



## 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.

### 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.

**Environmental** Awareness

#### **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 VRVIII 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 VRVIII's high efficiency, lower running costs are a welcome benefit to the end user.

In all of us, a green heart



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- $\rightarrow$  **S**pace saving
- → Small capacity
- $\rightarrow$  **S**lim design
- → Silent operation
- $\rightarrow$  Super wide range of indoor units



## 1. WIDE APPLICATION RANGE

#### • VRVIII-S OUTDOOR UNIT RANGE



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VRVIII-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: Connection ratio: Possible outdoor unit: FXCQ25 + FXFQ50 + FXDQ25 + FXDQ50 25 + 50 + 25 + 50 = 150 RXYSQ5PV



#### • FLEXIBLE PIPING DESIGN

The VRVIII-S provides the long piping length possibility of  $150m^1$  (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  $50m^2$ .

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 VRVIII-S can be combined with **13 different indoor unit models** in a total of **73 variations**.







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Floor standing unit -

	INDOOR UNITS		20	25	32	40	50	63	71	80	100	125
NEW	Roundflow ceiling mounted cassette	FXFQ	X	X	X	X	X	X		X	Х	Х
	600x600 4-way blow ceiling mounted cassette	FXZQ	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
	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				



## **Concealed floor standing unit**



Ceiling suspended unit





Wall mounted unit

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



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#### • 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<sup>2</sup> after the peak temperature in the daytime and operation will return to normal after 9 hours<sup>2</sup>.

→ 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	Treshold of hearing	-
20	Extremely soft	Rustling leaves
40	Very soft	Quiet room
60	Moderately loud	Normal conversation
80	Very loud	City traffic noise
100	Extremely loud	Symphonic orchestra
120	Threshold of feeling	Jet taking off

Daikin indoor units



#### • 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 res	istance 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





## 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 VRVIII-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.





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## 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**

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## 1. VRVIII-S TECHNOLOGY

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



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

			DC fan motor structure
ICY (%)	80	Approx. 20% increase	
Efficien	60	DC motor	
	40	AC motor	
	20	Approx, 40%	/ magnet
	0 20	increase	
	r T	Motor speed (rpm) Note: Data are based on studies conducted under cor	ntrolled conditions at a Daikin laboratory

**S**UPER AERO GRILLE

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

DC motor efficiency



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



#### 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.

overall turbulence.

(comparison with a conventional AC motor)

technology



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.



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## 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.



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.



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





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



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	cooling	m/min	106	106	106			
	(nominal at 230V)	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	dBA	66	67	69			
		sound pressure	dBA	50	51	53			
	heating	sound pressure	dBA	52	53	55			
Refrigerant	type				R-410A				
	charge		kg	4.0	4.0	4.0			
	control				expansion valve (electronic type)				
Refrigerant Oil	type				daphne FVC68D				
	charged Volume		1	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)	19.1 (Braze)			
	heat Insulation				both liquid and gas pipes				
	max. total length		m	300	300	300			
Safety devices				HPS, fan m	otor 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	KKPJSF180

# Indoor Units

## **1.** FEATURES



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

### 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%

#### $\label{eq:Flexible} Flexible \mbox{ installation and easy maintenance}$

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









20-25-32-40-50



### EXAMPLES OF AIRFLOW PATTERNS



2-Way Flow

#### 4-WAY BLOW CEILING MOUNTED CASSETTE (600MMX600MM)

#### Comfort

- $\rightarrow$  Modern style decoration panel in white (RAL9010)
- $\rightarrow$  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
- $\rightarrow$  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  $\rightarrow$ flow and temperature distribution
- Anti-ceiling soiling technology  $\rightarrow$

#### 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  $\rightarrow$
- → Detachable swing flaps





**FXKQ-MA** 

20-32-40-63

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  $\rightarrow$ air flow and temperature distribution



Note: Standard setting when shipped.

Air flow by either downward air discharge,  $\rightarrow$ 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)
- $\rightarrow$ Drain-up pump with 500mm lift fitted as standard









20-25





20-25-32-40-50-63

#### SMALL CONCEALED CEILING UNIT

#### COMFORT

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

#### FILTER

 $\rightarrow$  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
- $\rightarrow$  For easy mounting, the drain pan can be located to the left or the right of the unit

#### SLIM CONCEALED CEILING UNIT

#### COMFORT

- $\rightarrow$  Quiet in operation
- → Blends unobtrusively with any interior décor
- $\rightarrow\,$  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





Min. 350mm

00

### 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
- $\rightarrow\,$  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
- $\rightarrow~$  The switch box can be reached from the side or from the bottom side of the unit for easy servicing

