



Perfecting the Air

- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have enquiries, please contact your local importer, distributor and/or retailer.

DEALER RESMI

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

DCC 0800 1 081 081
DAIKIN CONTACT CENTER

Jam Beroperasi:

Senin - Jumat: 07:00 - 19:00 WIB

Sabtu - Minggu & Libur Nasional: 07:00 - 17:00 WIB

PT. DAIKIN AIRCONDITIONING INDONESIA

Menara Astra 7th & 8th Floor, Jl. Jenderal Sudirman Kav. 5-6,
Kel. Karet Tengsin, Kec. Tanah Abang, Jakarta Pusat, DKI Jakarta - 10220
Telp : +6221 8665 6886 | Website : www.daijin.co.id

• **SERVICE CENTER** : Jakarta Selatan, Telp. : 021-2782 5545 | Samarinda, Telp. : 0541-252 2889 • **WORKSHOP**: Cirebon, Telp. : 0231-8817 512 | Banjarmasin, Tlp. : 0511-3258 969 | Aceh, Tlp. : 0651-7318 036 | Lombok, Tlp. : 0370-7843 231 | Jambi, Tlp. : 0741-3066 790 | Padang, Tlp. : 0751-896 2684 • **TRAINING CENTER** : Sunter, Telp. : 021-650 5030 • **BRANCH** : Bekasi, Telp. :021-2945 0585 | Tangerang, Telp. : 021-5314 1195 | Bandung, Telp. : 022-522 5150 | Semarang, Telp. : 024-7660 3221 | Yogyakarta, Telp. : 0274-551 321 | Surabaya, Telp. : 031-503 1138 | Denpasar, Telp. : 0361-900 5514 | Makassar, Telp. : 0411-805 2691 | Palembang, Telp. : 0711-573 2282 | Pekanbaru, Telp. : 0761-561 139 | Medan, Telp. : 061-4200 8866 | Manado, Telp. : 0431-719 1199 | Batam, Tlp. : 0778-4171 445



Cooling Only 50 Hz

R-410A

Exceeding Boundaries with Innovative Energy Savings



VRV A



Promotion movie

VRV+VRT+VAV

First launched in Japan in 1982, the Daikin **VRV** system has been embraced by world markets for over 35 years. Now, Daikin proudly introduces the new **VRV A** series. By combining the technologies of **VRV**, **VRT** and **VAV**, we have attained both energy savings and comfortable air conditioning.

Energy savings

Uniting **VRV**, **VRT** and **VAV** technologies

Automatic refrigerant charge function

- Optimised operation efficiency
- Higher installation quality
- Easier installation

High reliability

- New inverter PC board
- Double backup operation
- Refrigerant cooling for PC board



Saves Space and Delivers Excellent Performance

Cooling Only
6 HP—60 HP
(16 kW) (168 kW)



Single Outdoor units
RXQ6-20AY14(W)

Double Outdoor units
RXQ18-40AMY14(W)

Triple Outdoor units
RXQ42-60AMY14(W)

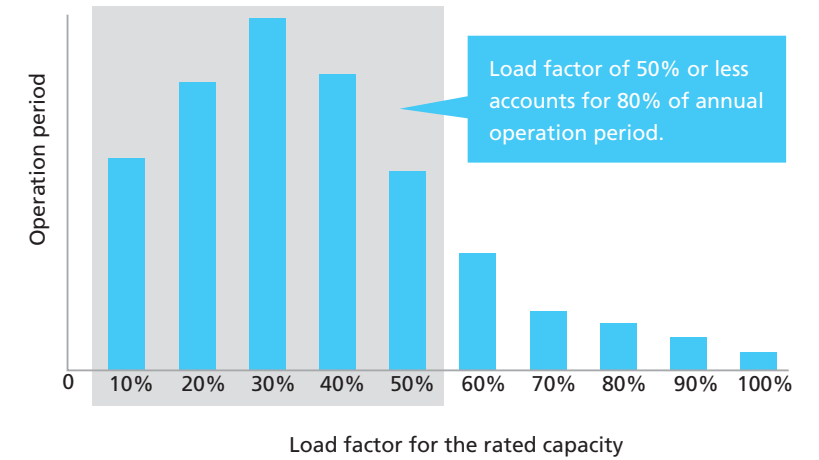
*(W): Heavy anti-corrosion model

Greater energy savings during low-load operation

Daikin's VRV A series raised the standard of energy efficiency.

The key to innovative energy savings

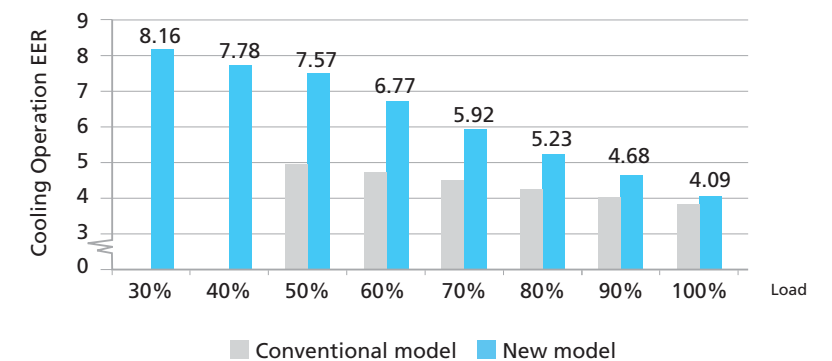
Increased efficiency during low-load operation.



- * Data source
- Number of properties connected to the Air Conditioning Network Service System: 42 projects
 - Number of outdoor unit systems: 535 systems
 - Data collection period: 8:00-18:00, weekdays (excluding public holidays), from July 2015 to June 2016 in office buildings in Singapore.

Higher Energy Efficiency Ratio (EER) for 10 HP

Annual power consumption
14% Lower



- * Simulation conditions:
- Location: Bangkok, Thailand
 - System: Outdoor unit (10 HP) x 1
Indoor unit (2 HP, Round Flow with Sensing type) x 5
 - Operation time: 8:00-20:00 5 days/week
 - Outdoor units: New model: RXQ10A (VRV A series)
Conventional model: RXQ10T (VRV IV)
- * Cooling operation conditions:
- Indoor temperature of 27°CDB, 19°CWB, and outdoor temperature of 35°CDB.

Advanced Technologies

Advanced technologies for greater energy savings

By uniting advanced software and hardware technologies for greater energy savings during actual operation and combining the technologies of VRV, VRT and VAV, we have attained both energy savings and comfortable air conditioning.

Software technology VRT Smart Control

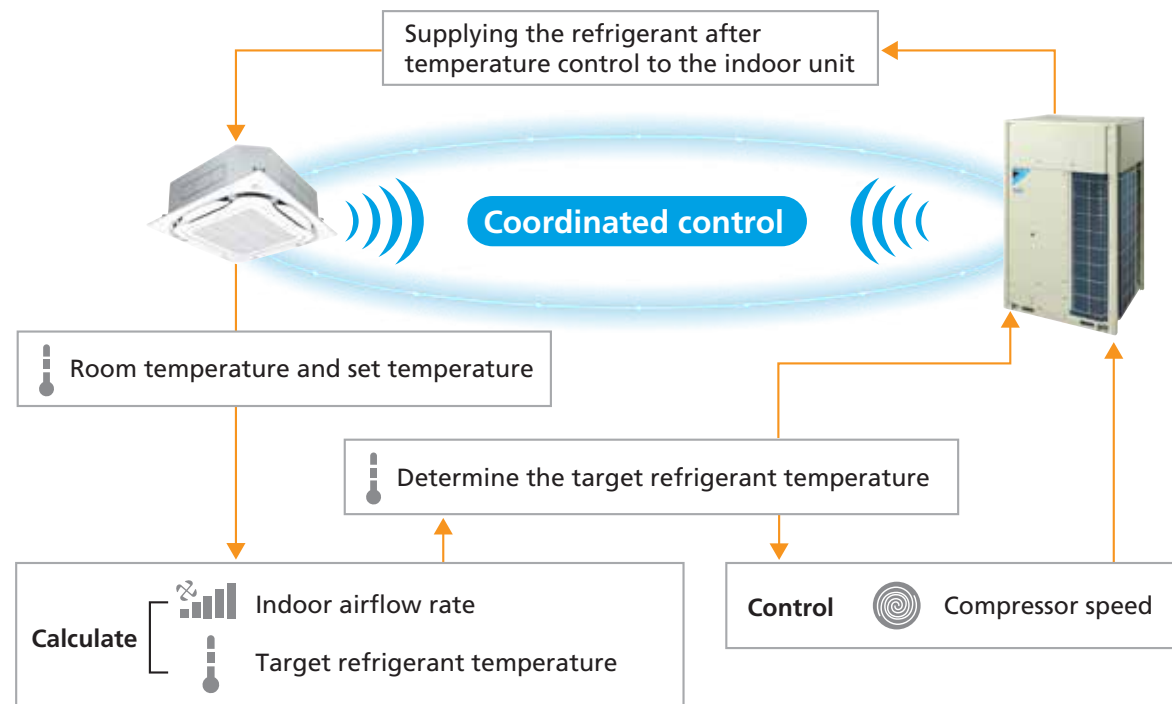
Fully Automatic Energy-saving Refrigerant Control



VRT Smart Control Function movie

Optimally supply only for the needed capacity of indoor units

- Reduces compressor load and minimizes operation loss so it is energy saving
- Controls capacity according to load to ensure a constant room temperature for greater comfort.



* For the classification of indoor units (VRT smart control and VRT control), refer to the indoor unit lineup.

VRV + VRT + VAV

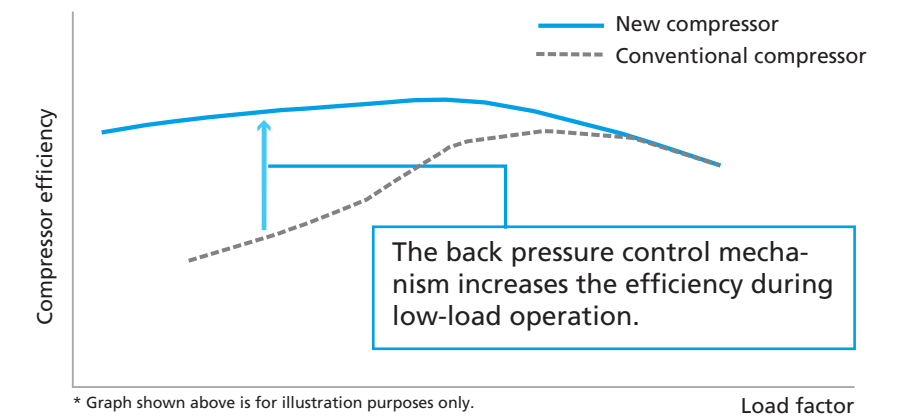
Hardware technology New Scroll Compressor



New Scroll Compressor movie

Refrigerant leakage is minimized during low-load operation

- Refrigerant leakage is minimized by a back pressure control mechanism that increases the efficiency during low-load operation.



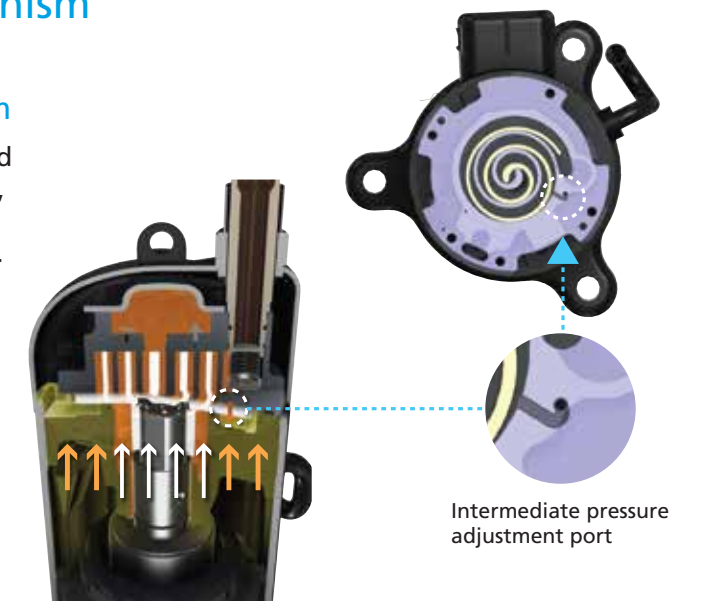
* Graph shown above is for illustration purposes only.

Back pressure control mechanism

New intermediate pressure mechanism

The pressure on the orbiting scroll is optimised according to operating conditions. As a result, the orbiting scroll has been stabilised to increase efficiency during low-load operation.

* The new mechanism is used in RXQ10,12,14 and 20A models.



Advanced Technologies

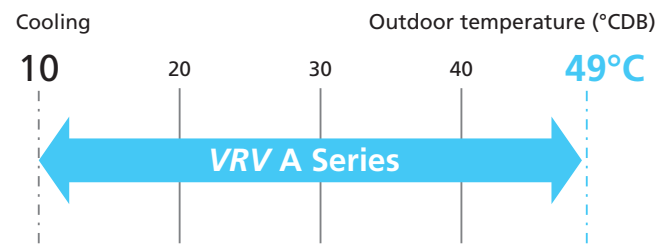
Advanced oil temperature control

Standby power needed for preheating refrigerator oil was **reduced up to 82.7%** to save energy when the air conditioner is stopped.

* Operation calculation conditions: VRV A series 14 HP
Location: Singapore
Operation time: 08:00-18:00 on weekdays

82.7%
Reduction

Extended operation range up to 49°C

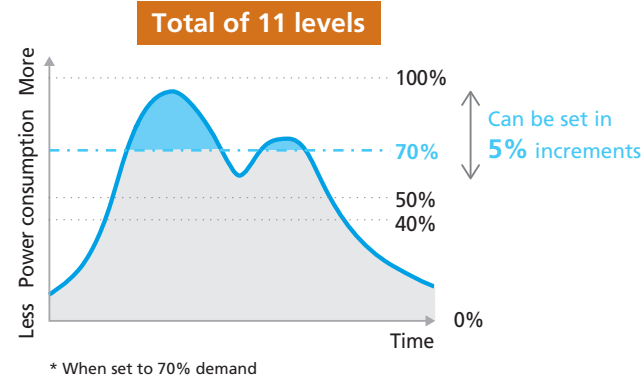


Note: When outdoor temperature falls below 10°C, the thermostat shuts OFF, the outdoor unit stops, and operation switches from cooling to fan operation.

I-demand function

Peak power limit can be accomplished according to each user situation.

* Set on the PCB of the outdoor unit.



High external static pressure

VRV A series outdoor unit has been achieved high external static pressure up to **78.4 Pa**.

Active Filter Unit (Option)

Daikin's Active Filter unit can drastically reduce harmonics, preventing damages from harmonics and extending equipment lifespan.



Automatic refrigerant charge function

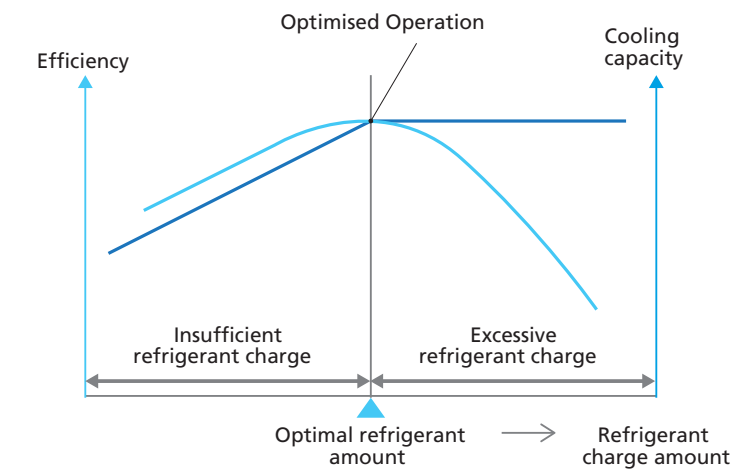
Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency

This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.



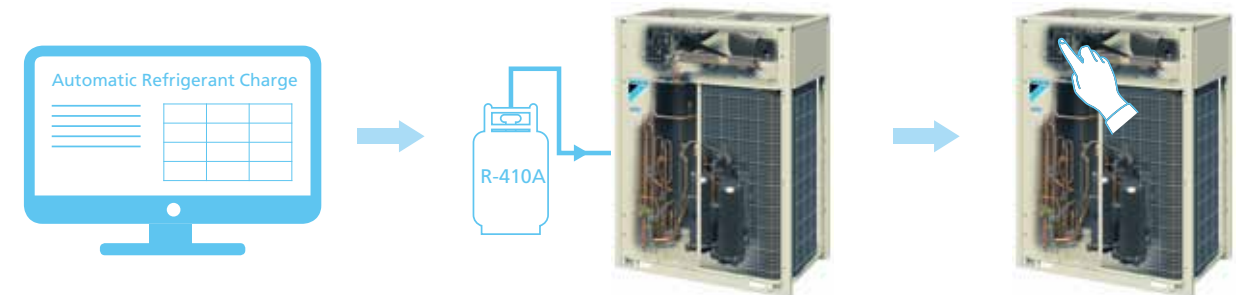
Automatic Refrigerant Charge Function movie



Higher quality and easier installation

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and the closing of shut-off valves by simply pressing a switch after pre-charging.

- 1 Calculation of necessary refrigerant amount from design drawing
- 2 Pre-charge of refrigerant
- 3 Start of automatic refrigerant charge operation



- Automatic completion by proper refrigerant amount
- Monitoring refrigerant charging is unnecessary
- No recalculation of charge amounts due to minor design changes locally

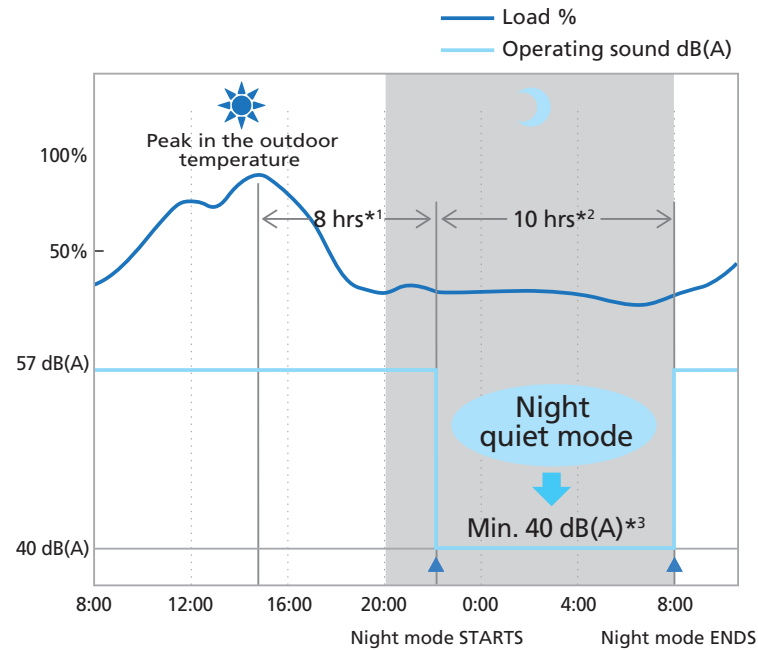
* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.
* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, but there are no problems in performance and quality.

Comfort & Reliability

Comfort

Nighttime quiet operation function

The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.

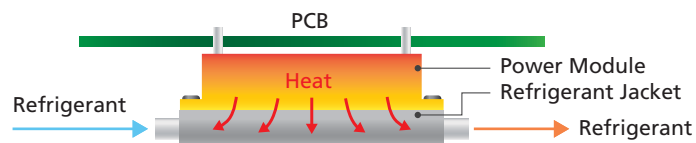


*1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
*2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
*3. In case of 10 HP outdoor unit.

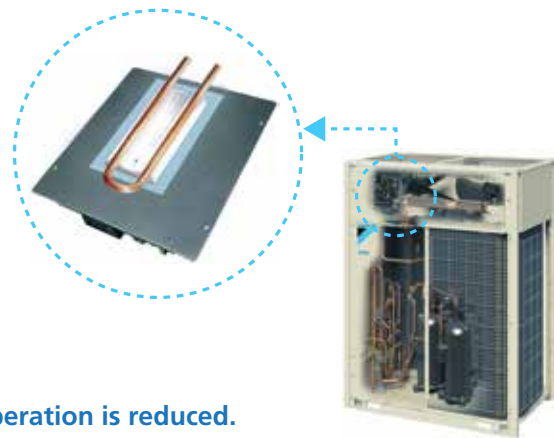
Notes: • This function is available in setting at site.
• The operating sound in quiet operation mode is the actual value measured by our company.
• The relationship of outdoor temperature (load) and time shown above is just an example.

Reliable and stable technology

High reliability at high ambient temperature



Using refrigerant to cool the inverter power module helps minimise the size of the electronic components, and this results in reduction of airflow resistance and high efficiency of the heat exchanger.



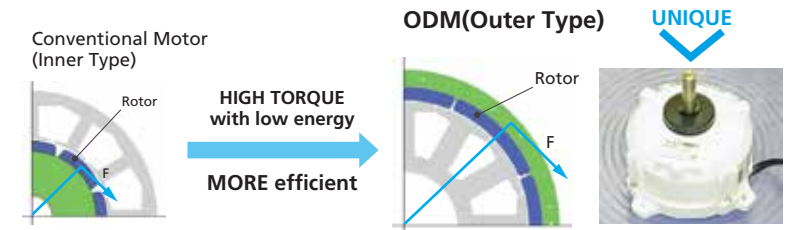
Control board failure ratio at stable operation is reduced.

This enables

- Suitability for high ambient temperatures
- Miniaturization of electronic components

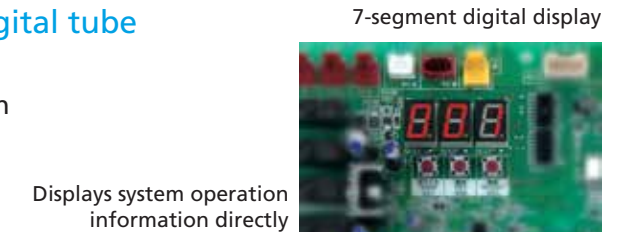
Outer rotor DC motor (ODM)

Only Daikin has adapted an ODM with the feature of stable rotation and volumetric efficiency.



Function of information display by luminous digital tube

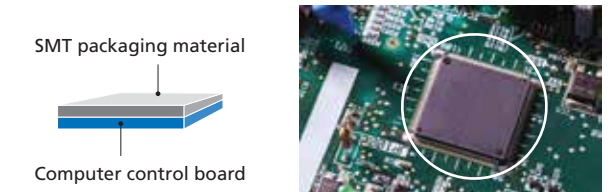
VRV A series utilises a bright 7-segment digital display to convey operational status and facilitate simple installation and after-sales service.



SMT* packaging technology

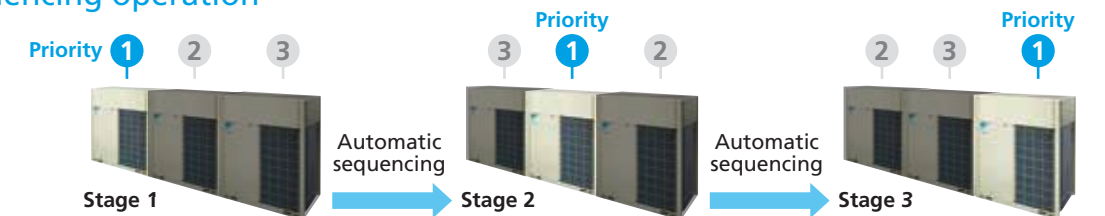
- Improves the anti-clutter performance.
- Protects your computer boards from the adverse effects of sandy climates and humid weather.

Computer control board surface adopting SMT packaging technology

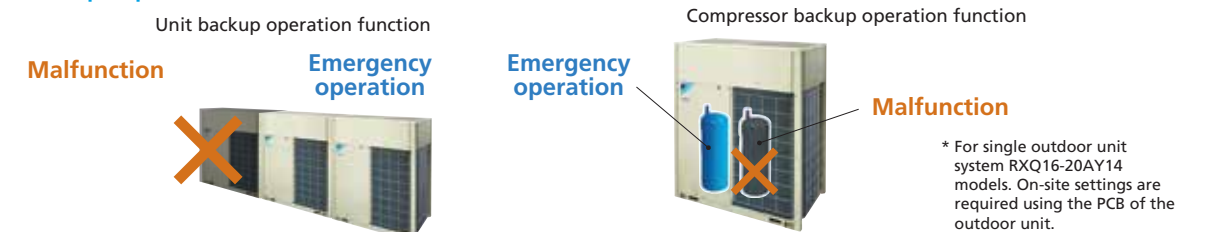


* SMT: Surface mounted technology

Automatic sequencing operation



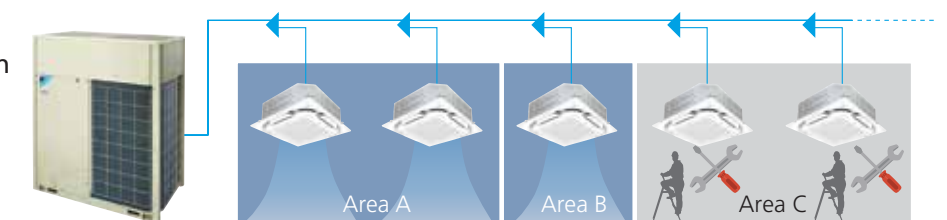
Double backup operation functions



Ease of maintenance

Can provide maintenance feature* without shutting down the whole VRV system.

* Field setting is required.

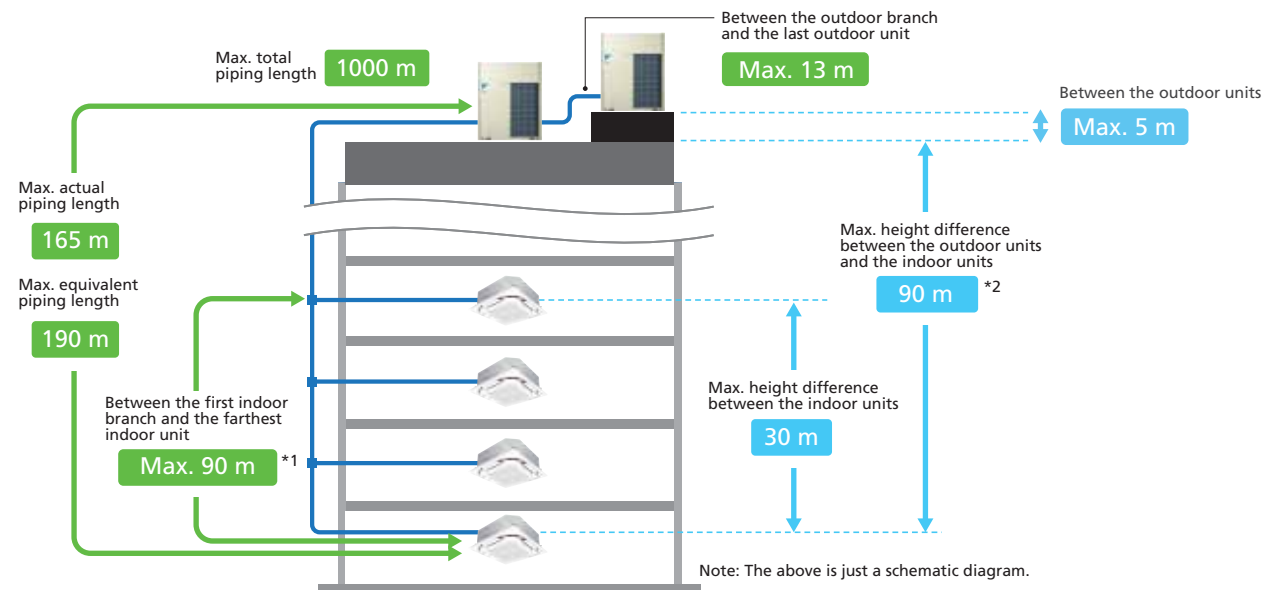


Flexible System Design

More options for installation location

Long piping length

The long piping length provides more design flexibility, which can match even large-sized buildings.



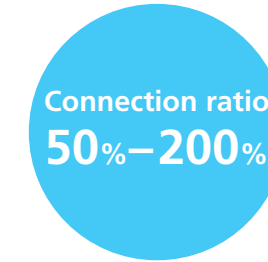
Maximum allowable piping length	Actual piping length (Equivalent)	165 m (190 m)
	Total piping length	1000 m
	Between the first indoor branch and the farthest indoor unit	90 m *1
	Between the outdoor branch and the last outdoor unit (Equivalent)	10 m (13 m)
Maximum allowable height difference	Between the outdoor units (Multiple use)	5 m
	Between the indoor units	30 m
	Between the outdoor units and the indoor units	90 m *2

*1. No special requirements up to 40 m. The maximum actual piping length can be 90 m, depending on conditions. The VRV A series is easy to extend to 90 m by lessening the conditions from conventional VRV IV models. Be sure to refer to the Engineering Data Book for details of these conditions and requirements.

*2. When height differences are 50 m or more, the diameter of the main liquid piping size must be increased. If the outdoor unit is above the indoor unit, a dedicated setting on the outdoor unit is required. Refer to the Engineering Data Book and contact your local dealer for more information.

Connection ratio

Connection capacity at maximum is 200%.



$$\text{Connection ratio} = \frac{\text{Total capacity index of the indoor units}}{\text{Capacity index of the outdoor units}}$$

Conditions of VRV indoor unit connection capacity

Applicable VRV indoor units				Other VRV indoor unit models*1	
					
	Single outdoor units	200%			
	Double outdoor units				160%
Triple outdoor units	130%				

*1 For the FXF(S)(T)(R)Q25 and FXVQ models, maximum connection ratio is 130% for the entire range of outdoor units.
Note: If the operational capacity of indoor units is more than 130%, low airflow operation is enforced in all the indoor units.

