					ø9.5/ø15.9			
Air filter			resin net with mold resistant								
Drain-up height		mm	600								
Power supply		V3	1~, 50Hz, 230V								
Decoration panel	dimensions (HxWxD)	mm	53x1,030x680			53x1,245x680		53x1,430x680		53x1,920x680	
	weight	kg	8			8.5		9.5		12	
	colour		ivory white								

Notes: • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference: 0m
 • Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference: 0m
 • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat

ACCESSORIES

FXCQ-M8			20	25	32	40	50	63	80	125
Wired remote control							BRC1D52			
Infrared remote control	cooling only						BRC7C67			
	heat pump						BRC7C62			
Decoration panel				BYBC32G		BYBC50G		BYBC63G		BYBC125G
High efficiency filter 65% *1				KAFJ532G36		KAFJ532G56		KAFJ532G80		KAFJ532G160
High efficiency filter 90% *1				KAFJ533G36		KAFJ533G56		KAFJ533G80		KAFJ533G160
Filter chamber for bottom suction				KDDFJ53G36		KDDFJ53G56		KDDFJ53G80		KDDFJ53G160
Replacement long life filter				KAFJ531G36		KAFJ531G56		KAFJ531G80		KAFJ531G160

Note: *1. Filter chamber is required when installing a high efficiency filter



FXXQ-MA

p. 26



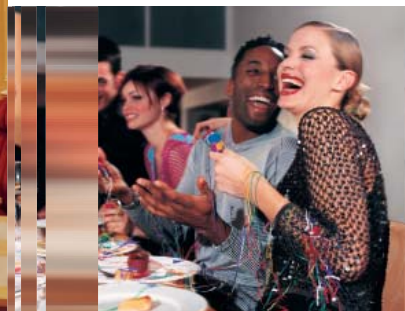
Ceiling mounted corner cassette

FXXQ-MA			25	32	40	63
Cooling capacity		kW	2.8	3.6	4.5	7.1
Heating capacity		kW	3.2	4.0	5.0	8.0
Nominal input	cooling	W	66	66	76	105
	heating	W	46	46	56	85
Dimensions (HxWxD)		mm	215x1,110x710			215x1,310x710
Weight		kg	31			34
Casing			galvanised steel plate			
Air flow rate (H/L)		m/min	11/9	11/9	13/10	18/15
Sound pressure level (H/L)(220V)		dB(A)	38/33	38/33	40/34	42/37
Sound power level		dB(A)	*	*	*	*
Refrigerant type			R-410A			
Piping connections	liquid/gas	mm	ø6.4/ø12.7			ø9.5/ø15.9
Air filter			resin net with mold resistant			
Drain-up height		mm	500			
Power supply		VE	1 ~, 50Hz, 220-240V			
Decoration panel	dimensions (HxWxD)	mm	70x1,240x800			70x1,440x800
	weight	kg	8.5			9.5
	colour		ivory white			

- Notes:
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal)
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal)
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 - *Data were not available at time of publication

ACCESSORIES

FXXQ-MA			25	32	40	63
Wired remote control					BRC1D52	
Infrared remote control	cooling only				BRC4C63	
	heat pump				BRC4C61	
Decoration panel				BYK45F		BYK71F
Panel spacer				KPBJ52F56		KPBJ52F80
Replacement long life filter				KAFJ521F56		KAFJ521F80
Air discharge grille				K-HV7AW		K-HV9AW
Air discharge blind panel				KDBJ52F56W		KDBJ52F80W
Flexible duct (with shutter)				KFDJ52F56		KFDJ52F80



FXDQ-M8

p. 27

Small concealed ceiling unit



FXDQ-M8		20	25
Cooling capacity	kW	2.2	2.8
Heating capacity	kW	2.5	3.2
Nominal input	cooling		50
	heating		50
Dimensions (HxWxD)	mm	230x502x652	
Weight	kg	17	
Casing		galvanised steel plate	
Air flow rate (H/L)	m/min	6.7/5.2	7.4/5.8
Sound pressure level (H/L)	dB(A)	37/32	
Sound power level	dB(A)	50	
Refrigerant type		R-410A	
Piping connections	liquid/gas	mm	
Air filter		resin net with mold resistant	
Power supply	V3	1~, 50Hz, 230V	

Notes : • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference : 0m
 • Nominal heating capacities are based on: indoor air temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference : 0m
 • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

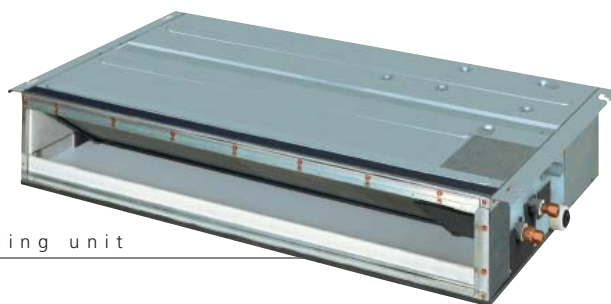
ACCESSORIES

FXDQ-M8		20	25
Wired remote control		BRC1D52, BRC2C51, BRC3A61	
Infrared remote control	cooling	BRC4C64	
	heating	BRC4C62	



FXDQ-P/NA

p. 28



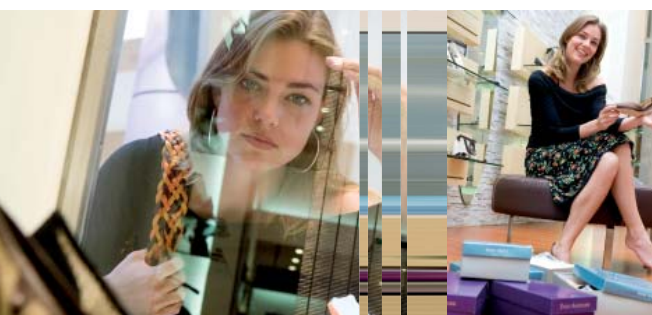
Slim concealed ceiling unit

FXDQ-P/NA			FXDQ20P	FXDQ25P	FXDQ32P	FXDQ40NA	FXDQ50NA	FXDQ63NA
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0
Nominal input	cooling	W	86	86	89	160	165	181
	heating	W	67	67	70	70	152	168
Dimensions (HxWxD)		mm		200x700x620		200x900x620		200x1,100x620
Weight		kg	23	23	23	27	28	31
Casing			galvanised steel plate					
Air flow rate (H/L)		m ³ /min	8.0/6.4	8.0/6.4	8.0/6.4	10.5/8.5	12.5/10.0	16.5/13.0
Sound pressure level (H/L)		dB(A)	33/29	33/29	33/29	34/30	35/31	36/32
Sound power level		dB(A)	*	*	*	*	*	*
Refrigerant type			R-410A					
Drain-up height		mm	750					
Piping connections	liquid/gas	mm	ø6.4/ø12.7					ø9.5/ø15.9
Air filter			removable, washable, mildew proof					
Power supply		VE	1 ~, 50Hz, 220-240V					