#### 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
- $\rightarrow$  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





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





40-50-63-80-100-125







20-25-32-40-50-63





32-63-100

#### 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 MAINTANCE

- → 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

#### **C**EILING SUSPENDED UNIT

#### COMFORT

- $\rightarrow$  Quiet in operation
- → Leaves maximum floor and wall space for furniture, decorations and fittings



0° Cooling

70° Heating



 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 MAINTENANCE

- → 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

indoor units

#### 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
- $\rightarrow$  Air can be discharged at 5 different angles between 0 and 60 degrees



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

#### FILTER

 $\rightarrow~$  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





71-100-125









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#### main features



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

Wall mounted

On site connection during installation is easier

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

The fibreless discharge grille prevents condensation and

Floor standing





20-25-32-40-50-63

#### CONCEALED FLOOR STANDING UNIT

#### COMFORT

staining

 $\rightarrow$ 

 $\rightarrow$ 

- → 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

#### **F**LEXIBLE INSTALLATION

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





**FXFQ-P** 

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#### 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	
rower input	heating		kW		0.045		0.055	0.067	0.114	0.108	0.176	0.246
Dimensions	(H x W x D)		mm			204x8	340x840			246x8	340x840	288x840x840
Weight	unit		kg		2	20.0		2	1.0	2	4.0	26.0
Casing								Galvanised steel				
Air Elaw Pata	cooling	high/low	m³/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
All Flow Rate	heating	high/low	m³/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		dBA		49		50	51	52	55	58	61
Cound processo	cooling	high/low	dBA		31/28			33/28	34/29	38/32	41/33	44/34
sound pressure	heating	high/low	dBA		31/28		32/28	33/28	36/30	38/32	42/34	44/34
Refrigerant	name							R-410A				
Power Supply								1~/220-240V/50	Hz			
Piping Connections	L/G/D	diameter	mm	6.35/12.7/32		6.4/1	12.7/32			9.5/	15.9/32	
Air Filter							Re	esin net with mold resis	tance			
Drain-up Height			mm					750				
	model							BYCQ140CW1				
Decoration Danal	colour				RAL9010							
Decolation Patiel	(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 wich a sound source generates.

Nominal cooling capacities are based on : indoor temperature : 270CDB, 1900CWB, outdoor temperature : 350CDB, 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	20 25 32 40 50 63 80							
Wired remote control		BRC1D52								
Infrared remote control	cooling only				BRC	7F533F				
	heat pump				BRC	7F532F				
Decoration panel					BYCQ	140CW1				
Replacement long life filter (non-wover	type)				KAFP	551K160				
Fresh air intake kit (20% fresh air inta	<li>(chamber type)</li>		KDDQ5C140							
Air discharge outlet sealing member		KDBHQ55C140								





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

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FXZQ-M8			20	25	32	40	50				
Cooling capacity		kW	2.2	2.8         3.6         4.5         5.6           3.2         4.0         5.0         6.3           73         76         89         115           64         68         80         107           286x575x575           18           galvanised steel plate           9.0/7.0         9.5/7.5         11.0/8.0         14.0/10.0           30/25         32/26         36/28         41/33           47         49         53         58           R-410A         e6.4/o12.7         resin net with mold resistant         54							
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	8 80					
Dimensions (HxWxD)		mm			286x575x575						
Weight		kg			18						
Casing			galvanised steel plate								
Air flow rate (H/L)		m/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)(2	20V)	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°CVB • outdoor temperature: 35°CDB • equivalent piping length: 75m (horizontal) • Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CVIB • equivalent piping length: 75m (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								



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## FXCQ-M8



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		305x9	95x600	305x1,180x600	305x1,6	570x600		
Weight		kg		26		31	32	35	47	48		
Casing						galvanised	steel plate					
Air flow rate (H/L)		m³/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	38/33 40/35 45			
Sound power level		dB(A)	45	50	50	50	50	52	54	60		
Refrigerant type						R-4	10A					
Piping connections	liquid/gas	mm			ø6.4/ø12.7				ø9.5/ø15.9			
Air filter						resin net with	mold resistant					
Drain-up height		mm				6	00					
Power supply		V3				1~, 50	Hz, 230V					
Decoration panel	dimensions (HxWxD)	mm		53x1,030x680		53x1,2	45x680	53x1,430x680	53x1,9	20x680		
weight kg 8 8.5				9.5	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		Bì	′BC50G	BYBC63G	BYBC125G			
High efficiency filter 65% *1			KAFJ532G36		KAF	J532G56	KAFJ532G80	KAFJ532G160			
High efficiency filter 90% *1		KAFJ533G36 KAFJ533G56 KAFJ533G80 KAFJ5									
Filter chamber for bottom suction	for bottom suction KDDFJ53G36 KDDFJ53G56 KDDFJ53G80 KDDFJ53G							KDDFJ53G160			
Replacement long life filter         KAFJ531G36         KAFJ531G56         KAFJ531G80         KAFJ531G80						KAFJ531G160					