Anti-corrosion Technology

Heavy anti-corrosion model



RXQ6-20AY14W
RXQ18-60AMY14W

Built for
Seaside

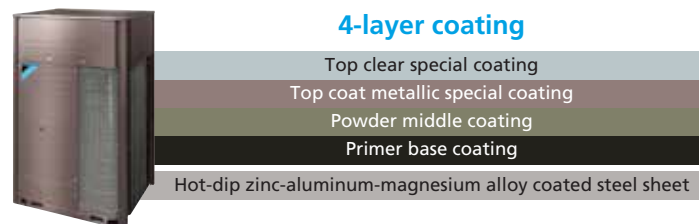


Maximize anti-corrosion and performance

Outer casing

Multi coating for extreme durability

The hot-dip Zinc-Aluminum-Magnesium alloy coated sheet is optimised for even greater durability with an additional four-layer coating combination.



Anti-corrosion verification by accelerated test

Although the previous anti-corrosion model is rusted, the VRV A MAX outer casing shows no signs of corrosion in either test.

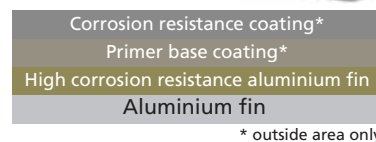
* The cross cut was made in order to simulate a severe case of coating damage and corrosion (not from regular usage).



Heat exchanger (Fin)

Anti-corrosion technology

The aluminum fins on VRV A MAX are manufactured with thicker anti-corrosion layer including an additional two-layer coating.



High performance technology

New aluminum fins are 21% thicker to maintain performance.



Automated fin coating line

To prevent differences in coating thickness caused by manual application, the additional fin coatings are performed on the latest automated assembly line, maintaining high precision and quality.

Achieves both anti-corrosion and high efficiency

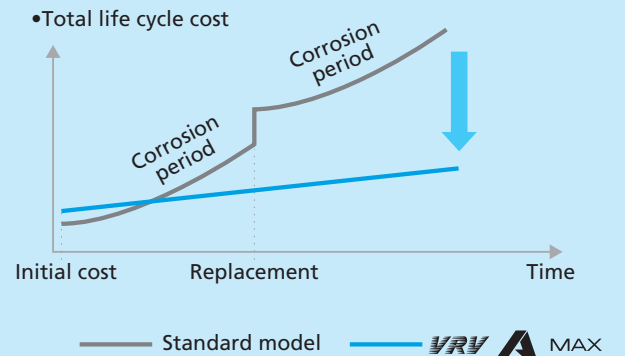
Maximize lifespan

A third party tested the corrosion resistance (ISO 9227: salt spray tests) of the reinforced fins and casing for ISO 12944: 2018 Category C5 and confirmed them to be at very high (VH) levels.

- ISO 12944-6:2018 : Paints and varnishes – Corrosion protection of steel structures by protective paint systems
- Category C5 : Industrial areas with high humidity and aggressive atmosphere and coastal areas with high salinity
- Level VH : Very high (equivalent to an expected life of 25 years *)
- ISO 9227 : Corrosion test in artificial atmospheres-Salt spray tests

* This number of years is not the warranty period of the product. Product life depends on installation location and operating conditions.

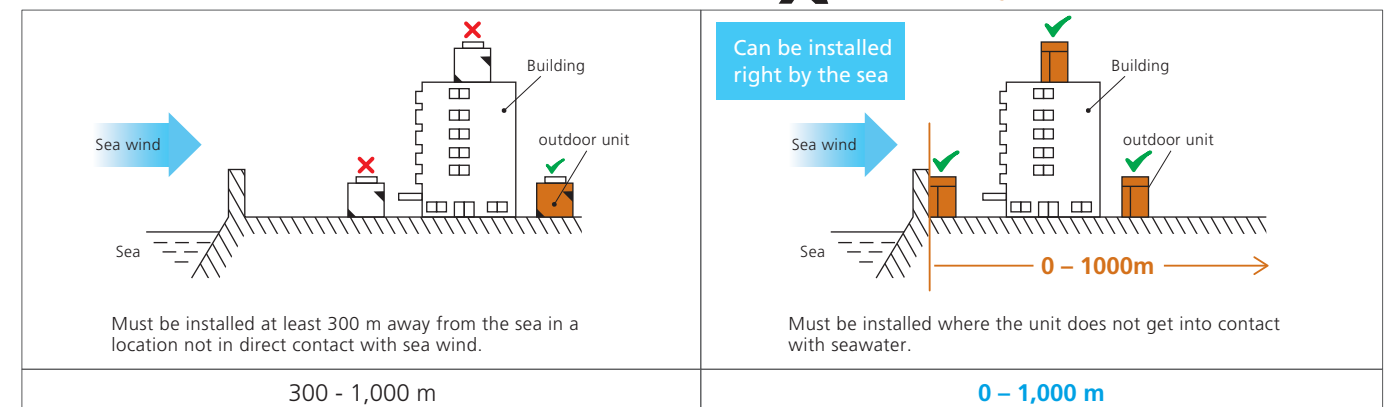
The new model resists corrosion by salt, maintains performance, and greatly reduces life cycle costs.



Built for seaside

Previous model: Anti-corrosion

VRV A MAX : Heavy Anti-corrosion



Specifications of anti-corrosion model

Item	Parts	Standard model	VRV A MAX
1	Sheet metal casing Outer casing	Hot dip zinc coated sheet + powder coating	Hot-dip zinc-aluminum-magnesium alloy-coated steel sheet + Primer base coating + Powder middle coating + Top coat metallic special coating (metallic brown) + Top clear special coating
2	Discharge grille • Protection net	Low Density Polyethylene (LDPE) coating	
3	Fasteners	SWCH + zinc-nickel plating	SUS410 + zinc-nickel plating
4	Heat exchanger	Copper tube + Standard aluminum fin	Copper tube + Anti-corrosion aluminum fin
5	Aluminum fin	Aluminum fin + Hydrophilic anti-corrosion	Aluminum fin + High corrosion resistance aluminum fin + Primer base coating (outside area only) + Corrosion resistance coating (outside area only)
6	Heat exchanger end plate	Hot-dip zinc-aluminum-magnesium alloy-coated steel sheet without coating	Hot dip zinc coated sheet + corrosion resistance polyurethane coating
7	Fan motor stand • Electric box • Inner casing sheet metal	Galvanized iron sheet	Hot dip zinc coated sheet + corrosion resistance polyurethane coating
8	Fan • Fan motor	Resin fan + resin casing motor	
9	Pressure vessel (oil separator)	Hot rolled sheet steel + painting	Hot rolled sheet steel + Double rust inhibitor coating with additional touch-up paint
10	Printed circuit board	Both side resin coating	Expanded both side resin coating

Outdoor Unit Lineup

VRV A Series

The outdoor unit capacity is up to 60 HP (168 kW) in increments of 2 HP.

Lineup

HP	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60		
VRV A SERIES	Single outdoor units	●	●	●	●	●	●	●																						
	Double outdoor units						●	●	●	●	●	●	●	●	●	●	●	●												
	Triple outdoor units																		●	●	●	●	●	●	●	●	●	●	●	●

Outdoor unit combinations

HP	kW	Capacity index	Model name	Combination	Outdoor unit multi connection piping kit*1	Total capacity index of connectable indoor units*2	Maximum number of connectable indoor units*2
6	16.0	150	RXQ6A	RXQ6A	-	75 to 195 (300)	9 (15)
8	22.4	200	RXQ8A	RXQ8A	-	100 to 260 (400)	13 (20)
10	28.0	250	RXQ10A	RXQ10A	-	125 to 325 (500)	16 (25)
12	33.5	300	RXQ12A	RXQ12A	-	150 to 390 (600)	19 (30)
14	40.0	350	RXQ14A	RXQ14A	-	175 to 455 (700)	22 (35)
16	45.0	400	RXQ16A	RXQ16A	-	200 to 520 (800)	26 (40)
18	50.0	450	RXQ18A	RXQ18A	-	225 to 585 (900)	29 (45)
20	56.0	500	RXQ20A	RXQ20A	-	250 to 650 (1,000)	32 (50)
18	50.4	450	RXQ18AM	RXQ8A + RXQ10A	BHFP22P100	225 to 585 (720)	29 (36)
20	55.9	500	RXQ20AM	RXQ8A + RXQ12A		250 to 650 (800)	32 (40)
22	61.5	550	RXQ22AM	RXQ10A + RXQ12A		275 to 715 (880)	35 (44)
24	67.0	600	RXQ24AM	RXQ12A × 2		300 to 780 (960)	39 (48)
26	73.5	650	RXQ26AM	RXQ12A + RXQ14A		325 to 845 (1,040)	42 (52)
28	78.5	700	RXQ28AM	RXQ12A + RXQ16A		350 to 910 (1,120)	45 (56)
30	83.5	750	RXQ30AM	RXQ12A + RXQ18A		375 to 975 (1,200)	48 (60)
32	90.0	800	RXQ32AM	RXQ14A + RXQ18A		400 to 1,040 (1,280)	52 (64)
34	95.0	850	RXQ34AM	RXQ16A + RXQ18A		425 to 1,105 (1,360)	55 (64)
36	100	900	RXQ36AM	RXQ18A × 2		450 to 1,170 (1,440)	58 (64)
38	106	950	RXQ38AM	RXQ18A + RXQ20A		475 to 1,235 (1,520)	61 (64)
40	112	1,000	RXQ40AM	RXQ20A × 2		500 to 1,300 (1,600)	
42	117	1,050	RXQ42AM	RXQ12A × 2 + RXQ18A		525 to 1,365 (1,365)	
44	123	1,100	RXQ44AM	RXQ12A × 2 + RXQ20A		550 to 1,430 (1,430)	
46	130	1,150	RXQ46AM	RXQ14A × 2 + RXQ18A		575 to 1,495 (1,495)	
48	135	1,200	RXQ48AM	RXQ14A + RXQ16A + RXQ18A		600 to 1,560 (1,560)	
50	140	1,250	RXQ50AM	RXQ14A + RXQ18A × 2	625 to 1,625 (1,625)		
52	145	1,300	RXQ52AM	RXQ16A + RXQ18A × 2	650 to 1,690 (1,690)		
54	150	1,350	RXQ54AM	RXQ18A × 3	675 to 1,755 (1,755)		
56	156	1,400	RXQ56AM	RXQ18A × 2 + RXQ20A	700 to 1,820 (1,820)		
58	162	1,450	RXQ58AM	RXQ18A + RXQ20A × 2	725 to 1,885 (1,885)		
60	168	1,500	RXQ60AM	RXQ20A × 3	750 to 1,950 (1,950)		

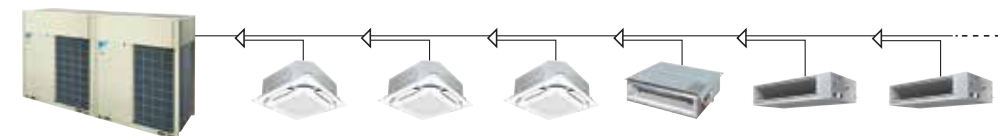
Notes: *1. For multiple connection, the outdoor unit multi connection piping kit (separately sold) is required.
 *2. Values inside brackets are based on connection of indoor units rated at maximum capacity, 200% for single outdoor units, 160% for double outdoor units, and 130% for triple outdoor units. Refer to page 40 for notes on connection capacity of indoor units.

Indoor Unit Lineup

Enhanced range of choices

● New lineup ■ VRT smart Indoor units subject to VRT smart control ■ VRT Indoor units subject to VRT control

Category	Type	Model Name	Capacity Range	20	25	32	40	50	63	80	100	125	140	200	250	400	500	
				Capacity Index	0.8 HP	1 HP	1.25 HP	1.6 HP	2 HP	2.5 HP	3.2 HP	4 HP	5 HP	6 HP	8 HP	10 HP	16 HP	20 HP
Ceiling Mounted Cassette	Round Flow Cassette with Sensing and Streamer	FXFTQ-AV4 ● VRT smart		●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette with Streamer	FXFRQ-AV4 ● VRT smart		●	●	●	●	●	●	●	●	●	●					
	Round Flow Cassette with Sensing	FXFSQ-AV4 ■ VRT smart			●	●	●	●	●	●	●	●	●					
	Round Flow Cassette	FXFQ-AV4 ■ VRT smart			●	●	●	●	●	●	●	●	●					
	Compact Multi Flow Cassette	FXZQ-BVM4 ● VRT smart		●	●	●	●	●										
	Double Flow Cassette	FXCQ-BVM4 ● VRT smart		●	●	●	●	●	●			●						
	Single Flow Cassette	FXKQ-MAVE4 ■ VRT			●	●	●		●									
	Ceiling Mounted Cassette Duct	FXFDQ-AV4 ■ VRT smart								●	●	●	●					
	Ceiling Concealed Duct	Bedroom Duct	FXDBQ-AVM4 ■ VRT smart					●	●	●	●							
		Slim Duct (Standard)	FXDQ-PDVE4 (with drain pump) ■ VRT smart		●	●	●											
FXDQ-PDVT4 (without drain pump) ■ VRT smart				●	●	●												
FXDQ-NDVE4 (with drain pump) ■ VRT smart								●	●	●	●							
FXDQ-NDVT4 (without drain pump) ■ VRT smart							●	●	●	●								
Slim Duct (Compact)		FXDQ-SPV14 ■ VRT		●	●	●	●	●	●	●	●	●	●					
Middle Static Pressure Duct		FXSQ-PAV4 ■ VRT smart		●	●	●	●	●	●	●	●	●	●	●				
Middle-High Static Pressure Duct		FXMQ-PAV4 ■ VRT smart		●	●	●	●	●	●	●	●	●	●	●				
High Static Pressure Duct		FXMQ-PVM ■ VRT smart													●	●		
Outdoor-Air Processing Unit		FXMQ-MFV7 ● VRT												●	●	●		
Ceiling Suspended	FXHQ-MAV7 ● VRT					●			●		●							
	FXHQ-BVM4 ● VRT												●	●				
Wall Mounted	FXAQ-AVM4 ■ VRT smart		●	●	●	●	●	●	●	●	●	●						
Floor Standing	Floor Standing	FXLQ-MAVE4 ■ VRT		●	●	●	●	●	●									
	Concealed Floor Standing	FXNQ-MAVE4 ■ VRT		●	●	●	●	●										
	Floor Standing Duct	FXVQ-NY14 ■ VRT											●	●	●	●		
Clean Room Air Conditioner	FXBQ-PVE4 ■ VRT							●	●	●								
	FXBPQ-PVE4 ■ VRT								●									
Heat Reclaim Ventilator with DX-Coil	VKM-GCVE																Airflow rate 500-950 m³/h	
Heat Reclaim Ventilator	VAM-HVE																Airflow rate 150-2000 m³/h	
Air Handling Unit	AHUR																6-120 HP	



Max. 64 indoor units
 * If a system has indoor units subject to both VRT smart and VRT control, the system is operated under VRT control.
 * If a system has both outdoor-air processing air conditioners (FXMQ-MF series) and outdoor-air processing type indoor units, VRT smart control and VRT control are disabled.

Outdoor Units

VRV A Series

Specifications

MODEL		RXQ6AY14(W)	RXQ8AY14(W)	RXQ10AY14(W)	RXQ12AY14(W)	RXQ14AY14(W)	RXQ16AY14(W)	RXQ18AY14(W)	RXQ20AY14(W)	RXQ18AMY14(W)	RXQ20AMY14(W)	RXQ22AMY14(W)	RXQ24AMY14(W)	RXQ26AMY14(W)	RXQ28AMY14(W)	RXQ30AMY14(W)		
Combination units		—	—	—	—	—	—	—	—	RXQ8AY14(W)	RXQ8AY14(W)	RXQ10AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)		
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz								3-phase 4-wire system, 380-415 V, 50 Hz								
Cooling capacity	Btu/h	54,600	76,400	95,500	114,000	136,000	154,000	171,000	191,000	172,000	191,000	210,000	229,000	251,000	268,000	285,000		
	kW	16.0	22.4	28.0	33.5	40.0	45.0	50.0	56.0	50.4	55.9	61.5	67.0	73.5	78.5	83.5		
Power consumption	kW	3.38	5.17	6.84	8.70	10.7	12.9	15.3	17.7	12.0	13.9	15.5	17.4	19.4	21.6	24.0		
Capacity control	%	25-100	20-100	13-100	12-100	11-100	10-100	10-100	7-100	7-100	7-100	6-100	6-100	6-100	5-100	5-100		
Casing colour		Ivory white (5Y7.5/1) (Metallic brown *1)								Ivory white (5Y7.5/1) (Metallic brown *1)								
Compressor	Type	Hermetically sealed scroll type								Hermetically sealed scroll type								
	Motor output	kW	2.3x1	3.4x1	4.5x1	5.6x1	6.4x1	(3.5x1)+(3.5x1)	(4.0x1)+(4.0x1)	(3.8x1)+(6.3x1)	(3.4x1)+(4.5x1)	(3.4x1)+(5.6x1)	(4.5x1)+(5.6x1)	(5.6x1)+(5.6x1)	(5.6x1)+(6.4x1)	(5.6x1)+(3.5x1)+(3.5x1)	(5.6x1)+(4.0x1)+(4.0x1)	
Airflow rate	m ³ /min	119	178	191	257	297	178+178	178+191	191+191	191+257	257+257	257+297	297+297	297+297	297+297	297+297		
Dimensions (HxWxD)	mm	1,657x930x765				1,657x1,240x765				1,657x1,240x765	(1,657x930x765)+(1,657x930x765)				(1,657x930x765)+(1,657x1,240x765)			
Machine weight	kg	175 (180 *1)		185 (195 *1)		215 (235 *1)	260 (280 *1)		285 (310 *1)	175+185 (180+195 *1)		185+185 (195+195 *1)		185+215 (195+235 *1)		185+260 (195+280 *1)		
Sound level	dB(A)	56		57	59	60		61	65	60	61		62	63				
Operation range	°CDB	10 to 49								10 to 49								
Refrigerant	Type	R-410A								R-410A								
	Charge	kg	5.9	6.7	6.8	7.4	8.2	8.4	11.8	5.9+6.7	5.9+6.8	6.7+6.8	6.8+6.8	6.8+7.4	6.8+8.2	6.8+8.4		
Piping connections	Liquid	φ 9.5 (Brazing)				φ 12.7 (Brazing)				φ 15.9 (Brazing)				φ 19.1 (Brazing)				
	Gas	φ 19.1 (Brazing)		φ 22.2 (Brazing)		φ 28.6 (Brazing)				φ 28.6 (Brazing)				φ 34.9 (Brazing)				

MODEL		RXQ32AMY14(W)	RXQ34AMY14(W)	RXQ36AMY14(W)	RXQ38AMY14(W)	RXQ40AMY14(W)	RXQ42AMY14(W)	RXQ44AMY14(W)	RXQ46AMY14(W)	RXQ48AMY14(W)	RXQ50AMY14(W)	RXQ52AMY14(W)	RXQ54AMY14(W)	RXQ56AMY14(W)	RXQ58AMY14(W)	RXQ60AMY14(W)	
Combination units		RXQ14AY14(W)	RXQ16AY14(W)	RXQ18AY14(W)	RXQ18AY14(W)	RXQ20AY14(W)	RXQ12AY14(W)	RXQ12AY14(W)	RXQ14AY14(W)	RXQ14AY14(W)	RXQ14AY14(W)	RXQ16AY14(W)	RXQ18AY14(W)	RXQ18AY14(W)	RXQ18AY14(W)	RXQ20AY14(W)	
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz								3-phase 4-wire system, 380-415 V, 50 Hz							
Cooling capacity	Btu/h	307,000	324,000	341,000	362,000	382,000	399,000	420,000	444,000	461,000	478,000	495,000	512,000	532,000	553,000	573,000	
	kW	90.0	95.0	100	106	112	117	123	130	135	140	145	150	156	162	168	
Power consumption	kW	26.0	28.2	30.6	33.0	35.4	32.7	35.1	36.7	38.9	41.3	43.5	45.9	48.3	50.7	53.1	
Capacity control	%	5-100	5-100	5-100	4-100	3-100	4-100	3-100	3-100	3-100	3-100	3-100	3-100	3-100	2-100	2-100	
Casing colour		Ivory white (5Y7.5/1) (Metallic brown *1)								Ivory white (5Y7.5/1) (Metallic brown *1)							
Compressor	Type	Hermetically sealed scroll type								Hermetically sealed scroll type							
	Motor output	kW	(6.4x1)+(4.0x1)+(4.0x1)	(3.5x1)+(3.5x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(3.8x1)+(6.3x1)	(3.8x1)+(6.3x1)+(3.8x1)+(6.3x1)	(5.6x1)+(5.6x1)+(4.0x1)+(4.0x1)	(5.6x1)+(5.6x1)+(3.8x1)+(6.3x1)	(6.4x1)+(6.4x1)+(4.0x1)+(4.0x1)	(6.4x1)+(3.5x1)+(3.5x1)+(4.0x1)+(4.0x1)	(6.4x1)+(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(3.5x1)+(3.5x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)+(4.0x1)	(4.0x1)+(4.0x1)+(3.8x1)+(6.3x1)+(6.3x1)+(6.3x1)	(3.8x1)+(6.3x1)+(3.8x1)+(6.3x1)+(6.3x1)+(6.3x1)
Airflow rate	m ³ /min	257+257		257+297	297+297	191+191+257	191+191+297	257+257+257				257+257+297	257+297+297	297+297+297			
Dimensions (HxWxD)	mm	(1,657x1,240x765)+(1,657x1,240x765)				(1,657x930x765)+(1,657x930x765)+(1,657x1,240x765)				(1,657x1,240x765)+(1,657x1,240x765)+(1,657x1,240x765)							
Machine weight	kg	215+260 (235+280 *1)	260+260 (280+280 *1)		260+285 (280+310 *1)	285+285 (310+310 *1)	185+185+260 (195+195+280 *1)	185+185+285 (195+195+310 *1)	215+215+260 (235+235+280 *1)	215+260+260 (235+280+280 *1)		260+260+260 (280+280+280 *1)		260+260+285 (280+280+310 *1)	260+285+285 (280+310+310 *1)	285+285+285 (310+310+310 *1)	
Sound level	dB(A)	64				66	68	65	67	65				66	68	69	70
Operation range	°CDB	10 to 49								10 to 49							
Refrigerant	Type	R-410A								R-410A							
	Charge	kg	7.4+8.4	8.2+8.4	8.4+8.4	8.4+11.8	11.8+11.8	6.8+6.8+8.4	6.8+6.8+11.8	7.4+7.4+8.4	7.4+8.2+8.4	7.4+8.4+8.4	8.2+8.4+8.4	8.4+8.4+8.4	8.4+8.4+11.8	8.4+11.8+11.8	11.8+11.8+11.8
Piping connections	Liquid	φ 19.1 (Brazing)								φ 19.1 (Brazing)							
	Gas	φ 34.9 (Brazing)				φ 41.3 (Brazing)				φ 41.3 (Brazing)							

Notes: Specifications are based on the following conditions;
 •Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 •Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
 When there is concern for noise to the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.

Note: *1. Models with (W) are the outdoor units with anti-corrosion specifications. For details, refer to pages 41 - 42 for more information.

INDOOR UNIT LINEUP

Daikin offers a wide range of indoor units responding to variety of needs of our customers that require air-conditioning solutions.

VRV indoor units

Round Flow Cassette with Sensing and Streamer Type
Comfort, energy savings by sensing functions and enhanced maximum efficiency in cleaning



New FXFTQ-AV4

Round Flow Cassette with Streamer Type
360° airflow for improved comfort and enhanced maximum efficiency in cleaning



New FXFRQ-AV4

Round Flow Cassette with Sensing Type
Comfort and energy savings by sensing functions



FXFSQ-AV4

Round Flow Cassette Type
360° airflow for improved comfort



FXFQ-AV4

Compact Multi Flow Cassette Type
Quiet, compact, and designed for user comfort



New FXZQ-BVM4

Double Flow Cassette Type
Thin, lightweight, and easy to install in narrow ceiling spaces



New FXCQ-BVM4

Single Flow Cassette Type
Slim design for flexible installation



FXKQ-MAVE4

Ceiling Mounted Cassette Duct Type
Unprecedented flexibility with Revolutionary air blow concept



FXFDQ-AV4

Slim Duct (Compact) Type
Slim and compact design for easy and flexible installation



FXDQ-SPV14

Bedroom Duct Type
Suitable for close living spaces such as hotels and condominiums



FXDBQ-AVM4

Slim Duct (Standard) Type
Slim design, quietness and ideal for drop-ceilings



FXDQ-PDVE(T)4

FXDQ-NDVE(T)4

Middle Static Pressure Duct Type
Middle static pressure and slim design allow flexible installations.



FXSQ-PAV4

Middle-High Static Pressure Duct Type

Middle and high static pressure allows for flexible duct design.



FXMQ-PAV4

High Static Pressure Duct Type

High static pressure allows for flexible duct design.



FXMQ-PVM

Outdoor-Air Processing Unit

Combine fresh air treatment and air conditioning, supplied from a single system.



FXMQ-MFV7

Outdoor-Air Processing Unit
Improve IAQ with fresh air ventilation and precise room temperature control



New FXMQ-BFV24

Wall Mounted Type
Stylish flat panel design harmonised with your interior décor.



FXAQ-AVM4

Ceiling Suspended Type
Slim body with quiet and wide airflow.



FXHQ-MAV7

New FXHQ-BVM4

Round Flow Cassette Type
360° airflow for improved comfort



FXFQ-AV4

Compact Multi Flow Cassette Type
Quiet, compact, and designed for user comfort



New FXZQ-BVM4

Double Flow Cassette Type
Thin, lightweight, and easy to install in narrow ceiling spaces



New FXCQ-BVM4

Floor Standing Type / Conceal Floor Standing Type
Suitable for perimeter zone air conditioning



FXLQ-MAVE4

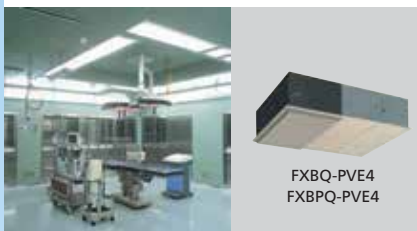
FXNQ-MAVE4

Floor Standing Duct Type
Large airflow type for large spaces.



FXVQ-NY14

Clean Room Air Conditioner
Suitable for hospitals and other clean spaces



FXBQ-PVE4
FXBPQ-PVE4

Single Flow Cassette Type
Slim design for flexible installation



FXKQ-MAVE4

Ceiling Mounted Cassette Duct Type
Unprecedented flexibility with Revolutionary air blow concept



FXFDQ-AV4

Slim Duct (Compact) Type
Slim and compact design for easy and flexible installation



FXDQ-SPV14

Bedroom Duct Type
Suitable for close living spaces such as hotels and condominiums



FXDBQ-AVM4

Slim Duct (Standard) Type
Slim design, quietness and ideal for drop-ceilings



FXDQ-PDVE(T)4

FXDQ-NDVE(T)4

Middle Static Pressure Duct Type
Middle static pressure and slim design allow flexible installations.



FXSQ-PAV4

Air treatment equipment

Heat Reclaim Ventilator with DX-Coil

Air quality improvement by introducing fresh outdoor air in the room



VKM-GCVE

Heat Reclaim Ventilator

Daikin VAM series ensures fresh air intake and energy savings



VAM-HVE

Round Flow Cassette with Sensing & Streamer

Round Flow Cassette with Streamer

New FXFTQ-A
FXFRQ-A

Comfort, energy savings by sensing functions and enhanced maximum efficiency in cleaning



Introducing Streamer technology to VRV Indoor unit

Daikin Streamer Technology enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by filter for better air quality.



Streamer filter clean unit irradiates Streamer when the fan and air conditioning operation are stopped. Streamer fumigates the cabin and sterilizes the filter.

New Streamer Filter Clean Unit built-in inside the indoor unit



Remarks:

- 1) Only the remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
- 2) The Streamer function operates only when the fan and air conditioning operation are stopped. The maximum operation of streamer is 180 minutes per day. (This function is available only when the remote controller BRC1H63W(K) is connected.)



Stylish Remote Controller BRC1H63W/K



Streamer ON/OFF setting and status icon are available.



Streamer Technology

Equipped with decomposition technology, Streamer is a type of plasma discharge that eliminates allergens such as pollen, mould, and mites, as well as, deodorises anti-bacterial dust filters so you can breathe with ease.

VRV Indoor Units

Mechanism of decomposition by Streamer



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.

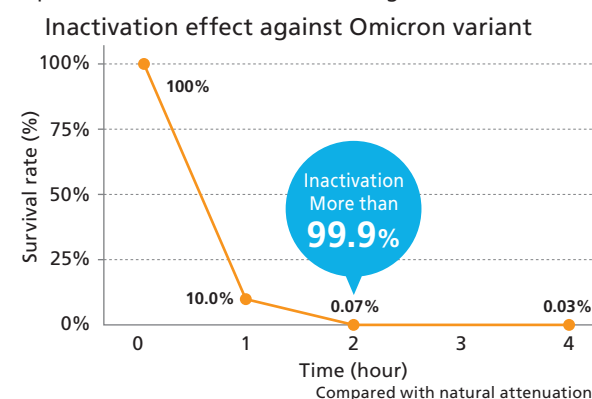


The decomposing elements provide decomposition power.

99.93% Inactivation of Omicron variant in 2 hours

Experimental Results

Irradiation with Streamer discharge for two hours inactivated 99.93%, and for four hours inactivated 99.97% of the Omicron variant of Coronavirus (SARS-CoV-2), when compared to without Streamer discharge.



