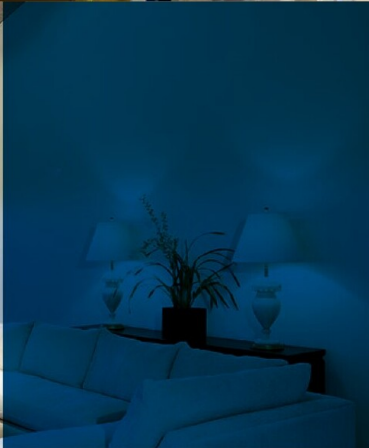




WORLD'S LEADING AIR CONDITIONING
COMPANY FROM JAPAN



Solutions

Maximum designs. | Minimum running cost.



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SPECIFICATIONS





Daikin, the world leader in air-conditioning brings a world full of love to India with its air-conditioning solutions. Known for superior Japanese technology, Daikin promises to spread joy in the air. With a wide range and features like never before, Daikin creates an environment of comfort through efficient air-conditioning. Daikin air-conditioners are manufactured keeping in mind different air-conditioning needs and also space requirements. Our wide range of air-conditioners are easy to install and are apt for residential and commercial usage.

ABOUT DAIKIN

Daikin® is a leading innovator and provider of advanced, high-quality air-conditioning solutions for residential, commercial and industrial applications. As World's No. 1 Air-conditioning Company, Daikin is committed to delivering air-conditioning solutions that enhance the quality of life all around the world. A diverse multinational company, Daikin Industries Ltd. active in air-conditioning, chemicals and oil hydraulics, was established in 1924. With headquarters at Osaka, Japan, the Daikin family has more than 51,000 members, working across 60 production base units and 208 consolidated subsidiaries worldwide. As the world's sole manufacturer

that develops a long line of products from refrigerants to air-conditioners, Daikin advocates comfortable living on the strength of advanced technologies.

Daikin is present in USA, Europe and Russia, Middle East, Africa, Asia, Oceania and Middle-South America. We aim to serve our customers in each of these markets by providing optimal airconditioning products.

GLOBAL FOOTPRINT



2

Solutions 360°

Europe/Middle East/Africa



Daikin
Airconditioning
Central Europe



Daikin
Airconditioning
Spain



Daikin
Airconditioning
Italy



Daikin Europe
N.V.



Daikin
Airconditioning
France



Daikin Airconditioning
Germany



Daikin
Airconditioning
UK



Daikin
Industries Czech
Republic



Daikin Chemical
France

North America/Central & South America



Daikin America



Daikin Holding USA



Daikin AC (Americas)



China



Daikin (China)
Investment



Shanghai Daikin
Airconditioning



Xi'an Daikin Qing'an
Compressor



Hui Zhou Daikin
Suns Airconditioning



Daikin
Device(Suzhou)



Daikin Fluoro
Coating Shanghai



Daikin
Fluorochemicals
China

Asia/Oceania



Daikin Industries
Thailand



Daikin Compressor
Industries



Daikin Airconditioning
Singapore



Daikin Australia



Daikin Airconditioning
India



Daikin Industries Head
Office (Inside Umeda
Center Building)

THE DAIKIN DIFFERENCE

As a world leader in technological innovation, we've initiated and funded a wide range of research programmes in areas that directly impact our air-conditioners - ranging from mechanics and electronics to chemicals and fluorocarbons. With this knowledge, we build absolute comfort into every product we develop. Pioneering products include the first packaged air-conditioner in Japan 1951 and the world's first Variable Refrigerant Volume (VRV) system in 1982. Daikin is committed to explore and adopt cutting-edge technology to continually offer value-added and solution-based products and services to customers.

THE LOGO



The triangle shape represents the integration of three technological areas (mechanics, chemistry and electronics), while the upper left direction of the triangle symbolises Daikin's innovative spirit that aspires toward the future. The two blue colours (corporate colours) used in the corporate logo and the triangle design element befit Daikin's emphasis on intellect and brightness. Black expresses strength, a sense of positive presence and stability.

ENVIRONMENTAL PHILOSOPHY

In all of us,
a green heart



In February 2002, we created an environmental symbol for the Daikin Group. In environmental protection activities, little efforts that individuals make add up to big things. The symbol, the Earth in the shape of a green heart, represents a determination on the part of each and every employee of Daikin to think green (think of the Earth and take care of the environment). As we continue developing our business operations in various fields, it is our mission to proactively develop initiatives to respond to environmental issues. Incorporating environmental initiatives throughout our management must be a priority for us. In all aspects of our business operations, including product development, manufacturing and sales, we need to formulate initiatives that sustain and improve the environment. Meanwhile, we need to promote the development of new products and the innovation of technologies that will lead to a more environmentally healthy world.

PICHONKUN



PICHONKUN
© D.H.T. 2000

A mascot that represents Daikin's innovative thrust into the future is called 'PICHONKUN'. The new mascot of Daikin is so named because of the sound it makes. Created in Japan, this dew droplet represents the 'fresh as morning nature' of Daikin's new range of air-conditioners and airpurifiers. PICHONKUN symbolises the best of nature-fresh, natural and eco-friendly.

OUR TIMELINE

6

Solutions 360°

1924

Akira Yamada becomes the founder of the Osaka Kinzoku Kogyosho Limited Partnership.

1934

Osaka Kinzoku Kogyo Co., Ltd. is established, with the following corporate logo:  Trial manufacture of a methyl chloride type refrigerator succeeds. The refrigerator is named Mifujirator and production begins.

1936

The Mifujirator refrigerator is delivered to Nankai Railways for trial use as Japan's first air-conditioner for trains.

1951

Production of packaged air-conditioners begins.

1956

A heat exchanging device is installed on the Soya, an Antarctic research vessel, as a cabin heating system.

1958

Residential-use air-conditioners equipped with Japan's first rotary compressor are marketed. The heat-pump type packaged air-conditioner is developed.

1963

Osaka Kinzoku Kogyo Co., Ltd. is renamed Daikin Kogyo Co., Ltd. (Renamed Daikin Industries, Ltd. in 1982).

1964

Cool air service by Daikin Aircon begins at J.N.R. Osaka Station. The air-conditioning system is thereafter installed in major terminals.

1969

A multiroom air-conditioning system with a single outdoor unit is developed. A Freon heater is employed in an air-conditioner, combining heating and cooling functions.

1995

The industry's first compact room air-conditioner to use a swing compressor to save energy is marketed.

1993

Daikin Airconditioning France S.A. is established in Paris as an air-conditioning system sales company.

1992

Daikin Chemical Europe is established in Düsseldorf, Germany.

1991

Daikin America, Inc. and MDA Manufacturing, Inc. are established in the US.

1990

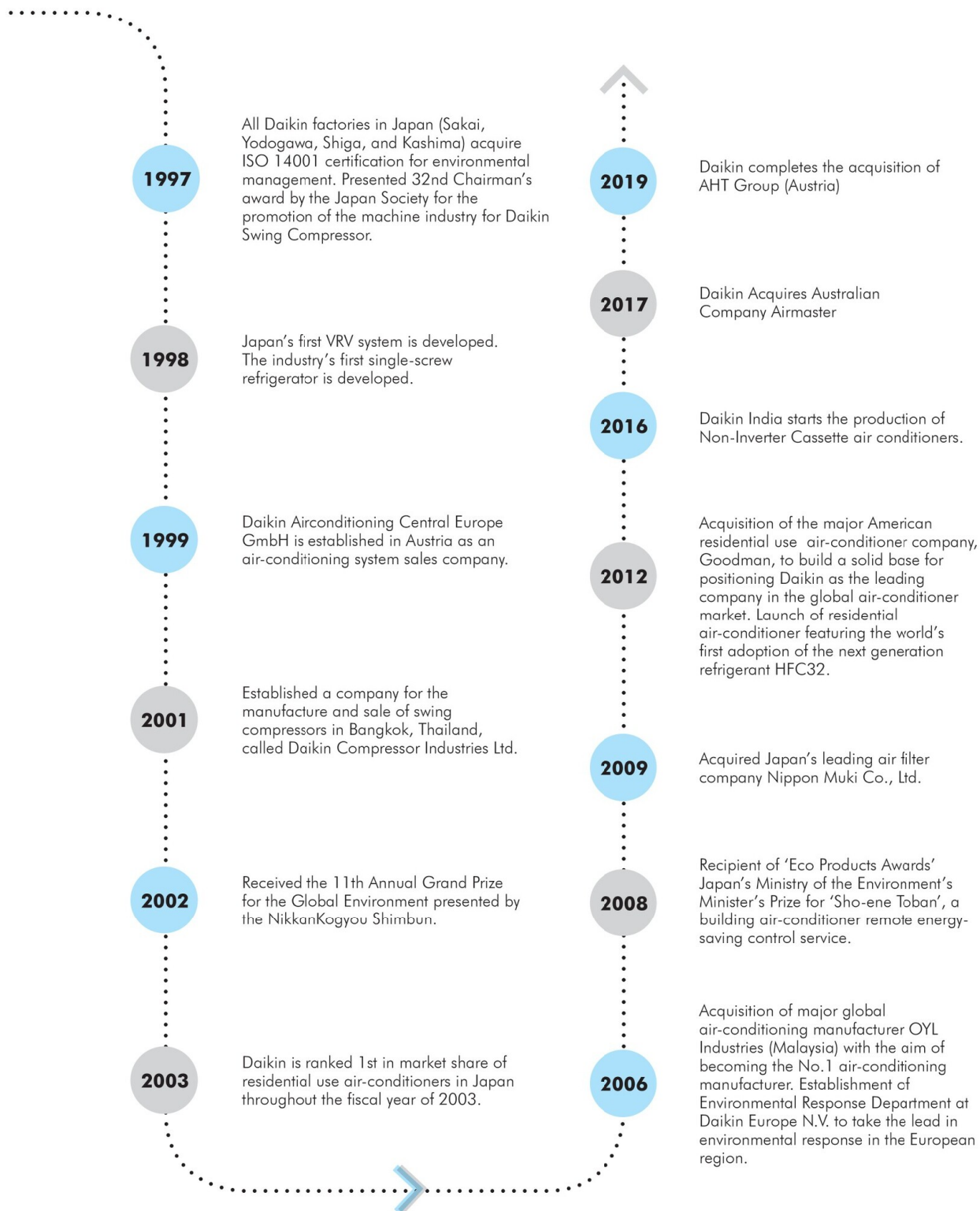
Daikin Industries (Thailand) Ltd. is established in Thailand and begins production of air-conditioners.

1984

Daikin becomes first in the world to produce a cumulative total of 1 million packaged air-conditioners.

1982

Japan's first VRV system is developed. The industry's first single-screw refrigerator is developed.





DAIKIN INDIA AT A GLANCE

8

Solutions 360°

Daikin Airconditioning India Pvt. Ltd., a subsidiary of Daikin Industries Ltd., Japan is one of the leading global manufacturers of both residential and commercial air-conditioning systems. Backed by the superior technology, the organisation offers a wide range of energy efficient air-conditioning solutions to customers.