Notes: • Nominal cooling capacities are based on: • Indoor temperature: 27°CDB, 19°CWB • Outdoor temperature: 35°CDB • Equivalent piping length: 7.5m (horizontal)
 • Nominal heating capacities are based on: • Indoor temperature: 20°CDB • Outdoor temperature: 7°CDB, 6°CWB • Equivalent piping length: 7.5m (horizontal)
 • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 • The sound pressure values are mentioned for a unit installed with rear suction
 • * Data were not available at time of publication

ACCESSORIES

			FXDQ20P	FXDQ25P	FXDQ32P	FXDQ40NA	FXDQ50NA	FXDQ63NA
Wired remote control						BRC1D52		
Infrared remote control	cooling only					BRC4C64		
	heat pump					BRC4C62		



FXSQ-M8

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Concealed ceiling unit

FXSQ-M8			20	25	32	40	50	63	80	100	125	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0	
Nominal input	cooling	W	110	110	114	127	143	189	234	242	321	
	heating	W	90	90	94	107	123	169	214	222	301	
Dimensions (HxWxD)		mm	300x550x800	300x700x800	300x1,000x800	300x1,400x800						
Weight		kg	30	30	30	30	31	41	51	51	52	
Casing			galvanised steel plate									
Air flow rate (H/L)		m ³ /min	9/6.5	9/6.5	9.5/7	11.5/9	15/11	21/15.5	27/20	28/20.5	38/28	
Sound pressure level (H/L)		dB(A)	32/28	32/28	33/28	33/29	35/31	35/30	37/31	38/33	40/35	
Sound power level		dB(A)	50	50	51	56	58	56	55	56	65	
Refrigerant type			R-410A									
Piping connections	liquid/gas	mm	ø6.4/ø12.7						ø9.5/ø15.9			
Air filter			resin net with mold resistant									
Drain-up height		mm	625									
Power supply		V	1 ~, 50Hz, 230V									
Decoration panel	dimensions (HxWxD)		55x650x500			55x800x500		55x1,100x500		55x1,500x500		
	weight	kg	3			3.5		4.5		6.5		
	colour		ivory white									

- Notes:
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 8m • level difference: 0m
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference: 0m
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 - The sound pressure values are mentioned for a unit installed with rear suction

ACCESSORIES

FXSQ-M8			20	25	32	40	50	63	80	100	125	
Wired remote control			BRC1D52, BRC2C51, BRC3A61									
Infrared remote control	cooling only		BRC4C64									
	heat pump		BRC4C62									
Decoration panel			BYB532D			BYB545D		BYB571D		BYB5125D		
Service access panel			KTBJ25K36W			KTBJ25K56W		KTBJ25K80W		KTBJ25K160W		
High efficiency filter 65% *1			KAFJ25L36			KAFJ25L56		KAFJ25L80		KAFJ25L160		
High efficiency filter 90% *1			KAFJ25L36			KAFJ25L56		KAFJ25L80		KAFJ25L160		
Filter chamber for bottom suction			KAJ25L36D			KAJ25L56D		KAJ25L80D		KAJ25L160D		
Filter chamber rear suction			KAJ25L36B			KAJ25L56B		KAJ25L80B		KAJ25L160B		
Air suction canvas			KSA-25K36			KSA-25K56		KSA-25K80		KSA-25K160		
Screening door/blind board			KBBJ25K36			KBBJ25K56		KBBJ25K80		KBBJ25K160		
Air discharge adapter for round duct			KDAJ25K36			KDAJ25K56		KDAJ25K71		KDAJ25K140		

- Notes:
- *1. If installing a high efficiency filter in the unit, an assembly chamber for either bottom or rear suction is required.



FXMQ-MA

p. 30



Large concealed ceiling unit

FXMQ-MA		40	50	63	80	100	125	
Cooling capacity	kW	4.5	5.6	7.1	9.0	11.2	14.0	
Heating capacity	kW	5.0	6.3	8.0	10.0	12.5	16.0	
Nominal input	cooling	211	211	211	284	411	619	
	heating	211	211	211	284	411	619	
Dimensions (HxWxD)	mm	390x720x690				390x1,110x690		
Weight	kg	44	44	44	45	63	65	
Casing		galvanised steel plate						
Air flow rate (H/L)	m/min	14/11.5	14/11.5	14/11.5	19.5/16	29/23	36/29	
Sound pressure level (H/L)(220V)	dB(A)	39/35	39/35	39/35	42/38	43/39	45/42	
Sound power level	dB(A)	*	*	*	*	*	*	
Refrigerant type		R-410A						
Piping connections	liquid/gas	ø6.4/ø12.7			ø9.5/ø15.9			
Air filter		cf. note 4						
Power supply	VE	1~, 50Hz, 220-240V						

- Notes:
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal)
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal)
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 - The air filter is not a standard accessory, but please mount it in the duct system at the suction side. Select its colorimetric method (gravity method) 50% or more.
 - *Data were not available at time of publication

ACCESSORIES

FXMQ-MVE		40	50	63	80	100	125
Wired remote control		BRC1D52, BRC2C51, BRC3A61					
Infrared remote control	cooling only	BRC4C64					
	heat pump	BRC4C62					
Drain pump kit		KDU-30L125					
High efficiency filter 65%			KAFP372A80			KAFP372A160	
High efficiency filter 90%			KAFP373A80			KAFP373A160	
Filter chamber			KDDFP37A80			KDDFP37A160	
Replacement long life filter			KAFP371A80			KAFP371A160	



FXAQ-MA

p. 31



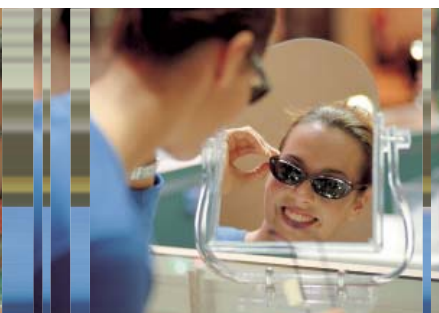
Wall mounted unit

FXAQ-MA		20	25	32	40	50	63
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Nominal input	cooling	16	22	27	20	27	50
	heating	24	27	32	20	32	60
Dimensions (HxWxD)	mm	290x795x230			290x1,050x230		
Weight	kg	11			14		
Colour		white					
Air flow rate (H/L)	m ³ /min	7.5/4.5	8/5	9/5.5	12/9	15/12	19/14
Sound pressure level (H/L)(220V)	dB(A)	35/29	36/29	37/29	39/34	42/36	46/39
Sound power level	dB(A)	*	*	*	*	*	*
Refrigerant type		R-410A					
Piping connections	liquid/gas	ø6.4/ø12.7					ø9.5/ø15.9
Air filter		resin net washable					
Power supply	VE	1~, 50Hz, 220-240V					