Test Method

hCoV-19/Japan/ TY38-873/2021 strain (Omicron variant) was used. Two acrylic boxes of about 31L were placed in a safety cabinet in the BSL-3 facility, and Streamer discharge device was installed in one of the acrylic boxes. Seesaw shakers with a 6-well plate were placed in both boxes, and 0.5 mL of virus solution was placed in each well of the plate. Streamer irradiation was performed on one 6-well plate while stirring with a seesaw shaker. After 1, 2, and 4 hours, the virus solution was collected, and the virus titer was measured by the TCID50 method using Vero E6/TMPRSS2 cells.



Test Organization

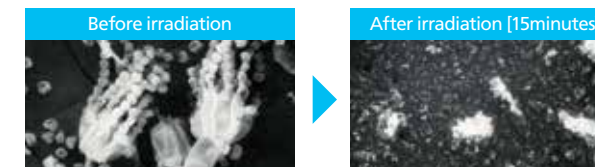
Professor Tatsuo Shioda, Department of Virus Infections, Research Institute for Microbial Diseases, Osaka University

*This result was obtained by using a Streamer discharge device for testing in lab conditions. The effect of products equipped with Streamer technology or results in actual use environments may differ.

Streamer decomposes mould and mites (feces and carcasses) and suppresses the causes of allergies.

Demonstration of mould

Picture of mould



Test Method

"Moulds" were placed on the electrodes of a Streamer discharge unit where they were exposed to Streamer discharge for 15 minutes and photographed with an electron microscope.

Test Organization

Demonstration test was performed at Wakayama Medical University.

Why Daikin Streamer?

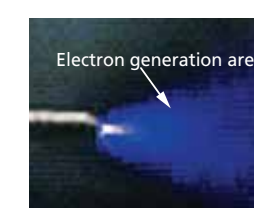
Recognized as clean technology by public bodies

Winner of the 2005 Progress Award, Institute of Electrostatics Japan
Awarded for the development of a domestic air purifier which uses DC Streamer discharge.

105 Patents Acquired
Patents acquired relating to Streamer technology

Streamer, a type of plasma discharge, decomposes hazardous chemical substances. The decomposition power is comparable to thermal energy of about 100,000°C.*

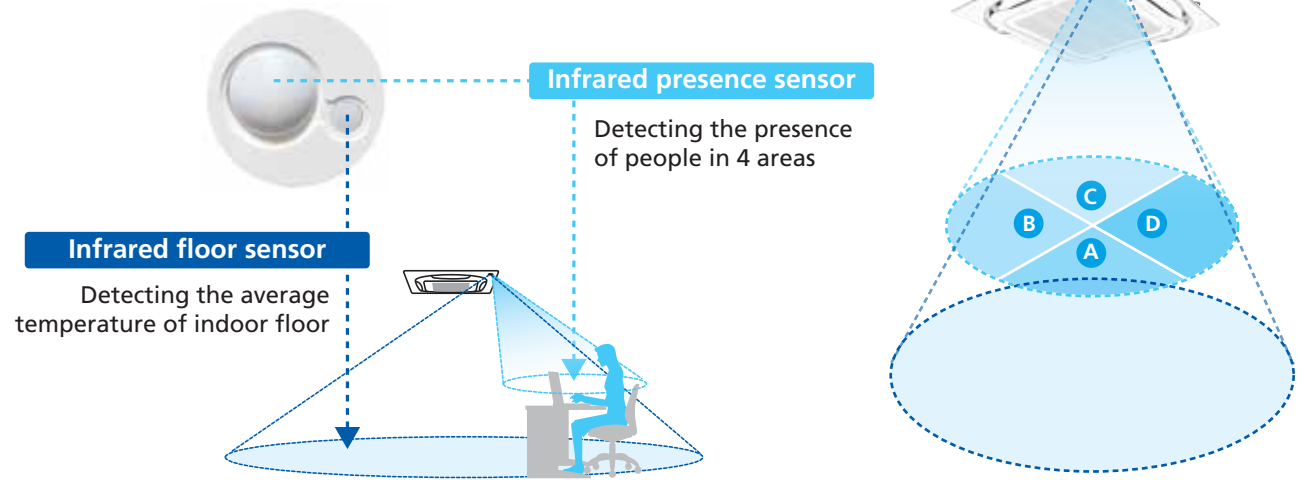
Note:
*Comparison of oxidation decomposition. This does not mean temperature will become high.



Daikin advanced sensing technology dual sensors

***FOR FXFTQ-A MODELS ONLY**

Comfort and energy saving by sensing functions

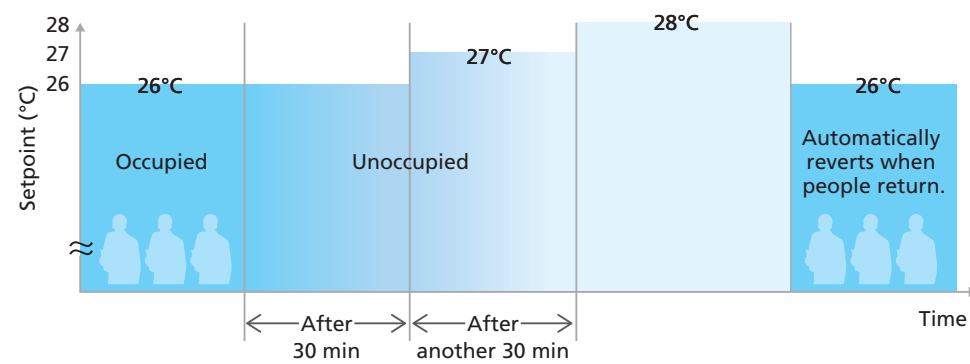


Sensing sensor mode Energy saving

Sensing sensor low mode (default: OFF)

When there are no people in a room, the set temperature is shifted automatically.

- Example**
- Cooling setpoint: 26°C
 - Shift temperature: 1.0°C
 - Shift time: 30 min.
 - Limit cooling temperature: 30°C



Sensing sensor stop mode (default: OFF)

Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

*Adjustment is possible for shift time and set temperature by local setting.

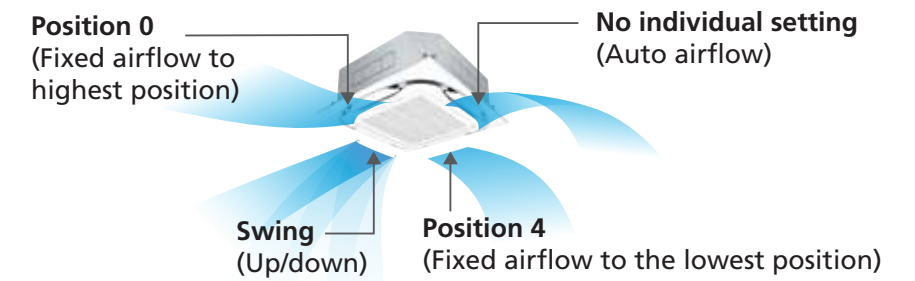
Individual airflow direction control

Comfortable air conditioning for all room layouts and conditions

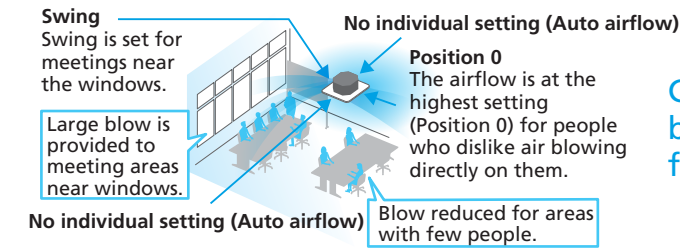
Easy setting is possible with a wired remote controller

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

- Individual airflow settings
- No individual setting (Auto airflow)
 - Position 0 (Highest point)
 - Position 1
 - Position 2
 - Position 3
 - Position 4 (Lowest point)
 - Swing



Individual settings are possible as stated above.



Comfort is provided to the entire room by individual setting corresponding to 4-way flow conditions.

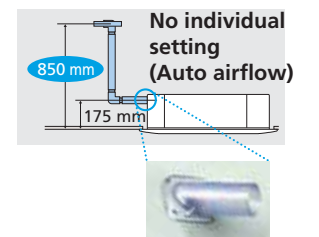
Other functions

Quick and easy installation

Installable in tight ceiling spaces

Min. of 261 mm* ceiling space when using standard panel.

* For FXFTQ25-80A models.

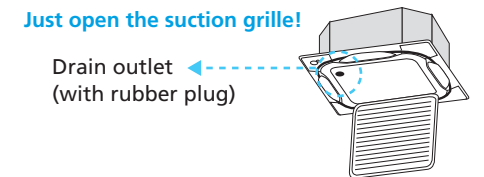


Drain pump is equipped as standard accessory with 850 mm lift.

Easy maintenance

Drain pan and drain water check

The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.



Cleanliness

Silver ion anti-bacterial drain pan

Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option)

This filter can catch more harmful substances in the air such as PM2.5.



BAF552A160



FXFRQ-A

■ Decoration Panel (Option)

Standard panel



Standard panel
BYCQ125EAF (Fresh White)



Standard panel
BYCQ125EAK (Black)

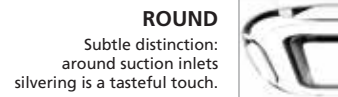
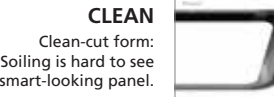
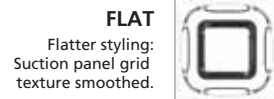
New designer panel

Designer choice has been given a boost with the increase in number of new types of decoration panels.



Designer panel
BYCQ125EAPF (Fresh White)

Close to ideal styling
New designer panel



Auto grille panel

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel is included.



Grille panel can be lowered to a maximum of 3.9 m.
BYCQ125EBSF (Fresh White)

Specifications

MODEL	FXFRQ25AV4	FXFRQ32AV4	FXFRQ40AV4	FXFRQ50AV4	FXFRQ63AV4	FXFRQ80AV4	FXFRQ100AV4	FXFRQ125AV4	FXFRQ140AV4	
Power supply	1-phase, 220 V, 50 Hz									
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consumption	kW	0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
		0.027		0.036	0.040	0.063	0.096	0.150	0.166	0.191
Casing	Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)	m ³ /min	13/12.5/11.5/11/10		17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353		600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			22		25	26		
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5			φ 9.5		
	Gas (Flare)	φ 12.7			φ 15.9			φ 15.9		
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions:
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Panel (Option)

Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5
Designer panel	Model	BYCQ125EAPF (Fresh White)	
	Dimensions(HxWxD)	mm	97x950x950
	Weight	kg	6.5
Auto grille panel	Model	BYCQ125EBSF (Fresh White)	
	Dimensions(HxWxD)	mm	105x950x950
	Weight	kg	8

Function List

Wired remote controller	BRC1H63W(K)
Streamer function unit	○
Individual airflow direction control	○
Switchable 5 step fan speed	○
Auto airflow rate	○
Auto swing	○
High ceiling application	○

FXFTQ-A

■ Panel (Option)



Standard panel with sensing
BYCQ125EEF (Fresh White)



Standard panel with sensing
BYCQ125EEK (Black)

Specifications

MODEL	FXFTQ25AV4	FXFTQ32AV4	FXFTQ40AV4	FXFTQ50AV4	FXFTQ63AV4	FXFTQ80AV4	FXFTQ100AV4	FXFTQ125AV4	FXFTQ140AV4	
Power supply	1-phase, 220 V, 50 Hz									
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consumption	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
		0.026		0.034	0.056	0.060	0.092	0.144	0.159	0.183
Casing	Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)	m ³ /min	13/12.5/11.5/11/10		17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23
	cfm	459/441/406/388/353		600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/28.5/28/27		35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35
Dimensions (HxWxD)	mm	256x840x840						298x840x840		
Machine weight	kg	19			24	22	25		26	
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5			φ 9.5		
	Gas (Flare)	φ 12.7			φ 15.9			φ 15.9		
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions:
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Panel (Option)

Standard panel with sensing	Model	BYCQ125EEF (Fresh White)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5
	Model	BYCQ125EEK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
	Weight	kg	5.5

Function List

Wired remote controller	BRC1H63W(K)
Streamer function unit	○
Dual sensors *1	○
Auto airflow function (Draft prevention) *1	○
Sensing sensor low mode *1	○
Sensing sensor stop mode *1	○
Individual airflow direction control	○
Switchable 5 step fan speed	○
Auto airflow rate	○
Auto swing	○
High ceiling application	○

*1. Applicable when sensing panel is installed.

Round Flow Cassette with Sensing Type

Round Flow Cassette Type

FXFSQ-A
FXFQ-A

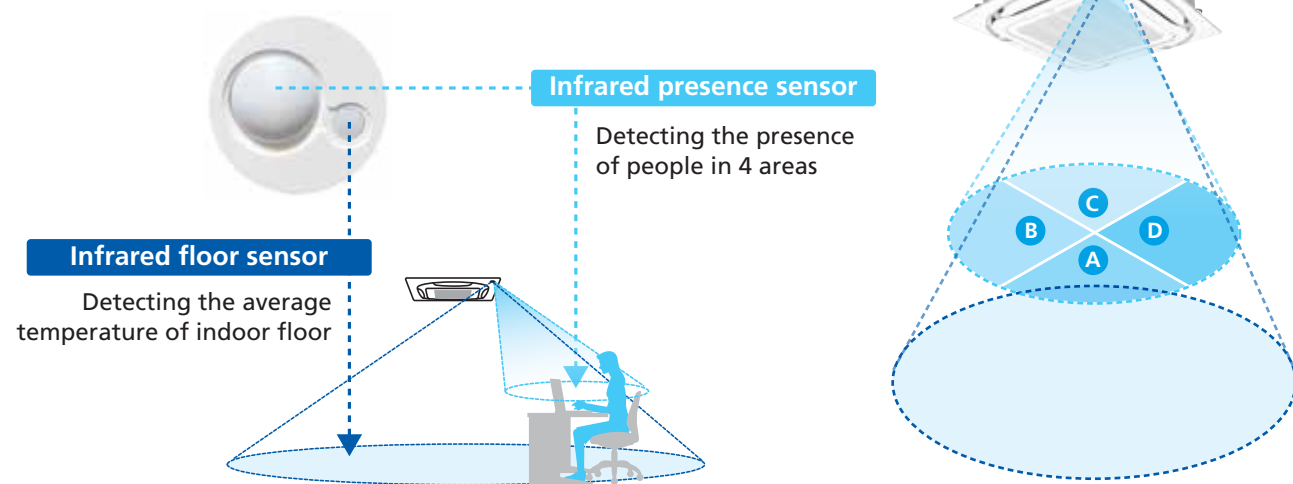
Comfort and energy saving by sensing functions



Daikin advanced sensing technology dual sensors

Comfort and energy saving by sensing functions
*For FXFSQ Models Only

Round flow with sensing
Round flow

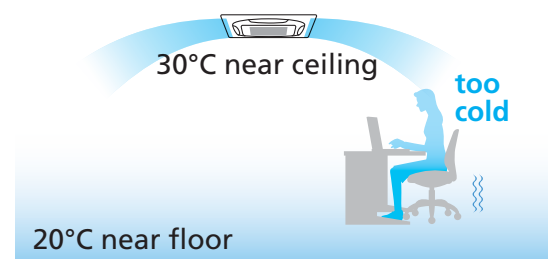


Comfort and energy saving preventing over cooling

Sensors detecting human presence and temperatures near the floor provide comfortable spaces without uneven temperatures.

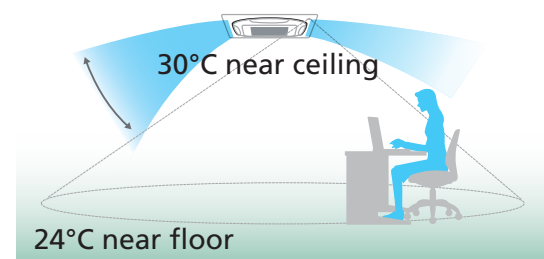
Without sensing function

Cooling



Even when room temperature is detected at 30°C, the floor temperature may be as low as 20°C, causing the feet area to be cold.

With sensing function



To prevent an excessive drop in temperature, room temperature is calculated at 27°C when people are in the vicinity.

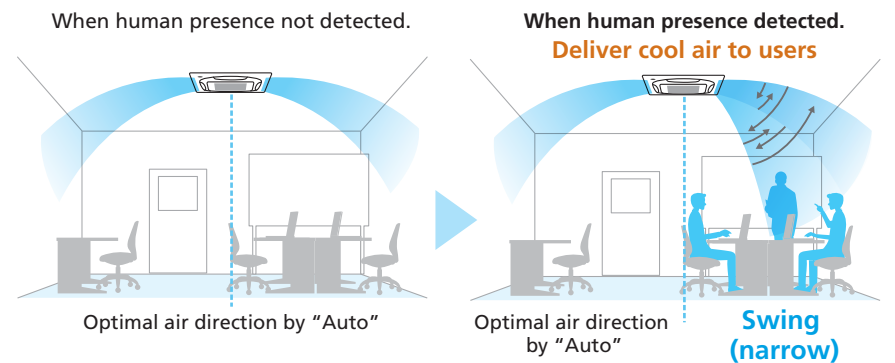
Auto airflow function

Comfort

*When human is not detected for 5 minutes, the unit automatically returns to controlling the flaps for an unoccupied room.

Direct Airflow (default: OFF)

Cooling Dry



Sensing sensor mode

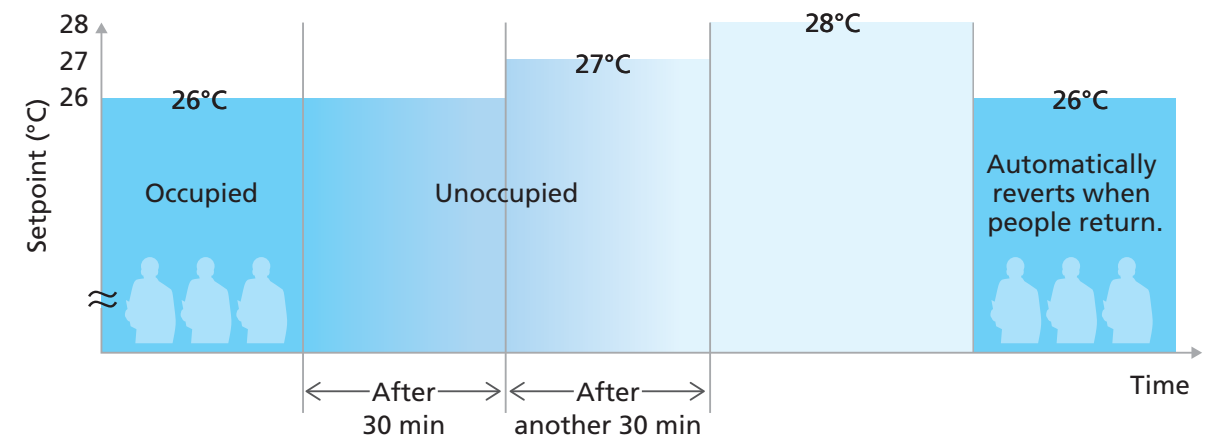
Energy saving

Sensing sensor low mode (default: OFF)

When there are no people in a room, the set temperature is shifted automatically.

Example

- Cooling setpoint: 26°C
- Shift temperature: 1.0°C
- Shift time: 30 min.
- Limit cooling temperature: 30°C



Sensing sensor stop mode (default: OFF)

Based on preset user conditions, the system automatically stops operation if the room is unoccupied.

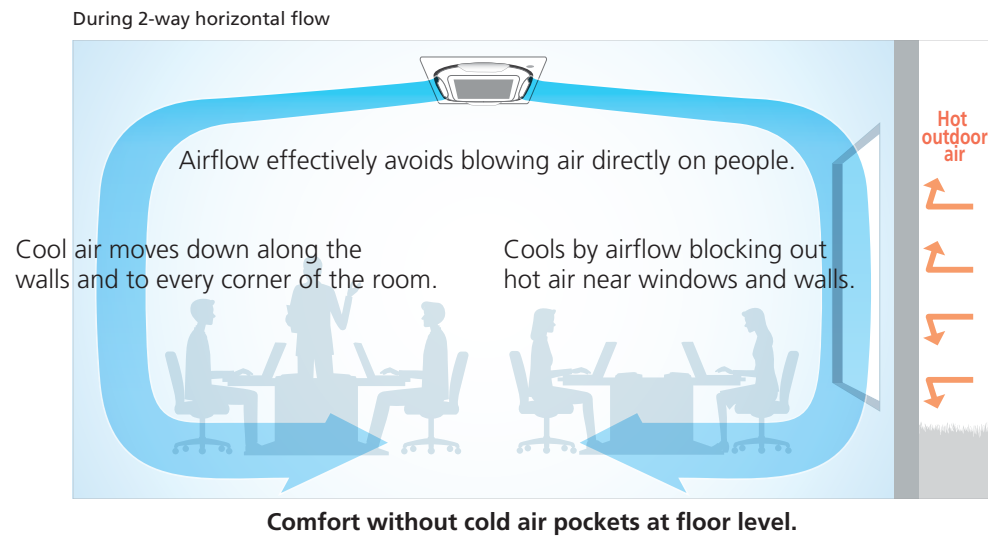
*Adjustment is possible for shift time and set temperature by local setting.

Round Flow Cassette with Sensing Type Circulation airflow*

Configurations of circulation airflow

Circulation airflow cools the entire room to deliver comfort that never feels cold.

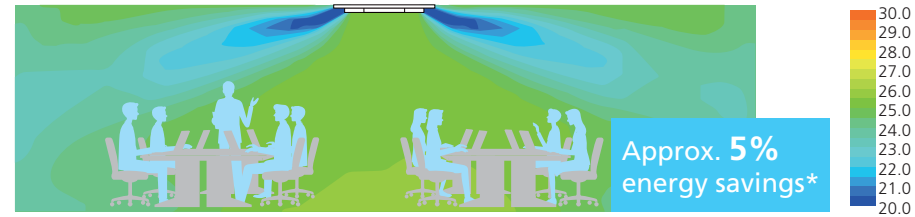
Cooling



4-way cassette (Swing)

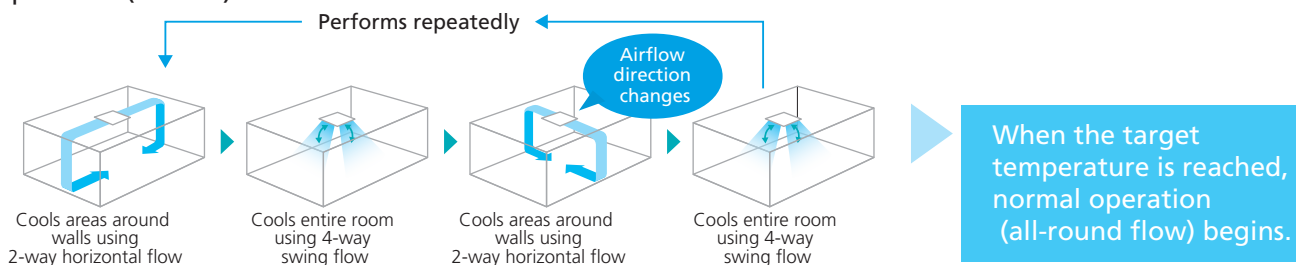


Circulation Airflow (2-way horizontal + 4-way swing)



* Calculated under the following comparison conditions:
When the average temperature at a height of 0.6m above the floor reaches set temperature. (26°C)

Operation (at start)



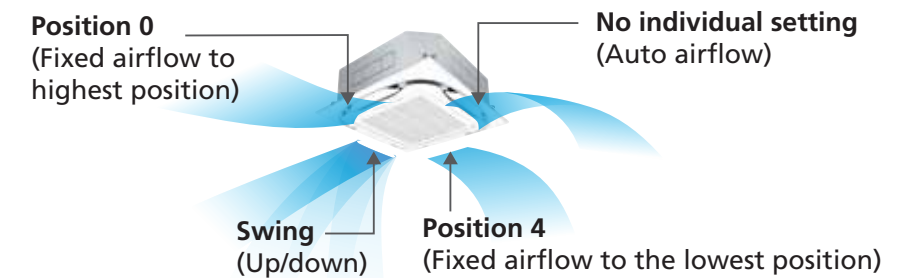
Individual airflow direction control

Comfortable air conditioning for all room layouts and conditions

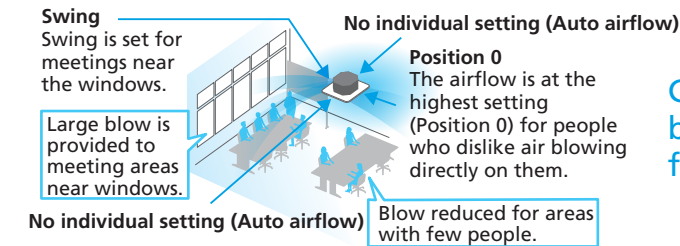
Easy setting is possible with a wired remote controller

Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

- Individual airflow settings
- No individual setting (Auto airflow)
- Position 0 (Highest point)
- Position 1
- Position 2
- Position 3
- Position 4 (Lowest point)
- Swing



Individual settings are possible as stated above.



Comfort is provided to the entire room by individual setting corresponding to 4-way flow conditions.

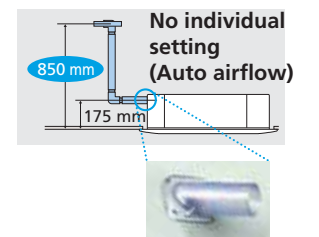
Other functions

Quick and easy installation

Installable in tight ceiling spaces

Min. of 261 mm* ceiling space when using standard panel.

* For FXFSQ25-80A & FXFQ 25-80A models.

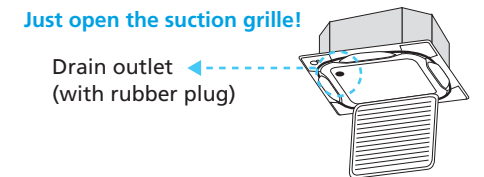


Drain pump is equipped as standard accessory with 850 mm lift.

Easy maintenance

Drain pan and drain water check

The condition of the drain pan and drain water can be checked by removing the suction grille and drain plug.



Cleanliness

Silver ion anti-bacterial drain pan

Prevents the growth of slime, bacteria, and mould that cause odours and clogging.

* Drain pan should be changed once every two to three years.

Filter has anti-mould and antibacterial treatment

High Performance Prefilter (MERV 8) (Option)

This filter can catch more harmful substances in the air such as PM2.5.



BAF552A160



Panel (Option)



Standard panel with sensing
BYCQ125EEF (Fresh White)



Standard panel with sensing
BYCQ125EEK (Black)

Specifications

MODEL	FXFSQ25AV4	FXFSQ32AV4	FXFSQ40AV4	FXFSQ50AV4	FXFSQ63AV4	FXFSQ80AV4	FXFSQ100AV4	FXFSQ125AV4	FXFSQ140AV4	
Power supply	1-phase, 220-240 V, 50 Hz									
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consumption	kW	0.028		0.035	0.056	0.061	0.092	0.164	0.170	0.194
Casing	Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)	m ³ /min	13/12.5/11.5/11/10	17/13.5/12.5/12/11	23/20.5/19/14.5/11	23.5/21/20/16/13.5	24.5/22/20.5/20/15	33.5/30.5/27/23.5/21	34.5/31.5/28.5/25.5/23	35.5/32.5/29.5/26.5/23	
	cfm	459/441/406/388/353	600/477/441/424/388	812/724/671/512/388	830/741/706/565/477	865/777/724/706/530	1,183/1,077/953/830/741	1,218/1,112/1,006/900/812	1,253/1,147/1,041/935/812	
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/28.5/28/27	35/29.5/29/28/27	38/35/34.5/29.5/27	38/36/35.5/31.5/28	39/37/36/35.5/31	44/41/38/35/33	45/42.5/39.5/37/35	46/43.5/40.5/38/35	
Dimensions (HxWxD)	mm	256x840x840			298x840x840					
Machine weight	kg	19		24	22		25	26		
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5				
	Gas (Flare)	φ 12.7				φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Panel (Option)

Standard panel with sensing	Model	BYCQ125EEF (Fresh White)		
	Dimensions(HxWxD)	mm	50x950x950	
Weight	kg	5.5		
Standard panel with sensing	Model	BYCQ125EEK (Black)		
	Dimensions(HxWxD)	mm	50x950x950	
	Weight	kg	5.5	

Function List

Remote controller	Wired		Wireless
	BRC1E63	BRC1H63W(K)	BRC7M635F(K)
Dual sensors *1	○	○	—
Auto airflow function (Direct airflow) *1	○	—	—
Auto airflow function (Draft prevention) *1	○	○	—
Sensing sensor low mode *1	○	○	—
Sensing sensor stop mode *1	○	○	—
Circulation airflow	○	—	—
Individual airflow direction control	○	○	—
Switchable 5 step fan speed	○	○	○
Auto airflow rate	○	○	○
Auto swing	○	○	○
Selectable airflow pattern	○	—	○
High ceiling application	○	○	—

*1. Applicable when sensing panel is installed.

Decoration Panel (Option)

Standard panel



Standard panel
BYCQ125EAF (Fresh White)



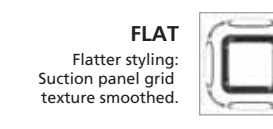
Standard panel
BYCQ125EAK (Black)

New designer panel

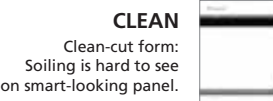
Designer choice has been given a boost with the increase in number of new types of decoration panels.



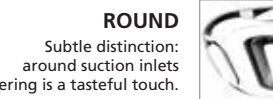
Designer panel
BYCQ125EAPF (Fresh White)



FLAT
Flatter styling:
Suction panel grid texture smoothed.