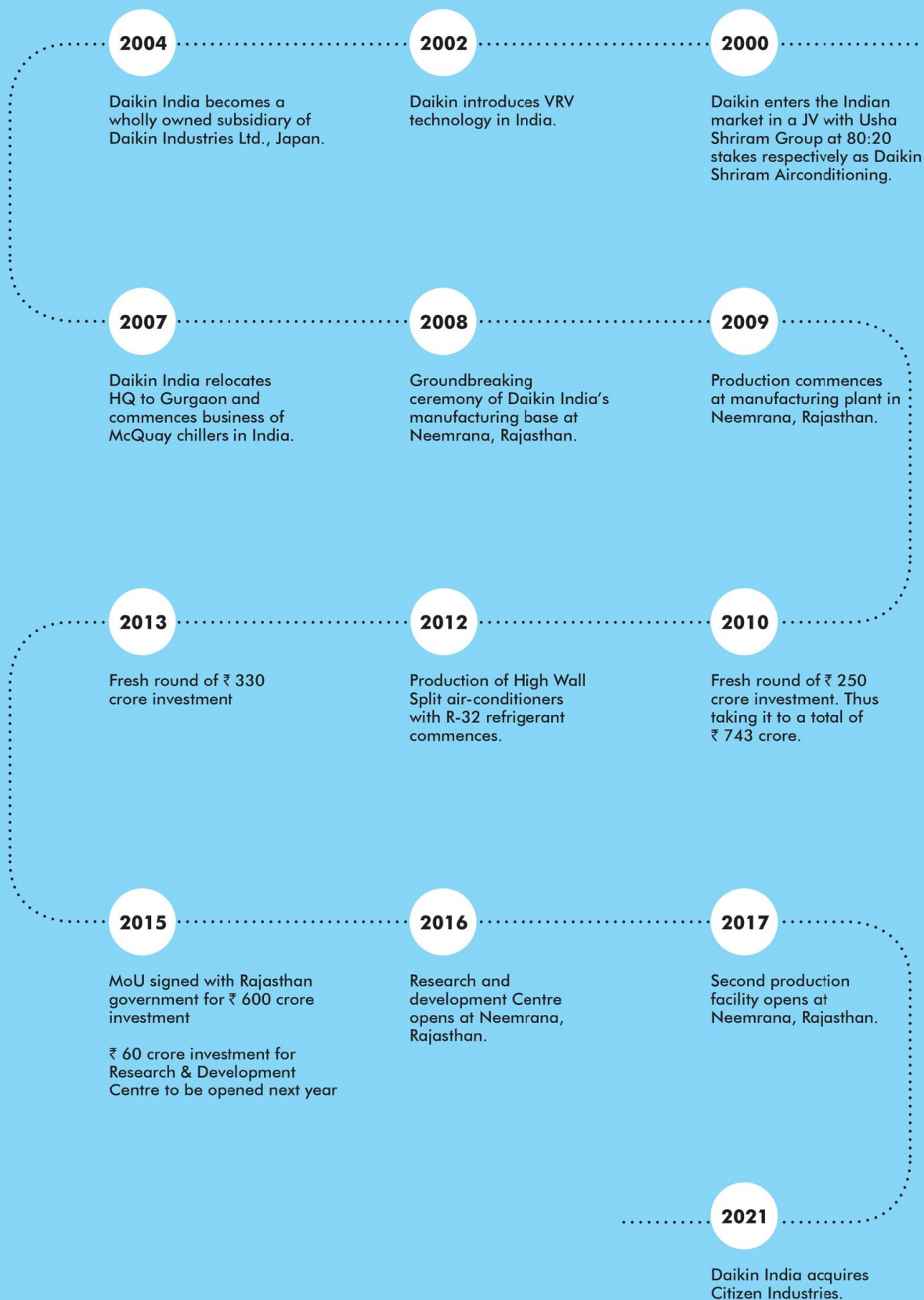
After introducing our superior air-conditioning solutions in India in the year 2000, we gained the trust of our valuable customers with our innovative range of products and dedication towards quality. An ISO 14001 certified company, we remain committed to keep customers at the core of everything we do. Imbued with a 'Quality First' global philosophy, we at Daikin, walk on to realise our dream for a better world.

'Quality First' is clearly reflected in the value delivered such as low noise level, low power consumption, cooling efficiency, ease of installation, high reliability – all targeted to improve the quality of life.

Daikin India's manufacturing plant at Neemrana, Rajasthan aims at creating products that will make people's lives more comfortable.

It is supported by a network of production bases worldwide and showcases the application of advanced technology and equipment. Our comprehensive quality control system features centrally computerised management of quality and production data to facilitate timely production that bears the stamp of excellent quality.

Daikin Neemrana facility incorporates Daikin's global Environmental Management System (EMS) that has been implemented in the factory to promote adapting procedures for refrigerant handling, resource conservation and waste management.



ENGINE OF GROWTH



Factory 1

MANUFACTURING PLANT

Daikin's manufacturing plant at Neemrana, Rajasthan, aims to create products that will add comfort to the lives of people. It is supported by a network of production bases throughout the world and showcases the application of advanced technology and equipment. Our comprehensive quality control system features centrally computerised management of quality and production data to facilitate high-quality production within scheduled time.

Area

42,300 sq mtrs

Investments*

10,299 mn



Factory 2

RESEARCH & DEVELOPMENT FACILITY

Lab facilities

- Two Psychrometric lab of 3 TR and one Lab of 5 TR
- One multi-chamber lab of 25 TR capacity
- One Full Anechoic chamber for running sound test
- 10 HP* Product Reliability test lab, CFM test lab and one 11 TR Psychrometric lab

Test facilities

- Cyclic Corrosion test
- Salt Spray test
- Thermal Shock test*
- Vibration test*
- Environmental test*
- Drop test#

Other facilities

- Concept room
- Mock-up area
- Device test room (electronic parts test room)

*Operational by 2018 #Under installation

Area

5,088 sq mtrs

Investments*

1,000 mn

R&D Centre



R32 – BEFRIENDING THE ENVIRONMENT

AIR IS SOMETHING THAT SURROUNDS US 24 HOURS A DAY. IN FACT, OUR EXISTENCE, AS WELL AS EARTH'S DEPENDS ON IT. AT DAIKIN, THE FUTURE OF THE WORLD'S AIR IS OUR GREATEST CONCERN. WE, THE MANUFACTURER OF WORLD'S BEST AIR-CONDITIONERS, ARE ALWAYS PAVING THE PATH TO SAVE OUR ENVIRONMENT FOR NEXT GENERATION.

We phased out all R-22 model and shifted to the green refrigerant R-32. Now, whole world is coming together to find and work on way to address global warming issue. We are also offering worldwide free access to patents for equipment using next generation refrigerant, R-32. Refrigerant choice is a key in saving the ozone layer and reducing global warming.

R-32 is Environment-Friendly

**ZERO
OZONE**

Depletion Potential

1/3RD

Global Warming Potential

75%

less carbon dioxide emissions

BETTER LIFE

cycle climate performance

OUR RA MODELS
MANUFACTURED
IN INDIA USE THE
NEXT GENERATION
REFRIGERANT, R32.

R-32 offers superior performance

15.3%

more cooling as compared to R410A

~30%

refrigerant charging volume as compared to R410A & R22

~5%

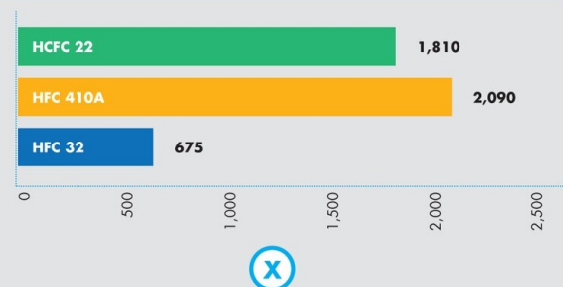
more power savings compared to R410A

BETTER PERFORMANCE

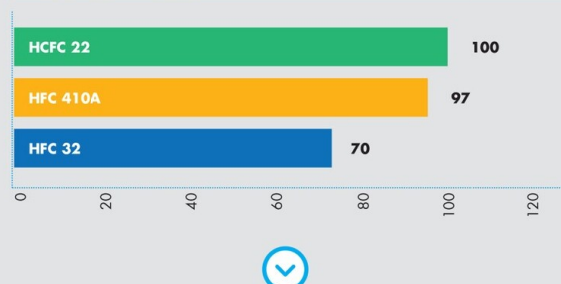
at higher temperature as compared to R22 (Low Derating)

Only 1/3rd Global Warming potential

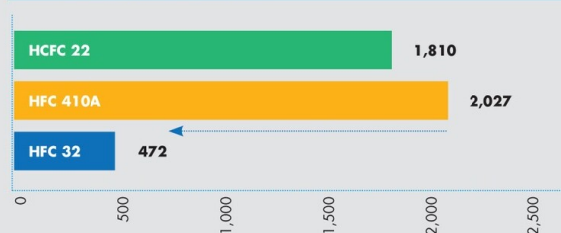
GWP



Charging ratio (%)

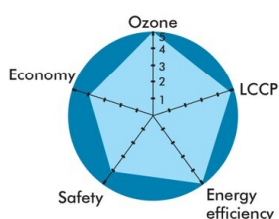


Theoretical Modified GWP

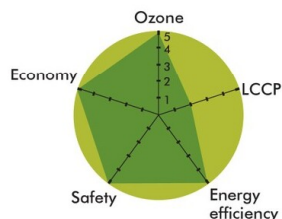


Most balanced refrigerant

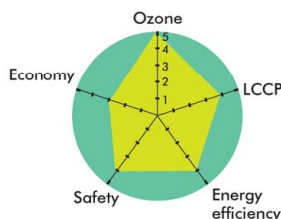
HFC32



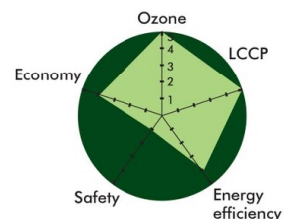
HFC410A



HFO1234YF



Propane (HFC290)

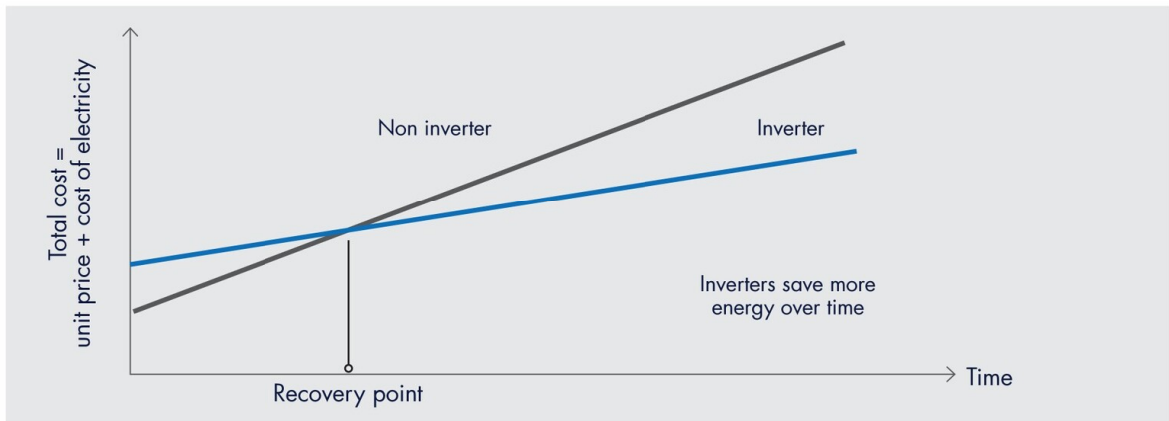


R-32 has zero Ozone Depletion Potential (ODP) and Modified Global Warming Potential (GWP) of 472, compared to R-410A's Modified GWP of 2,027. Also R-32 is a single component refrigerant, which makes it easy to recycle. It is because of these reasons that R-32 offers the lowest total emissions and best overall life-cycle climate performance

INVERTER TECHNOLOGY

WHY IS INVERTER TECHNOLOGY ECONOMICAL?