- Notes:
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 5m (horizontal)
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 5m (horizontal)
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 - *Data were not available at time of publication

ACCESSORIES

FXAQ-MA		20	25	32	40	50	63
Wired remote control					BRC1D52		
Infrared remote control	cooling only				BRC7E619		
	heat pump				BRC7E618		
Drain pump kit					K-KDU572DVE		



FXHQ-MA

p. 32



Ceiling suspended unit

FXHQ-MA			32	63	100
Cooling capacity		kW	3.6	7.1	11.2
Heating capacity		kW	4.0	8.0	12.5
Nominal input	cooling	W	111	115	135
	heating	W	111	115	135
Dimensions (HxWxD)		mm	195x960x680	195x1,160x680	195x1,400x680
Weight		kg	24	28	33
Colour			ivory white		
Air flow rate (H/L)		m/min	12/10	17.5/14	25/19.5
Sound pressure level (H/L)(220V)		dB(A)	36/31	39/34	45/37
Sound power level		dB(A)	*	*	*
Refrigerant type			R-410A		
Piping connections	liquid/gas	mm	ø6.4/ø12.7		ø9.5/ø15.9
Air filter			resin net with mold resistant		
Power supply		VE	1~, 50Hz, 220-240V		

- Notes:
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal)
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal)
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 - *Data were not available at time of publication

ACCESSORIES

FXHQ-MA			32	63	100
Wired remote control				BRC1D52	
Infrared remote control	cooling only			BRC7E66	
	heat pump			BRC7E63	
Drain pump kit			KDU50M60	KDU50M125	KDU50M125
Replacement long life filter	resin net		KAFJ501DA56	KAFJ501DA80	KAFJ501DA112
L-type piping kit	for upward direction		KHFP5M35	KHFP5M63	KHFP5M63



FXUQ-MA

p. 33



4-way blow ceiling suspended unit

FXUQ-MA			71	100	125
Cooling capacity		kW	8.0	11.2	14.0
Heating capacity		kW	9.0	12.5	14.0
Nominal input	cooling	W	180	289	289
	heating	W	160	269	269
Dimensions (HxWxD)		mm	165x895x895	230x895x895x	230x895x895
Weight		kg	25	31	31
Colour				white	
Air flow rate (H/L)			19/14	29/21	32/23
Sound pressure level (H/L) (220V)		dB(A)	40/35	43/38	44/39
		dB(A)	56	59	60
Refrigerant type				R-410A	
Piping connections	liquid/gas	mm	ø9.5/ø15.9	ø9.5/ø15.9	ø9.5/ø15.9
Air filter				resin net with mold resistant	
Power supply		V1		1~, 50Hz, 230V	
Combination with junction box			BEVQ71MA	BEVQ100MA	BEVQ125MA

Notes: • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB, 24°CWB
 • Nominal heating capacities are based on: indoor temperature: 20°CDB, 15°CWB • outdoor temperature: 7°CDB, 6°CWB
 • Capacities are net including a deduction for cooling (an addition for heating) for indoor fan motor heat

ACCESSORIES

FXUQ-MA			71	100	125
Wired remote control				BRC1D52	
Infrared remote control	cooling only			BRC7C529	
	heat pump			BRC7C528	
Sealing member of air discharge outlet			KDBHJ49F80		KDBHJ49F140
Air discharge decoration panel			KDBTJ49F80		KDBTJ49F140
Vertical flap kit			KDGJ49F80		KDGJ49F140
Replacement long life filter				KAFJ495F140	
L-type connection piping kit			KHP49M63		KHP49M140

JUNCTION BOX FOR CONNECTION TO VRV

BEVQ-MA			71	100	125
Dimensions	HxWxD	mm		100x350x225	
Weight		kg	3.0	3.0	3.5
Casing				galvanised steel plate	
Power supply		VE		1~, 50Hz, 220-240V	



BEVQ-MA



FXLQ-MA

p. 34

Floor standing unit



FXLQ-MA		20	25	32	40	50	63
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
Heating capacity	kW	2.5	3.2	4.0	5.0	6.3	8.0
Nominal input	cooling	49	49	90	90	110	110
	heating	49	49	90	90	110	110
Dimensions (HxWxD)	mm	600x1,000x222		600x1,140x222		600x1,420x222	
Weight	kg	25		30		36	
Colour		ivory white					
Air flow rate (H/L)	m ³ /min	7/6	7/6	8/6	11/8.5	14/11	16/12
Sound pressure level (H/L)(220V)	dB(A)	35/32	35/32	35/32	38/33	39/34	40/35
Sound power level	dB(A)	*	*	*	*	*	*
Refrigerant type		R-410A					
Piping connections	liquid/gas	mm		ø6.4/ø12.7		ø9.5/ø15.9	
Air filter		resin net with mold resistant					
Power supply	VE	1 ~, 50Hz, 220-240V					

- Notes:
- Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal)
 - Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal)
 - Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 - *Data were not available at time of publication

ACCESSORIES

FXLQ-MA		20	25	32	40	50	63
Wired remote control		BRC1D52, BRC2C51, BRC3A61					
Infrared remote control	cooling only	BRC4C64					
	heat pump	BRC4C62					
Long life replacement filter		KAFB61K28		KAFB61K45		KAFB61K71	





Concealed floor standing unit

FXNQ-MA			20	25	32	40	50	63	
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	
Nominal input	cooling	W	49	49	90	90	110	110	
	heating	W	49	49	90	90	110	110	
Dimensions (HxWxD)		mm	600x1,000x222		600x1,140x222		600x1,420x222		
Weight		kg	25		30		36		
Casing			ivory white						
Air flow rate (H/L)		m ³ /min	7/6	7/6	8/6	11/8.5	14/11	16/12	
Sound pressure level (H/L)(220V)		dB(A)	35/32	35/32	35/32	38/33	39/34	40/35	
Sound power level		dB(A)	*	*	*	*	*	*	
Refrigerant type			R-410A						
Piping connections	liquid/gas	mm	ø6.4/ø12.7					ø9.5/ø15.9	
Air filter			resin net with mold resistant						
Power supply		VE	1~, 50Hz, 220-240V						

Notes: • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB • outdoor temperature: 35°CDB • equivalent refrigerant piping: 7.5m (horizontal)
 • Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 7.5m (horizontal)
 • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat
 • *Data were not available at time of publication