CLEAN
Clean-cut form:
Soiling is hard to see on smart-looking panel.



ROUND
Subtle distinction:
around suction inlets silvering is a tasteful touch.

Close to ideal styling
New designer panel

Auto grille panel

Grille and air filter cleaning can be performed without need for a stepladder by lowering the grille.

A dedicated remote controller for the auto grille panel is included. Operation is not possible using other remote controllers.



Grille panel can be lowered to a maximum of 3.9 m.
BYCQ125EBSF (Fresh White)

Wireless Remote Controller

Specifications

MODEL	FXFQ25AV4	FXFQ32AV4	FXFQ40AV4	FXFQ50AV4	FXFQ63AV4	FXFQ80AV4	FXFQ100AV4	FXFQ125AV4	FXFQ140AV4	
Power supply	1-phase, 220-240 V, 50 Hz									
Cooling capacity	Btu/h	9,600	12,300	15,400	19,100	24,200	30,700	38,200	47,800	54,600
	kW	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0	16.0
Power consumption	kW	0.029		0.036	0.040	0.063	0.096	0.158	0.178	0.203
Casing	Galvanised steel plate									
Airflow rate (H/HM/M/ML/L)	m ³ /min	13/12.5/11.5/11/10	17/13.5/13/12/11	18/17/13.5/12.5/11	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25/21	35.5/32.5/29.5/26.5/23	
	cfm	459/441/406/388/353	600/477/459/424/388	635/600/477/441/388	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741	1,253/1,147/1,041/935/812	
Sound level (H/HM/M/ML/L)	dB(A)	30/29.5/28.5/28/27	35/29.5/29/28/27	35/33.5/29.5/28.5/27	36/35.5/31.5/31/28	37/36.5/36/35.5/29.5	43/40.5/37.5/35/33	44/41.5/39/36.5/33	46/43.5/40.5/38/35	
Dimensions (HxWxD)	mm	256x840x840			298x840x840					
Machine weight	kg	19		22		25		26		
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5				
	Gas (Flare)	φ 12.7				φ 15.9				
	Drain	VP25 (External Dia. 32/Internal Dia. 25)								

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Decoration Panel (Option)

Standard panel	Model	BYCQ125EAF (Fresh White) / BYCQ125EAK (Black)	
	Dimensions(HxWxD)	mm	50x950x950
Weight	kg	5.5	
Designer panel	Model	BYCQ125EAPF (Fresh White)	
	Dimensions(HxWxD)	mm	97x950x950
Weight	kg	6.5	
Auto grille panel	Model	BYCQ125EBSF (Fresh White)	
	Dimensions(HxWxD)	mm	105x950x950
Weight	kg	8	

Function List

Remote controller	Wired		Wireless
	BRC1E63	BRC1H63W(K)	BRC7M635F(K)
Circulation airflow	○	—	—
Individual airflow direction control	○	○	—
Switchable 5 step fan speed	○	○	○
Auto airflow rate	○	○	○
Auto swing	○	○	○
Selectable airflow pattern	○	○	○
High ceiling application	○	○	—

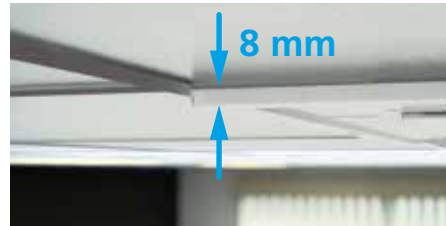
Compact Multi Flow Cassette Type

New FXZQ-B

Quiet, compact, and designed for user comfort

Compact & elegant design

- Fully-flat integration in standard architectural ceiling tiles, leaving only 8 mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white
- The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.



Efficiency & comfort

Dual sensors (Option)

- Two optional intelligent sensors improve energy efficiency and comfort.
- An optional presence and floor sensor kit can be fitted to the cassette for draught prevention, energy-saving operation and to provide optimal control of airflow.

Individual airflow direction control*

- Airflow direction can be individually adjusted for each air discharge outlet to deliver optimal air distribution.

*Applicable when wired remote controller BRC1E63 or BRC1H63W(K) is used.

Auto swing (up/down)

- Possibility to select automatic vertical moving of the air discharge flaps for efficient air and temperature distribution throughout the room.

Cleanliness

New Streamer filter clean unit (Option)

Daikin Streamer technology enhances maximum efficiency in cleaning, which uses powerful decomposition properties to decompose substances captured by the filter for better air quality.



BAPW55A61

Remarks:
 1) Only the stylish remote controller BRC1H63W(K) can be connected for ON/OFF operation of the streamer.
 2) The Streamer function operates only when the fan and air conditioning operation are stopped. The maximum operation of Streamer is 180 minutes per day.

Ceiling soiling prevention

- Prevents air from blowing against the ceiling to prevent ceiling stains.



Specifications

MODEL		FXZQ20BVM4	FXZQ25BVM4	FXZQ32BVM4	FXZQ40BVM4	FXZQ50BVM4
Power supply		1 phase, 220-240V, 50 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Power consumption	kW	0.043		0.045	0.059	0.092
Casing		Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	8.7/7.5/6.5	9.0/8.0/6.5	10.0/8.5/7.0	11.5/9.5/8.0	14.5/12.5/10.0
	cfm	307/265/229	318/282/229	353/300/247	406/335/282	512/441/353
Sound level (H/M/L)	dB(A)	32.0/29.5/25.5	33.0/30.0/25.5	33.5/30.0/26.0	37.0/32.0/28.0	43.0/40.0/33.0
Sound power (H)	dB(A)	49	50	51	54	60
Dimensions (HxWxD)	mm	260x575x575 (For depth add 63 mm for electrical box)				
Machine weight	kg	15.5		16.5	18.5	
Piping connections	Liquid (Flare)	φ 6.4				
	Gas (Flare)	φ 12.7				
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Panel (Option)

Panel type	Grid ceiling panel	Decoration panel
Appearance		
Model	BYFQ60CAW	BYFQ60B3W1
Colour	White (N9.5)	White (6.5Y9.5/0.5)
Dimensions (HxWxD)	mm 46x620x620	mm 55x700x700
Weight	kg 2.8	kg 2.7

Ceiling Mounted Cassette Duct Type

FXFDQ-A

Unprecedented flexibility with revolutionary air blow concept



Specifications

Model name	FXFDQ63AV4	FXFDQ80AV4	FXFDQ100AV4	FXFDQ125AV4	
Power supply	1-phase, 220 V, 50 Hz				
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800
	kW	7.1	9.0	11.2	14.0
Power consumption*1	kW	0.063	0.096	0.158	0.178
Casing	Galvanised steel plate				
Airflow rate (H/HM/M/ML/L)*1	m ³ /min	21/20/16/15/13.5	22.5/21.5/21/20/15	32/29/26/23/21	33/30.5/28/25.5/21
	cfm	741/706/565/530/477	794/759/741/706/530	1,130/1,024/918/812/741	1,165/1,077/988/900/741
External static pressure	Pa	20 to 40 (Rated 30)*2			
Sound level (H/HM/M/ML/L)*1	dB (A)	40/38.5/37/35.5/34	43/41.5/40/38.5/37	46.5/45/43.5/42/40.5	48/46.5/45/43.5/42
Dimensions (HxWxD)	mm	298x840x840			
Machine weight	kg	26			
Piping connections	Liquid (Flare)	φ9.5			
	Gas (Flare)	φ15.9			
	Drain	VP25 (External dia. 34/Internal dia. 25)			
Panel (Option)	Model	BYCDQ125APF			
	Colour	White (N9.5)			
	Dimensions (HxWxD)	110x950x950			
	Weight	7			

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 *1. Values are based on conditions of rated external static pressure (30 Pa).
 *2. External static pressure is changeable to set by the remote controller. (Factory setting is 30 Pa.)

Double Flow Cassette Type

New FXCQ-B

Thin, lightweight, and easy to install in narrow ceiling spaces



Specifications

MODEL	FXCQ20BVM4	FXCQ25BVM4	FXCQ32BVM4	FXCQ40BVM4	FXCQ50BVM4	FXCQ63BVM4	FXCQ80BVM4	FXCQ125BVM4	
Power supply	1-phase, 220-240V, 50 Hz								
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200	30,700	47,800
	kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	14.0
Power consumption	kW	0.031	0.039	0.041	0.059	0.063	0.090	0.149	
Casing	Galvanized steel plate								
Airflow rate (H/HM/M/ML/L)	m ³ /min	10.5/9.5/9/8/7.5	11.5/10.5/9.5/8.5/8	12/11/10.5/9.5/8.5	15/14/13/11.5/10.5	16/15/14/12.5/11.5	26/24/22.5/20.5/18.5	32/29.5/27.5/25/22.5	
	cfm	371/335/318/282/265	406/371/335/300/282	424/388/371/335/300	530/494/459/406/371	565/530/494/441/406	918/847/794/724/653	1,130/1,041/971/883/794	
Sound level (H/HM/M/ML/L)	dB(A)	32/31/30/29/28	34/33/31/30/29	34/33/32/31/30	36/35/33/32/31	37/36/35/33/31	39/38/37/35/32	42/40/38/36/33	46/44/42/40/38
Dimensions (H x W x D)	mm	305x775x620			305x990x620		305x1,445x620		
Machine weight	kg	19			22	25	33	38	
Piping connections	Liquid (Flare)	φ6.4			φ9.5		φ15.9		
	Gas (Flare)	φ12.7			φ15.9		φ15.9		
	Drain	External Dia. 32/Internal Dia. 25							
Panel (Option)	Model	BYBCQ40CF			BYBCQ63CF		BYBCQ125CF		
	Colour	Fresh white (6.5Y 9.5/0.5)							
	Dimensions (HxWxD)	55x1,070x700			55x1,285x700		55x1,740x700		
	Weight	10			11		13		

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Single Flow Cassette Type

FXKQ-MA

Slim design for flexible installation



VRV Indoor Units

Specifications

MODEL	FXKQ25MAVE4	FXKQ32MAVE4	FXKQ40MAVE4	FXKQ63MAVE4	
Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	9,600	12,300	15,400	24,200
	kW	2.8	3.6	4.5	7.1
Power consumption	kW	0.066	0.076	0.105	
Casing	Galvanized steel plate				
Airflow rate (H/L)	m ³ /min	11/9	13/10	18/15	
	cfm	388/318	459/353	635/530	
Sound level (H/L)	220 V	38/33	40/34	42/37	
	240 V	40/35	42/36	44/39	
Dimensions (HxWxD)	mm	215x1,110x710		215x1,310x710	
Machine weight	kg	31		34	
Piping connections	Liquid (Flare)	φ6.4		φ9.5	
	Gas (Flare)	φ12.7		φ15.9	
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			
Panel (Option)	Model	BYK45FJW1		BYK71FJW1	
	Colour	White (10Y9/0.5)			
	Dimensions (HxWxD)	70x1,240x800		70x1,440x800	
Weight	kg	8.5		9.5	

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Bedroom Duct Type

FXDBQ-A

Suitable for close living spaces such as hotels and condominiums



Specifications

MODEL	FXDBQ40AVM4	FXDBQ50AVM4	FXDBQ63AVM4	FXDBQ80AVM4	
Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	15,400	19,100	24,200	30,700
	kW	4.5	5.6	7.1	9.0
Power consumption*1	kW	0.062	0.080	0.090	0.120
Casing	Galvanized steel plate				
Airflow rate (H/HM/M/ML/L)	m ³ /min	13.3/12/10.5/10/8.5	14.8/13/11.5/10.5/9	22/19/18/16/14.5	25/22/20/18/16
	cfm	470/424/371/353/300	522/459/406/371/318	777/671/635/565/512	883/777/706/635/565
External static pressure	Pa	15-50 (15)*2			
Sound level (H/HM/M/ML/L)*1	dB(A)	35/33/31/29/27	37/36/33/31/28	35/33/31/29/27	37/35/34/32/30
Dimensions (HxWxD)	mm	245x700x800		245x1,000x800	
Machine weight	kg	26		36	
Piping connections	Liquid (Flare)	φ6.4		φ9.5	
	Gas (Flare)	φ12.7		φ15.9	
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 *1: Power consumption values are based on conditions of rated external static pressure.
 *2: External static pressure is changeable to set by the remote controller. These values indicate the lowest and highest possible static pressures.
 The rated static pressure is 15 Pa.

Slim Duct (Standard) Type

FXDQ-PD / ND



Slim design, quietness and ideal for drop-ceilings

Specifications

MODEL	with drain pump	FXDQ20PDVE4	FXDQ25PDVE4	FXDQ32PDVE4	FXDQ40NDVE4	FXDQ50NDVE4	FXDQ63NDVE4
	without drain pump	FXDQ20PDVT4	FXDQ25PDVT4	FXDQ32PDVT4	FXDQ40NDVT4	FXDQ50NDVT4	FXDQ63NDVT4
Power supply	1-phase, 220-240 V, 50 Hz						
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	
Power consumption (FXDQ-PD/NDVE4) *1	kW	0.086		0.089	0.160	0.165	0.181
Power consumption (FXDQ-PD/NDVT4) *1	kW	0.067		0.070	0.147	0.152	
Casing	Galvanised steel plate						
Airflow rate (HH/H/L)	m ³ /min	8.0/7.2/6.4		10.5/9.5/8.5		12.5/11.0/10.0	
	cfm	282/254/226		371/335/300		441/388/353	
External static pressure	Pa	30-10 *2		44-15 *2			
Sound level (HH/H/L) *1 *3	dB(A)	28/26/23		28/26/24		30/28/26	
Dimensions (HxWxD)	mm	200x700x620		200x900x620		200x1,100x620	
Machine weight	kg	23		27		31	
Piping connections	Liquid (Flare)	φ6.4		φ9.5			
	Gas (Flare)	φ12.7		φ15.9			
	Drain	VP20 (External Dia. 26/Internal Dia. 20)					

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

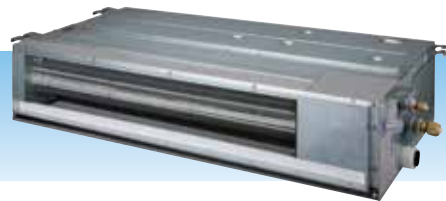
*1: Values are based on the following conditions: FXDQ-PD: external static pressure of 10 Pa; FXDQ-ND: external static pressure of 15 Pa.

*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ-PD models and 15 Pa for FXDQ-ND models.)

*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Slim Duct (Compact) Type

FXDQ-SP



Slim and compact design for easy and flexible installation

Specifications

MODEL	FXDQ20SPV14	FXDQ25SPV14	FXDQ32SPV14	FXDQ40SPV14	FXDQ50SPV14	FXDQ63SPV14
	Power supply	1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100
	kW	2.2	2.8	3.6	4.5	5.6
Power consumption *1	kW	0.072	0.075	0.078	0.180	0.196
Casing	Galvanised steel plate					
Airflow rate (HH/H/L)	m ³ /min	8.7/7.6/6.5	9.0/8.0/7.0	10.0/9.0/8.0	15.0/13.0/10.5	20.0/16.0/12.5
	cfm	307/268/229	318/282/247	353/318/282	530/459/371	706/565/441
External static pressure	Pa	30-10 *2		50-20 *2		40-20 *2
Sound level (HH/H/L) *1 *3	dB(A)	33/31/29		34/32/30		35/33/31
Dimensions (HxWxD)	mm	200x700x450		200x900x450		200x1,100x450
Machine weight	kg	17		20		23
Piping connections	Liquid (Flare)	φ6.4		φ9.5		
	Gas (Flare)	φ12.7		φ15.9		
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

*1: Values are based on the following conditions: FXDQ20-32SP: external static pressure of 10 Pa; FXDQ40-63SP: external static pressure of 20 Pa.

*2: External static pressure is changeable to set by the remote controller. This pressure means "High static pressure - Standard". (Factory setting is 10 Pa for FXDQ20-32SP models and 20 Pa for FXDQ40-63SP models.)

*3: The values of operation sound level represent those for rear-suction operation. Sound level values for bottom-suction operation can be obtained by adding 5 dB(A).

Middle Static Pressure Duct Type

VRV Indoor Units

FXSQ-PA

Middle static pressure and slim design allow flexible installations



Specifications

MODEL	FXSQ20PAV4	FXSQ25PAV4	FXSQ32PAV4	FXSQ40PAV4	FXSQ50PAV4
	Power supply	1-phase, 220-240 V, 50 Hz			
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400
	kW	2.2	2.8	3.6	4.5
Power consumption	kW	0.058*1		0.066*1	0.101*1
Casing	Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	9/7.5/6.5	9.5/8/7	15/12.5/10.5	17/14.5/11.5
	cfm	318/265/230	335/282/247	530/441/371	600/512/406
External static pressure	Pa	30-150 (50) *2			50-150 (50) *2
Sound level (H/M/L)	dB(A)	33/30/28		34/32/30	36/33/30
Dimensions (HxWxD)	mm	245x550x800		245x700x800	245x1,000x800
Machine weight	kg	25		27	35
Piping connections	Liquid (Flare)	φ6.4			
	Gas (Flare)	φ12.7			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

MODEL	FXSQ63PAV4	FXSQ80PAV4	FXSQ100PAV4	FXSQ125PAV4	FXSQ140PAV4
	Power supply	1-phase, 220-240 V, 50 Hz			
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800
	kW	7.1	9.0	11.2	14.0
Power consumption	kW	0.106*1	0.126*1	0.151*1	0.206*1
Casing	Galvanised steel plate				
Airflow rate (H/M/L)	m ³ /min	21/17.5/14.5	23/19.5/16	32/27/22.5	37/31.5/26
	cfm	741/618/512	812/688/565	1,130/953/794	1,306/1,112/918
External static pressure	Pa	50-150 (50) *2			50-140 (50) *2
Sound level (H/M/L)	dB(A)	36/32/29		37.5/34/30	39/35/32
Dimensions (HxWxD)	mm	245x1,000x800		245x1,400x800	245x1,550x800
Machine weight	kg	35		46	52
Piping connections	Liquid (Flare)	φ9.5			
	Gas (Flare)	φ15.9			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

Notes:

- Specifications are based on the following conditions:
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

*1: Power consumption values are based on conditions of rated external static pressure.

*2: External static pressure can be modified using a remote controller that offers thirteen (FXSQ20-40PA), eleven (FXSQ50-125PA) or ten (FXSQ140PA) levels of control. These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa.

Middle-High Static Pressure Duct Type

FXMQ-PA

Middle and high static pressure allows for flexible duct design



Specifications

MODEL	FXMQ20PAV4	FXMQ25PAV4	FXMQ32PAV4	FXMQ40PAV4	FXMQ50PAV4
	Power supply	1-phase, 220-240 V, 50 Hz			
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400
	kW	2.2	2.8	3.6	4.5
Power consumption	kW	0.056 *1		0.060 *1	0.151 *1
Casing	Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min	9/7.5/6.5	9.5/8/7	16/13/11	18/16.5/15
	cfm	318/265/230	335/282/247	565/459/388	635/582/530
External static pressure	Pa	30-100 (50) *2		30-160 (100) *2	50-200 (100) *2
Sound level (HH/H/L)	dB(A)	33/31/29		34/32/30	39/37/35
Dimensions (HxWxD)	mm	300x550x700		300x700x700	300x1,000x700
Machine weight	kg	25		27	35
Piping connections	Liquid (Flare)	φ6.4			
	Gas (Flare)	φ12.7			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

MODEL	FXMQ63PAV4	FXMQ80PAV4	FXMQ100PAV4	FXMQ125PAV4	FXMQ140PAV4
	Power supply	1-phase, 220-240 V, 50 Hz			
Cooling capacity	Btu/h	24,200	30,700	38,200	47,800
	kW	7.1	9.0	11.2	14.0
Power consumption	kW	0.138 *1	0.185 *1	0.215 *1	0.284 *1
Casing	Galvanised steel plate				
Airflow rate (HH/H/L)	m ³ /min	19.5/17.5/16	25/22.5/20	32/27/23	39/33/28
	cfm	688/618/565	883/794/706	1,130/953/812	1,377/1,165/988
External static pressure	Pa	50-200 (100) *2			50-140 (100) *2
Sound level (HH/H/L)	dB(A)	42/40/38		43/41/39	44/42/40
Dimensions (HxWxD)	mm	300x1,000x700		300x1,400x700	
Machine weight	kg	35		45	46
Piping connections	Liquid (Flare)	φ9.5			
	Gas (Flare)	φ15.9			
	Drain	VP25 (External Dia. 32/Internal Dia. 25)			

Notes: Specifications are based on the following conditions:

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.

During actual operation, these values are normally somewhat higher as a result of ambient conditions.

*1: Power consumption values are based on conditions of rated external static pressure.

*2: External static pressure can be modified using a remote controller that offers seven (FXMQ20-32PA), thirteen (FXMQ40PA), fourteen (FXMQ50-125PA) or ten (FXMQ140PA) levels of control.

These values indicate the lowest and highest possible static pressures. The rated static pressure is 50 Pa for FXMQ20-32PA and 100 Pa for FXMQ40-140PA.

High Static Pressure Duct Type

FXMQ-P

High static pressure allows for flexible duct design.



Specifications

MODEL		FXMQ200PVM	FXMQ250PVM
Power supply		1-phase, 220-240 V, 50 Hz	
Cooling capacity	Btu/h	76,400	95,500
	kW	22.4	28.0
Power consumption	kW	0.55 *1	0.67 *1
Casing		Galvanised steel plate	
Airflow rate (HH/H/L)	m ³ /min	74/61/50	84/71/58
	cfm	2,612/2,153/1,765	2,965/2,506/2,047
External static pressure	Pa	50-250 (150) *2	50-250 (150) *2
Sound level (HH/H/L)	dB(A)	42/38/35	44/40/37
Dimensions (H x W x D)	mm	470x1,490x1,100	470x1,490x1,100
Machine weight	kg	95	105
Piping connections	Liquid (Flare)	φ 9.5	
	Gas (Flange)	φ 19.1	φ 22.2
	Drain	BSP1"	

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.
 *1: Power consumption values are based on conditions of rated external static pressure.
 *2: External static pressure can be modified using a remote controller that offers fifteen levels of control.
 These values indicate the lowest and highest possible static pressures. The standard static pressure is 150 Pa.

Wall Mounted Type

FXAQ-A

Stylish flat panel design harmonised with your interior décor



Specifications

MODEL		FXAQ20AVM4	FXAQ25AVM4	FXAQ32AVM4	FXAQ40AVM4	FXAQ50AVM4	FXAQ63AVM4
Power supply		1-phase, 220 V, 50 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	kW	0.040	0.040	0.040	0.050	0.060	0.100
Casing		Resin / White N9.5					
Airflow rate (H/L)	m ³ /min	9.1/7.0	9.4/7.0	9.8/7.0	12.2/9.7	15.0/12.0	19.0/14.0
	cfm	321/247	332/247	346/247	431/342	530/424	671/494
Sound level (H/L)	dB(A)	33.0/28.5	35.0/28.5	37.5/28.5	37.0/33.5	41.0/35.5	46.5/38.5
Dimensions (H x W x D)	mm	290x795x266			290x1,050x269		
Machine weight	kg	12			15		
Piping connections	Liquid (Flare)	φ 6.4			φ 9.5		
	Gas (Flange)	φ 12.7			φ 15.9		
	Drain	VP13 (External Dia. 18/Internal Dia. 15)					

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Ceiling Suspended Type

New FXHQ-MA / B

FXHQ32 / 63 / 100MA

New FXHQ125 / 140B

Slim body with quiet and wide airflow



Specifications

MODEL		FXHQ32MAV7	FXHQ63MAV7	FXHQ100MAV7	FXHQ125BVM4	FXHQ140BVM4
Power supply		1-phase, 220-240 V, 50 Hz				
Cooling capacity	Btu/h	12,300	24,200	38,200	48,000	52,900
	kW	3.6	7.1	11.2	14.1	15.5
Power consumption	kW	0.111	0.115	0.135	0.168	0.181
Casing		White (10Y9/0.5)			Sheet Metal / White	
Airflow rate (H/M/L)	m ³ /min	12/-/10	17.5/-/14	25/-/19.5	34/26/20	36/27/20
	cfm	424/-/353	618/-/494	883/-/688	1,200/918/706	1,271/953/706
Sound level (H/M/L)	dB(A)	36/-/31	39/-/34	45/-/37	46/41/37	48/42/37
Dimensions (H x W x D)	mm	195x960x680	195x1,160x680	195x1,400x680	235x1,590x690	
Machine weight	kg	24	28	33	41	
Piping connections	Liquid (Flare)	φ 6.4	φ 9.5			
	Gas (Flange)	φ 12.7	φ 15.9			
	Drain	VP20 (External Dia. 26/Internal Dia. 20)				

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit and 1 m downward.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Floor Standing Type

FXLQ-MA

Suitable for perimeter zone air conditioning



Specifications

MODEL		FXLQ20MAVE4	FXLQ25MAVE4	FXLQ32MAVE4	FXLQ40MAVE4	FXLQ50MAVE4	FXLQ63MAVE4
Power supply		1-phase, 220-240 V, 50 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	kW	0.049		0.090		0.110	
Casing		Ivory white (5Y7.5/1)					
Airflow rate (H/L)	m ³ /min	7/6		8/6	11/8.5	14/11	16/12
	cfm	247/212		282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	35/32			38/33	39/34	40/35
	240 V	37/34			40/35	41/36	42/37
Dimensions (H x W x D)	mm	600x1,000x222		600x1,140x222		600x1,420x222	
Machine weight	kg	25		30		36	
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5	
	Gas (Flare)	φ 12.7				φ 15.9	
	Drain	210.D.					

Notes: Specifications are based on the following conditions;
 • Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
 • Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
 • Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m.
 During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Concealed Floor Standing Type

FXNQ-MA

Designed to be concealed in the perimeter skirting-wall



Specifications

MODEL		FXNQ20MAVE4	FXNQ25MAVE4	FXNQ32MAVE4	FXNQ40MAVE4	FXNQ50MAVE4	FXNQ63MAVE4
Power supply		1-phase, 220-240 V, 50 Hz					
Cooling capacity	Btu/h	7,500	9,600	12,300	15,400	19,100	24,200
	kW	2.2	2.8	3.6	4.5	5.6	7.1
Power consumption	kW	0.049		0.090		0.110	
Casing		Galvanised steel plate					
Airflow rate (H/L)	m ³ /min	7/6		8/6	11/8.5	14/11	16/12
	cfm	247/212		282/212	388/300	494/388	565/424
Sound level (H/L)	220 V	35/32		38/33		39/34	40/35
	240 V	37/34		40/35		41/36	42/37
Dimensions (H x W x D)	mm	610x930x220		610x1,070x220		610x1,350x220	
Machine weight	kg	19.0		23.0		27.0	
Piping connections	Liquid (Flare)	φ 6.4				φ 9.5	
	Gas (Flare)	φ 12.7				φ 15.9	
	Drain	210.D.					

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- Sound level: Anechoic chamber conversion value, measured at a point 1.5 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

Clean Room Air Conditioner

FXB(P)Q-P

Suitable for hospitals and other clean spaces



Specifications

Type	Integrated outlet unit model			Separate outlet unit model
MODEL	Indoor unit	FXBQ40PVE4	FXBQ50PVE4	FXBQ63PVE4
	Outlet unit	Integrated with the indoor unit		
Power supply		1-phase, 220-240 V, 50 Hz		
Cooling capacity	Btu/h	15,400	19,100	24,200
	kW	4.5	5.6	7.1
Power consumption	kW	0.31		0.45
Intake filter efficiency *1		70% by gravimetric method		
Outlet HEPA filter efficiency *2		99.97% by DOP method *5		
Indoor unit weight	kg	140 *3	185 *3	120 *6
Casing		Galvanised steel plate		
Airflow rate (H/L)	m ³ /min	19.5/17.5		26/22.5
	cfm	688/618		918/794
Sound level (H/L) *4	dB(A)	44/42		
Dimensions (HxWxD)	mm	492x1,788x1,000		492x1,788x1,300
Outlet unit weight	kg	-		65 *3
Piping connections	Liquid (Flare)	φ 6.4		φ 9.5
	Gas (Flare)	φ 12.7		φ 15.9
	Drain	PT1B		
Filter(Optional)	HEPA filter	BAFH82A50		BAFH82A63
Panel (Option)	Ceiling intake type	BYB82A50C		BYB82A63C
	Floor-level intake type	BYB82A50W		BYB82A63W

Notes: Specifications are based on the following conditions;

- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- *1: An intake air filter is only attached to the ceiling intake type.
- *2: HEPA filter sold separately. The dust collection efficiency of HEPA filter is 99.97%. However, air may slightly leak around the filter when installing.
- *3: Weight including HEPA filter and panel.
- *4: Anechoic chamber conversion value under JIS B 8616 test conditions. Value usually increases slightly in practice due to surrounding conditions.
- *5: The clean room air conditioner does not support DOP testing (leak test) based on GMP standards (Standards for Manufacturing Control and Quality Control for Medical Devices) due to slight leakage at time of product installation.
- *6: Weight including panel.
- *In the case of an installation in an operating theatre etc. where an air conditioner malfunction may have serious consequences, please build in redundancy with two or more outdoor units.