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









Ceiling mounted corner cassette

#### FXKQ-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-4	10A	
Piping connections	liquid/gas	mm		ø6.4/ø12.7		ø9.5/ø15.9
Air filter				resin net with	mold resistant	
Drain-up height		mm		50	00	
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°CD8, 19°CWB • outdoor temperature: 35°CDB • equivalent refigerant piping: 7.5m (horizontal) • Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CMB • equivalent refigerant piping: 7.5m (horizontal) • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat • "bata were not available at time of publication

## ACCESSORIES

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







Small concealed ceiling unit

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#### FXDQ-M8 20 25 Cooling capacity 2.2 2.8 kW 2.5 Heating capacity kW 3.2 cooling W 50 Nominal input heating W 50 Dimensions (HxWxD) 230x502x652 mm Weight kg 17 Casing galvanised steel plate 6.7/5.2 7.4/5.8 Air flow rate (H/L) m/min Sound pressure level (H/L) dB(A) 37/32 Sound power level dB(A) 50 R-410A Refrigerant type Piping connections liquid/gas mm ø6.4/ø12.7 Air filter resin net with mold resistant V3 1~, 50Hz, 230V Power supply

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, BRC2	C51, BRC3A61
Infrared remote control	cooling	BRC4	C64
	heating	BRC4	C62





FXDQ-P/NA



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 200					
Weight		kg	23 23 23 27 28 31					
Casing		galvanised steel plate						
Air flow rate (H/L)		m:/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)	×	*	*	*	ż	*
Refrigerant type					R-4	10A		
Drain-up height		mm			7	50		
Piping connections	liquid/gas	mm	n ø6.4/ø12.7 ø9.5/ø15.5					
Air filter			removable, washable, mildew proof					
Power supply		VE			1~, 50Hz	, 220-240V		

Notes: • Nominal cooling capacities are based on: • Indoor temperature: 27°CDB • Outdoor temperature: 35°CDB • Equivalent piping length: 7.5m (horizontal) • Nominal heating capacities are based on: • Indoor temperature: 20°CDB • Outdoor temperature: 7°CDB • 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 methoded 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			BRC	4C64				
	heat pump			BRC	4C62				



FXSQ-M8



#### 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:/min	9/6.5	9/6.5	9.5/7	11.5/9	15/11	21/15.5	21/15.5 27/20 28/20.5 38/			
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	lø15.9		
Air filter						resi	n net with mold resis	tant				
Drain-up height		mm					625					
Power supply		V3					1~, 50Hz, 230V					
Decoration panel	dimensions (HxWxD	)		55x650x500		55x80	0x500	55x1,100x500	5x1,100x500 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: Om • Nominal heating capacities are based on: indoor temperature: 20°CDB • outdoor temperature: 7°CDB, 6°CWB • equivalent refrigerant piping: 8m • level difference: Om • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat • The sourd persure values are mentioned for a unit instaled with rear suction

## ACCESSORIES

FXSQ-M8		20	25	32	40	50	63	80	100	125		
Wired remote control					BRC	BRC1D52, BRC2C51, BRC3A61						
Infrared remote control	cooling only		BRC4C64									
	heat pump		BRC4C62									
Decoration panel			BYBS32D		BYE	S45D	BYB571D		BYBS125D			
Service access panel		KTBJ25K36W KTBJ25K56W KTBJ25K80W KTBJ25K160W										
High efficiency filter 65% *1			KAFJ252L36		KAFJ2	152L56	KAFJ252L80		KAFJ252L160			
High efficiency filter 90% *1			KAFJ253L36		KAFJ2	153L56	KAFJ253L80		KAFJ253L160			
Filter chamber for bottom suction			KAJ25L36D		KAJ2	5L56D	KAJ25L80D		KAJ25L160D			
Filter chamber rear suction			KAJ25L36B		KAJ2	5L56B	KAJ25L80B		KAJ25L160B			
Air suction canvas		KSA-25K36 KSA-25K56 KSA-25K80 KSA-25K160										
Screening door/blind board		KBB125K36 KBB125K56 KBB125K80 KBB125K160										
Air discharge adapter for round duct			KDAJ25K36		KDAJ	25K56	KDAJ25K71		KDAJ25K140			