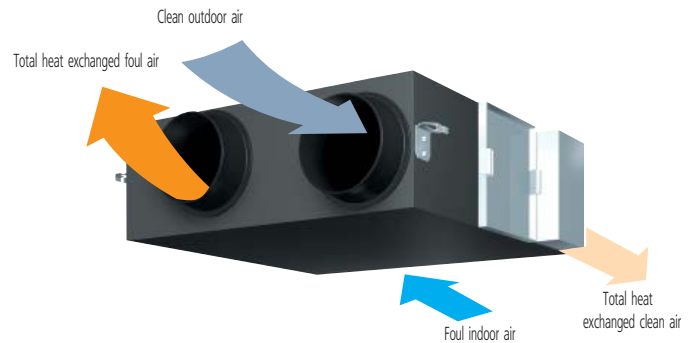
ACCESSORIES

FXNQ-MA			20	25	32	40	50	63
Wired remote control			BRC1D52, BRC2C51, BRC3A61					
Infrared remote control	cooling only		BRC4C64					
	heat pump		BRC4C62					
Replacement long life filter			KAFJ361K28		KAFJ361K45		KAFJ361K71	



1. VAM-FA7

The Daikin heat recovery ventilation system modulates the temperature and humidity of incoming fresh air to match indoor conditions. A balance is thus achieved between indoor and outdoor ambients, enabling the cooling or heating load placed on the air conditioning system to be reduced significantly. HRV units can be controlled individually or integral with the air conditioning system (Daikin VRV or Sky Air series).



- 9 models to choose from
- Compact, energy saving ventilation
- Specially developed heat exchange element with HEP (High Efficiency Paper)
- Easy integration into the VRV system
- Connectable to current Daikin control systems :

DS-net

Intelligent Controller

Intelligent Manager

BACnet Gateway

BMS-IF

VAM-FA

VENTILATION		VAM150FA	VAM250FA	VAM350FA	VAM500FA	VAM650FA	VAM800FA	VAM1000FA	VAM1500FA	VAM2000FA
Air flow rate	m/h	150	250	350	500	650	800	1,000	1,500	2,000
Sound pressure level (max.) (1)	dB(A)	27/28.5	28/29	32/34	33/34.5	34.5/35.5	36/37	36/37	39.5/41.5	40/42.5
External static pressure (max.)	Pa	69	64	98	98	93	137	157	137	137
Temperature exchange efficiency	%	74	72	75	74	74	74	75	75	75
Enthalpy exchange efficiency	heating	%	58	58	61	58	58	60	61	61
	cooling	%	64	64	65	62	63	65	66	66
Dimensions	H	mm	269	269	285	285	348	348	348	710
	W	mm	760	760	812	812	988	988	988	1,498
	D	mm	509	509	800	800	852	852	1,140	852
Weight	kg	24	24	33	33	48	48	61	132	158
Duct diameter	mm	Ø 100	Ø 150	Ø 150	Ø 200	Ø 200	Ø 250	Ø 250	Ø 350	Ø 350
Power supply	VE	1 ~, 50Hz, 220-240V								

(1) Sound pressure level is measured in heat exchange mode.



2. VKM-GA

- Heat purge (economiser): heat accumulated indoors is discharged at night
- Integration of air conditioning into HRV unit
- Increased static pressure thanks to improved fan performance
- Combined control with a standard VRV Indoor Unit and shared BRC1D52 remote controller
- Connectable to current Daikin control systems:



DS-net

Intelligent Controller

Intelligent Manager

BACnet Gateway

MS-IF

VKM-GA

VENTILATION & DX COIL			VKM50GA	VKM80GA	VKM100GA
Fresh air conditioning load	cooling	kW	4.71	7.46	9.12
	heating	kW	5.58	8.79	10.69
Air flow rate	ultra high - high - low	m/h	500 - 500 - 440	750 - 750 - 640	950 - 950 - 820
Sound pressure level - 220V	ultra high - high - low	dB(A)	38 - 36 - 33.5	40 - 37.5 - 34.5	40 - 38 - 35
Sound pressure level - 240V	ultra high - high - low	dB(A)	39 - 37 - 35.5	41.5 - 39 - 37	41 - 39 - 36.5
Static pressure	ultra high - high - low	Pa	180 - 150 - 110	170 - 120 - 80	150 - 100 - 70
Temperature exchange efficiency	ultra high - high - low	%	76 - 76 - 77.5	78 - 78 - 79	74 - 74 - 76.5
Enthalpy exchange efficiency - cooling	ultra high - high - low	%	64 - 64 - 67	66 - 66 - 68	62 - 62 - 66
Enthalpy exchange efficiency - heating	ultra high - high - low	%	67 - 67 - 69	71 - 71 - 73	65 - 65 - 69
Dimensions	height	mm	387	387	387
	width	mm	1,764	1,764	1,764
	depth	mm	832	1,214	1,214
Weight		kg	96	109	114
Power supply		V1	1~, 220-240V, 50Hz		

User Friendly Control Systems

1. INDIVIDUAL CONTROL SYSTEMS

BRC4* BRC7*



Infrared remote control

Operation buttons: ON/OFF, timer mode start/stop, timer mode on/off, programme time, temperature setting, air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only), operating mode, fan speed control, filter sign reset, inspection / test indication

Display: Operating mode, battery change, set temperature, air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only), programmed time, inspection/test operation, fan speed

BRC2C51



Simplified remote control

Simple, compact and easy to operate unit, suitable for use in hotel bedrooms

Operation buttons: ON/OFF, operating mode selection, fan speed control, temperature setting

Display: Cool/heat changeover control, Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test/operation

BRC3A61



Simplified built-in remote control for hotel applications

Compact, user friendly unit, ideal for use in hotel bedrooms

Operation buttons: ON/OFF, fan speed control, temperature setting

Display : Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction

BRC1D52



Wired remote control

- Limit operation (min/max): room temperature is controlled within adjustable upper and lower limits. Limit operation can be activated manually or by schedule timer
- Real time clock: indicates real time and day
- Schedule timer:
 - It is possible to programme a weekly schedule timer
 - It is possible to programme the remote control for each day of the week.
 - Five day actions can be set as follows:
 - Set point: unit is switched ON and normal operation is maintained
 - OFF: unit is switched OFF
 - Limits: unit is switched ON and min/max control (cf. limit operation for more details)
- Home leave (frost protection): during occupants' absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
- Different levels of disabled buttons can be selected as follows:
 - **Level 1:** all buttons are accessible
 - **Level 2:** all buttons are disabled except for: ON/OFF, set temperature up/down, fan speed, cooling/heating mode, enable/disable schedule timer, air flow direction adjustment button
 - **Level 3:** all buttons are disabled except for: ON/OFF, set temperature up/down, fan speed
- User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- Constantly monitoring of the system for malfunctions in a total of 80 components
- Immediate display of fault location and condition
- Reduction of maintenance time and costs