Floor Standing Duct Type

FXVQ-N

Large airflow type for large spaces



Specifications

MODEL		FXVQ125NY14	FXVQ200NY14	FXVQ250NY14	FXVQ400NY14	FXVQ500NY14
Power supply		3-phase 4-wire system, 380-415 V, 50 Hz				
Cooling capacity	Btu/h	47,800	76,400	95,500	154,000	191,000
	kW	14.0	22.4	28.0	45.0	56.0
Power consumption	kW	0.53	1.33	1.61	3.97	2.62
Casing colour		Ivory white (5Y7.5/1)				
Dimensions (H x W x D)	mm	1,670x750x510	1,670x950x510	1,670x1,170x510	1,900x1,170x720	1,900x1,470x720
Machine weight	kg	118	144	169	236	281
Sound level *1	dB(A)	52	56	60	65	62
Piping connections	Liquid	φ 9.5 (Brazing)			φ 12.7 (Brazing)	
	Gas	φ 15.9 (Brazing)	φ 19.1 (Brazing)	φ 22.2 (Brazing)	φ 28.6 (Brazing)	
	Drain	Rp1 (PS 1B internal thread)				
Air filter	Type	Long-life filter (anti-mould resin net)				
Fan	Motor output	0.75		1.5		3.7
	Airflow rate	m ³ /min	43	69	86	134
		cfm	1,518	2,436	3,036	4,730
	External static pressure *2	Pa	152	217	281	420
Drive system		Belt drive system				

Notes: Specifications are based on the following conditions;

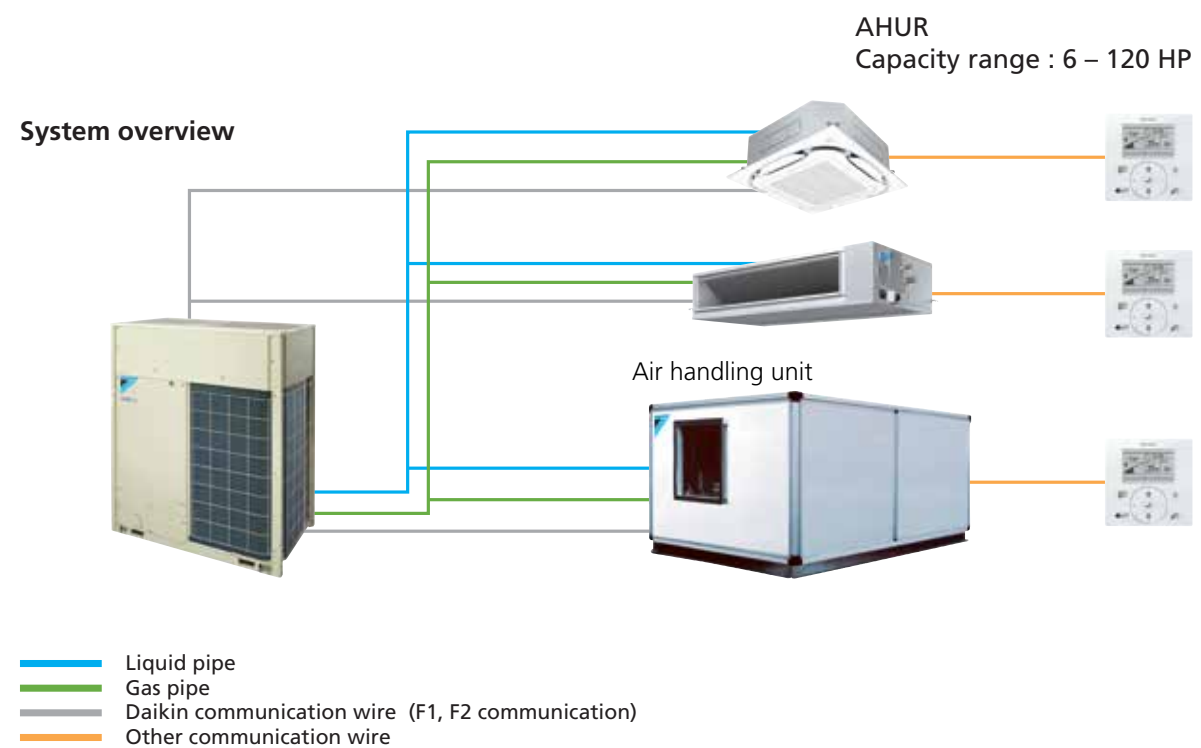
- Cooling: Indoor temp.: 27°CDB, 19°CWB, Outdoor temp.: 35°CDB, Equivalent piping length: 7.5 m, Height difference: 0 m.
- Capacity of indoor unit is only for reference. Actual capacity of indoor unit is based on the total capacity index. (See Engineering Data Book for details.)
- *1: Sound level : measured when the air discharge outlet duct (2 m) is attached (anechoic chamber conversion value). It increases by approximately 5 dB(A) when the plenum chamber is installed to deliver direct airflow.
- *2: The value is the external static pressure with standard pulley.

Air Handling Unit

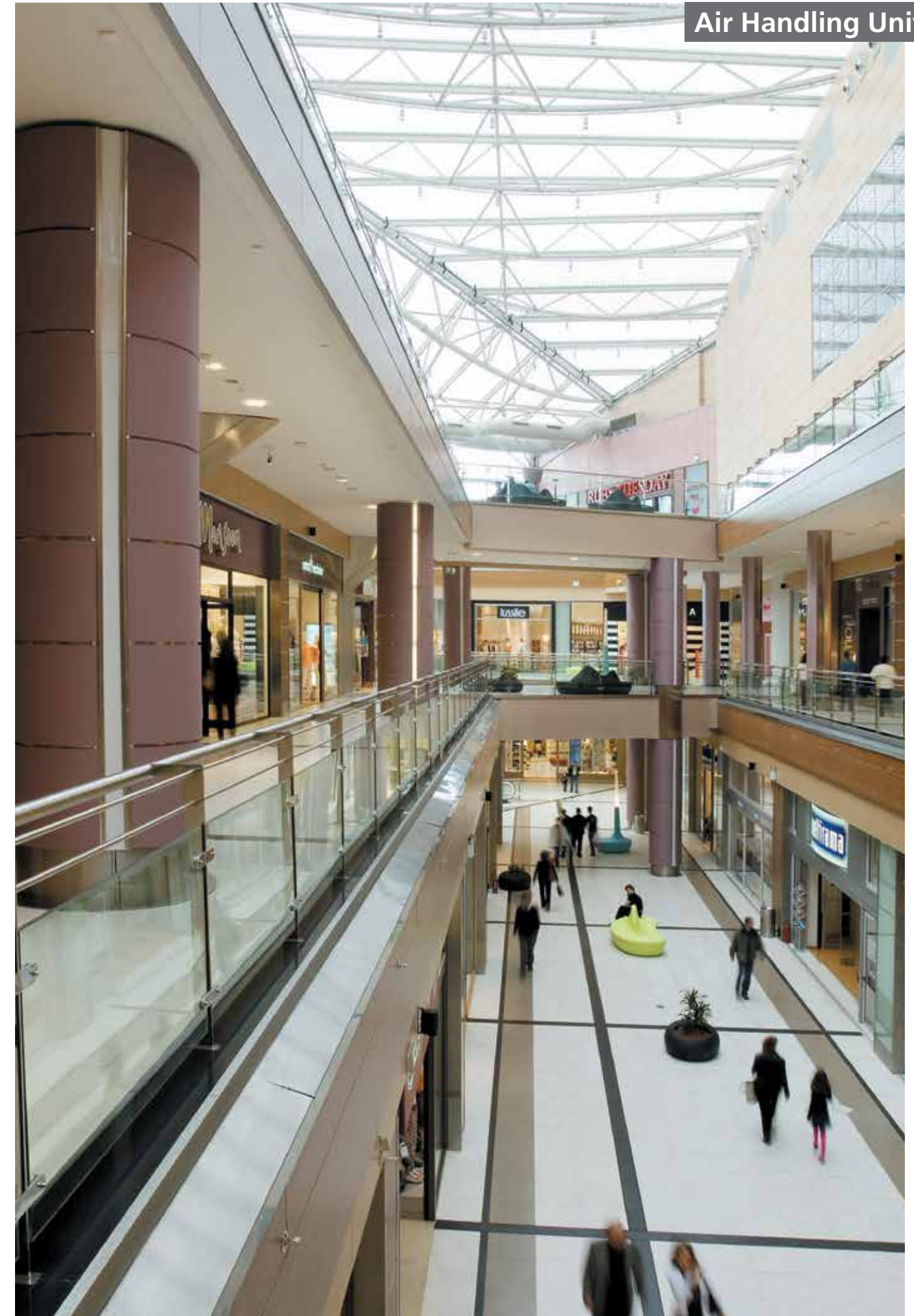
Integrate your air handling unit in a total solution for large size spaces such as factories and large stores.



- Easy design and installation
The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc are required.
- Inverter controlled units
- Control of air temperature via standard Daikin wired remote control for standard series

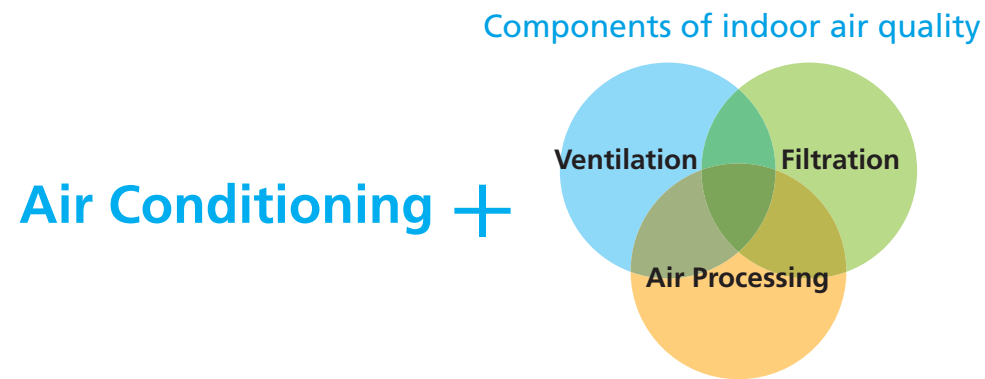


Daikin air handling units can be connected to **VRV** systems. This combination can be built to order as a system. Outdoor air series is also possible. Please contact your local sales office for details.



Air Treatment Equipment

Daikin's air treatment systems creating a higher IAQ



A recent trend rapidly gaining popularity is for air treatment to be required as well as air conditioning. Daikin has a lineup of 3 products that provide adequate IAQ, according to the client's needs.

Our Solutions for Indoor Air Quality Problems

You may think cool and comfortable air-conditioned room is enough, but...

1 If the windows are closed in an air-conditioned room

Virus and CO₂ will accumulate in the room.

2 But if you open the windows...

PM2.5 and humidity will come in, and it will become hot.

3 Let's close the windows and turn on the air purifier!

Air conditioning regulates heat and humidity, and air purifier can remove PM2.5, but CO₂ remains high. It is hard to concentrate.

4 If you have mechanical ventilation system such as Heat Reclaim Ventilator...

Finally, the CO₂ has been removed, and a comfortable space has been achieved!

Ventilation equipment can be selected according to suit purpose and circumstances

	Outdoor Air Processing Unit		Heat Reclaim Ventilator	
	FXMQ-MF series	FXMQ-BF series	VKM-GC series	VAM-H series
Connections with VRV systems	Refrigerant Piping	Connectable	Connectable	Not connectable
	Wiring	Connectable	Connectable	Connectable
	After-cool & After-heat Control	Available	Available	Not available
Ventilation class		Class 2	Class 1	Class 1
		Air supply only	Air supply & air exhaust	Air supply & air exhaust
Heat Exchange Element	—	—	Energy savings obtained	Energy savings obtained
High Efficiency Filter (Option)	Available	—	Available	Available
PM2.5 Filter (Option)	—	—	Available	Available
MERV8/14 Filter (Option)	—	Available	—	—
Airflow Rate	1,080 - 2,100 m ³ /h	690 - 2,160 m ³ /h	500 - 950 m ³ /h	150 - 2,000 m ³ /h

*1. Optional filter is necessary. Refer to option list for details.
*2. Refers to bringing outdoor air to near indoor temperature and delivering to a room.

Ventilation class

Class 1 Ventilation	Class 2 Ventilation	Class 3 Ventilation
Installing a Heat Reclaim Ventilator enables mechanical ventilation to control both air supply and air exhaust while ensuring continuous room comfort through the supply of temperature-controlled air.	Mechanical ventilation is used for air supply, and natural ventilation is used for air exhaust. This prevents dirty outdoor air from entering and maintains a clean environment even for large spaces.	Natural ventilation is used for air supply, and mechanical ventilation is used for air exhaust. Odours and steam generated indoors are eliminated before spreading to other areas.

Air Treatment Equipment

FXMQ-MF Series

Combine fresh air treatment & air conditioning, supplied from a single system.



Specifications

Type		Ceiling Mounted Duct Type			
MODEL		FXMQ125MFV7	FXMQ200MFV7	FXMQ250MFV7	
Power supply		1-phase 220-240 V, 50 Hz			
Cooling capacity *1	Btu/h	47,800	76,400	95,500	
	kW	14.0	22.4	28.0	
Power consumption	kW	0.359	0.548	0.638	
Casing		Galvanised steel plate			
Dimensions (H x W x D)		mm 470 x 744 x 1,100			
Fan	Motor output	kW 0.380			
	Airflow rate	m ³ /min	18	28	
		cfm	635	988	
	External static pressure	220 V/240 V	Pa	185/225	225/275
Air filter		*2			
Refrigerant piping	Liquid	mm ϕ 9.5 (Flare)			
	Gas	mm ϕ 15.9 (Flare)	mm ϕ 19.1 (Brazing)	mm ϕ 22.2 (Brazing)	
	Drain	mm PS1B female thread			
Machine weight	kg	86	123		
Sound level *3	220 V/240 V	dB(A) 42/43		47/48	
Connectable outdoor units *4		6 HP and above	8 HP and above	10 HP and above	
Operation range (Fan mode operation between 15 and 19°C)		19 to 43°C			
Range of the discharge temperature *5		13 to 25°C			

- Notes: *1. Specifications are based on the following conditions:
 • Cooling: Outdoor temp. of 33°CDB, 28°CWB (68% RH), and discharge temp. of 18°CDB.
 • Equivalent reference piping length: 7.5 m (0 m horizontal)
 *2. An intake filter is not supplied, so be sure to install the optional long-life filter or high-efficiency filter.
 *3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.
 *4. It is possible to connect to the outdoor unit if the total capacity of the indoor units is 50% to 100% of the capacity index of the outdoor unit.
 *5. Local setting mode is not displayed on the remote controller.
 • This equipment cannot be incorporated into the remote group control of the VRF system.

New FXMQ-BF Series

Improve IAQ with fresh air ventilation & precise room temperature control



Specifications

Model		FXMQ80BFV24	FXMQ140BFV24	FXMQ200BFV24	FXMQ250BFV24	
Power supply		1 phase, 220 V, 50 Hz				
Cooling capacity *1	Btu/h	30,700	54,600	76,400	95,500	
	kW	9.0	16.0	22.4	28.0	
Power consumption	kW	0.080	0.100	0.115	0.180	
Casing		Galvanised steel plate				
Dimensions (HxWxD)		mm 300x700x700				
Fan	Motor output	kW 0.140				
	Airflow rate (H/M/L)	m ³ /min	11.5/8.6/5.8	20.5/15.4/10.3	29.0/21.8/14.5	36.0/27.0/18.0
		cfm	406/304/205	724/544/364	1,024/770/512	1,271/953/635
	External static pressure	Pa Rated 100 (200-50)				
Air filter		*2				
Refrigerant piping	Liquid	mm ϕ 9.5 (Flare)				
	Gas	mm ϕ 15.9 (Flare)	mm ϕ 19.1 (Brazing)	mm ϕ 22.2 (Brazing)		
	Drain	mm VP25 (External dia. 32, Internal dia. 25)				
Machine weight	kg	29	37	47	48	
Sound level (H/M/L) *3	dB(A)	37.5/30/23	41/34/25	42/35/26	44/36/27	
Operation range *4		°CDB 15 to 43				

- Notes:
 *1. The capacity is the maximum value under the following conditions:
 • Cooling: Indoor temp. of 33°CDB, 28°CWB, Outdoor temp. of 33°CDB.
 • Equivalent reference piping length: 7.5 m (0 m horizontal)
 • The rated external static pressure and air volume are set in ().
 *2. An intake filter is not supplied, so be sure to install the optional filter.
 *3. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre. These values are normally somewhat higher during actual operation as a result of ambient conditions.
 *4. The operation range can be extended to 15°C by field setting.
 When fresh air intake mode is enabled, operation range cannot be extended. (limit at 19 to 43°C)

Air Treatment Equipment

VKM-GC Series

Air quality improvement by introducing fresh outdoor air in the room



Specifications

MODEL			VKM50GCVE	VKM80GCVE	VKM100GCVE
Refrigerant			R-410A		
Power Supply			1-phase, 220-240 V, 50 Hz		
Airflow Rate & External Static Pressure (Ultra-high / High / Low) (Note 4)	Airflow	m ³ /h	500/500/440	750/750/640	950/950/820
	Static pressure	Pa	210/170/140	220/180/125	170/120/90
Power Consumption (Ultra-high / High / Low)	Heat exchange mode	W	270/230/170	390/335/220	440/370/260
	Bypass mode	W	305/260/200	390/335/220	440/370/260
Fan Type			Sirocco Fan		
Motor Output			kW 0.21x2		
Sound Level (Note 3) (Ultra-high / High / Low)	Heat exchange mode	dB	43/40.5/39	41.5/39/37	41/39/36.5
	Bypass mode	dB	43/41/39	41.5/39/37	41/39/36.5
Temp. Exchange Efficiency (Ultra-high / High / Low)			% 76/76/77.5		
Enthalpy Exchange Efficiency (Ultra-high / High / Low)	Cooling	%	64/64/67	66/66/68	62/62/66
	Heating	%	67/67/69	71/71/73	65/65/69
Heat Exchanging System			Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange		
Heat Exchanger Element			Specially Processed Non flammable Paper		
Air Filter			Multidirectional Fibrous Fleeces		
DX-coil Capacity (Cooling / Heating) (Note 1) (Note 2)			kW 2.8 / 3.2		
Dimensions (HeightxWidthxDepth)			mm 387 x 1,764 x 832		
Piping Connection	Liquid	mm	ϕ 6.4 (Flare)		
	Gas	mm	ϕ 12.7 (Flare)		
	Drain		PT3/4 External Thread		
Machine Weight			kg 92	113	115
Unit Ambient Condition	Around Unit		0°C-40°CDB, 80%RH or less		
	OA (Note 5)		-15°C-40°CDB, 80%RH or less		
	RA (Note 5)		0°C-40°CDB, 80%RH or less		

- Notes: 1. Indoor temperature: 27°CDB, 19°CWB, Outdoor temperature: 35°CDB
 2. Indoor temperature: 20°CDB, Outdoor temperature: 7°CDB, 6°CWB
 3. The operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chamber built in accordance with the JIS C 1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value.
 For operation in a quiet room, it is required to take measures to lower the sound.
 For details, refer to the Engineering Data.
 4. Airflow rate can be changed over to Low mode or High mode.
 5. OA: fresh air from outdoor. RA: return air from room.
 6. Temperature exchange efficiency is the mean value for Cooling and Heating. Efficiency is measured under the following condition: Ratio of rated external static pressure outdoor to indoor is kept constant at 7 to 1.

Air Treatment Equipment

VAM-H Series

Daikin VAM series ensures fresh air intake & energy savings



Specifications

Model			VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE		
Power Supply			Single phase, 220-240 V, 50 Hz										
Temperature exchange efficiency (50/60 Hz)	For Cooling	Ultra-High	66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5		
		High	66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5		
		Low	69.0/69.5	65.0/65.5	70.0/70.0	63.0/64.0	62.5/63.0	64.0/65.0	61.5/62.0	65.5/66.0	65.5/65.5		
Enthalpy exchange efficiency (50/60 Hz)	For Cooling	Ultra-High	63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0		
		High	63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0		
		Low	66.0/66.5	61.5/62.0	64.5/65.0	64.0/65.0	62.5/63.0	64.5/65.5	62.0/62.5	65.5/66.0	64.5/64.5		
Power Consumption (50/60 Hz)	Heat exchange mode	Ultra-High	96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,763		
		High	90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	1,241-1,311/1,526		
		Low	68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,188		
	Bypass mode	Ultra-High	96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,763		
		High	90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	1,241-1,311/1,526		
		Low	68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,188		
Sound Level (50/60 Hz)	Heat exchange mode	Ultra-High	33.0-34.0/34.0	33.0-34.0/33.5	32.0-33.0/34.5	36.0-37.0/38.5	37.5-38.0/38.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5		
		High	30.5-32.0/28.0	31.5-32.5/28.0	30.0-31.5/27.5	35.0-36.0/35.0	36.0-36.5/37.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0		
		Low	23.0-25.5/20.0	23.0-25.5/21.0	26.5-28.5/22.0	32.0-34.0/31.0	34.0-35.0/32.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5		
	Bypass mode	Ultra-High	33.5-34.0/36.0	33.0-34.0/34.5	32.5-33.5/34.5	36.0-37.0/38.5	39.5-40.0/42.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5		
		High	31.5-33.0/28.5	31.0-32.5/29.0	31.0-32.0/27.5	35.0-36.0/35.0	38.0-38.5/39.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0		
		Low	23.0-25.5/20.5	23.5-25.5/21.5	27.0-29.0/23.0	32.0-34.0/31.0	35.5-36.5/33.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5		
Casing			Galvanised steel plate										
Insulation Material			Self-extinguishable polyurethane foam										
Dimensions (H x W x D)			278 x 551 x 810		306 x 800 x 879		338 x 832 x 973		387 x 1,012 x 1,110		785 x 1,012 x 1,110		
Machine Weight			22		31		41		43		63		
Heat Exchange System			Specially processed nonflammable paper										
Heat Exchange Element Material			Multidirectional fibrous fleeces										
Fan	Type		Sirocco fan										
	Airflow Rate (50/60 Hz)	Ultra-High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000		
		High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000		
		Low	100/80	165/145	275/235	470/420	570/495	720/610	880/835	1,350/1,250	1,650/1,580		
	External static pressure (50/60 Hz)	Ultra-High	125-140/155	115-130/135	170-185/230	165-190/245	185-190/260	210-235/250	205-225/220	195-215/235	190-210/210		
		High	100-120/100	80-90/60	145-165/80	140-175/180	140-155/210	170-215/140	155-195/100	150-180/125	140-180/85		
Low	44-80/28	35-75/20	90-102/36	124-155/127	108-119/122	138-174/81	115-150/70	123-146/88	96-123/53				
Motor Output		kW	0.030 x 2		0.060 x 2		0.100 x 2		0.170 x 2		0.190 x 4		
Effective ventilation rate			Ultra-High % 90										
Connection duct diameter			Indoor side	mm		φ100		φ150		φ200		φ250	
			Outdoor side	mm		φ100		φ150		φ200		φ250	
Unit ambient condition			-15°C to 50°CDB, 80%RH or less										

- Notes:
- Airflow rate can be changed over to Low mode or High mode.
 - Temperature Exchange Efficiency is the mean value between cooling and heating.
 - Efficiency is measured under the following conditions: Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.
 - In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.

Air Treatment Equipment

PM2.5 filtration unit (Option) for VAM / VKM series



Specifications

PM2.5 filtration unit

MODEL		BAF249A150	BAF249A300	BAF249A350	BAF249A500	BAF429A20A
Dimensions (H x W x D)		mm	220x603x366	220x603x366	300x623x366	300x623x366
Connection Duct Diameter		mm	φ 100	φ 150	φ 150	φ 200
Airflow Rate		m³/h	150	250	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime *1	1 year				
	Filtration Efficiency *2	99% or higher				
	Filter Material No. *3	BAF244A300		BAF244A500		BAF424A20A

- Notes:
- Annual usage: 400 hrs/month x 12 months = 4,800 hrs
 - 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.
 - Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

PM2.5 with activated carbon filtration unit

MODEL		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	BAF429A20AC
Dimensions (H x W x D)		mm	220x603x366	220x603x366	300x623x366	300x623x366
Connection Duct Diameter		mm	φ 100	φ 150	φ 150	φ 200
Airflow Rate		m³/h	150	250	350	500
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		Pa	37	35	36	51
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime *1	1 year				
	Filtration Efficiency *2	99% or higher				
	Filter Material No. *3	BAF244A300C		BAF244A500C		BAF424A20AC
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	5	9
	Filter Lifetime	1 year				
	Filter Material No. *3	BAF244A300C		BAF244A500C		BAF424A20AC

- Notes:
- Annual usage: 400 hrs / month x 12 months = 4,800 hrs.
 - 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.
 - Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

Control Systems

Individual control systems for **VRV** systems

■ **Stylish remote controller (Option)** New



White
BRC1H63W

Black
BRC1H63K

A complete redesigned controller focused to enhance user experience



Sleek and stylish design

- Combines refinement and simplicity
- Echoes the distinct blue circle and simplicity of design
- Two attractive colours to match any interior
- Compact, measures only 85 x 85 mm



User-friendly interface

- Just three buttons and a large-figure display
- Customisable display
- Direct access to basic functions (ON/OFF, Operation mode, Temperature setting, Airflow rate, Airflow direction)
- Timer functions (OFF timer, Weekly schedule timer)
- Simple screen for hotel display



Easy setting via smartphone application using Bluetooth® wireless technology (for Installer/Facility manager)

Keep hotel room comfortable

- Improved setback function by setting the lower temperature limit in cooling and higher temperature in heating mode.
- Window/door contact interlock function is available via optional Digital Input Adaptor BRP7A*.



<App screen image>

Shorter installation time

- Easy to create multiple remote control and field settings via App
- Prepare a setting in advance at the office and immediately send it to the on-site remote controller
- Save and reuse settings
- Remote update function (OTA: Over The Air)

■ **Navigation remote controller (Wired remote controller) (Option)**



BRC1E63

A series of user friendly functions that can be individually selected

Energy saving

Setpoint range set

- Avoids excessive cooling by limiting the min. and max. set temperature.
- Convenient for use at a place where any number of people may operate it.



Setpoint auto reset

- Even if the set temperature is changed, the new set temperature returns to the previous preset value after a preset duration of time.
- Period selectable from 30, 60, 90, or 120 min.



Off timer

- Period can be preset from 30 to 180 minutes in 10-minute increments.

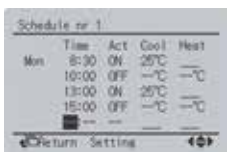
Convenience

Setback (default: OFF)

- Maintains the room temperature in a specific range during unoccupied period by temporarily starting air conditioner that was turned OFF.

Weekly schedule

- 5 actions per day can be scheduled for each day of the week.
- The holiday function will disable schedule timer for the days that have been set as holiday.
- 3 independent schedules can be set. (e.g. summer, winter, mid-season)



Auto display off

- Period can be preset from 10, 30, 60 minutes, and OFF. Initial setting is 30 minutes.

Comfort

Individual airflow direction

- Airflow direction can be individually adjusted for each air discharge outlet.

5-step airflow control

- Airflow rate can be selected from 5-step control.

Auto airflow rate

- Airflow rate is automatically controlled.

Control Systems

Individual control systems for VRV systems

Simplified remote controller (Option)



BRC2E61

Easy operation with new intuitive design

Simple operation

Using only six buttons, users have direct access to basic functions. This enables them to easily set comfort to their preference.

- ON/OFF
- Operation mode
- Temperature setting
- Airflow rate (5-step & Auto)*
- Up and down airflow direction (5-step & Swing)*
- ON/OFF timer

* The number of airflow steps and availability of auto airflow rate and swing mode depend on the type of indoor unit.

Intuitive design

- By using pictograms, the user-friendly interface enables convenient and easy operation.

Compact size

- Measuring only 85 x 85 mm, the new remote controller is extremely compact and complements any interior design.



Wireless remote controller (Option)



BRC-M series



Signal receiver unit (Installed type)

- The wireless remote controller is supplied in a set with a signal receiver.
- Signal receiver unit of installed type is contained inside decoration panel or indoor unit.
- Shape of signal receiver unit differs according to the indoor unit.

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of FXF(S)Q series.

- Backlight LCD of new wireless remote controller



Pressing the backlight button helps operating in dark rooms.

- A compact signal receiver unit (separate type) to be mounted into a wall or ceiling is included.