- Inverter system consumes less electricity, and soon recovers the difference in initial cost. This results in lower total cost.



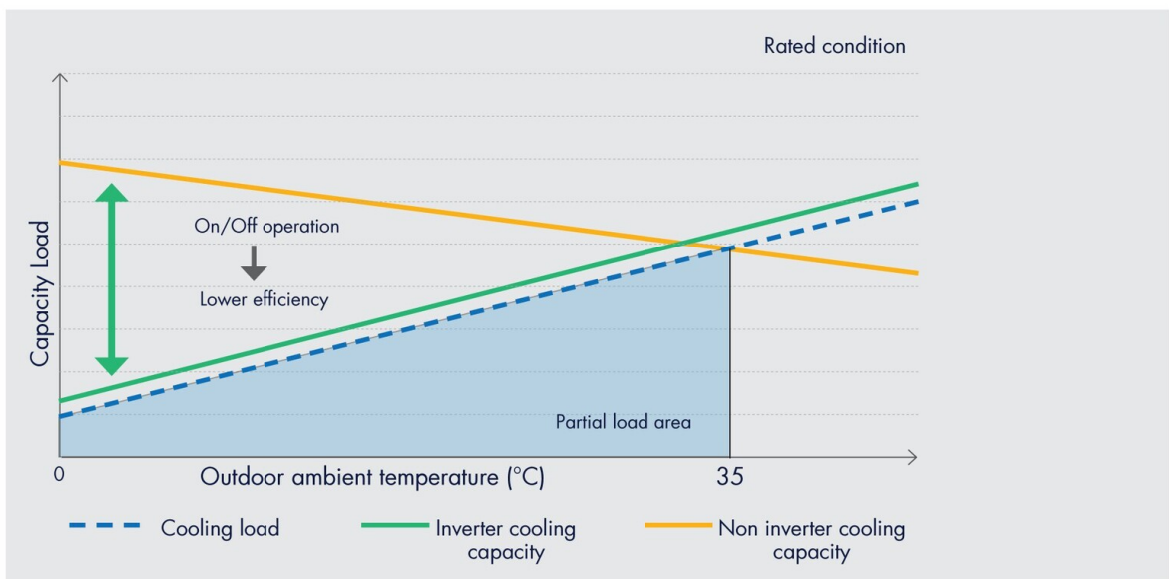
14

Solutions 360°

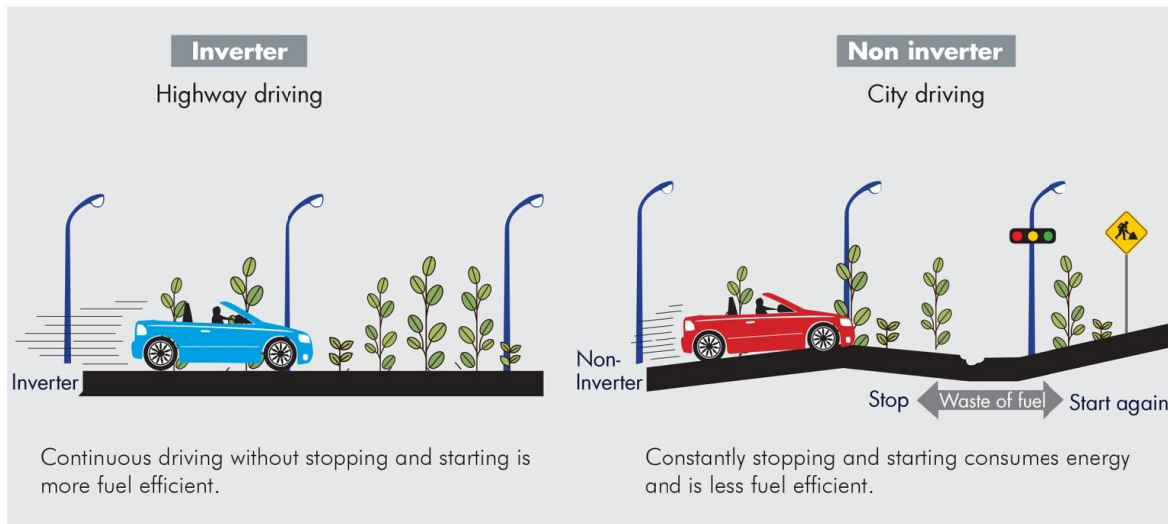


- Inverter air conditioner can adjust its cooling capacity according to the cooling load. This results in less power consumption.

In response to fluctuating cooling load, Non inverter air conditioners repeatedly perform ON (full-power)/OFF (zero-power) operation. Inverter air conditioners, however, operate at optimal cooling capacity according to the cooling load. Since inverter air conditioners provide required minimum cooling capacity with minimum electrical power, total power consumption can be reduced during cooling period.

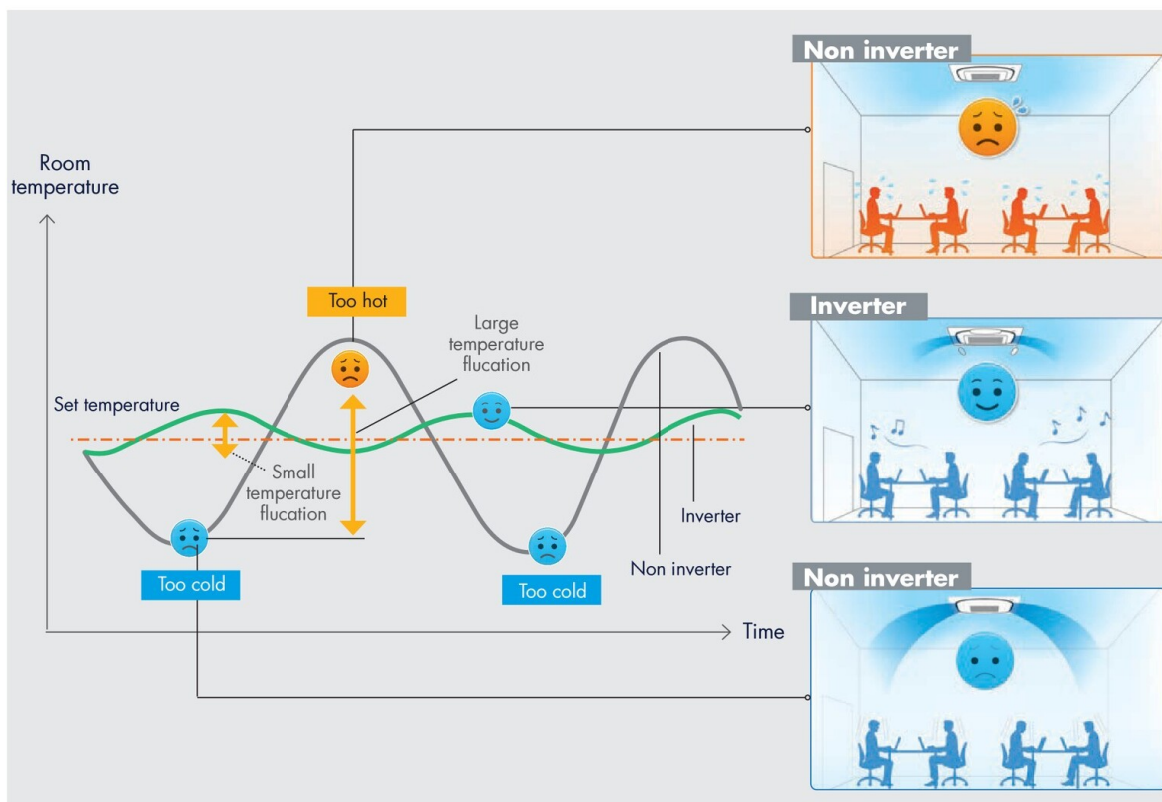


- Inverters operate without repeated ON/OFF operation.



WHY IS INVERTER TECHNOLOGY MORE COMFORTABLE?

- When temperature does not fluctuate much, the set temperature is maintained.
Inverter control responds to load changes and causes minor temperature adjustments. Non-inverter control frequently turns ON and OFF in response to load fluctuations or load mismatch and causes large temperature swings.



APPLICATION OF THE PRODUCT



RETAIL

Versatility and control are the keys to create a comfortable condition within trading areas and changing rooms that will keep customers shopping. It's important to select a system that offers excellent performance, while minimising operating costs and energy consumption.



OFFICES / BANKS

The challenge for an office or bank is the ability to effectively heat or cool open plan areas as well as meeting rooms. Cooling a meeting room when it is empty will mean running costs mount up unnecessarily. Conditions within open-plan areas are important for staff comfort levels.



IT & SERVER ROOMS

Computer systems run round the clock and require a controlled temperature environment to operate effectively. Equipment in these rooms can generate a lot of heat and not removing the heat effectively can cause computer servers to malfunction. Downtime from inoperable servers can mean lost business and productivity.



RESTAURANTS

Guests expect a perfect atmosphere, including comfortable conditions. Heat generated from lighting, the kitchen area and the dining area can all contribute to make restaurants uncomfortable with inadequate air-conditioning. Air-conditioning needs to be discreet and flexible to meet the demands of your restaurant and customers.

INVERTER
SERIES





CEILING SUSPENDED TYPE

FHQ SERIES
COOLING ONLY & HEAT PUMP

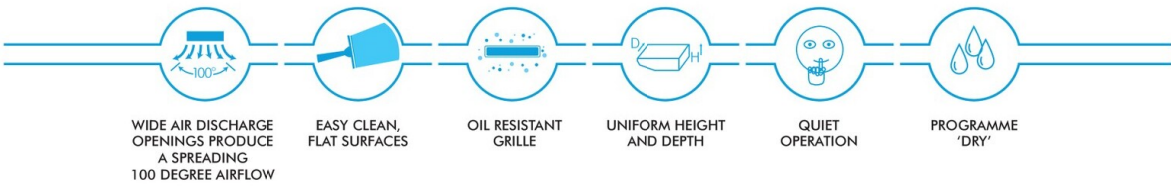
FHQ SERIES

COOLING ONLY & HEAT PUMP



UPGRADE TO A QUIET AND COMPACT SYSTEM

R-410A



FHQ100BV & 125BV (COOLING ONLY)	10KW & 12.5 KW	COOLING
FHQ100BV & 125BV (HEAT PUMP)	9.2KW & 11.2 KW	COOLING
	10.5 KW & 13.5 KW	HEATING

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRELESS LCD REMOTE CONTROLLER

Option

A signal receiver must be added to the indoor unit.