Operation buttons: ON/OFF, timer mode start/stop, timer on/off, programmed time, temperature setting, air flow direction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test/operation

Display: Operating mode, Heat Recovery Ventilation (HRV) in operation, cool/heat changeover control, centralised control indication, group control indication, set temperature, air flow direction, programmed time, inspection/test operation, fan speed, clean air filter, defrost/hot start, malfunction



2. CENTRALISED CONTROL SYSTEMS

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 (up and down buttons are added for group selection)
- Control of HRV air flow direction and air flow rate
- Expanded timer function
- Malfunction code display
- 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)

DST301B51



Schedule timer

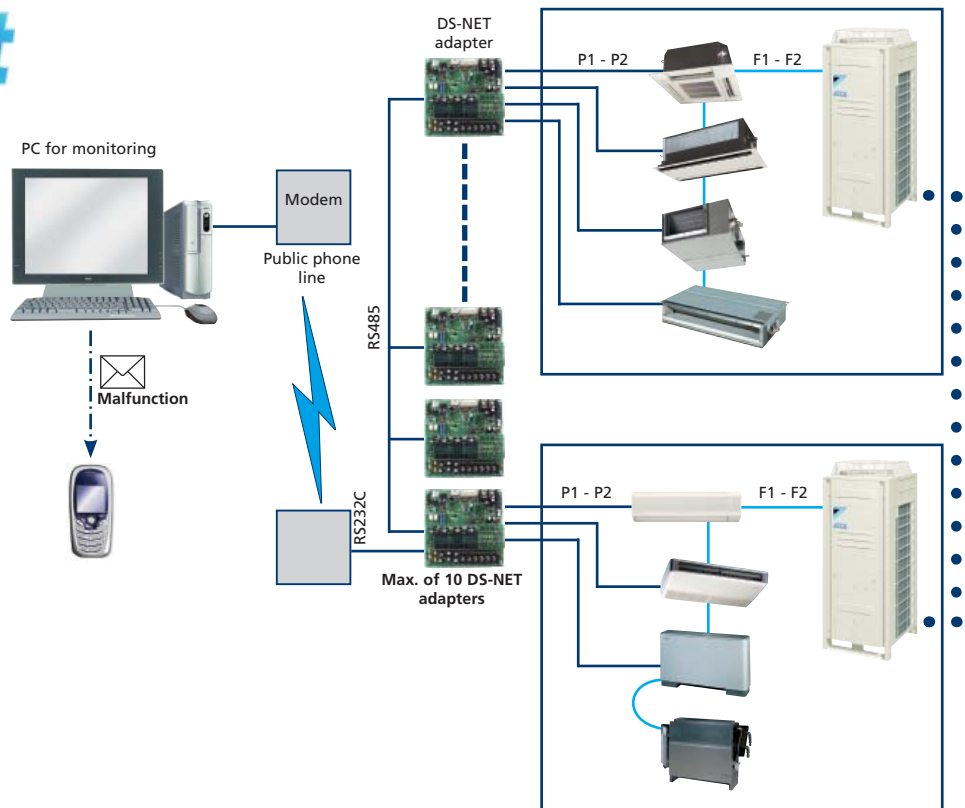
Enabling 64 groups to be programmed

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

3. NETWORK SOLUTIONS

DS-net

The ideal solution for control and management up to 2,000 indoor units



APPLICATION AREA

- A small commercial area of less than 40 indoor units.
- Critical applications for centralized monitoring.

SYSTEM LAYOUT

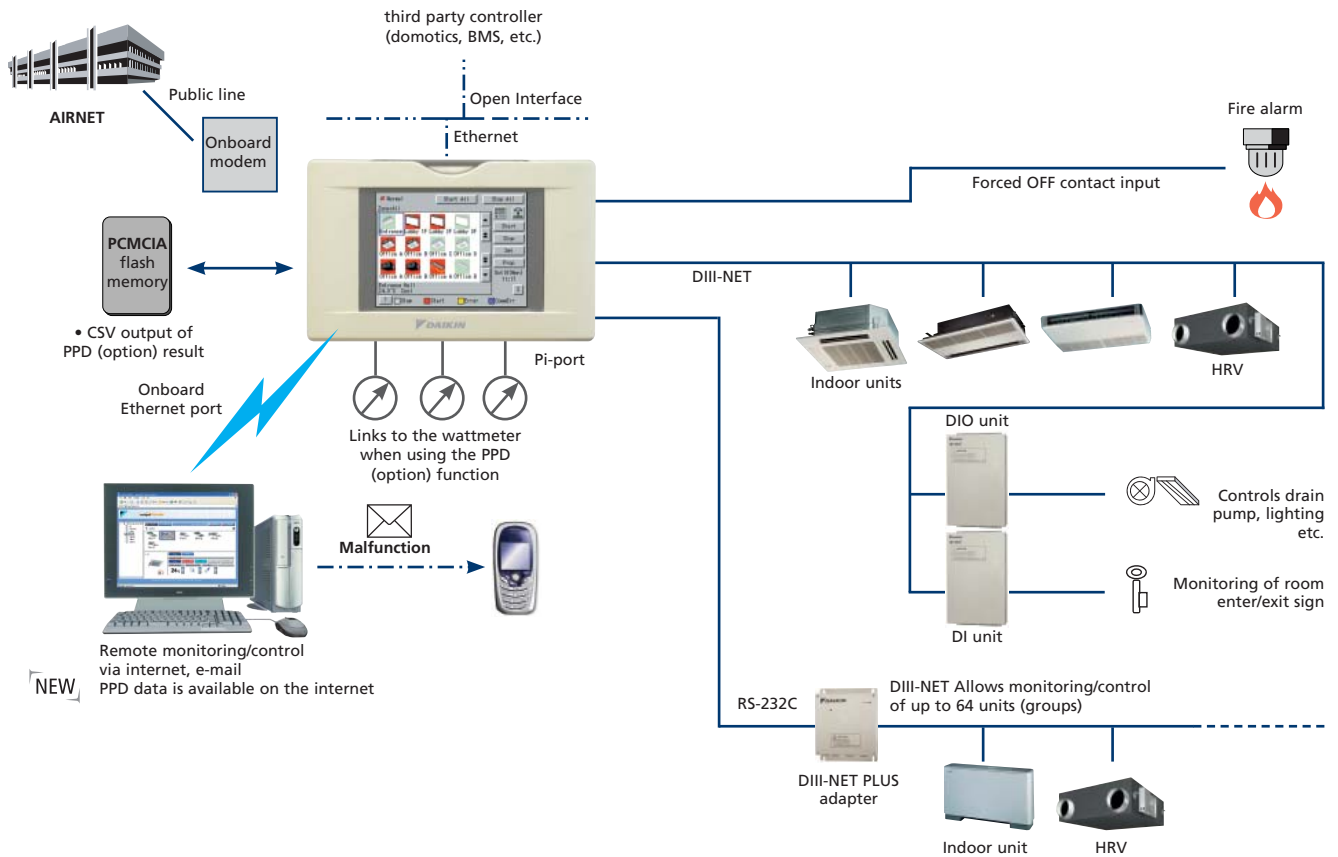
- Allows monitoring and control of up to up to 50 stores or sites and 2,000 indoor units with just one modem and phone line.
- Automates daily air conditioning operation in order to free users from the hassle of air conditioning operation/management.
- The daily schedule setting allows automatic operation afterward.
- Automates alarm (report messages) for any malfunctions/errors. Immediate report of any indoor unit breakdown to the servicing company.
- Automatic report of breakdown/ malfunction information.
- Minimizes the inconvenience of not having air conditioning via rapid messages