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







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	W	211	211	211	284	411	619	
	heating	W	211	211	211	284	411	619	
Dimensions (HxWxD)		mm		390x72	20x690		390x1,1	10x690	
Weight kg		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-4	10A			
Piping connections	liquid/gas	mm	ø6.4/ø	ø12.7		ø9.5/ø	915.9		
Air filter				cf. note 4					
Power supply		VE			1~, 50Hz,	220-240V			

Notes: • Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CVB • 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°CVB • equivalent refrigerant piping: 7.5m (horizontal) • Capacities are net, including a deduction for cooling (an addition for heating) for indoor fam motor heat • The ari filter s not a standard accessor, 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-3	OL125					
High efficiency filter 65%			KAFP372A80			KAFP372A160			
High efficiency filter 90%			KAFP373A80		KAFP373A160				
Filter chamber		KDDFP37A80 KDDFP37A160							
Replacement long life filter			KAFP371A80		KAFP371A160				







Wall mounted unit

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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	W	16	22	27	20	27	50	
	heating	W	24	27	32	20	32	60	
Dimensions (HxWxD)		mm 290x795x230 290x1,050x230							
Weight kg				11 14					
Colour					wł	nite			
Air flow rate (H/L)		m³/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-4	10A			
Piping connections	liquid/gas	mm		o6.4/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	20 25 32 40 50 63						
Wired remote control				BRC	1D52				
Infrared remote control	cooling only	BRC7E619							
	heat pump	BRC7E618							
Drain pump kit		K-KDU572DVE							









#### 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	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°CD8, 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	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				





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#### 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		
Sound power level (H)		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	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		KDGI49F80 KDGI49F140							
Replacement long life filter			KAFJ495F140						
L-type connection piping kit		KHFP49IM63	KHFP49M140						

## JUNCTION BOX FOR CONNECTION TO VRV

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





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	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		kg	2	25 30			3	6	
Colour	Colour			ivory white					
Air flow rate (H/L)		m₂/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-4	10A			
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 feat • "Data were not available at time of publication

## ACCESSORIES

FXLQ-MA	20	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	KAFJ3	61K28	KAFJ3	61K45	KAFJ36	51K71		





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)	Dimensions (HxWxD) mm 600x1,000x222 600x1,140x222		600x1,4	20x222				
Weight kg		kg	25 30			3	6	
Casing					ivory	white		
Air flow rate (H/L)		m³/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-4	10A		
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 K					51K71		



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## Ventilation

## 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 :



Intelligent Controller

Intelligent Manager

#### **BACnet** Gateway

**SMS-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)		dBA	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	61
	cooling	%	64	64	65	62	63	65	66	66	66
Dimensions	Н	mm	269	269	285	285	348	348	348	710	710
	W	mm	760	760	812	812	988	988	988	1,498	1,498
	D	mm	509	509	800	800	852	852	1,140	852	1,140
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	F 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

SMS-IF

#### VKM-GA

VENTILATION & DX CO	DIL		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	dBA	38 - 36 - 33.5	40 - 37.5 - 34.5	40 - 38 - 35			
Sound pressure level - 240V	ultra high - high - low	dBA	39 - 37 - 35.5	41.5 - 39 - 37	41 - 39 - 36.5			
Static pressure	ultra high - high - low	Ра	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

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## 1. INDIVIDUAL CONTROL SYSTEMS

BRC4*	Infrared remote control
BRC7*	<b>Operation buttons:</b> 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
A CONTRACT OF	<b>Display:</b> 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
	<b>Operation buttons:</b> ON/OFF, operating mode selection, fan speed control, temperature setting
	<b>Display:</b> 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/OFE for speed control temperature setting
· •	Operation buttons. OW/OFF, fan speed control, temperature setting
	<b>Display</b> : 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
- $\rightarrow$  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
	<ul> <li>Providing individual control of 64 groups (zones) of indoor units</li> <li>A maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled</li> <li>A maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations</li> <li>Zone control</li> <li>Group control (up and down buttons are added for group selection)</li> <li>Control of HRV air flow direction and air flow rate</li> <li>Expanded timer function</li> <li>Malfunction code display</li> <li>Maximum wiring length of 1,000m (total: 2,000m)</li> </ul>
DCS301B51	<ul> <li>Unified ON/OFF control</li> <li>Providing simultaneous and individual control of 16 groups of indoor units</li> <li>→ A maximum of 16 groups (128 indoor units) can be controlled</li> <li>→ 2 remote controls in separate locations can be used</li> <li>→ Operating status indication (normal operation, alarm)</li> <li>→ Centralised control indication</li> <li>→ Maximum wiring length of 1,000m (total: 2,000m)</li> </ul>
DST301B51	<ul> <li>Schedule timer</li> <li>Enabling 64 groups to be programmed</li> <li>→ A maximum of 128 indoor units can be controlled</li> <li>→ 8 types of weekly schedule</li> <li>→ A maximum of 48 hours back-up power supply</li> <li>→ Maximum wiring length of 1,000m (total: 2,000m)</li> </ul>