BRC7EA66
(Cooling Only)

BRC7EA63W9
(Heat Pump)

**SIGNAL
RECEIVER UNIT**
(Installed type)

Wireless remote controller and signal receiver unit are sold as a set.

NAVIGATION REMOTE CONTROLLER

Standard

BRC1E62
(Wired Remote Controller)

Note: Remote controller cable not included. Cables must be procured locally.

1 TR (TONS OF REFRIGERATION) = 3.517 KW

FEATURES

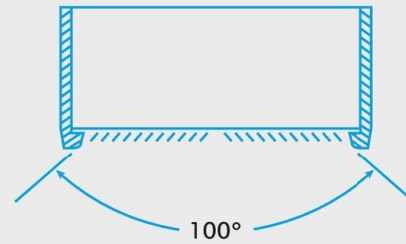
	FHQ-BVV1B	Cooling Only	Heat Pump
Comfort	Auto swing	•	•
	Draft prevention function	—	•
	Switchable fan speed(2 step)	•	•
	Programme 'Dry'	•	•
	High ceiling application	*1	*1
	Two selectable temperature-sensors	*2	*2
	Hot start (after defrost)	—	•
	Year-round cooling applicable	—	•
	Night quiet operation	*3	*3
	Timer selector	•	•
	Weekly schedule timer	*4	*4
Cleanliness	Anti-bacterial air filter	•	•
Work & Servicing	Drain pump mechanism	*5	*5
	Pre charged for up to 30 m	*3	*3
	Long-life filter	•	•
	Filter sign	•	•
	Low gas pressure detection	*3	*3
	Emergency operation	•	•
Control features	Self-diagnosis function	•	•
	Auto-restart	•	•
	Auto-cooling/heating change-over	—	•
	Control by 2 remote controllers	•	•
	Group control by 1 remote controller	•	•
	External command control	•	•
Others	Central remote control	•	•
	Interlock control	•	•
Others	Anti corrosion treated heat exchangers	*3	*3

- *1 Installable on max. 3.5 m high ceiling
 *2 Applicable when wired remote controller is used
 *3 For outdoor units
 *4 Applicable when BRC1E62 is used
 *5 Option

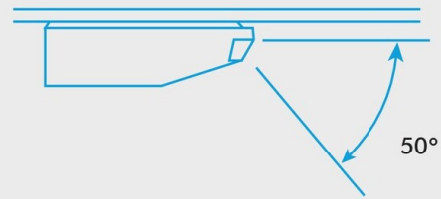
COMFORT

- **AUTO-SWING (UP & DOWN) BRINGS COMFORT TO THE ROOM**
- **DISTRIBUTES AIR EVENLY THROUGHOUT THE ROOM**

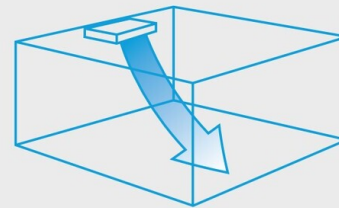
WIDE AIR DISCHARGE OPENINGS PRODUCE A SPREADING 100° AIRFLOW



AIR IS BLOWN UP TO 50° IN THE DOWNWARD DIRECTION



- **INSTALLABLE ON CEILINGS 3.5 M HIGH**



- **TWO SELECTABLE TEMPERATURE-SENSORS**

Both indoor unit and wired remote controller (option (BRC1E62)) contain temperature-sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature requires initial setting by the installer.

Temperature-sensor on indoor unit must be used when the air-conditioner is controlled from another room. Wireless remote controller does not have a temperature-sensor.

- **SWITCHABLE FAN SPEED: HIGH/MIDDLE/LOW**

- **PROGRAMME 'DRY'**

Dehumidification is micro-processor controlled to prevent abrupt and uncomfortable changes in air temperature.

- **EASY CLEAN, FLAT SURFACES**

For all maintenance tasks, access is from bottom surface.

- **OIL RESISTANT GRILLE**

Oil-resistant plastic is used for the air discharge grille. This satisfies durability in restaurants and other similar environments.

Note: Intended for use in salons, dining rooms and ordinary sales floors. This specification is not suitable for kitchens or other harsh environments.

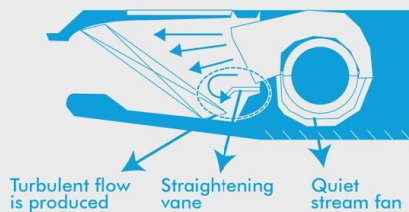
- **QUIET OPERATION**

Sound operation has been reduced on the exposed ceiling suspended type unit.

dB(A)		
INDOOR UNIT	HIGH	LOW
100BV	42	37
125BV	44	39

Note: Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

USES QUIET STREAM FAN AND OTHER QUIET TECHNOLOGIES



WORK & SERVICING

- **FLEXIBLE INSTALLATION FLEXIBILITY FOR FREEDOM OF DESIGN**

- **UNIFORM HEIGHT AND DEPTH**

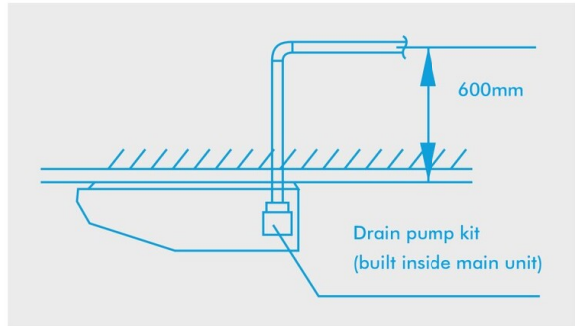
Compact design for small-capacity models to meet tighter dimensional spaces.

- **FLEXIBLE INSTALLATION**

The unit fits more snugly into tight spaces.

- **DRAIN PUMP KIT (OPTION) CAN BE EASILY INCORPORATED**

Drain pipe connection can be done inside the unit. Refrigerant and drain pipe outlets are at the same opening.



- **ALL WIRING AND INTERNAL SERVICING CAN BE DONE FROM UNDER THE UNIT**

- **PIPES MORE EASILY RIGGED**

- **LOW GAS PRESSURE DETECTION**

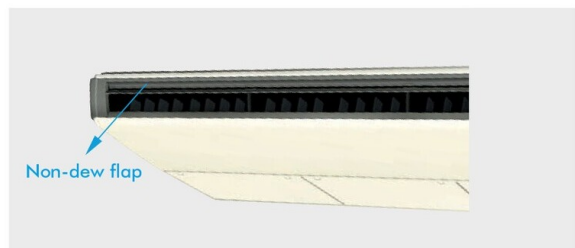
(Applicable to 125KCV4A, RZQ100/125HAY4A outdoor units)

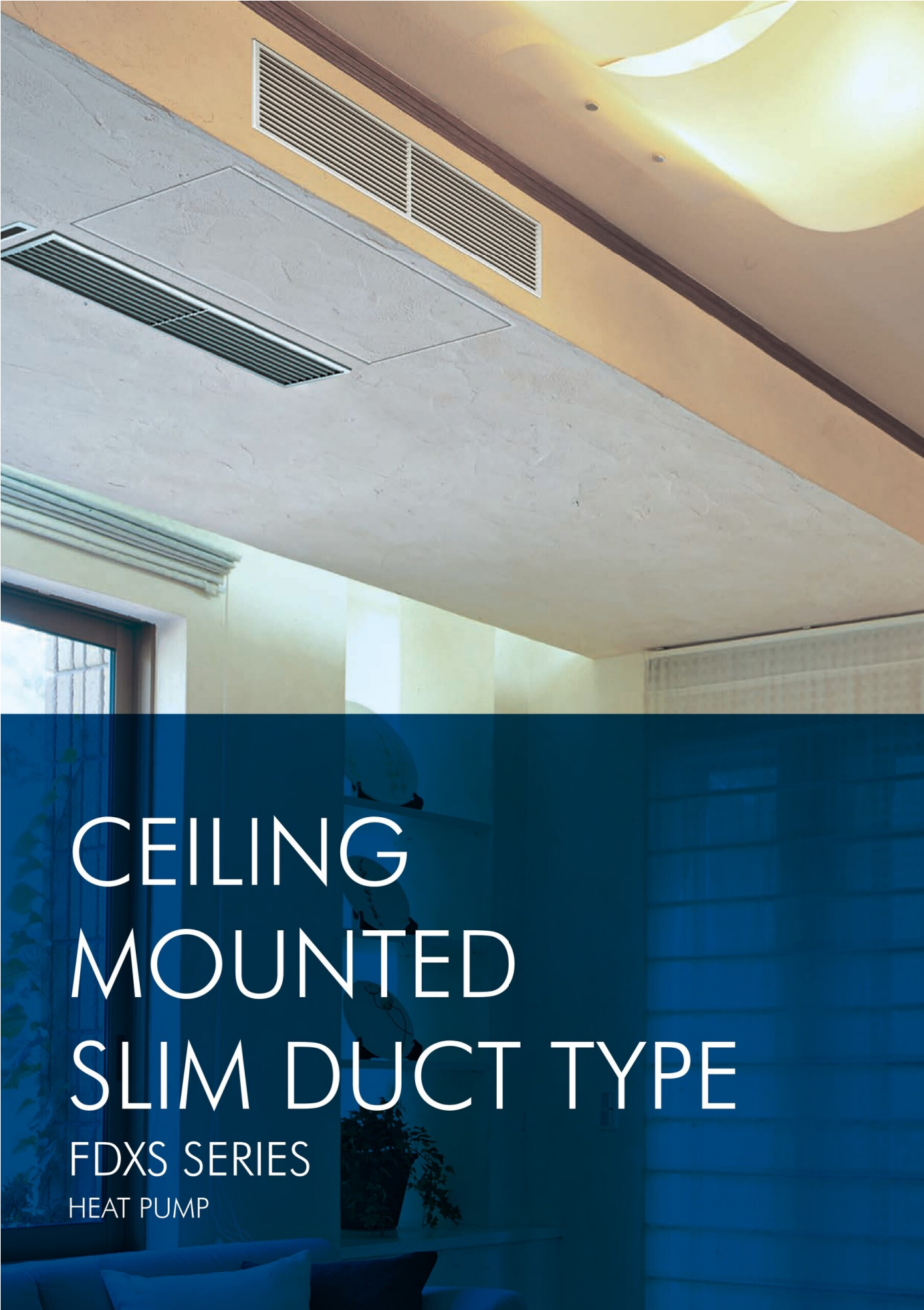
- **LONG-LIFE FILTER LASTS UP TO 6 MONTHS***

* For dust concentration of 0.15 mg/m³
Two time settings (2500 hrs and 1250 hrs) are available to match the installation environment. Maintenance time warning is displayed on the remote controller (filter sign).