FUNCTIONS

- Schedule setup (Daily schedule)
 - Start/stop
- A/C malfunction report
 - Send message to monitoring system
- Manual operation
 - Start/Stop, set temperature, operation mode, fan speed
- Status monitoring
 - Start/Stop, set temperature,
 - Operation mode, room temperature, operation time, error code

touch intelligent Controller

Allows detailed and easy monitoring and operation of VRV systems (max. 2 x 64 control groups)



LANGUAGES

English, French, German, Italian, Spanish

SYSTEM LAYOUT

- Up to 2 x 64 indoor units can be controlled
- Onboard Ethernet port (web browser & e-mail)
- Digital i/o contacts (option)
- Touch panel (full colour LCD via icon display)

MANAGEMENT

- Web application & internet compatibility
 - Monitoring & control according to user
 - Remote monitoring & control of more than one building
 - Remote monitoring & control of more than one building via internet
- Power Proportional Distribution (option)
- NEW → PPD data is available on the internet
- Easy management of electricity consumption
- Enhanced history function

CONTROL

- Individual control (set point, start / stop, fan speed) (max. 2 x 64 indoor units/groups)
- Schedule control (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 changeover
- Quick selection and full control
- Simple navigation
- Heating optimization
- Temperature limit
- Password security: 3 levels
(general, administration & service)

MONITORING

- Visualisation via Graphical User Interface (GUI)
- Icon colour display change function
- Indoor units operation mode
- Error messages via e-mail & mobile phone (option)
- Indication filter replacement
- Multi PC

COST PERFORMANCE

- 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.

CONNECTABLE TO

- VRV
- HRV
- Sky Air (via interface adapter)
- Split (via interface adapter)

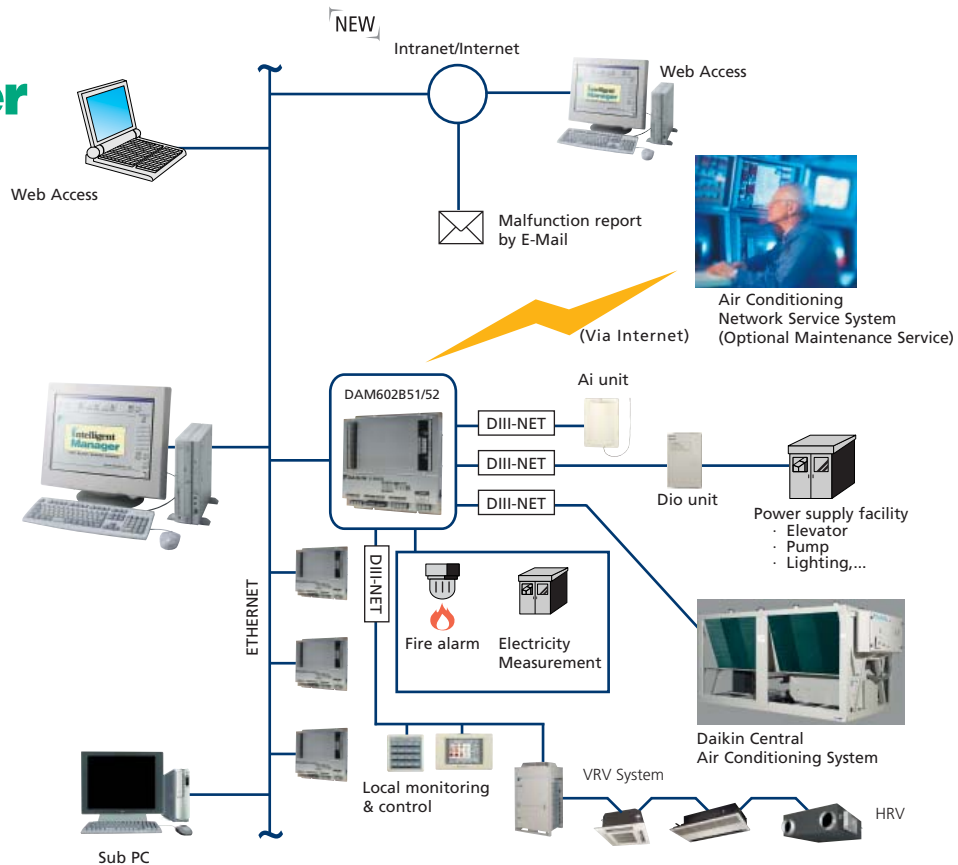


Intelligent Manager

The ideal solution for control and management of maximum 1,024 VRV indoor units

SYSTEM LAYOUT

- Up to 1,024 indoor units can be controlled (by 4 iPUs)
- Ethernet TCP/IP / 10 base / T communication
- Integrated digital contacts on the Intelligent Processing Unit (iPU)
 - 19 general input ports
 - 2 digital outputs
- Stand alone operation of the iPU for minimum 48 hours
- Compatible with UPS shutdown software



MANAGEMENT

- Web access function (option)
- Power Proportional Distribution (option)
- Operational history management (start/stop, malfunction, operation hours)
- Generation of reports (graphics & tables) (daily, weekly, monthly)
- Peak load shedding
- Advanced tenant management
- Sliding temperature
- Eco mode (option)