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## 3. NETWORK SOLUTIONS



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



#### **APPLICATION AREA**

- $\rightarrow$  A small commercial area of less than 40 indoor units.
- $\rightarrow$  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

#### **F**UNCTIONS

- → Schedule setup (Daily schedule)
  - Start/stop
- $\rightarrow$  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



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





#### LANGUAGES

English, French, German, Italian, Spanish

#### System layout

- $\rightarrow$  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)
- $NEW_{\downarrow} \rightarrow PPD$  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)
- $\rightarrow$  Flexible grouping in zones
- → Yearly schedule
- $\rightarrow$  Fire emergency stop control
- → Interlocking control
- $\rightarrow~$  Increased HRV monitoring and control function
- → Automatic cooling/heating changeover
- $\rightarrow$  Quick selection and full control
- $\rightarrow$  Simple navigation
- $\rightarrow$  Heating optimization
- $\rightarrow$  Temperature limit
- Password security: 3 levels
   (general, administration & service)

#### MONITORING

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

#### **C**OST PERFORMANCE

- → Labour saving
- → Easy installation
- → Compact design: limited installation space
- → Overall energy saving

#### **O**PEN INTERFACE

→ Communication to any third party controller (domotics, BMS, etc.) is possible via open interface.

#### **C**ONNECTABLE TO

- $\rightarrow$  VRV
- $\rightarrow$  HRV
- → Sky Air (via interface adapter)
- → Split (via interface adapter)





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

#### System layout

- $\rightarrow$  Up to 1,024 indoor units can be controlled (by 4 iPUs)
- → Ethernet TCPIP / 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

- $NEW_{\downarrow} \rightarrow Web$  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)
- $\rightarrow$  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
- $\rightarrow$  Setpoint indication
- $\rightarrow$  Operation time monitoring
- → Multi PC
- → On-line help









LONWORKS® Networks Compatible Gateway

- → Interface for connection to LonWorks<sup>•</sup> networks
- → Communication via LoN<sup>®</sup> protocol (twisted pair wire)
- → 64 units connectable per DMS-IF
- → Unlimited site size
- $\rightarrow$  Quick and easy installation

## **BACnet** Gateway

Integrated control system connecting VRV system with BMS system

- $h_{\text{NEW}_{a}} \rightarrow PPD$  data is available on BMS-system
  - $\rightarrow$  Interface for BMS system
  - → Communication via BACnet protocol (connection via Ethernet)
  - → 256 units connectable per BACnet gateway
  - → Unlimited site size
  - $\rightarrow$  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

	FXFO	FX70	FXCO	FXKO	FXDO	FXDO-N	FXSO	FXMO	FXUO	FXHO	FXAO	FXLO	FXNO
DESCRIPTION	T/A Q	INEQ	Incq	Thing	INDQ	meqn	INGQ	17anq	INOQ	inaiq	Thong	INEQ	maiq
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)	KRP4AA53*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)	-						KJB3	11A					
Electrical box with earth terminal (2 blocks)	KJB212AA						KJB2	12A					
Noise filter (for electromagnetic interface only)	-						KEK2	6-1A					
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

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## DS-net

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

## Intelligent Controller

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



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



DESCRIPTION	REFERENCE	COMMENTS
LonWorks- networks compatible Gateway	DIMS504B51	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	DMS502B51	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	Parallel interface - Basic unit	DPF201A51	enables ON/OFF command, operation and display of malfunction can be used in combination with up to 4 units.
	Temperature measurement units	DPF201A52	enables temperature measurement output for 4 groups; $0 \sim 5VDC.$ »
	Temperature setting units	DPF201A53	enables temperature setting input for 16 groups; 0 ~ 5VDC.»
	Unification adapter for computerised control	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.
External control adapter for outdoor unit		DTA104A51	cooling/heating mode change over, demand control and low noise control are available between the plural outdoor units.
		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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Europe N.V. is approved by LRQA for its Qualit gement System in accordance with the ISO9001 ard. ISO9001 pertains to quality assurance rega



der to help protect human health and the t from the potential impact of our activitie d services and to assist in maintaining and our state of the

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