BRC-C, E series



Signal receiver unit (Separate type)

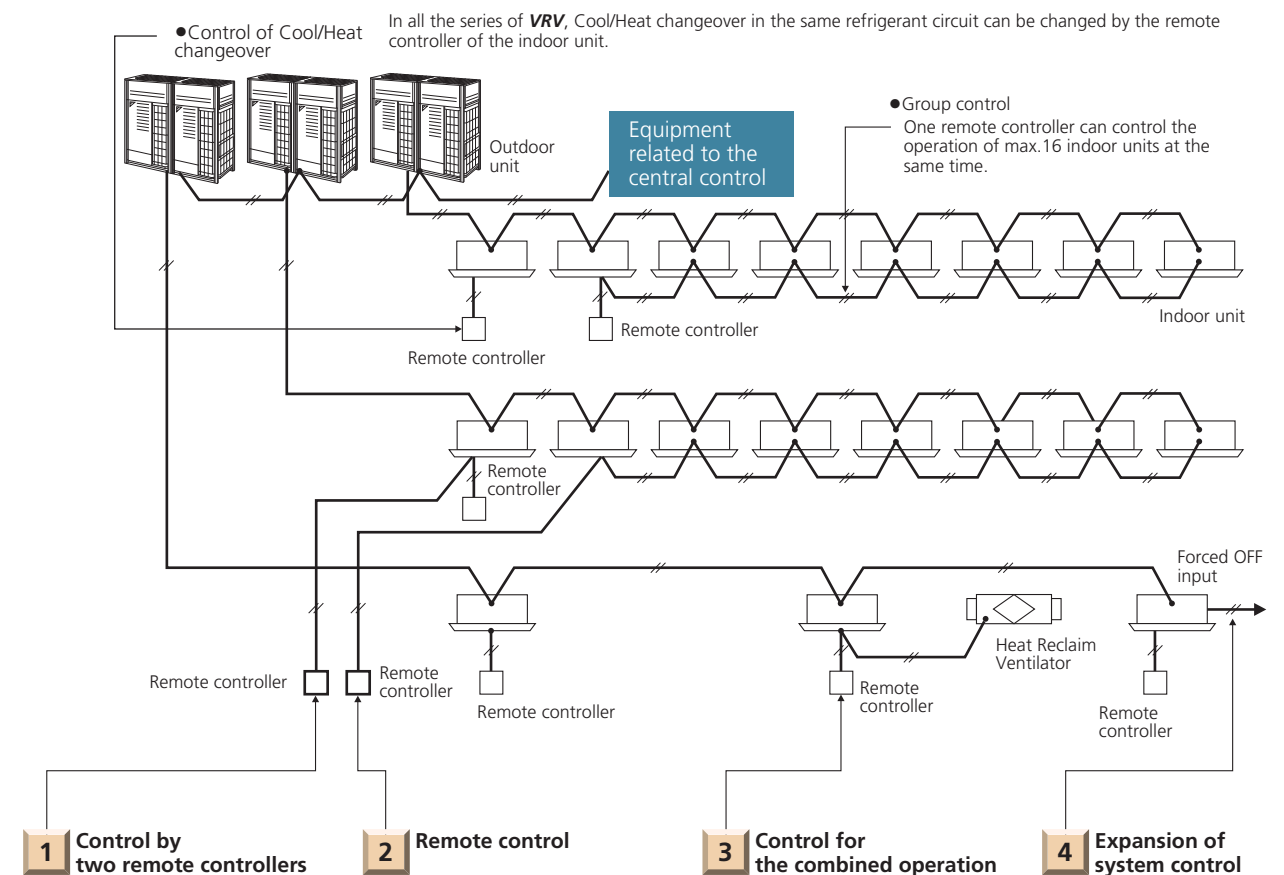
* Wireless remote controller and signal receiver unit are sold as a set except for FXKQ-A series.
* Refer to page 230 for the name of each model.

Wide variation of remote controllers for VRV indoor units

MODEL	FXFTQ	FXFRQ	FXFSQ	FXFQ	FXZQ	FXCQ	FXKQ-A	FXKQ-MIA	FXDFQ	FXDBQ	FXDQ	FXSQ	FXMQ	FXHQ	FXAQ	FXL(N)Q	FXVQ	FXB(P)Q
Stylish remote controller (BRC1H63W / BRC1H63K)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Navigation remote controller (BRC1E63)			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Simplified remote controller (BRC2E61)				●	●	●		●	●	●	●	●	●	●	●	●	●	●
Wireless remote controller* (Installed type signal receiver unit)			●	●	●	●	●							●	●			
Wireless remote controller* (Separate type signal receiver unit)								●	●	●	●	●	●			●		●

*Refer to page 230 for the name of each model.

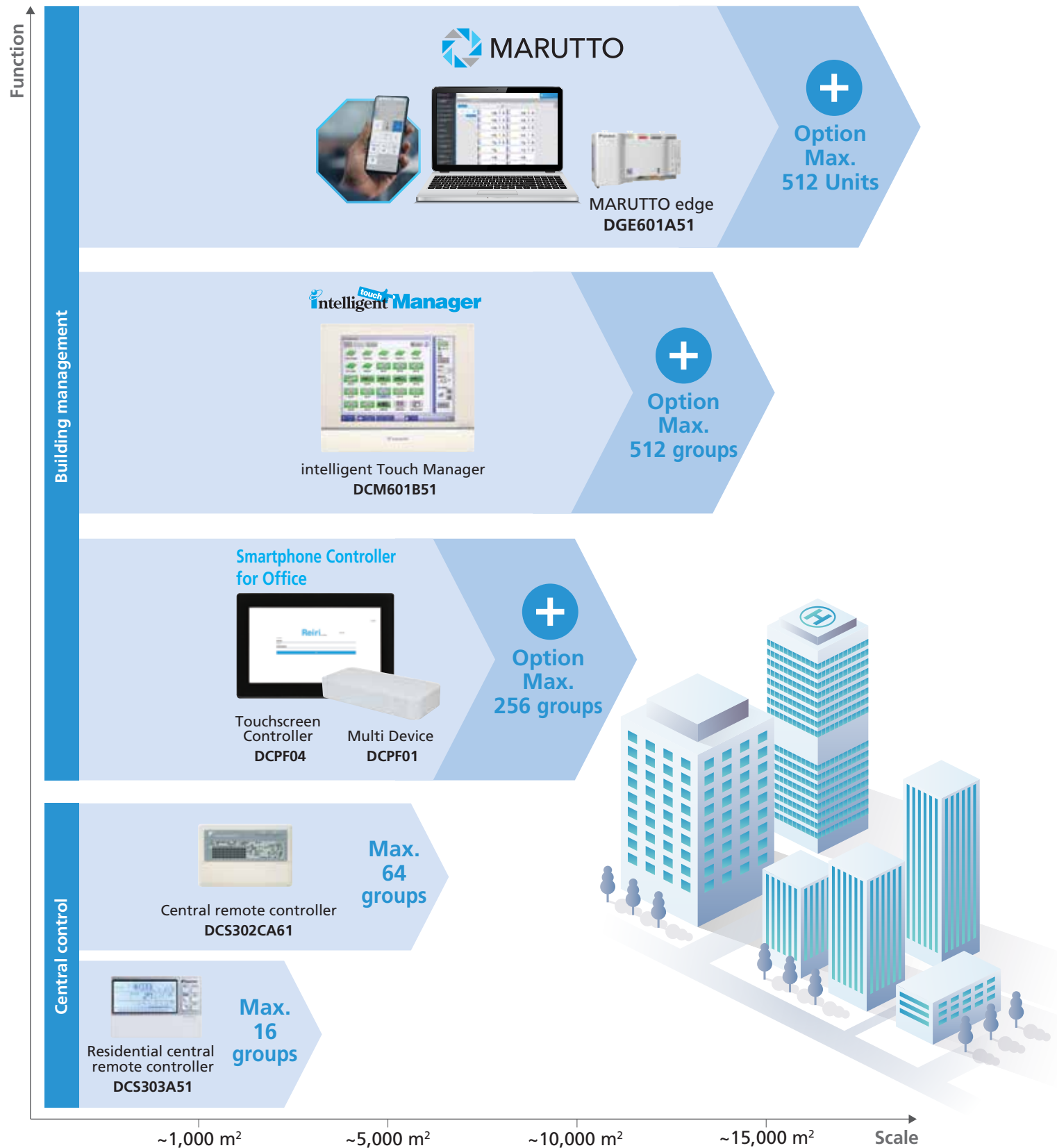
The wired remote controller supports a wide range of control functions



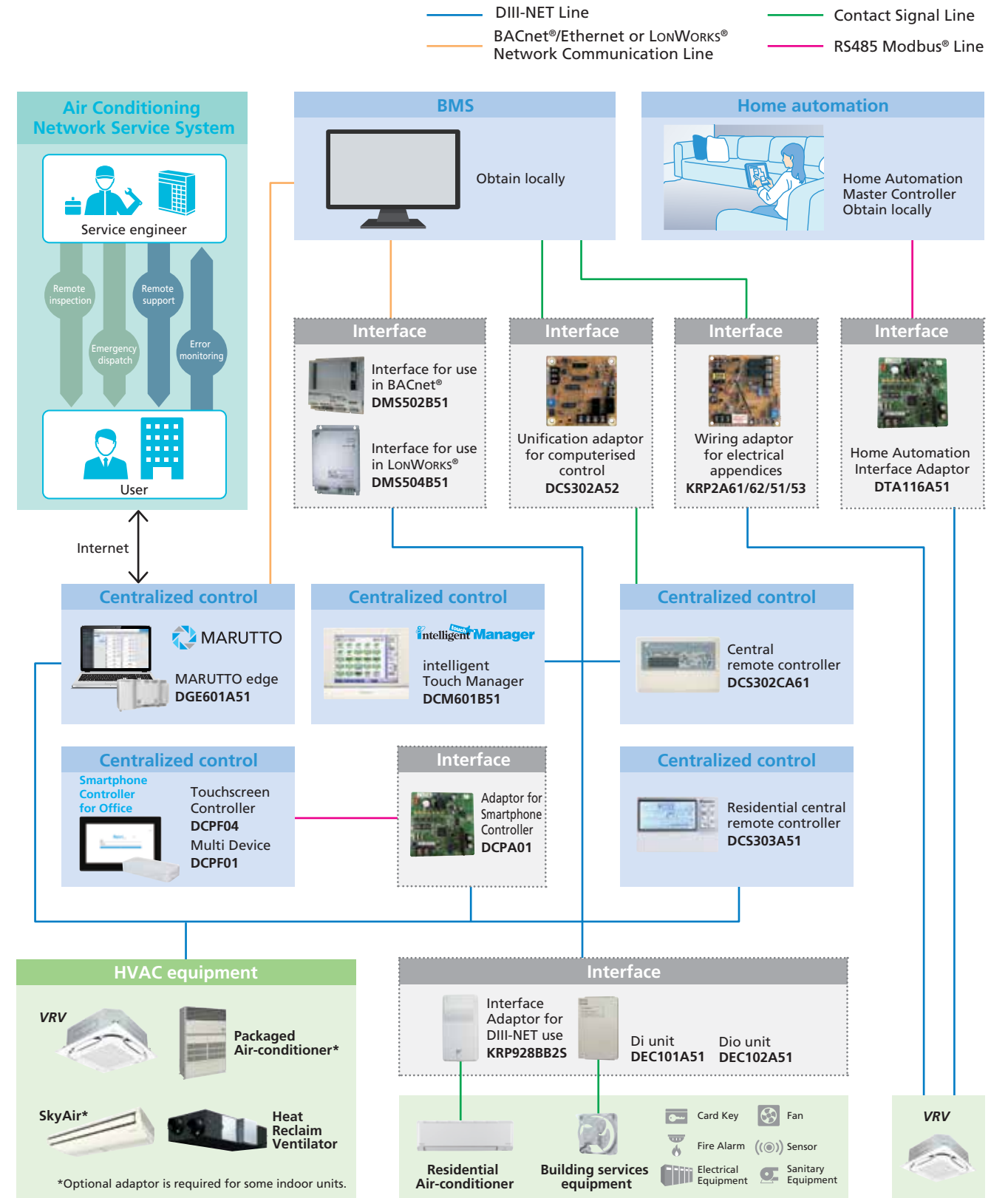
- 1 Control by two remote controllers**
The indoor unit can be connected by the two remote controllers, for example one in the room and the other one in the control room, which can control the operation of indoor unit freely. (The last command has a priority.) Of course, the group control by two remote controllers is also possible.
- 2 Remote control**
The wiring of remote controller can be extended to max. 500 m and it is possible to install the remote controllers for different indoor units in one place.
- 3 Control for the combined operation**
The operation of Heat Reclaim Ventilator can be controlled by the remote controller of the indoor unit. Of course, the remote controller can display the time to clean the filter.
- 4 Expansion of system control**
The system can be expanded to add several controllers, such as BMS, Forced OFF input and etc.

Control Systems

Centralized control lineup



Integrated system overview



Caution: Limitation may apply to some models and functions. Please contact your local sales office for details. Consultation is necessary before employing this control system. Please contact your local sales office before making a purchase.

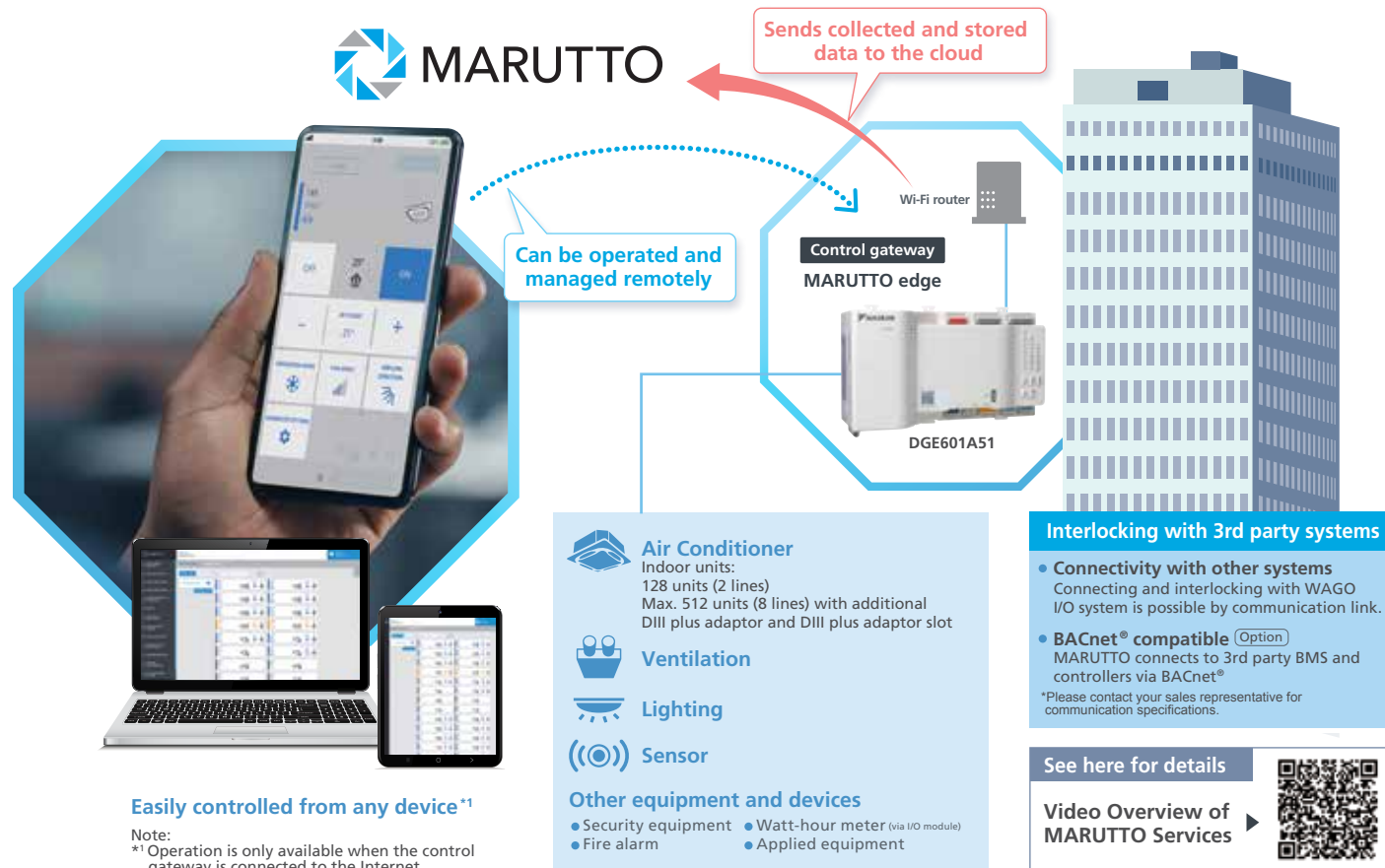
Note: BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). LONWORKS® is a trademark of Echelon Corporation registered in the United States and other countries. Modbus® is a registered trademark of Schneider Electric S.A.

* Refer to the MARUTTO individual catalogue for details.

Control Systems

New Cloud-based HVAC management service

MARUTTO is an all-in-one, cloud-based management service that offers real-time control and monitoring, advanced analytics, and customized support to address HVAC lifecycle concerns.



Easily controlled from any device**

Note:
** Operation is only available when the control gateway is connected to the Internet.

Remote monitoring and control

- Multi-Device Support
- Multi-Site Management
- Layout View
- Map View

Optimize energy usage

- Energy Visualization
See page 194
- Demand Control (Option)
See page 194
- Operation Data Output Function
- PPD Function (Option)
- Energy-Saving Simulation

Centralized control

- Interlocking Control of Devices
- User Administration Function
- Schedule Control

Peace of mind service maintenance

- Error Notification Email
- Social Media Support (Option)
- Remote Emergency Operation (Option)

Energy Visualization

Provides graphs of energy consumption to uncover inefficient operation

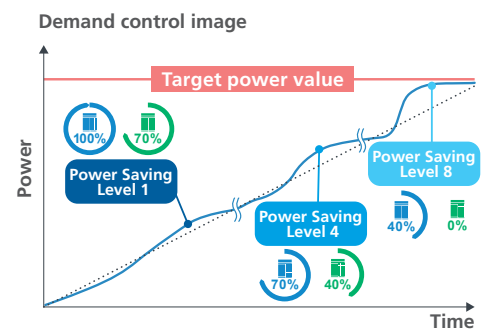


Demand Control (Option)

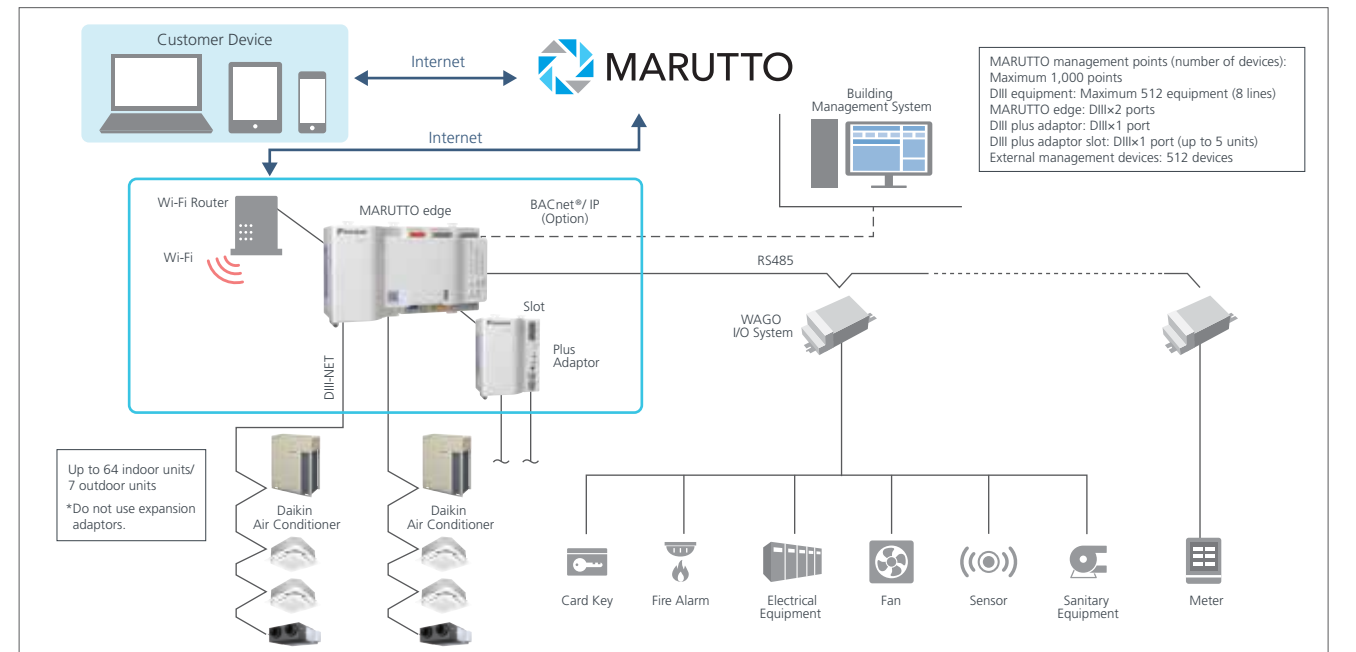
Reliably cuts power peaks without sacrificing comfort

As the power saving level increases, the power consumption reduction effect also increases.

- Control power consumption with three measures
- Thermo-Off of indoor unit
 - Set temperature shift of indoor unit
 - Outdoor unit capacity limit



MARUTTO System Overview



MARUTTO (standard specifications)

Common Name	Control gateway	Plus adaptor (sold separately)	Slot (sold separately)
Item Name	MARUTTO edge	DIII plus adaptor	DIII plus adaptor slot
Model Name	DGE601A51	DGE601A52	DGE601A53
Power Supply	AC100-240V 50/60Hz	AC100-240V 50/60Hz	Power supply from DIII plus adaptor
Power Consumption	23W	23W	—
Usage Environment	-10 to 50°C 85% or less	-10 to 50°C 85% or less	-10 to 50°C 85% or less
External Dimensions (Width x Height x Depth)	230 x 146 x 81.2 (mm)	97.2 x 146 x 81.2 (mm)	25.2 x 146 x 64.2 (mm)
Weight	0.97kg	0.69kg	0.13kg

Control Systems

Advanced control systems for VRV systems



Intelligent Touch Manager

DCM601B51

Various types of equipment in a building can be controlled by a single controller.

One touch selection enables flexible control of equipment in a building.

Individual air-conditioning control

The flexible control achieved by the VRV system precisely meets different air conditioning needs in each room (e.g. offices, conference rooms, hotel rooms).



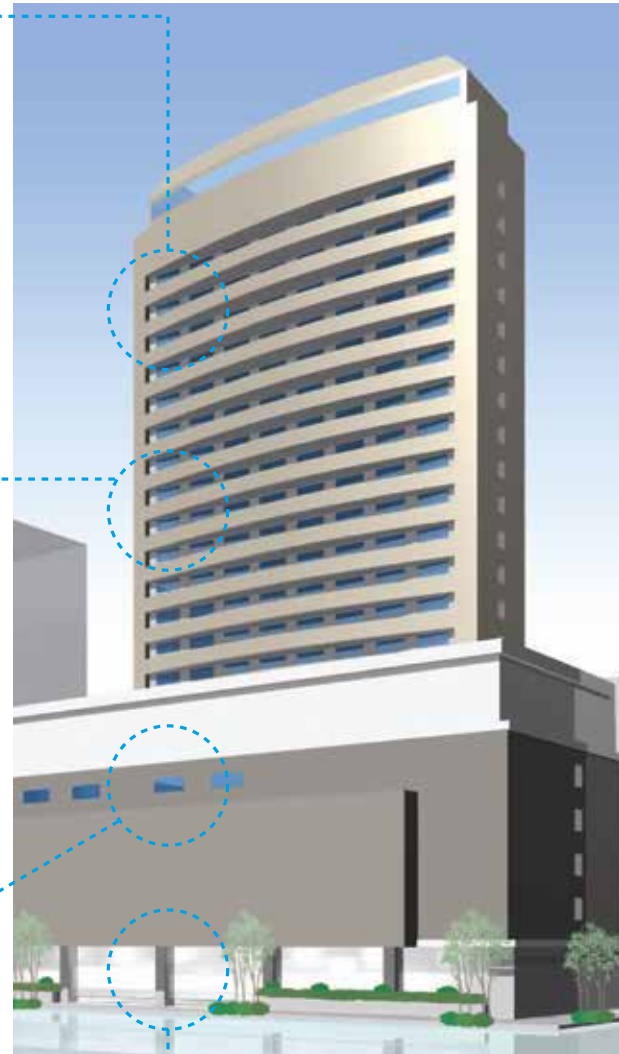
Lighting control **DALI-compatible**

DALI-compatible LED lighting systems can be controlled and monitored. Lighting control is enhanced through an interlock function with air conditioners and other functions.



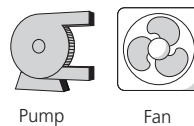
Air-conditioning control for large spaces

Air handling units can also be controlled. Large spaces, such as entrance halls and shopping malls, can be easily controlled to ensure comfort.



Building equipment control

Various types of equipment other than air conditioners, including ventilators, fans, and pumps, can also be controlled.



For energy saving & comfort

intelligent Touch Manager maximises the advantages of VRV features

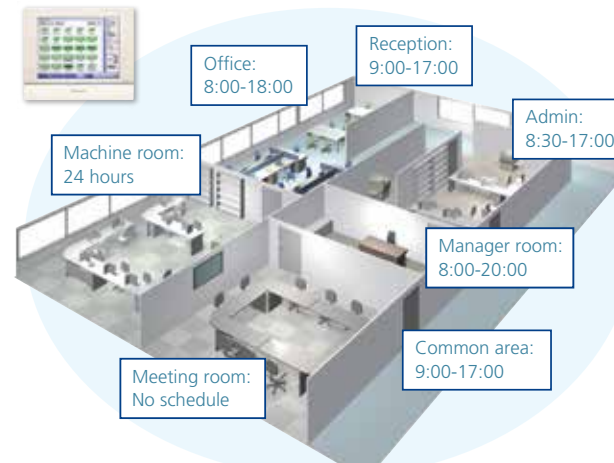
intelligent Touch Manager is an advanced multi-zone controller that provides the most cost-effective way to control and monitor the Daikin VRV system.

The 10.4" LCD touch screen is easy to use with three different screen views to include the floor plan layout view, icon view and list view and menus for system configurations.

It is also easy to use with standardized remote Web Access from your PC.

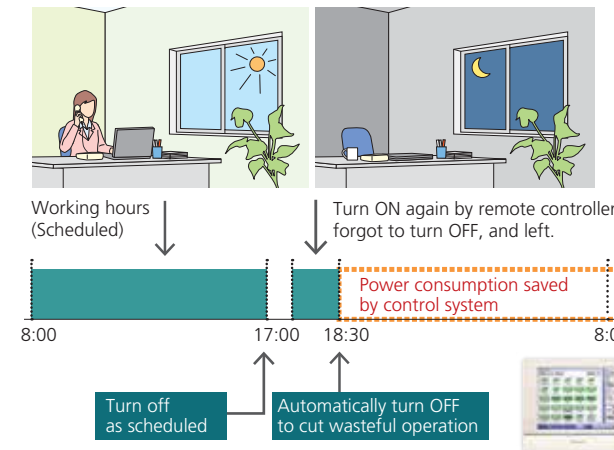
It can manage a total of 650 management points consisting of up to 512 Daikin indoor unit groups (up to 1024 indoor units) along with building equipment control / monitoring with Digital Inputs / Output (Di/Dio), Analog Inputs / Output (Ai/Ao) and Pulse input (Pi) optional devices.

Schedule the operation time for each application.



Setting the I-demand function and nighttime quiet operation function is also possible.

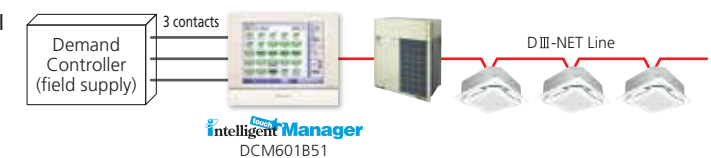
Turn the unit OFF if a user didn't.



External contact demand control function

This function automatically controls outdoor and indoor unit capacity based on contact signals sent from demand controller (field supply) etc. to save power consumption during peak hours.

- You may set 3 levels that can be switched by ON/OFF signal of 3 contacts
- Control settings are pre-set for each level
- Outdoor unit: I-demand function for peak power limit
- Indoor unit: Set temperature shift, Forced thermostat OFF

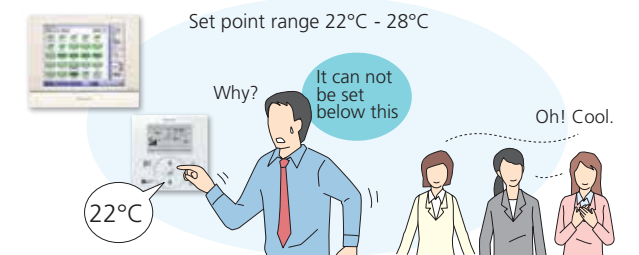


Define the setpoint range that users can change.

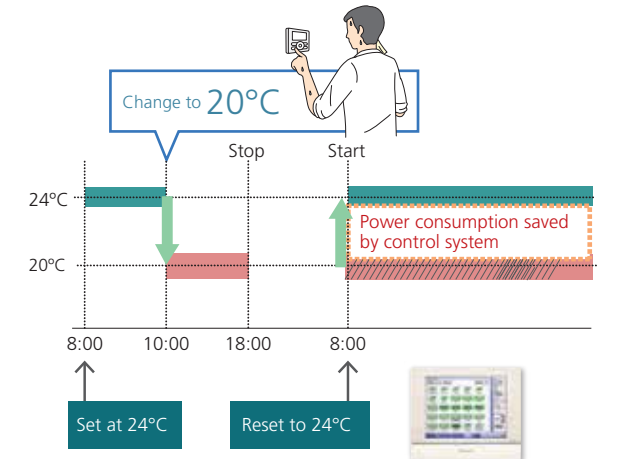
With Remote controller



With Control System



Reset setpoint regularly.



Control Systems

Lighting control (Option)

In addition to switching lights on and off, advanced lighting control, such as illuminance adjustment, can be achieved

Connection to DALI-compatible lighting control system

DALI-compatible

Please contact your local sales office for details.

Simple wiring (daisy chain) enables management of LED lighting by the *intelligent Touch Manager*. Various air conditioning and lighting control is enabled through the interlock with occupancy sensors and illuminance sensors.

Lighting control achieved by the *intelligent Touch Manager*

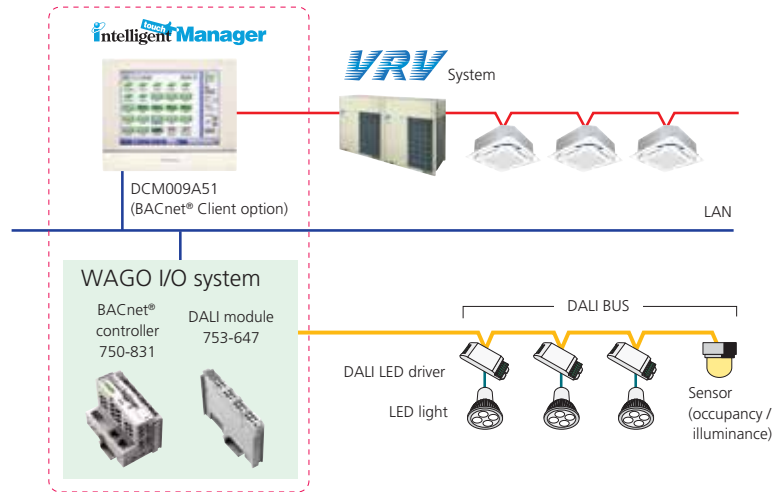
[Operation]

- Switch-on/switch-off operation
- Illuminance (1–100%) control
- Various illuminance patterns can be registered
- Registered pattern can be selected from *intelligent Touch Manager*

[Monitoring]

- Switch-on/switch-off status monitoring
- Lighting abnormality monitoring
- Illuminance monitoring
- DALI occupancy sensor monitoring
- DALI illuminance sensor monitoring

Air conditioning and lighting for which power consumption is high can be efficiently controlled to promote energy conservation and cost reduction!