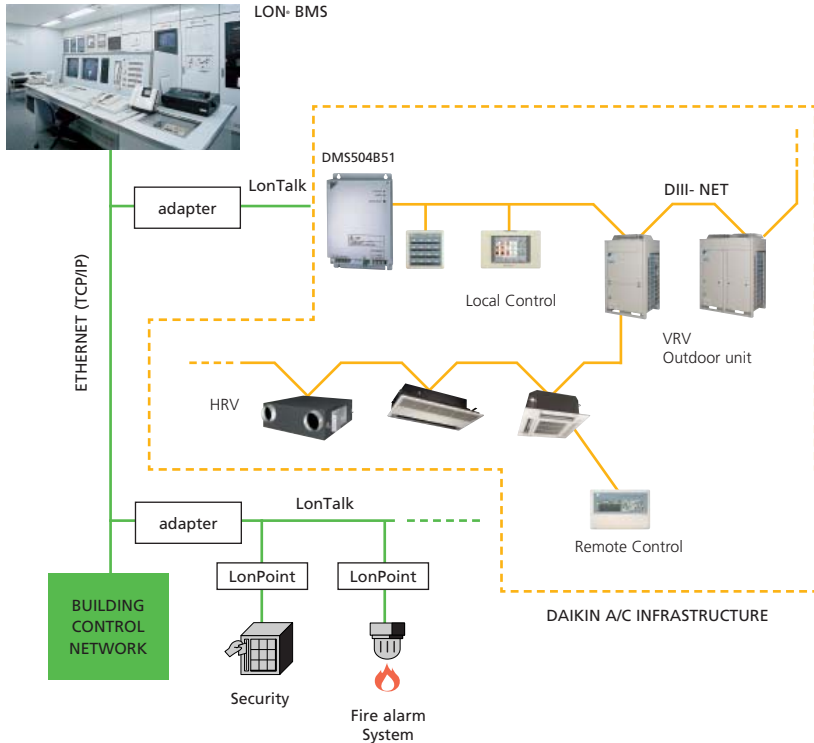
CONTROL

- Individual control (setpoint, start/stop, fan speed) (max. 1,024 indoor units)
- Group control (100 groups)
- Schedule control (128 programs)
- Fire emergency stop control (32 programs)
- Interlocking control
- Setpoint limitation
- Automatic cooling heating changeover
- Power failure/release control
- Temperature limit (automatic start)
- Timer extension

MONITORING

- Visualisation via a Graphical User Interface (GUI) featuring free layout
- Operation mode of indoor & outdoor units
- Fault indication
- Indication filter replacement
- Setpoint indication
- Operation time monitoring
- Multi PC
- On-line help





DMS-IF

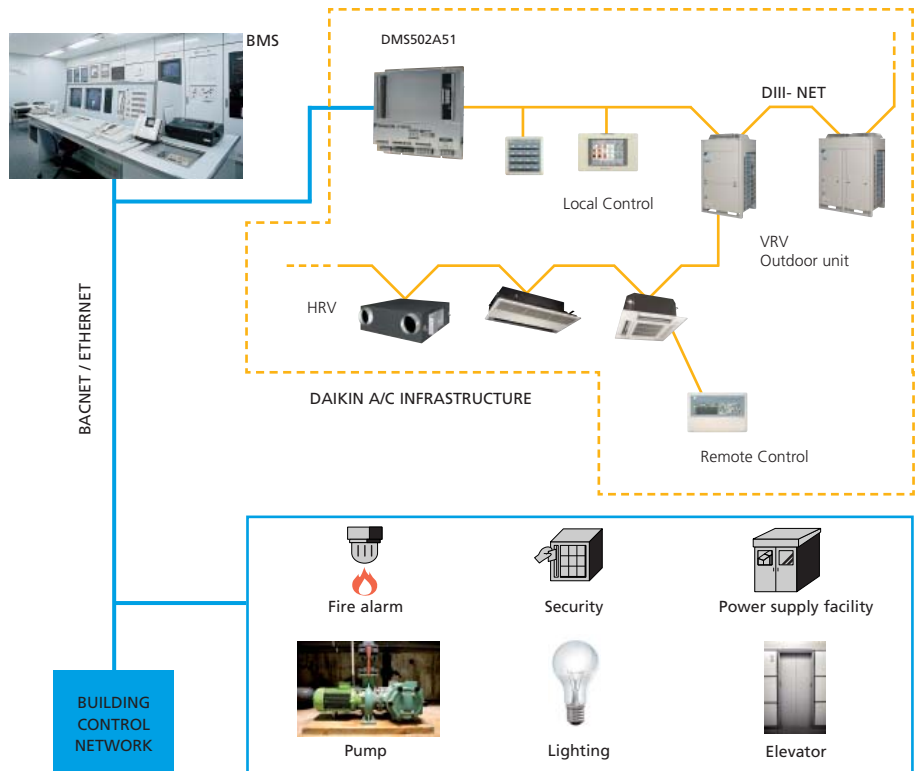
LonWorks® Networks Compatible Gateway

- Interface for connection to LonWorks® networks
- Communication via Lon® protocol (twisted pair wire)
- 64 units connectable per DMS-IF
- Unlimited site size
- Quick and easy installation

BACnet Gateway

Integrated control system connecting VRV system with BMS system

- NEW**
- PPD data is available on BMS-system
 - Interface for BMS system
 - Communication via BACnet protocol (connection via Ethernet)
 - 256 units connectable per BACnet gateway
 - Unlimited site size
 - Easy and fast installation



4. ACCESSORIES

• INDIVIDUAL CONTROL SYSTEMS

DESCRIPTION	FXFQ	FXZQ	FXCQ	FXKQ	FXDQ	FXDQ-N	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXLQ	FXNQ	
Wired remote control	BRC1D52													
Infrared remote control	cooling only	BRC7F533	BRC7E531	BRC7C67	BRC4C63	BRC4C64	BRC4C64	BRC4C64	BRC4C64	BRC7C529	BRC7E66	BRC7E619	BRC4C64	BRC4C64
	heat pump	BRC7F532	BRC7E530	BRC7C62	BRC4C61	BRC4C62	BRC4C62	BRC4C62	BRC4C62	BRC7C528	BRC7E63	BRC7E618	BRC4C62	BRC4C62
Simplified remote control	-	-	-	-	BRC2C51	BRC2C51	BRC2C51	BRC2C51	-	-	-	BRC2C51	BRC2C51	
Simplified remote control for hotel use	-	-	-	-	BRC3A61	BRC3A61	BRC3A61	BRC3A61	-	-	-	BRC3A61	BRC3A61	

• CENTRALISED CONTROL SYSTEMS

DESCRIPTION	FXFQ	FXZQ	FXCQ	FXKQ	FXDQ	FXDQ-N	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXLQ	FXNQ
Centralised remote control	DCS302C51												
Unified ON/OFF control	DCS301B51												
Schedule timer	DST301B51												