- **NON-DEW FLAP BRISTLES MINIMISE CLINGING DIRT AND SIMPLIFY CLEANING**

Absence of bristles minimises clinging dirt and simplifies cleaning.





CEILING MOUNTED SLIM DUCT TYPE

FDXS SERIES
HEAT PUMP

FDXS SERIES

HEAT PUMP



R-410A

SUITABLE FOR TIGHT CEILING SPACES



SLIM PROFILE



QUIET
OPERATION

FDXS25~60C (HEAT PUMP)	2.4 KW ~ 6.0 KW	COOLING
	3.2 KW ~ 7.0 KW	HEATING

ACCESSORY REQUIRED FOR INDOOR UNIT

24

Solutions 360°

WIRED LCD REMOTE CONTROLLER

Standard

BRC944B2

Note: 3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary.



WIRELESS LCD REMOTE CONTROLLER

Option

ARC433B69

A signal receiver must be added to the indoor unit.



Signal receiver unit
(Separate type)

A signal receiver must be added to the indoor unit.



FEATURES

	FDXS-CVMA	Heat Pump
Comfort	Switchable fan speed	•
	Programme 'Dry'	•
	Hot start	•
Work & Servicing	Pre charged for up to 10 m	•
	Self-diagnosis function	•
Control features	Auto-restart	•
	Auto-cooling/heating change-over	•
Others	PE fin	•

COMFORT

• QUIET OPERATION

Indoor unit quiet operation provides a low sound level of 29 dB(A) and outdoor unit quiet operation provides a low sound level of 44 dB(A) for FDXS25C.

• DISTRIBUTES AIR EVENLY THROUGHOUT THE ROOM

The only visible signs of these unobtrusive units are their discharge grilles. They fit completely inside the ceiling to maintain the original décor of a room. Each unit comes with its own wireless remote controller.

WORK & SERVICING

• SLIM PROFILE

The new series adds a 2.5 kW model. All units share the same low height of just 200 mm. This means it is now possible to install a unit inside a shallow ceiling cavity with a height of just 240 mm.



FLOOR STANDING TYPE

FVQ SERIES

COOLING ONLY & HEAT PUMP

FVQ SERIES

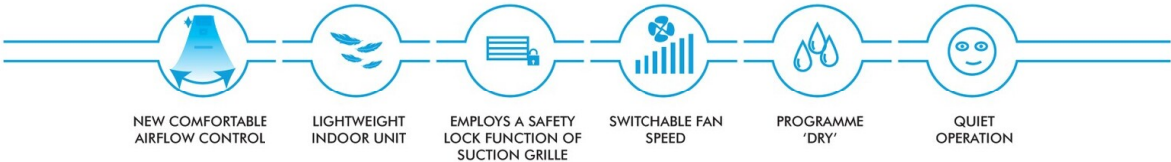
COOLING ONLY & HEAT PUMP



INVERTER

R-410A

COMFORT THROUGH NEW AIRFLOW CONTROL



FVQ100 ~ 140 (COOLING ONLY)	10KW ~ 13.5 KW	COOLING
FVQ100 ~ 140 (HEAT PUMP)	10KW ~ 13.5 KW	COOLING
	11.2 KW ~ 16.0 KW	HEATING

ACCESSORY REQUIRED FOR INDOOR UNIT

NAVIGATION REMOTE CONTROLLER

Option

BRC1E62 (WIRED REMOTE CONTROLLER)

Note: Remote controller cable not included. Cables must be procured locally.



FEATURES

	FVQ-CVEB	Cooling Only	Heat Pump
Comfort	Auto swing	•	•
	Independent up-and-down airflow	•	•
	Switchable fan speed (3 step)	•	•
	High fan speed mode	*1	*1
	Programme 'Dry'	•	•
	Two selectable temperature-sensors	*2	*2
	Hot start (after defrost)	—	•
	Year-round cooling applicable	—	•
	Night quiet operation	*3	*3
	Timer selector	•	•
	Weekly schedule timer	*4	*4
Cleanliness	Anti-bacterial air filter	•	•
Work & Servicing	Pre charged for up to 30 m	*3	*3
	Long-life filter	•	•
	Filter sign	•	•
	Low gas pressure detection	*3	*3
	Emergency operation	•	•
Control features	Self-diagnosis function	•	•
	Auto-restart	•	•
	Auto-cooling/heating change-over	—	•
	Control by 2 remote controllers	•	•
	Group control by 1 remote controller	•	•
	External command control	•	•
Others	Central remote control	•	•
	Interlock control	•	•
Others	Anti corrosion treated heat exchangers	*3	*3

*1 Applicable for 100

*2 Applicable when wired remote controller is used

*3 For outdoor units

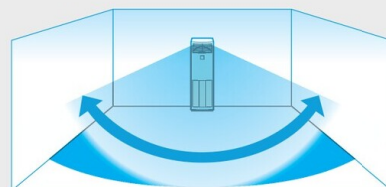
*4 Applicable when BRC1 E62 is used

COMFORT

NEW COMFORTABLE AIRFLOW CONTROL

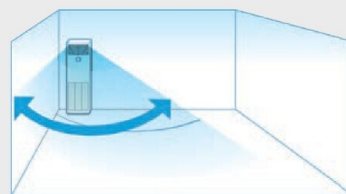
- Left and Right Directions (By Remote Controller)
Auto swing direction is selectable from three patterns to suit the layout of the room.

PATTERN 1 WIDE SWING TOWARD THE FRONT



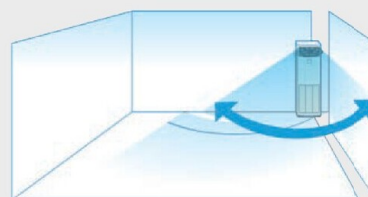
WHEN INSTALLED IN THE CENTER OF A WALL

PATTERN 2 SWING ON THE LEFT SIDE



WHEN INSTALLED IN THE CORNER OF A ROOM

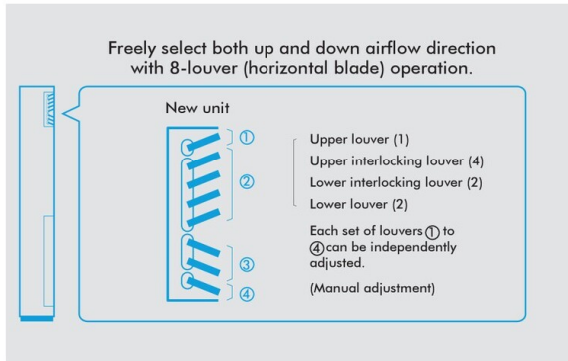
PATTERN 3 SWING ON THE RIGHT SIDE



WHEN INSTALLED IN THE CORNER OF A ROOM

2. Up and Down Directions (By Hand)

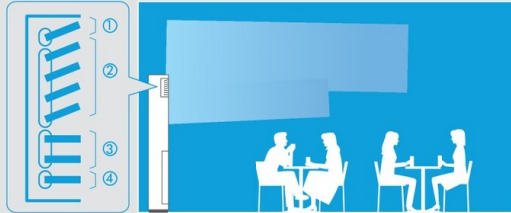
Independent up and down airflow directions facilitate even room temperature and help save energy.



Example applications

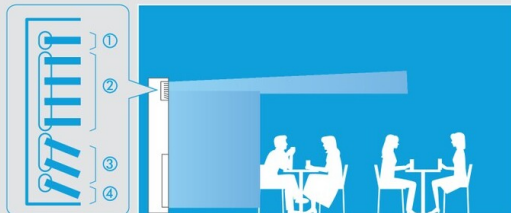
When cooling

Turning louvers ① and ② upward and turning ③ and ④ horizontal will reduce uneven room temperature.



When heating

Leaving louvers ① and ② horizontal and turning ③ and ④ downward will reduce uneven room temperature.



• COMFORTABLE FAN SPEED CONTROL

• HIGH FAN SPEED MODE (ONLY FVQ 100)

To carry airflow to the far side of the room, airflow rate can be increased 5% or 10% depending on the installation condition or customer's request (Field setting by remote controller).

• SWITCHABLE FAN SPEED: HIGH/MIDDLE/LOW

• PROGRAMME 'DRY'

Dehumidification is micro-processor controlled to prevent abrupt and uncomfortable changes in air temperature.

• ENERGY-SAVING

A DC fan motor improves efficiency.

• QUIET OPERATION

dB(A)

INDOOR UNIT	HIGH	MIDDLE	LOW
100 C	50	47	44
125 C	51	48	46
140 C	53	51	48

Note: Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

• QUICK AND EASY INSTALLATION AND MAINTENANCE

WORK & SERVICING

• LIGHTWEIGHT INDOOR UNIT

Enables smooth transport and installation of the indoor unit.

INDOOR UNIT	100 C	125 C	140 C
WEIGHT	47	47	47

• LONG-LIFE FILTER LASTS ABOUT 1 YEAR*, MAINTENANCE NOT REQUIRED

*For dust concentration of 0.15 Mg/ M

• EMPLOYS A SAFETY LOCK FUNCTION OF SUCTION GRILLE

The grille will not open even upon impact.

• EASIER CONNECTION WITH THE CENTRALISED CONTROL SYSTEM



DUCT CONNECTION MIDDLE HIGH STATIC PRESSURE TYPE

FDMF SERIES
COOLING ONLY

FDMF SERIES

COOLING ONLY



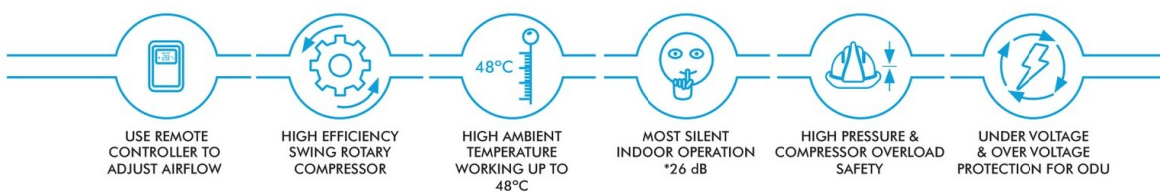
Compact Indoor
Unit Height
(300 mm)



INVERTER

FLEXIBLE USE OF SPACE IS MADE POSSIBLE USING DUCTS TO
CREATE A ROOM FILLED WITH COMFORT.

R-32



FDMF 50~140 (COOLING ONLY)

5.0 KW ~ 14.0 KW

COOLING

30

Solutions 360°

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRELESS LCD REMOTE CONTROLLER

Option

A signal receiver must be added to the indoor unit.



BRC4C66

BRC4M61-6



**SIGNAL
RECEIVER UNIT**
(Installed type)

Wireless remote controller and signal receiver unit are sold separately.

1 TR (tons of refrigeration) = 3.517 KW

* Applicable for selected models

NAVIGATION REMOTE CONTROLLER

Standard



BRC1E62/BRC1E63
(Wired Remote Controller)

Note: Remote controller cable not included. Cables must be procured locally.