Overview of control

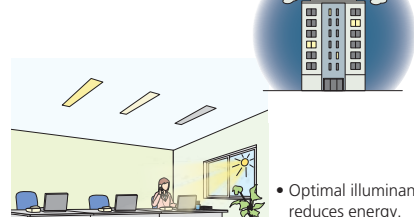
- Up to 5 DALI modules can be connected to a single BACnet® controller.
- Up to 64 DALI LED drivers (64 addresses) can be connected to a single DALI module.
- 64 DALI addresses can be freely assigned to up to 16 groups using a single DALI module. (Each group corresponds to a management point of the *intelligent Touch Manager*.)
- Up to 16 scenes can be set to a single DALI module.
- Up to 12 sensors (occupancy, illuminance) can be connected to a single DALI module.
- DALI BUS simplifies wiring and setting work by daisy chain wiring and automatic address setting.

Easy maintenance and energy saving by lighting control

Case 1

Switch-on / switch-off and illuminance are controlled based on a schedule to cut wasteful power consumption.

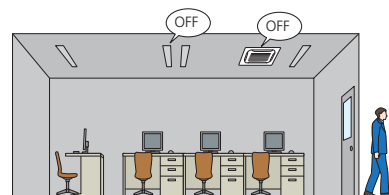
- Failing to switch off lights is prevented.



- Optimal illuminance reduces energy.

Case 2

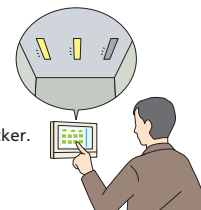
Occupancy sensors are used to eliminate both wasteful lighting and air conditioning. When a room is unoccupied, the air conditioning stops and the lighting is switched off.



Case 3

Lighting abnormalities (e.g. burned-out bulbs) can be checked on the *intelligent Touch Manager* screen.

Lighting maintenance becomes easier and quicker.



The layout screen enables quick identification of specific locations.

Tenant management

Reporting the power consumption of VRV system for each tenant (PPD* Option)

With the PPD function, power consumption can be calculated for each indoor unit (Option)

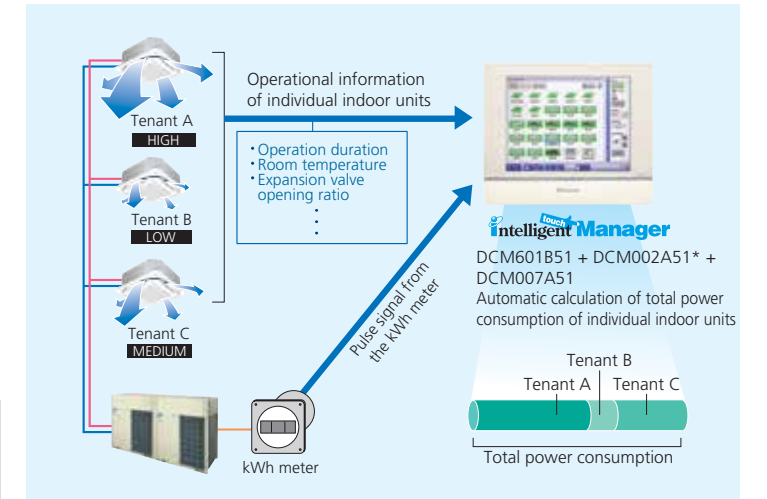
The energy consumption is proportionally calculated for each indoor unit. The data can be used for energy management and calculation of air conditioning usage fees for respective tenants.

Operational information of individual indoor units are monitored, based on distribution of power consumption of outdoor units.

Daikin's PPD keeps track of power distribution for each indoor unit. It performs air conditioning billing calculations quickly and automatically.

It is easy to output PPD data.

PPD data is output in CSV format to a PC or USB memory device and can be freely processed and managed.



*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

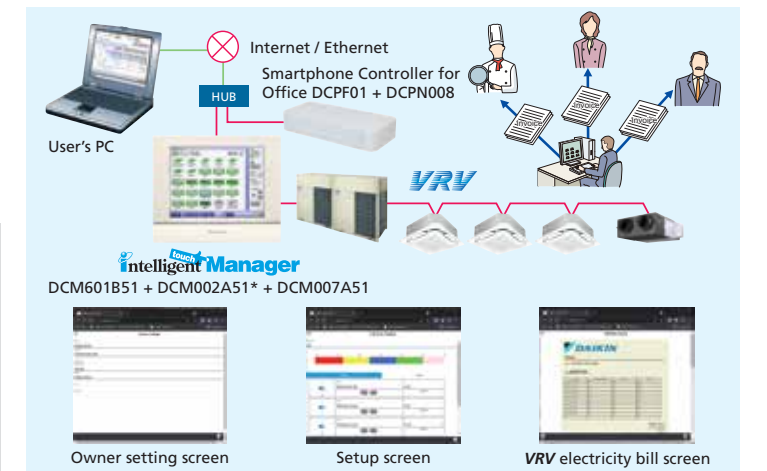
Air conditioning bills can be issued by one click (PPD* Option)

Electricity bills can be easily calculated for each tenant (Option)

The power consumption of VRV controlled by the *intelligent Touch Manager* can be easily managed for each tenant using a PC. The electricity bill settings facilitate billing work through easy calculation and issuance of VRV electricity bills.

Main functions

- Register tenants
- Set the electricity unit price for 5 time zones
- Calculate power consumption and electricity charge for each tenant
- Show aggregation results in the specified period for each tenant
- Output the results (Printout and CSV file)



*PPD (Power Proportional Distribution) is Daikin's proprietary calculation method.

Effective service functions offered to tenants

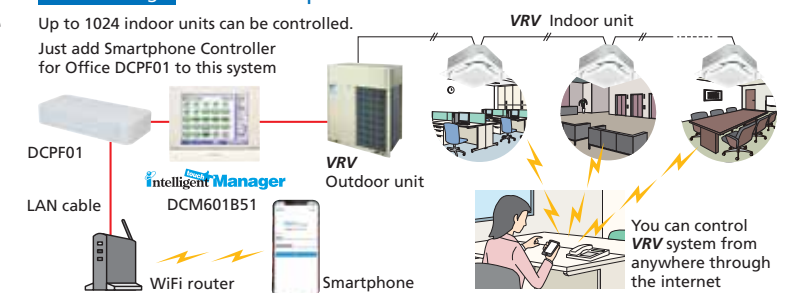
Smartphone will be a remote controller of VRV system (Option)

Users can operate and check the status of VRV system from their smartphones via the internet.

It is not necessary to move where a remote controller is located with this feature. VRV system in other rooms can be operated, and their status can be checked. It is also possible to check if air conditioners in other rooms remain switched on etc., helping achieve energy saving.

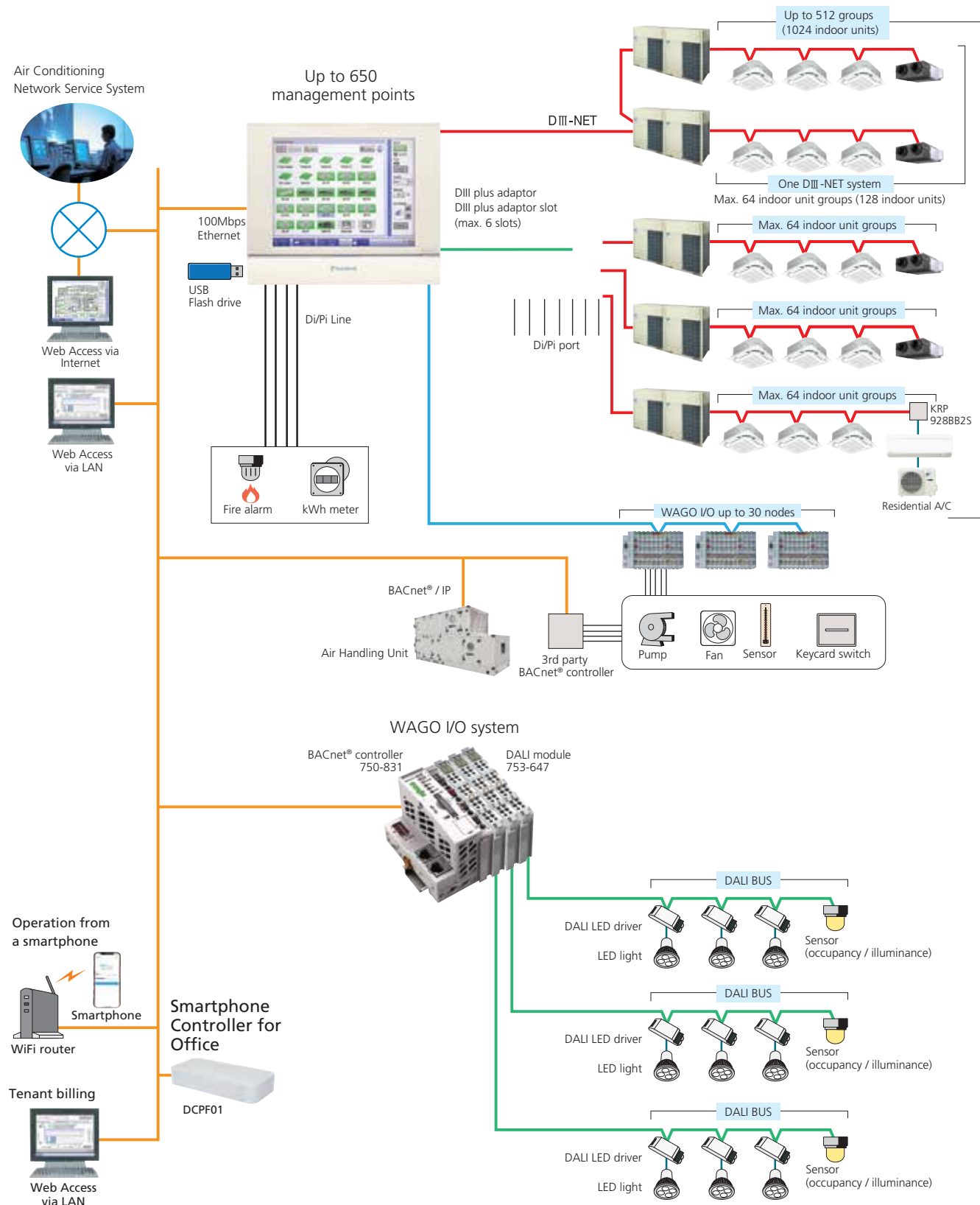
For buildings VRV Smartphone Remote Controller

Up to 1024 indoor units can be controlled. Just add Smartphone Controller for Office DCPF01 to this system



Control Systems

intelligent Touch Manager system overview



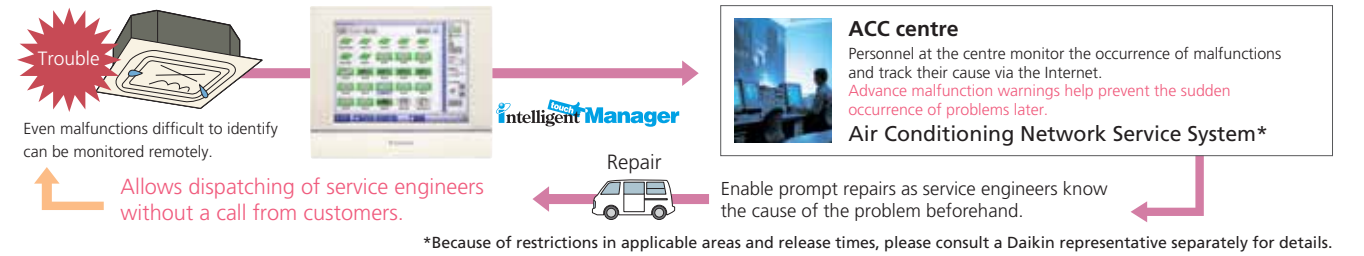
Air conditioning network service system

Preventive maintenance

The *intelligent Touch Manager* can be connected to Daikin's own Air Conditioning Network Service System for remote monitoring and verification of operation status for *VRV* system. By its ability to predict malfunctions, this service provides customers with additional peace of mind.

Enhanced convenience with link to the Air Conditioning Network Service System

The *intelligent Touch Manager* connects seamlessly to Daikin's 24-hour Air Conditioning Network Service System.



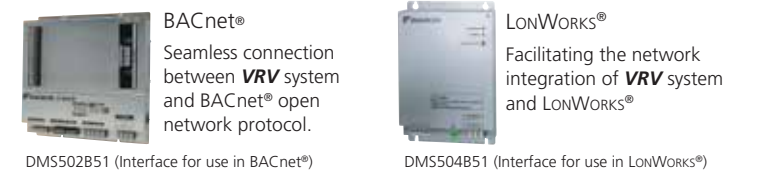
Daikin offers a variety of control systems

Convenient controllers that offer more freedom to administrators

Connect *VRV* system to your BMS via BACnet® or LonWorks®

Compatible with BACnet® and LonWorks®, the two leading open network communication protocols, Daikin offers interfaces that provide a seamless connection between *VRV* system and your BMS.

Dedicated interfaces make Daikin air conditioners freely compatible with open networks



Notes: 1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
2. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries.

Specialised solution for office, home and hotel with Smartphone Controller Series

Catering to different applications, ranging from 10 indoor units to 2048 indoor units

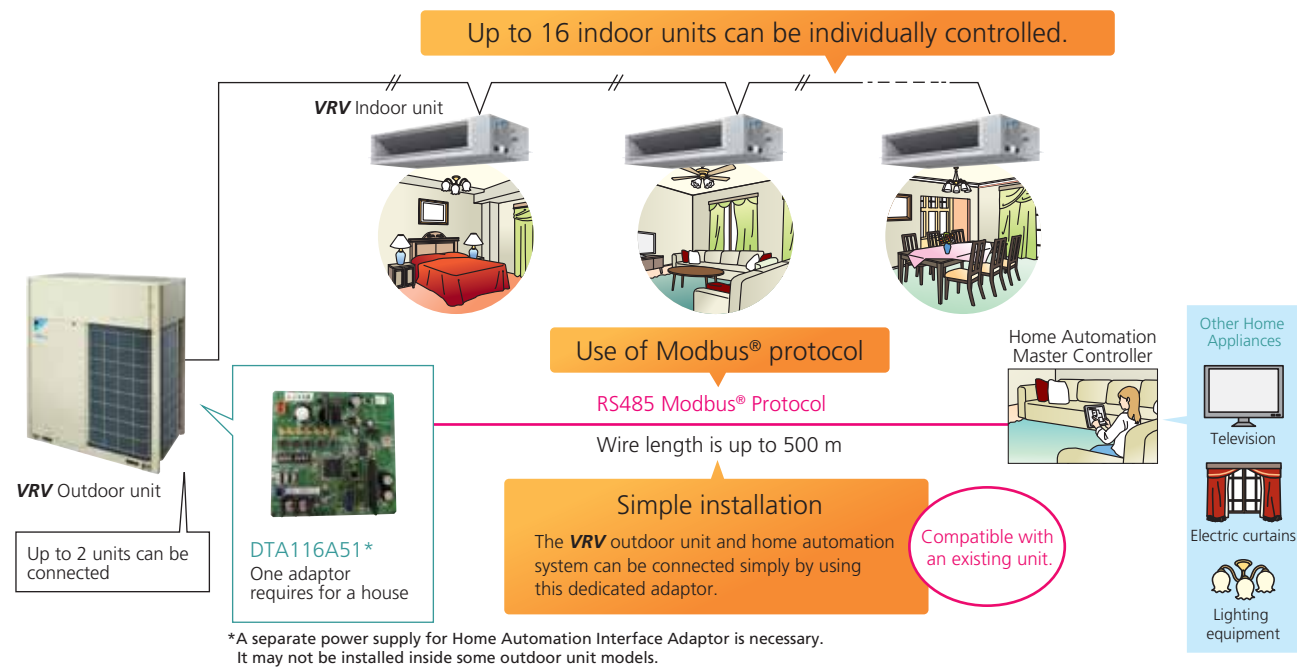


Control Systems

Home automation interface adaptor

The VRV system can be operated from the home automation system.

Image to use home automation interface adaptor DTA116A51



Functions Monitor

On/Off	On/Off status of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Setpoint of indoor units
Room temperature	Suction temperature of indoor units
Fan direction	Swing, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Forced off status	Forced off status of indoor units
Error	Malfunction, Warning with Error code
Filter sign	Filter sign of indoor units
Communication status	Communication normal/error of indoor units

Control

On/Off	On/Off control of indoor units
Operation mode	Cooling, Heating, Fan, Dry, Auto (depend on indoor unit capability)
Setpoint	Cooling/Heating setpoint
Fan direction	Swing, Stop, Flap direction (depend on indoor unit capability)
Fan volume	L, M, H (depend on indoor unit capability)
Filter sign reset	Reset filter sign of indoor units

Retrieve system information

Connected indoor units	DIII-NET address of connected indoor units can be retrieved.
Indoor unit capabilities	Indoor unit capabilities such as operation mode, fan control, setpoint HV can be retrieved.

* Modbus® is a registered trademark of Schneider Electric S.A.

Complete control system for VRV systems



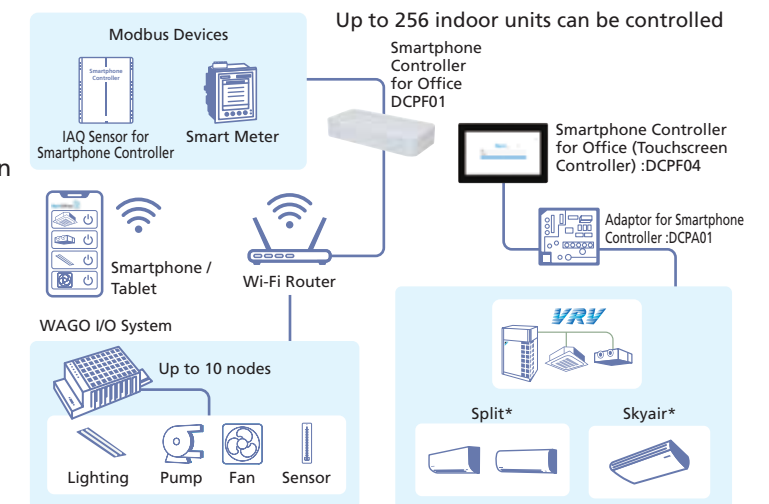
High value smart solution creation for different application

Office Air Conditioning Solution (Smartphone Controller for Office :DCPF01 / Smartphone Controller for Office (Touchscreen Controller) :DCPF04)

A simple office buildings air conditioning solution with a secured, cloud enabled platform, allowing greater ease of control and control while being energy-efficient. The flagship model DCPF04 offers the smart control system with a dedicated touch panel.

Intelligent Building Solution

- Easy to install and configure with dedicated Configuration Mobile App for installers.
- Remote control operation through mobile App from anywhere.
- Energy management through P.P.D. billing, Energy graph and real time energy display function
- IAQ Management via real time monitoring and trend graph for keeping record.
- Effective Air conditioning usage with setpoint range limitation, set back function, remote control prohibition.



Specifications

Category	Function	Description
Monitoring & Control	Status monitoring	On/Off, setpoint, operation mode, fan step, flap, error, error code, Room temperature
	Manual Operation	On/off, setpoint, operation mode, fan step, flap, scene control ¹
	Remote control prohibition	Individually prohibit operation of each local remote-control function
	Setpoint range limitation	To limit setpoint range for each indoor unit management point
Automatic Control functions	Automatic changeover ¹	Number of changeover groups: 100
	Off timer	Off timer duration can set from 5min to 120min with every 5min interval
	Setback ¹	Setback setpoint can selected within 24-35°C in cooling mode and 5-20°C in heating mode.
	Schedule	Number of programmes: 100; Up to 20 actions can be registered per pattern.
Data Management	Interlock ¹	Interlock operation depending on equipment status
	History, Report ¹	Operation data (latest information and operation report) and error report on daily/monthly basis.
	Trend graph ¹ , energy graph ¹ Real time energy display ^{1,2}	Chart on environmental changes and energy (and other meter) values. Daily/ Monthly real time energy consumption status on screen.
P.P.D Billing ^{1,2}		Generate Bill with Power Proportional Distribution data retrieved from the system.
System Setting		Language, Password setting, Account setting, Notification, Email Notification

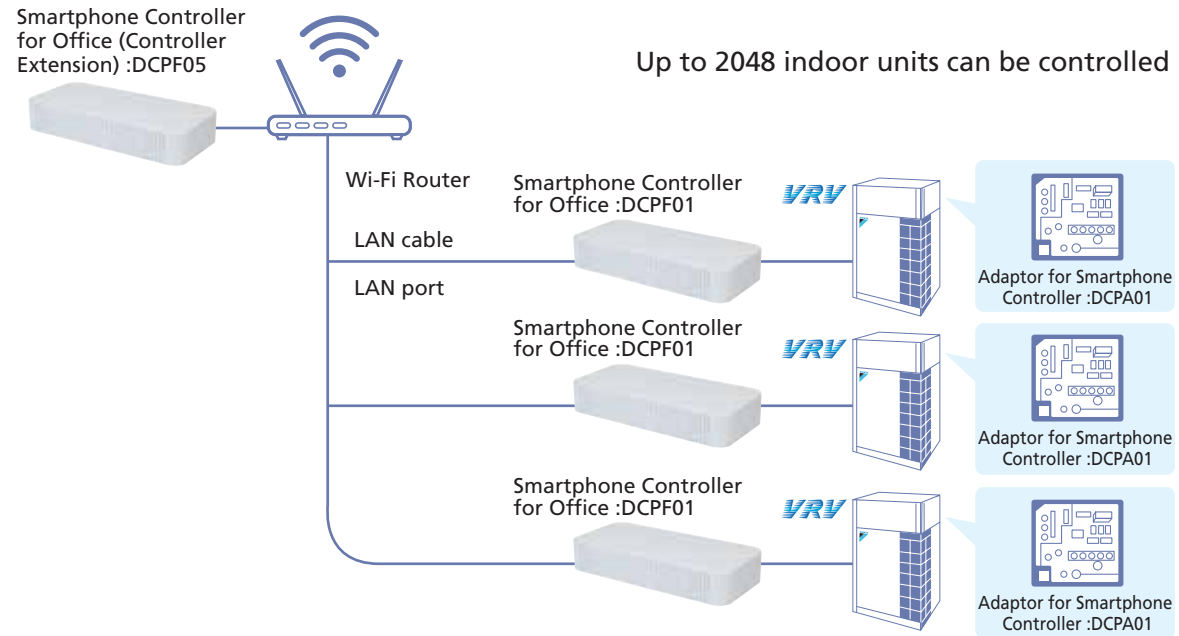
¹ Optional software for Smartphone Controller for Office, DCPF01
² Optional software for Smartphone Controller for Office (Touchscreen Controller), DCPF04

Control Systems

Office Expanded Solution (Smartphone Controller for Office (Controller Extension) :DCPF05)

A dedicated control solution for large scale office buildings through centralised control of multiple Smartphone Controller for Office controller on a single secured and cloud-enabled platform.

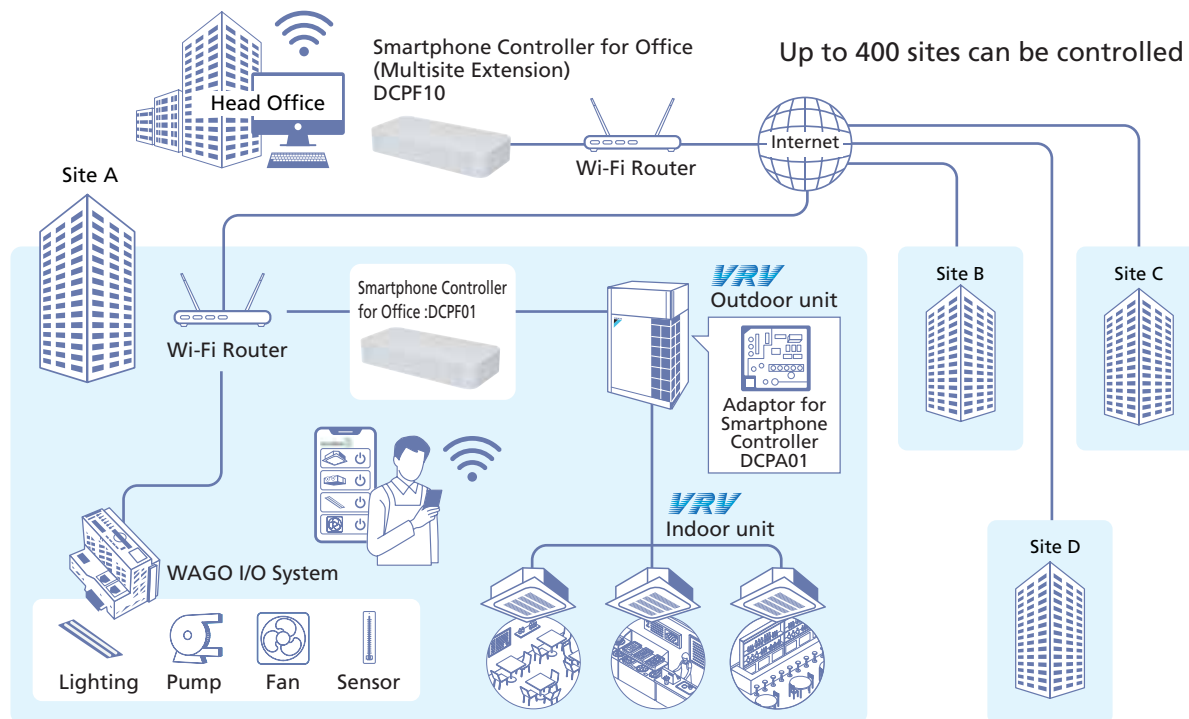
Note: P.P.D. & Tenant Billing Management and Real-Time Energy Monitoring (R.E.M.) are offered as optional software.



Multi Site Management Solution (Smartphone Controller for Office (Multisite Extension) :DCPF10)

Centralised control and remote access for all devices in multiple buildings across different locations conveniently located on one secured platform.

Note: Multi-site Branch Expansion is offered as optional software.



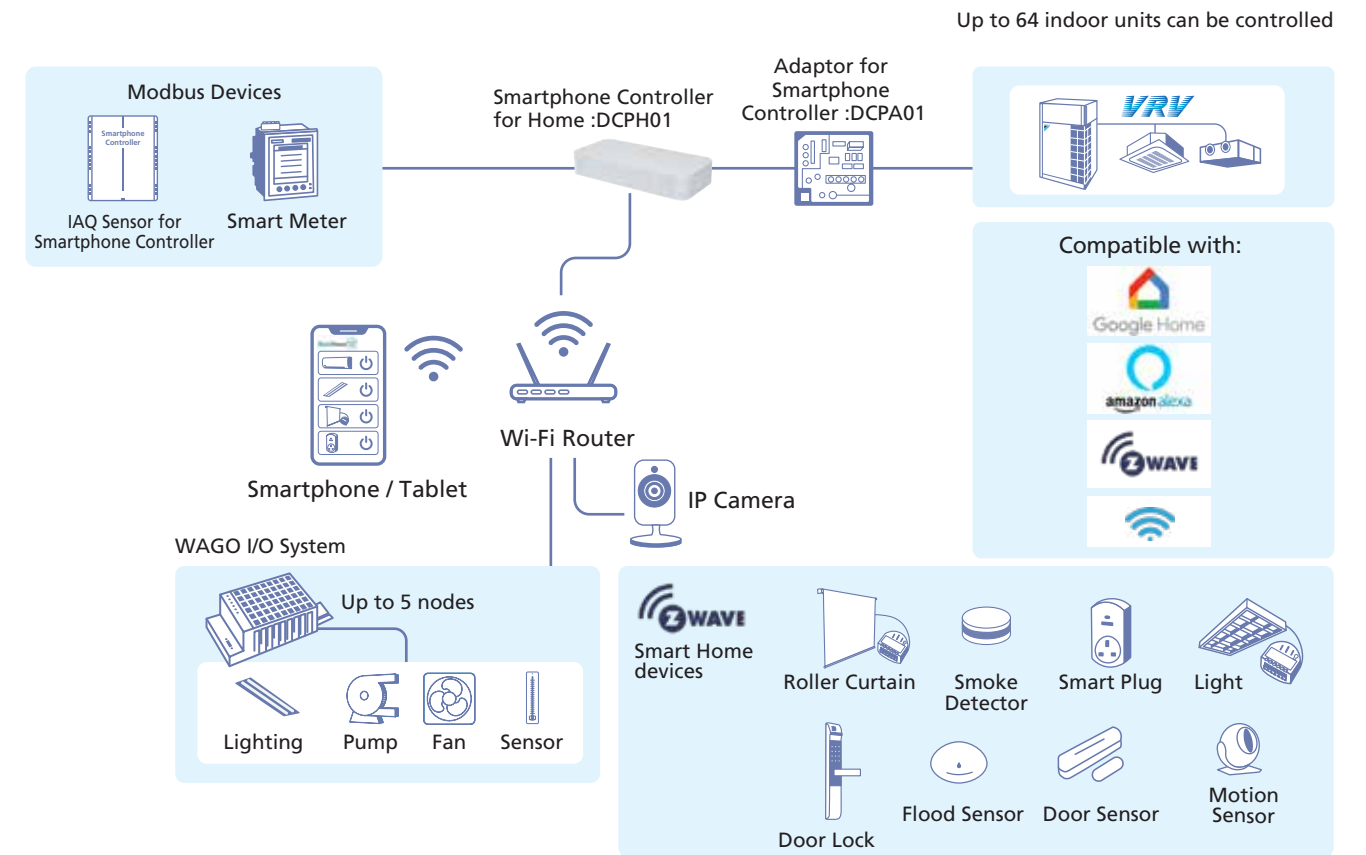
Smart Home Solution (Smartphone Controller for Home :DCPH01)

The complete smart home air conditioning solution for every homeowners with integration capabilities to allow ease and convenience of control for almost every smart devices

Complete Smart Home Solution

- Supports Zwave, WAGO, Modbus, LAN communication
- Convenience & Lifestyle
- IAQ Management
- Energy Management
- Home Security Solution
- Google Home Enabled

Note: Residential automatic control and system report is offered as optional software.