• OTHERS

DESCRIPTION	FXFQ	FXZQ	FXCQ	FXKQ	FXDQ	FXDQ-N	FXSQ	FXMQ	FXUQ	FXHQ	FXAQ	FXLQ	FXNQ
Wiring adapter	-	KRP1B57*1	-	KRP1B61	KRP1B61	KRP1B56	-	KRP1B61	KRP4A53	KRP1B3	-	KRP1B61	KRP1B61
Wiring adapter (hour meter)	EKRP1C11*1	-	EKRP1B2	-	EKRP1B2*2	-	EKRP1B2	-	-	-	-	-	-
Wiring adapter for electrical appendices (1)	KRP2A526*1	KRP2A526*1	KRP2A516*1	KRP2A61	KRP2A516	KRP2A53	KRP2A516	KRP2A61	-	KRP2A62*	KRP2A51	KRP2A51	KRP2A51
Wiring adapter for electrical appendices (2)	KRP4A453*1	KRP4A536*1	KRP4A516*1	KRP4A51	KRP4A516	KRP4A54	KRP4A516	KRP4A51	-	KRP4A52*	KRP4A51	KRP4A51	KRP4A51
Remote sensor	KRCS01-4	KRCS01-1											
Installation box for adapter PCB	KRP1H98	KRP1BA101	KRP1B96*3/4	-	-	KRP1BA101	-	-	KRP1B97	KRP1C93*3	KRP4A93*3/4	-	-
Electrical box with earth terminal (3 blocks)	-	KJB311A											
Electrical box with earth terminal (2 blocks)	KJB212AA	KJB212A											
Noise filter (for electromagnetic interface only)	-	KEK26-1A											
External control adapter	-	DTA104A52	DTA104A51*1	DTA104A61	DTA104A51	DTA104A53	DTA104A51	DTA104A61	-	DTA104A62	DTA104A51	DTA104A61	DTA104A61
Interface adapter for Sky Air series	-	-	-	-	-	-	-	-	DTA102A52	-	-	-	-
Connector for forced on/forced off	-	-	-	-	-	-	-	-	EKRORO	-	-	-	-

Notes: • *1: Installation box is required • *2: Fixing box is KRP1A90 • *3: Up to 2 adapters can be fixed per installation box • *4: Only 1 installation box can be installed per indoor unit



DS-net adapter	DTA113B51	4 units can be connected per adapter, 40 units when 10 adapters are connected
Software	DPC001B1-B51	Monitoring panel software



DESCRIPTION	REFERENCE	COMMENTS
Intelligent Touch Controller	DCS601C51	2x64 units can be connected
Software	DCS002C51	Power Proportional Distribution (PPD) software
	DCS004A51	E-mail / Web software
Hardware	DCS601A52	DIII NET-Plus adapter
Installation box	KJB411A	For wall mounted installation
Touch-Pen	1264009	Spare part n° of Touch-Pen for Intelligent Touch Controller
Interface adapters	KRP928A2S	For connection to Split units
	DTA102A52	For connection to R-22 / R-407C Sky Air units
	DTA112B51	For connection to R-410A Sky Air units
Digital input	DEC101B51	Input contacts: 16 points
Digital input/output	DEC102B51	Input contacts: 8 points; output contacts: 4 points

• Intelligent Manager

DESCRIPTION	REFERENCE	COMMENTS
Intelligent Processing unit	DAM602B51	256 indoor units per IPU
	DAM602B52	128 indoor units per IPU
Software	IM3.XX	Up to 1,024 indoor units
Interface adapters	KRP928A2S	For connection to Split units
	DTA102A52	For connection to R-407C/R-22 Sky Air units
	DTA112B51	For connection to R-410A Sky Air units
DIII Ai	DAM101A51	Outdoor temperature sensor
Digital input	DEC101B51	Input contacts: 16 points
Digital input/output	DEC102B51	Input contacts: 8 points; output contacts: 4 points

• DMS-IF

DESCRIPTION	REFERENCE	COMMENTS
LowWorx+ networks compatible Gateway	DMSS04B51	Up to 64 units can be connected per DMS-IF
Interface adapters	KRP928A2S	For connection to Split units
	DTA102A52	For connection to R-407C/R-22 Sky Air units
	DTA112B51	For connection to R-410A Sky Air units

• BACnet Gateway

DESCRIPTION	REFERENCE	COMMENTS
BACnet Gateway	DMSS02B51	64 units per Gateway
DIII board	DAM411B51	Extension of 3 x DIII lines (3 x 64) indoor units
Digital input/output	DAM412B51	For forced shutdown
Interface adapters	KRP928A2S	For connection to Split units
	DTA102A52	For connection to R-407C/R-22 Sky Air units
	DTA112B51	For connection to R-410A Sky Air units

• BMS: BUILDING MANAGEMENT SYSTEM

DESCRIPTION	REFERENCE	COMMENTS	
Contact / analog signal	DPF201A51	enables ON/OFF command, operation and display of malfunction can be used in combination with up to 4 units.	
	DPF201A52	enables temperature measurement output for 4 groups; 0 ~ 5VDC»	
	DPF201A53	enables temperature setting input for 16 groups; 0 ~ 5VDC.»	
	DCS302A52	used for combining of air conditioning control computer and central remote controller (ON/OFF, display)	
	Wiring adapter for electrical appendices (1)	KRP2A51	simultaneously controls air conditioning control computer and up to 64 groups of indoor units.
		KRP2A52	
Wiring adapter for electrical appendices (2)	KRP4A51-53	to control the group of indoor units collectively, which are connected by the transmission wiring of remote controller.	
	DTA104A51	cooling/heating mode change over, demand control and low noise control are available between the plural outdoor units.	
External control adapter for outdoor unit	DTA104A52		
DIII-net expander adapter	DTA109A51	a maximum of 10 outdoors or 128 indoors can be connected to 1 DTA109A51	
		a maximum of 8 DTA109A51 can be connected to DIII-net	
Mounting kit	KRP4A92	for easy installation of the DTA109A51	

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Daikin units comply with the European regulations that guarantee the safety of the product.

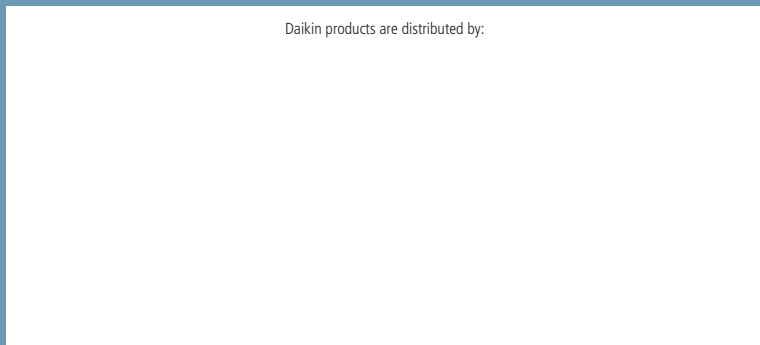


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