FEATURES

	FDMF	Cooling Only
Comfort	Switchable fan speed (3-speed fan setting)	•
	Programme 'Dry'	•
	Two selectable temperature-sensors	*1
	Hot start (after defrost)	—
	Year-round cooling applicable	—
	Night quiet operation	*2
	Timer selector	•
	Weekly schedule timer	*3
Cleanliness	Anti-bacterial air filter	*4
	Silver ion anti-bacterial drain pan	•
Work & Servicing	Drain pump mechanism	•
	Pre charged for up to 30 m for 90-140 models	•
	Pre charge for up to 15m for (50/71) models.	•
	Long-life filter for 90-140 models	*4
	Filter sign	•
	Low gas pressure detection	*2
	Emergency operation	•
	Self-diagnosis function	•
Control features	Auto-restart	•
	Auto-cooling/heating change-over	—
	Control by 2 remote controllers	•
	Group control by 1 remote controller	•
	External command control	•
	Central remote control	•
	Interlock control	•
Options	High-efficiency filter	•
Others	Anti corrosion treated heat exchangers	*2

*1 Applicable when wired remote controller is used

*2 For outdoor units

*3 Applicable when BRC1E62 is used

*4 Option

#Due to continuous R&D, features may vary from model to model

COMFORT

• QUIET OPERATION

dB(A)

INDOOR UNIT	HIGH	LOW
50 D	33	26
71 D	38	34
90 D	38	32
100 D	38	32
125 D	42	35
140 D	42	35

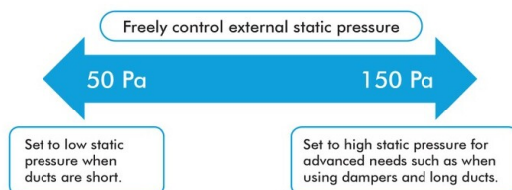
• TWO SELECTABLE TEMPERATURE-SENSORS

Both indoor unit and wired remote controller (option) contain temperature-sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature must be set during commissioning by the technicians.

Temperature-sensor on indoor unit must be used when the air-conditioner is controlled from another room. Wireless remote controller does not have a temperature-sensor.

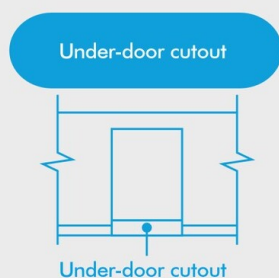
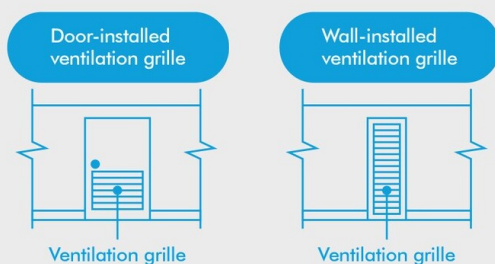
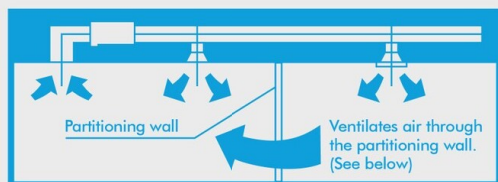
• INCREASED FREEDOM OF DESIGN, THANKS TO VARIABLE CONTROL OVER EXTERNAL STATIC PRESSURE

Comfort airflow achieved in accordance with conditions such as duct length. Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 200 Pa.



• SIMULTANEOUS AIR-CONDITIONING OF TWO ROOMS AND VENTILATION GRILLE (VENTILATION OPENING)

When air-conditioning two rooms simultaneously, the air discharged into each room must be circulated back to the air-conditioner. To achieve this, a ventilation duct should be installed for each room or one of the indicated ventilation grilles should be installed on the partitioning wall or under the door between the rooms.



Note: The under-door cutout method should be used only when there is a small volume of airflow.

CLEANLINESS

• BACTERICIDAL TREATMENT FOR DRAIN PAN

Anti bacterial treatment, that includes silver ions, is used which assists in preventing the growth of microorganisms that cause smells and clogging.

WORK & SERVICING

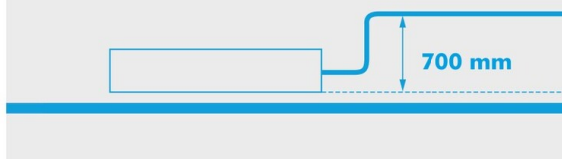
• THIN, LIGHTWEIGHT INDOOR UNIT MAKES DELIVERY AND INSTALLATION EASY

With a height of only 300 mm, installation is possible even in buildings with narrow ceiling spaces.



Indoor unit	Height (mm)	Width (mm)	Depth (mm)	Machine weight (kg)
50 D	300	1,000	700	34
71 D	300	1,000	700	34
90 D	300	1,400	700	43
100 D	300	1,400	700	43
125 D	300	1,400	700	45
140 D	300	1,400	700	45

Drain pump is equipped as standard accessory with 700mm lift.



• REDUCED INSTALLATION TIME

USE REMOTE CONTROLLER TO ADJUST AIRFLOW

When testing standard integrated ceiling units that employ duct work, much time is required to adjust airflow to the right level. Thanks to the ability provided by Daikin to automatically perform this troublesome adjustment using a remote controller, this step is now quick and easy. (Adjust by H tap).

1. Adjust to approximately $\pm 10\%$ of the rated H tap airflow.
2. Once actual operation has begun, adjustment of the rated airflow is not possible.

• EASY MAINTENANCE

Maintenance is easy because the drain pan can be removed.

A modern interior space featuring a large window with white curtains, a blue sofa, and a white ceiling with a long, horizontal air vent. A blue overlay covers the bottom half of the image, containing white text.

DUCT CONNECTION MIDDLE HIGH STATIC PRESSURE TYPE

FBQ SERIES
HEAT PUMP

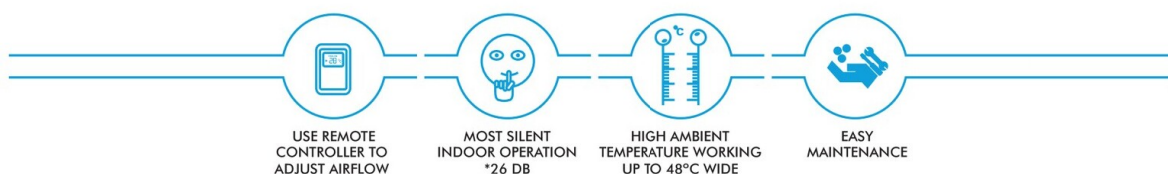
FBQ SERIES

HEAT PUMP



FLEXIBLE USE OF SPACE IS MADE POSSIBLE USING DUCTS TO
CREATE A ROOM FILLED WITH COMFORT.

R-410A



FBQ71 ~ 140D (HEAT PUMP)

8.0 KW ~ 16.0 KW

HEATING

34

Solutions 360°

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRELESS LCD REMOTE CONTROLLER

Option

A signal receiver must be added to the indoor unit.



BRC4M150W16

BRC4M61-6



**SIGNAL
RECEIVER UNIT**
(Installed type)

Wireless remote controller and signal receiver unit are sold separately.

1 TR (tons of refrigeration) = 3.517 KW

NAVIGATION REMOTE CONTROLLER

Standard



BRC1E62
(Wired Remote Controller)

Note: Remote controller cable not included. Cables must be procured locally.

FEATURES

	FBQ-DV1	Heat Pump
Comfort	Switchable fan speed (2 step)	•
	Programme 'Dry'	•
	Two selectable temperature-sensors	*1
	Hot start (after defrost)	•
	Year-round cooling applicable	•
	Night quiet operation	*2
	Timer selector	•
	Weekly schedule timer	*3
Cleanliness	Anti-bacterial air filter	*4
	Silver ion anti-bacterial drain pan	•
Work & Servicing	Drain pump mechanism	•
	Pre charged for up to 30 m	*2
	Long-life filter	*4
	Filter sign	•
	Low gas pressure detection	*2
	Emergency operation	•
	Self-diagnosis function	•
Control features	Auto-restart	•
	Auto-cooling/heating change-over	•
	Control by 2 remote controllers	•
	Group control by 1 remote controller	•
	External command control	•
	Central remote control	•
	Interlock control	•
Options	High-efficiency filter	•
Others	Anti corrosion treated heat exchangers	*2

*1 Applicable when wired remote controller is used

*2 For outdoor units

*3 Applicable when BRC1E62 is used

*4 Option

COMFORT

• QUIET OPERATION

dB(A)

INDOOR UNIT	HIGH	LOW
71 D	37	32
100 D	38	33
125 D	40	36
140 D	40	36

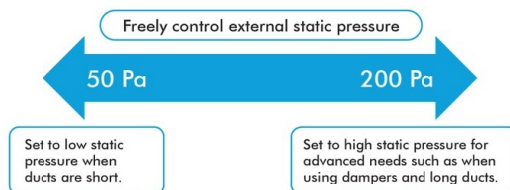
• TWO SELECTABLE TEMPERATURE-SENSORS

Both indoor unit and wired remote controller (option) contain temperature-sensors. Temperature sensing can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control. This feature must be set during commissioning by the technicians.

Temperature-sensor on indoor unit must be used when the air-conditioner is controlled from another room. Wireless remote controller does not have a temperature-sensor.

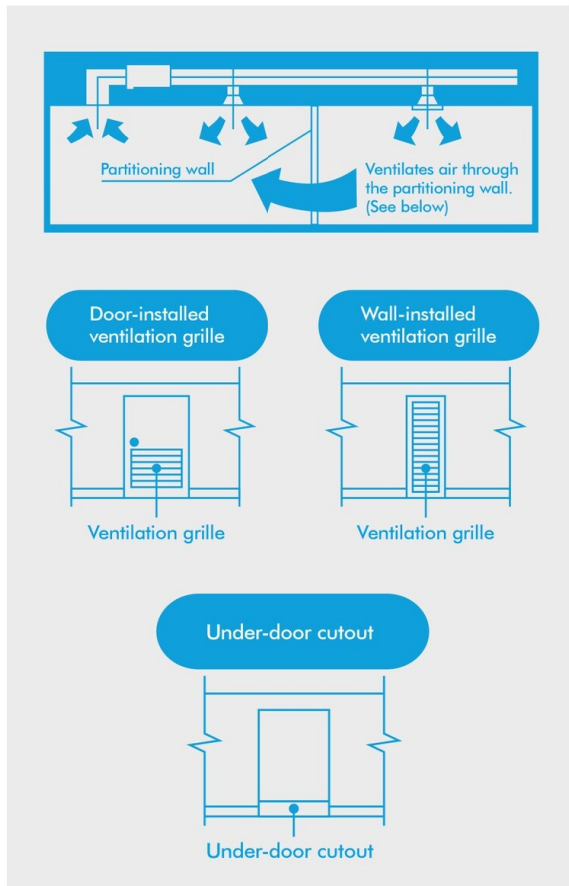
• INCREASED FREEDOM OF DESIGN, THANKS TO VARIABLE CONTROL OVER EXTERNAL STATIC PRESSURE

Comfort airflow achieved in accordance with conditions such as duct length. Using a DC fan motor, the external static pressure can be controlled within a range of 50 Pa to 200 Pa.