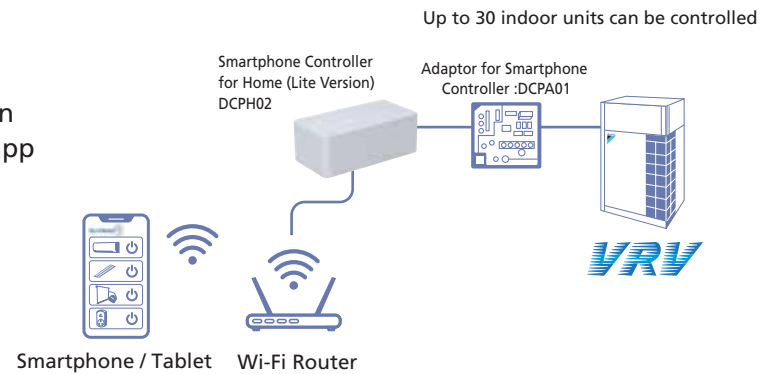
- Notes:
1. Google Home and the Google Home logo are trademarks of Google LLC.
 2. Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.
 3. Z-Wave® is a registered trademark of Sigma Designs and its subsidiaries in the United States and other countries.

Control Systems

VRV Smart Centralised Control Solution (Smartphone Controller for Home (Lite Version) :DCPH02)

Designed to enhance the comfort and convenience for homeowners, offering complete control of core functions in Daikin Airconditioning system remotely through app access

Note: Residential automatic control and system report is offered as optional software.



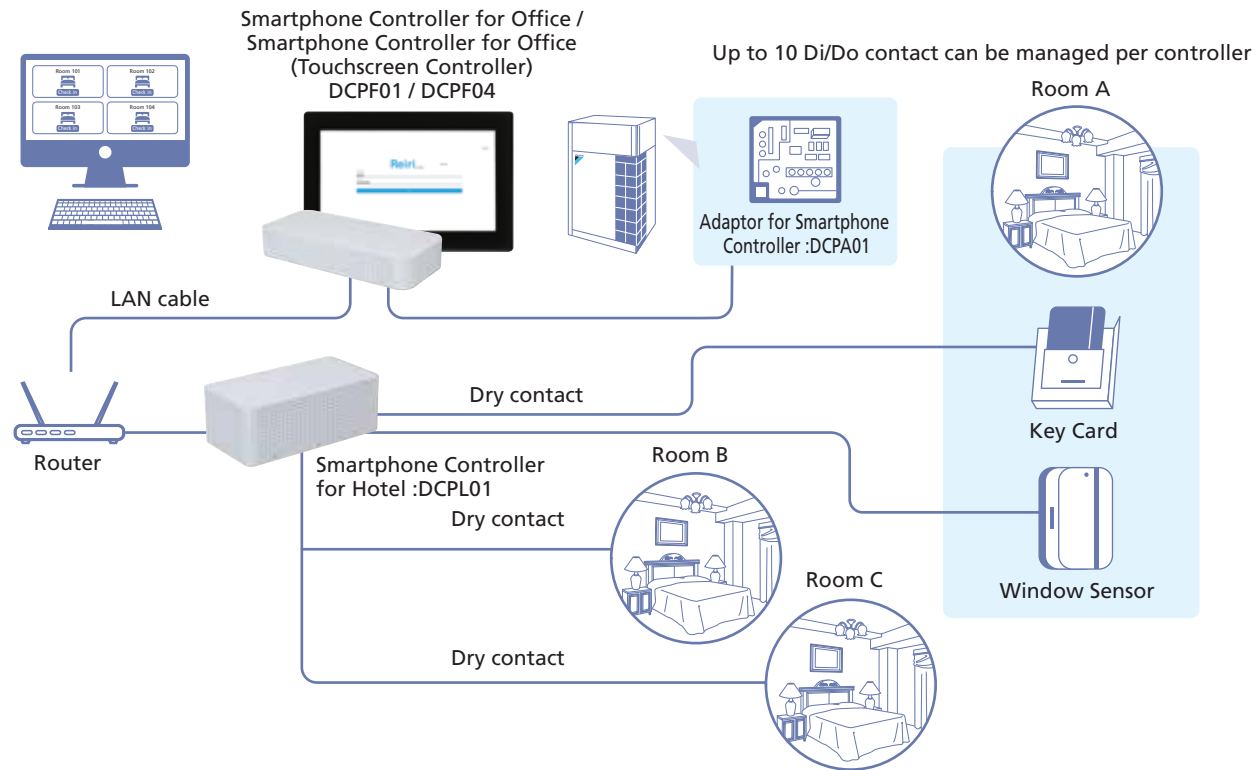
Hotel Air Conditioning Solution (Smartphone Controller for Hotel :DCPL01)

The smart hotel air conditioning solution for effective air conditioning operation that maximize guest comfort and minimize energy consumption in a hotel

Air Conditioning Guestroom Interlocking Management

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort

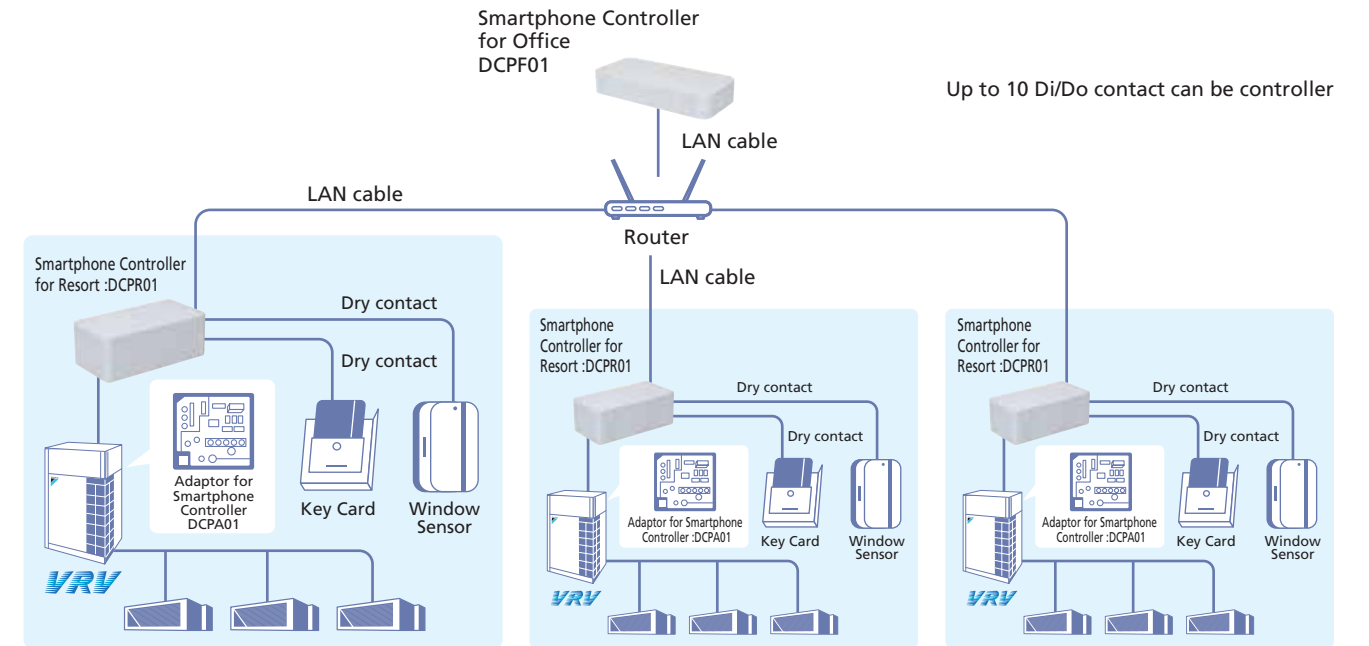
Note: The Smartphone Controller for Hotel controller has to be used with Smartphone Controller for Office / Smartphone Controller for Office (Touchscreen Controller) / Smartphone Controller for Office (Controller Extension) controller as building controller.



Villa Air Conditioning Solution (Smartphone Controller for Resort :DCPR01)

Designed to enhance the comfort and convenience for each villa according to use by guests

- Automatic air conditioning control based on check in/out signal, key card signal and window open/close signal
- Guest comfort




Precision Piping Method

A smarter way to connect refrigerant piping for VRV installations

Using TIGHTFIT (Daikin Gas Tight Joint) ensures safety, easy connection work and quick installation. In addition, heavy equipment, such as gas cylinders used for brazing, becomes unnecessary.


TIGHTFIT



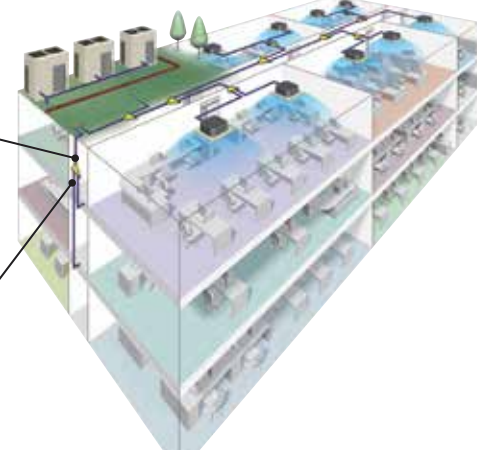
TIGHTFIT (Daikin Gas Tight Joint)

- ✓ Easy installation by tightening with a wrench
- ✓ Metal seal to eliminate gas leaks
- ✓ Function to prevent insufficient nut tightening

Non-Brazed REFNET Joint New




- ✓ Non-Brazed connection
- ✓ Directly connects to Tightfit
- ✓ Insulation material conforms to British Standard fire protection



Easy piping connection for residential installations

When installing a small-size VRV in a residential home, we suggest using a header pack to reduce construction and simplify installation. This also eliminates the need for heavy tools.


HEADER PACK

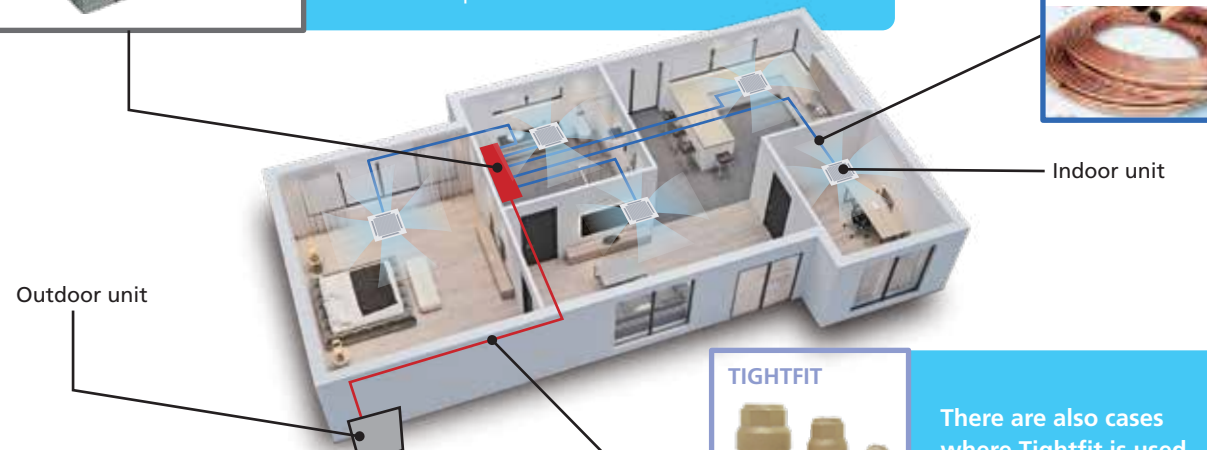


HEADER PACK (Packaged Refnet Headers)

- ✓ Time Saver using Quick Flare Nut Connection
- ✓ Compact design with low height
- ✓ Connects up to 4 and 6 indoor units

Soft copper pipe






Outdoor unit

Indoor unit

TIGHTFIT

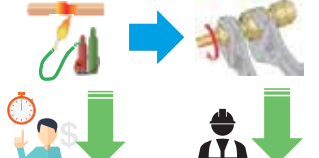


There are also cases where Tightfit is used.

Innovative problem solving for VRV refrigerant piping installation


Shorter installation time

Easy piping work significantly shortens installation time. This makes installation possible for projects with short deadlines while reducing labor costs.



Safety for Fire

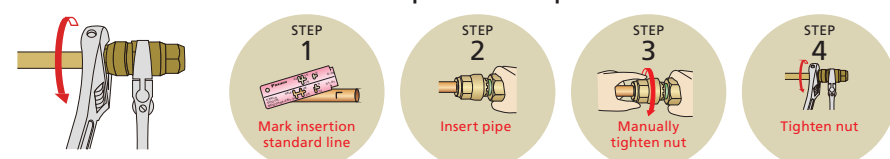
Because no brazing is involved, installation is safe with no danger of fire. This makes it ideal for installation in renewal projects.



Easy work

- Torque for tightening nut is lower than the torque of the flare nut.
- Work can be safely performed even in high locations.
- Two wrenches are used to tighten pipe connection. (No special tools required.)


Installation completed in 4 steps



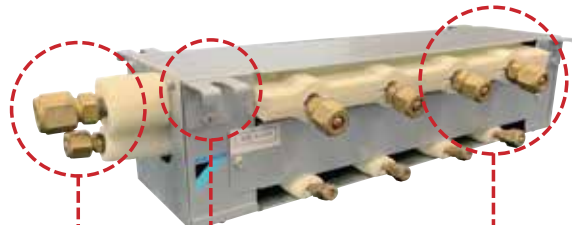
Torque for tightening flare nut: 75Nm

Torque for Tightfit tightening: 19Nm

LOW TORQUE (75% reduction for $\phi 15.9$ copper pipe)




HEADER PACK



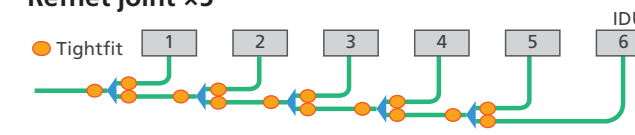
Connect by Daikin Gas Tight Joint or flare

Easy installation

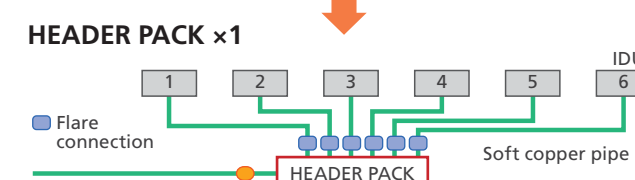
Flare nut connection



Refnet joint x5



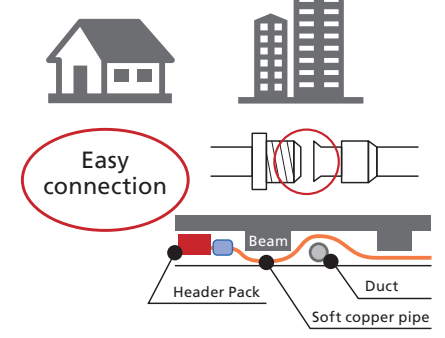
HEADER PACK x1



Benefits of Header Pack

- Ideal for small-size properties and condominiums
- Fewer piping connections
- Flare connection makes it easy to connect
- Easy installation with substantial use of soft copper pipes (Good workability in high places and narrow spaces.)

Easy connection



Precision Piping Method

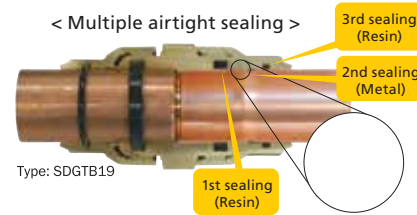
TIGHTFIT (Daikin Gas Tight Joint)

Quality assurance

Conforms to ISO14903

Tightness test: P=4.3MPa;
Test medium: 100% Helium, T=22°C
Max leakage: 7.5 x 10⁻⁷ Pa·m³ /s or less.
Vacuum test: 6.5kPa in absolute

Easy to fit, tight connection

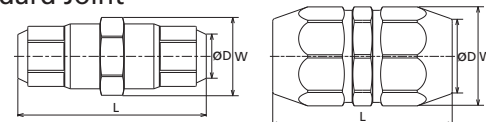


TIGHTFIT full lineup

Standard Joint		Asymmetry Joint		90° Bend Joint		Test Plug	
Size	Model name	Size	Model name	Size	Model name	Size	Model name
ø6.35	SDGTB06	ø9.52-6.35	SDGTB0906	-	-	ø6.35	SDGTKB06
ø9.52	SDGTB09	ø12.70-9.52	SDGTB1209	-	-	ø9.52	SDGTKB09
ø12.70	SDGTB12	ø15.88-12.70	SDGTB1512	-	-	ø12.70	SDGTKB12
ø15.88	SDGTB15	ø19.05-15.88	SDGTB1915	-	-	ø15.88	SDGTKB15
ø19.05	SDGTB19	ø22.22-19.05	SDGTB2219	-	-	ø19.05	SDGTKB19
ø22.22	SDGTB22	ø25.40-22.22	SDGTB2522	ø22.22	SDGTLB22	ø22.22	SDGTKB22
ø28.58	SDGTB28	ø28.58-25.40	SDGTB2825	ø28.58	SDGTLB28	ø28.58	SDGTKB28
ø34.92	BDGTA34	ø34.92-28.58	SDGTB3428	-	-	-	-
ø41.28	BDGTA41	-	-	-	-	-	-

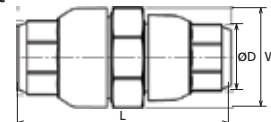
Dimension & weight

Standard Joint



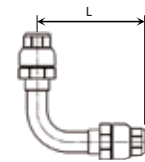
Size	L (mm)	W (mm)	Weight (g)
ø6.35	50.4	15.0	43.0
ø9.52	55.0	19.9	79.0
ø12.70	59.0	23.5	113.0
ø15.88	74.0	30.0	210.0
ø19.05	76.8	34.6	273.0
ø22.22	83.4	40.2	292.0
ø28.58	88.0	46.7	515.0
ø34.92	101.5	51.1	686.0
ø41.28	103.5	58.3	881.0

Asymmetry Joint



Size	L (mm)	W (mm)	Weight (g)
ø9.52-6.35	52.7	19.9	67.0
ø12.70-9.52	57.5	23.5	101.0
ø15.88-12.70	65.0	30.0	164.0
ø19.05-15.88	76.8	34.6	244.0
ø22.22-19.05	81.5	40.2	358.0
ø25.40-22.22	85.8	43.5	444.0
ø28.58-25.40	88.1	46.7	505.0
ø34.92-28.58	101.5	51.1	645.0

90° Bend Joint



Size	L (mm)	Weight (g)
ø22.22	120.0	655.7
ø28.58	145.0	968.4

Test Plug

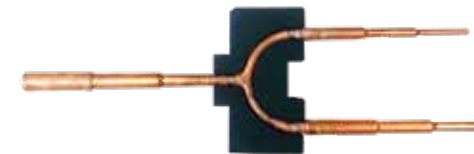
Size	L (mm)	W (mm)	Weight (g)
ø6.35	43.0	15.0	53.0
ø9.52	44.0	20.0	67.6
ø12.70	46.0	23.0	73.4
ø15.88	50.0	30.0	96.6
ø19.05	52.0	34.0	111.7
ø22.22	54.0	40.0	135.6
ø28.58	54.0	46.0	146.0

New Non-Brazed REFNET Joint

Direct connection to TIGHTFIT

This kit is designed as a refrigerant branch kit for connecting the main and branch pipes of VRV indoor units without brazing.

Lineup



Indoor unit total capacity index	Model name	
	2 pipes	3 pipes
X < 290	BHRG26A33T	BHRG25A33T
290 ≤ X < 640	BHRG26A72T	BHRG25A72T
640 ≤ X	BHRG26A73T	BHRG25A73T

※ Insulation included

Case 1: If the pipe of the REFNET joint has the same size as the field pipe, cut it at the same size and connect it to the field pipe with the standard type of Daikin Gas Tight Joint.

Case 2: If the pipe of the REFNET joint has not the same size as the field pipe, use the Asymmetry joint (Reducer).

HEADER PACK (Packaged Refnet Headers)

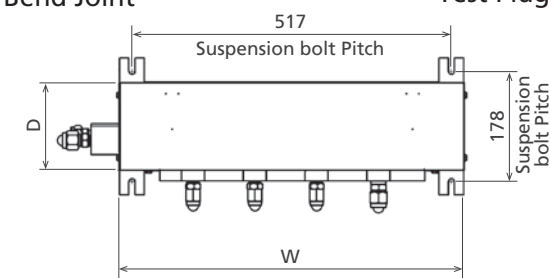
Simple & Quick Installation

HEADER PACK Lineup

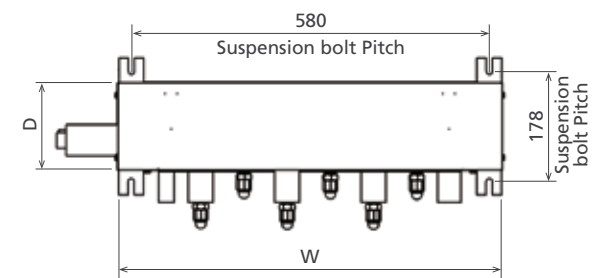
Model name	Outdoor unit side	Indoor unit side (Flare)		Indoor unit total capacity index	Dimension (mm)			
	Liquid / Gas (mm)	Port	Liquid / Gas (mm)		H	D	W	
BHF6RHP6Z	9.5 / 15.9 (Flare)	4	Large x1 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	≤ 150	135	143	559
BHF6ARHP6Z	9.5 / 15.9 (Flare)	6	Large x2 Small x4	φ9.5 / φ15.9 φ6.4 / φ12.7	≤ 150	135	143	623
BHF8RHP6Z	9.5 / 19.1 (Daikin Gas Tight Joint)	6	Large x3 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	≤ 200	135	143	623
BHF10RHP6Z	9.5 / 22.2 (Daikin Gas Tight Joint)	6	Large x3 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	< 290	135	143	623
BHF16RHP6Z	12.7 / 28.6 (Daikin Gas Tight Joint)	6	Large x3 Small x3	φ9.5 / φ15.9 φ6.4 / φ12.7	< 420	135	143	623



90° Bend Joint BHF6RHP6Z Test Plug



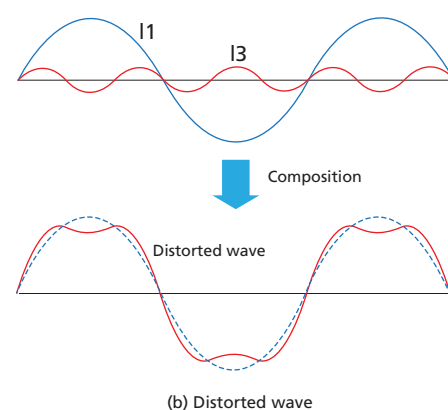
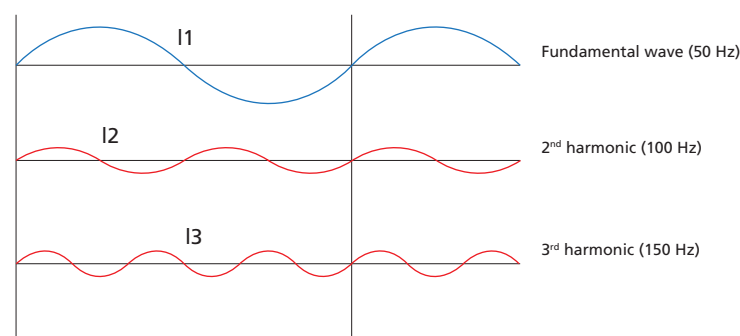
BHF6ARHP6Z, BHF8/10/16RHP6Z



Active Filter Unit

BACF22E5 (Option) For VRV X (MAX) / A (MAX) series

In an electric power system, a harmonic is a voltage or current that is distorted and deviate from sinusoidal waveforms. The distorted waveforms occur from the composition of a frequency that is an integer multiple of the fundamental frequency of the power supply. Harmonics generated by power semiconductor devices can travel through wires and may have negative effects such as equipment malfunctions and damage, vibrations, strange noises, etc.

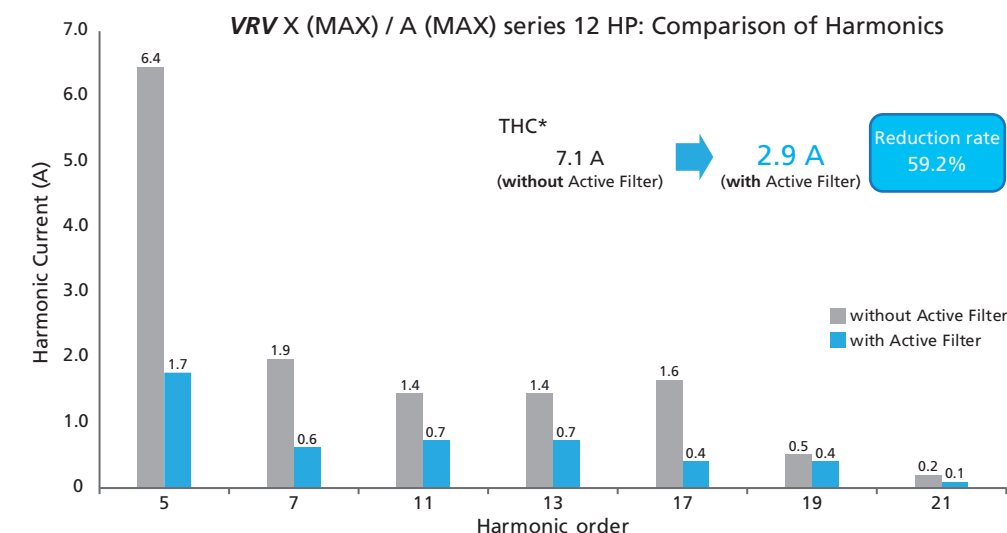


Specifications

MODEL	BACF22E5	
Power supply	3 φ, 380 – 415 V, 50 Hz	
Rated compensation capacity	4.6 kVA	
Installation environment	Outdoors	
System	Cooling	Forced air cooling (built-in fan)
	Inverter	Voltage type
Operation	Load current: Starting 5.5 A or more, stopping 4.0 A or less	
Error display	Displayed on the display board when an error occurs	
Operation characteristics	Harmonic compensation target order: 2 nd to 23 rd However, the residual rate changes depending on the power supply impedance.	
Dimensions (HxWxD)	723 × 334 × 249 mm	
Weight	22 kg	

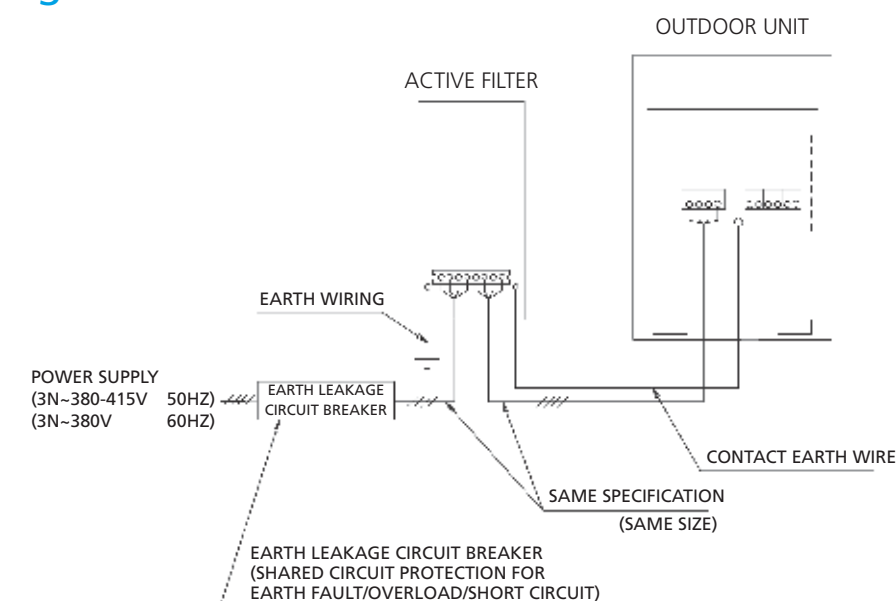
Advantages of Active Filter

Daikin's Active Filter unit can drastically reduce harmonics, preventing damages from harmonics and extending equipment lifespan.



*Total Harmonic Current (THC) is the accumulated currents of the orders 2 to 23 that contribute to the distortion of the current waveform. This value is particularly useful in determining the required characteristics for installation of modern active harmonic filters.

Field Wiring



* Refer to the Engineering Data Book for details.