- **SIMULTANEOUS AIR-CONDITIONING OF TWO ROOMS AND VENTILATION GRILLE (VENTILATION OPENING)**

When air-conditioning two rooms simultaneously, the air discharged into each room must be circulated back to the air-conditioner. To achieve this, a ventilation duct should be installed for each room or one of the indicated ventilation grilles should be installed on the partitioning wall or under the door between the rooms.



Note: The under-door cutout method should be used only when there is a small volume of airflow.

CLEANLINESS

- **BACTERICIDAL TREATMENT FOR DRAIN PAN**

Anti bacterial treatment, that includes silver ions, is used which assists in preventing the growth of microorganisms that cause smells and clogging.

WORK & SERVICING

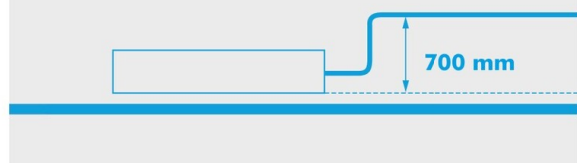
- **THIN, LIGHTWEIGHT INDOOR UNIT MAKES DELIVERY AND INSTALLATION EASY**

With a height of only 300 mm, installation is possible even in buildings with narrow ceiling spaces.



Indoor unit	Height (mm)	Width (mm)	Depth (mm)	Machine weight (kg)
71 D	300	1,000	700	36
100 D	300	1,400	700	46
125 D	300	1,400	700	46
140 D	300	1,400	700	46

Drain pump is equipped as standard accessory with 700mm lift.



- **REDUCED INSTALLATION TIME**

USE REMOTE CONTROLLER TO ADJUST AIRFLOW

When testing standard integrated ceiling units that employ duct work, much time is required to adjust airflow to the right level. Thanks to the ability provided by Daikin to automatically perform this troublesome adjustment using a remote controller, this step is now quick and easy.

(Adjust by H tap).

1. Adjust to approximately $\pm 10\%$ of the rated H tap airflow.
2. Once actual operation has begun, adjustment of the rated airflow is not possible.

- **EASY MAINTENANCE**

Maintenance is easy because the drain pan can be removed.



WALL MOUNTED TYPE

FAQ SERIES

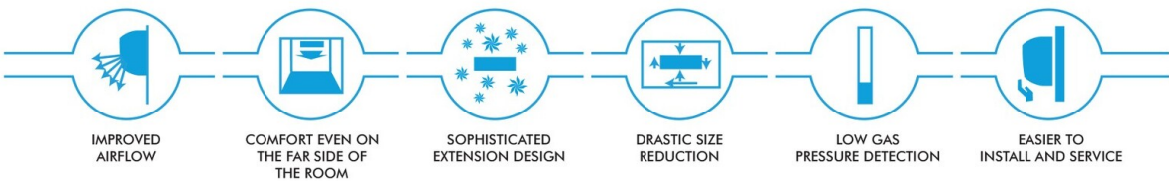
COOLING ONLY & HEAT PUMP

FAQ SERIES

COOLING ONLY & HEAT PUMP



TOP CLASS IN THE INDUSTRY FOR COMPACTNESS AND SILENCE.
WALL MOUNTED AIR-CONDITIONERS DEMAND THIS KIND OF PERFORMANCE. **R-410A**



FAQ100 (COOLING ONLY)	10KW	COOLING
FAQ100 (HEAT PUMP)	10KW	COOLING
	11.2 KW	HEATING

ACCESSORY REQUIRED FOR INDOOR UNIT

NAVIGATION REMOTE CONTROLLER (C/O)

Standard

BRC1E62
(Wired Remote Controller)
Note: Remote controller cable not included. Cables must be procured locally.

WIRED LCD REMOTE CONTROLLER (H/P)

Standard

BRC1C61
Note: Remote controller cable not include. Cables must be procured locally.

WIRELESS LCD REMOTE CONTROLLER

Option

A signal receiver must be added to the indoor unit.

BRC7EB519 (C/O)
BRC7EB518 (H/P)

Signal receiver unit
 (Installed type)

FEATURES

	FAQ	Cooling Only	Heat Pump
Comfort	Auto swing	•	•
	Draft prevention function	—	•
	Switchable fan speed	• (3 step)	• (3 step)
	Auto airflow rate	• *3	• *3
	Program 'Dry'	•	•
	Two selectable temperature-sensors (*1)	•	•
	Hot start (after defrost)	—	•
	Year-round cooling applicable	—	•
	Night quiet operation (*2)	•	•
Remote Controller	Setpoint auto reset (*3)	•	•
	Setpoint range set (*3)	•	•
	Weekly schedule timer (*4)	•	•
	Off timer (programmed) (*3)	•	•
	On/off timer (*3)	•	•
Cleanliness	Mould-proof air filter	•	•
Work & Servicing	Drain pump mechanism	• *5	• *5
	Pre-charged for up to 30 m (*2)	•	•
	Filter sign	•	•
	Low gas pressure detection (*2)	•	•
	Emergency operation	•	•
Control Features	Self-diagnosis function	•	•
	Auto-restart	•	•
	Auto-cooling/heating change-over	—	•
	Control by 2 remote controllers	•	•
	Group control by 1 remote controller	•	•
	External command control	•	•
	Central remote control	•	•
	Interlock control	•	•
Others	DIII-NET communication standard	•	•
	Anti corrosion treated heat exchangers (*2)	•	•

*1 Applicable when wired remote controller is used

*2 For the outdoor units

*3 Applicable when BRC1E62 is used

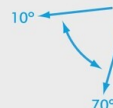
*4 Applicable when BRC1E62 is used

*5 Option

COMFORT

- **IMPROVED AIR BLOW MODES ENSURE COMFORTABLE AIR DISTRIBUTION ACROSS THE ENTIRE ROOM.**

Auto swing



Auto swing from 10° to 70°

5-level blow direction setting



Settable to five different levels between 10° to 70°

Auto blow direction control



Last blow direction is saved in memory and automatically set the next time the unit is turned ON.
(Factory setting is 10° for cooling and 70° for heating).

• SWITCHABLE FAN SPEED: HIGH/LOW PROGRAMME 'DRY'

Dehumidification is computer controlled to prevent abrupt and uncomfortable changes in air temperature.

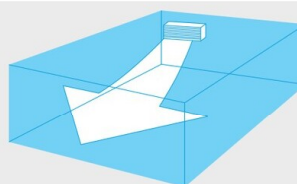
• TWO SELECTABLE THERMO-SENSORS

Both indoor unit and wired remote controller (option) contain thermo-sensors. Temperature detection can be set at the unit or, to further improve comfort level, closer to the target area at the wired remote control.

Note: Thermo-sensor on indoor unit must be when the air-conditioner is controlled from another room. (Wireless remote controller does not have a thermo-sensor).

• COMFORT EVEN ON THE FAR SIDE OF THE ROOM

To carry air to the far side of long rooms, extra-high air blow adds 10% more fan speed to the 'high' setting. Air blow strength is selected from the remote controller.



• LOW GAS PRESSURE DETECTION

Insufficient gas charging is normally hard to detect. During post-installation trials and regular inspection procedures, the refrigerant level is monitored by computer to ensure proper gas pressure.



A modern interior space featuring a large, textured brick fireplace with a white upper section and a blue lower section. A blue sofa is positioned in front of the fireplace, and a gold-colored mirror is mounted on the wall above it. The floor is covered with a dark blue rug. The text "NON INVERTER SERIES" is overlaid in white on the blue sofa area.

NON INVERTER SERIES



A photograph of a modern hospital corridor with large windows and a blue overlay. The corridor features a white ceiling with recessed lights and a long, narrow ventilation grille. The walls are white, and the floor is a light-colored tile. Large windows on the left side provide natural light and a view of the outdoors. A blue semi-transparent overlay covers the bottom half of the image, containing white text.

DUCT CONNECTION MIDDLE HIGH STATIC PRESSURE TYPE

FDMR
COOLING ONLY

FDMR

COOLING ONLY



FLEXIBLE USE OF SPACE IS MADE POSSIBLE USING DUCT TO MEET HIGH STATIC AND LARGE AIRFLOW FOR WIDER COVERAGE COMMERCIAL REQUIREMENTS



44	FDMR36ERV16	3.0 TR	COOLING ONLY
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Solutions 360°

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRED HANDSET

Standard

LCD TYPE
 (Applicable for FDMR/FDR/FD)

CAPACITY	TONNAGE (TR)	3.0
3.0 TR NON INVERTER DUCT R-410A		30
STATIC PRESSURE		30 Pa

WIRELESS HANDSET

Option

BRC4N151
 (Cooling Only)

FEATURES



NEW WIRED LCD REMOTE CONTROLLER

New LCD based wired type remote handset with alphabetic error display like HP, LP, SPPR, indoor fan current sensor etc. In-built energy saver dedicated button and glossy finish.



HIGH PERFORMANCE EVEN AT HIGH AMBIENT TEMPERATURE

Always keeping your comfort in mind, Daikin ducted air conditioners work at high ambient temperature (48°C) without tripping. Get the best out of Daikin ducted air conditioners even in hot weather conditions.



UNDER VOLTAGE AND OVER VOLTAGE PROTECTION

Given the erratic electricity supply it becomes important that your air conditioners are guarded against under voltage and over voltage. Daikin ducted air conditioners offer protection against voltage fluctuation thus enhancing the operating life of your air conditioners.



PHASE IMBALANCE VOLTAGE

It is vital that your air conditioner is protected against imbalance and Daikin duct air conditioners offer this protection to ensure reliable operation of the air conditioner.

Electrical equipment especially motors and their controllers will not operate reliably on unbalanced voltages. Greater imbalances may cause overheating of components and damage the air conditioners.



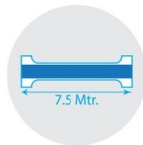
PHASE LOSS PROTECTION

In case of any phase loss Daikin machine will display error on its controller.



PHASE REVERSE PROTECTION

Phase reversal could cause serious problems therefore much care is required to protect the motor from such type of fault. Daikin duct air conditioners offer protection from phase reversal thus enhancing the life of the air conditioners.



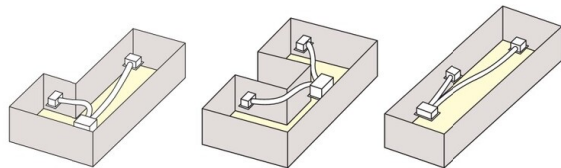
PRE-CHARGED REFRIGERANT

FDMR36ERV16 model is available with pre-charged refrigerant for 7.5 meter piping length. No need for additional refrigerant charge on-site if piping length is upto 7.5 meters.

COMFORT

SUPERIOR AIR DISTRIBUTION FOR COMFORTABLE LIVING

The conditioned air can be effectively distributed to every corner of the room through the ducting and this ensures a pleasant environment for comfortable living.

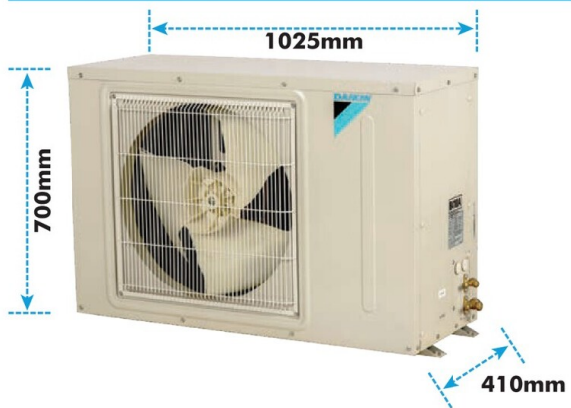


▶ L-SHAPED ROOM

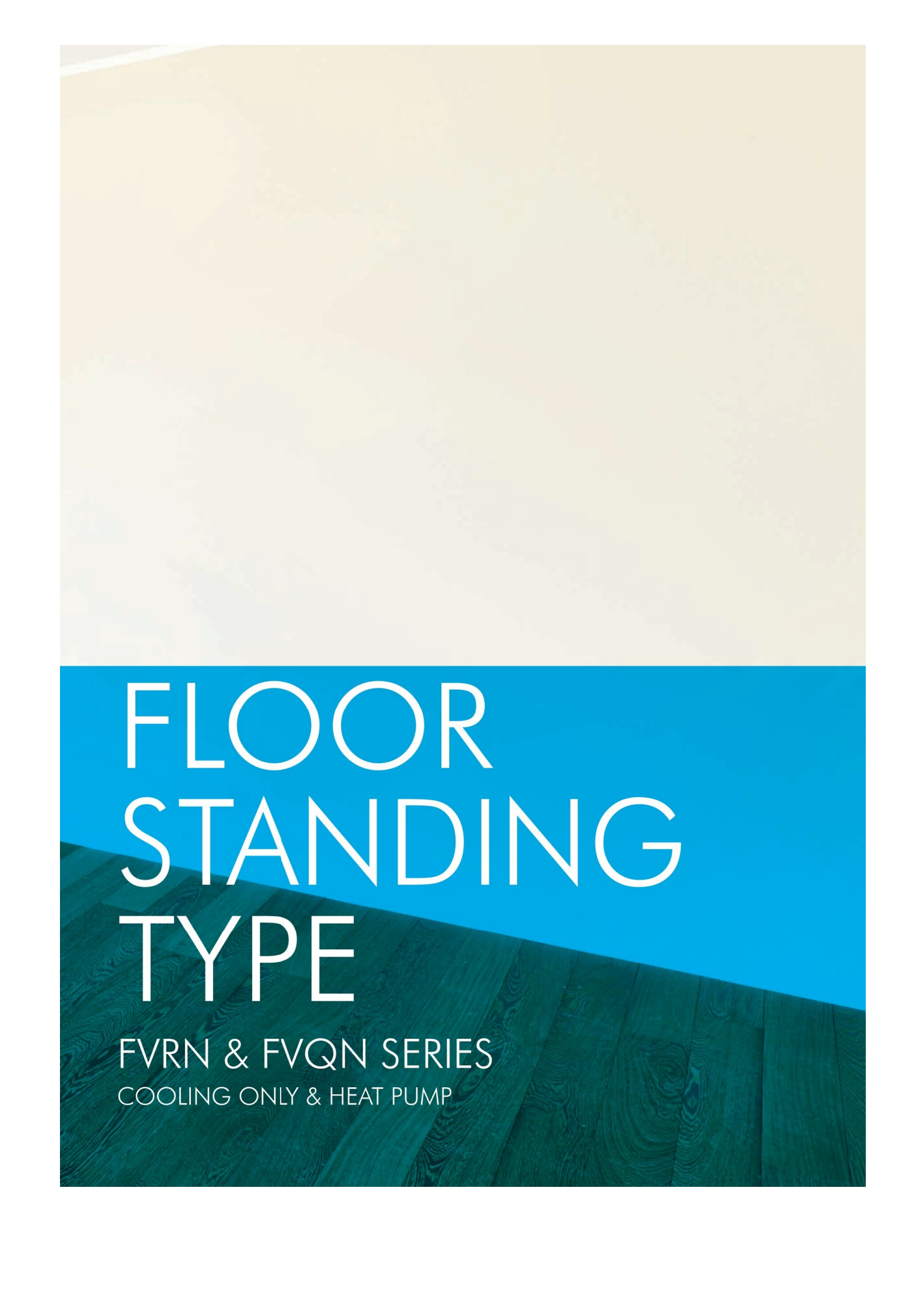
▶ U-SHAPED ROOM

▶ LONG ROOM

OUTDOOR UNIT COMPACT DESIGN







FLOOR STANDING TYPE

FVRN & FVQN SERIES
COOLING ONLY & HEAT PUMP

FVRN & FVQN SERIES

COOLING ONLY & HEAT PUMP



R-410A

48

Solutions 360°

AN IDEAL WAY OF SAVING SPACE WITH STYLE AND FUNCTIONALLY, WITH ITS EASE OF INSTALLATION. IT IS SUITED TO BE INSTALLED IN OFFICES, COMMERCIAL SHOPS, RESTAURANTS AND SHOWROOMS.



FVRN71 ~ 140 (COOLING ONLY)	8.3KW ~ 16.1 KW	COOLING
FVQN100 ~ 140 (HEAT PUMP)	11.7KW ~ 16.1 KW	COOLING
	11.7KW ~ 16.0 KW	HEATING

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRELESS HANDSETS

Standard

BRC52A62

(Cooling Only)

BRC52A61

(Heat Pump)

WIRED HANDSET

Option

BRC51A62

(Cooling Only)

BRC51A61

(Heat Pump)

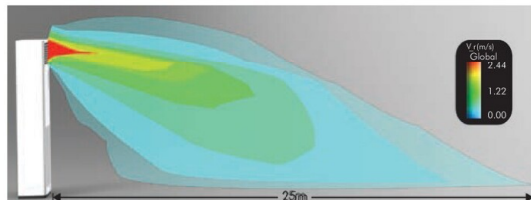
FEATURES			
	FVR/QN-AXV1	Cooling Only	Heat Pump
Comfort	Turbo Mode	•	•
	Quiet Mode	•	•
	Dry Mode	•	•
	Auto Mode	—	•
	Sleep Mode	•	•
Airflow	Selectable Fan Speed	•	•
	Manual Vertical Swing	•	•
	Automatic Horizontal Airflow	•	•
IAQ	Washable Saranet Filter	•	•
	Plasma (Optional)	•	•
Fin type	Anti Corrosion Hydrophilic Gold Fin	• *2	• *2
Controller	With Wireless Remote Controller	•	•
	With Wired Remote Controller	• *1	• *1
	Auto Random Restart	•	•
Power supply	Power from Outdoor	•	•
Option	Condensate Water Drain Pump	• *1	• *1
Other	Large Buttons on Control Panel	•	•
	Key lock For Prevention of Setting Change	•	•
	Error Code Display on the Seven-Segment of the Control Panel	•	•

*1 Option
 *2 Outdoor units only
 1 TR (Tons of Refrigeration) = 3.517 kW

COMFORT

FLOOR STANDING AIR FLOW

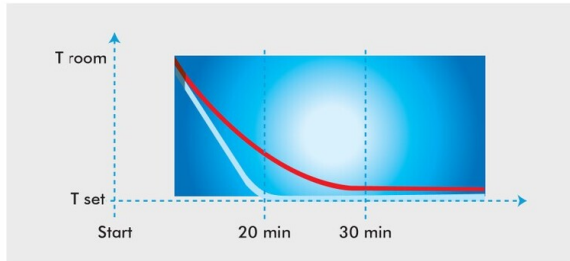
The floor standing is able to achieve air flow distance up to 25m*



*Note: Based on size 140

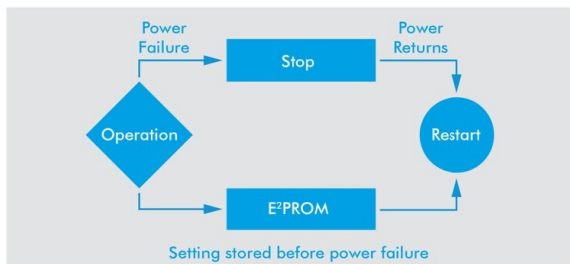
TURBO MODE

Once it is activated the air-conditioner will run on full power with the indoor fan running at maximum speed for 20 minutes. This enables the set temperature to be achieved faster.



AUTO RANDOM RESTART WITH LAST-STATE-MEMORY

In the event of a sudden power failure during operation, the floor standing restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and it will operate based on the previous settings (operating mode, temperature setting and fan speed). This ensures that air-conditioners in the same building resume randomly instead of all units resuming at the same time, preventing power surge after a blackout.



WORK & SERVICING

LOCATION OF CONDENSATE WATER DRAIN PUMP

* Condensate water drain pump is optional, separately purchased and field installed.



Piping

Floor Standing Type

SAFETY CACHE DURING REMOVAL OF FILTER FOR PREVENTION OF ACCESS TO ELECTRICAL AND MECHANICAL PARTS



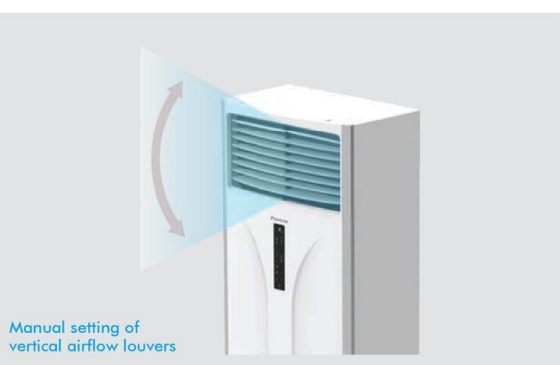
REMOVABLE WASHABLE SARANET FILTER



AIR FLOW

• AUTO SWING

Left and right auto swing to cool the corners of the room.



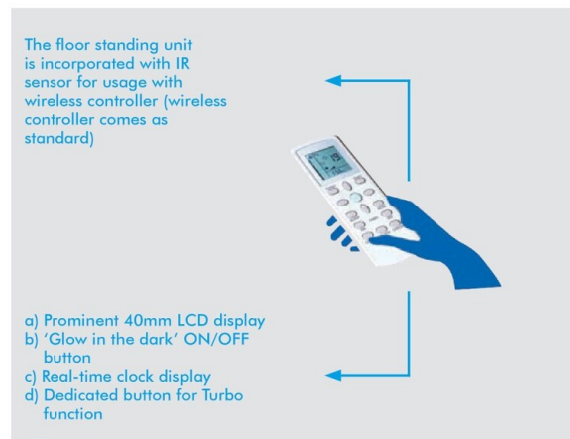
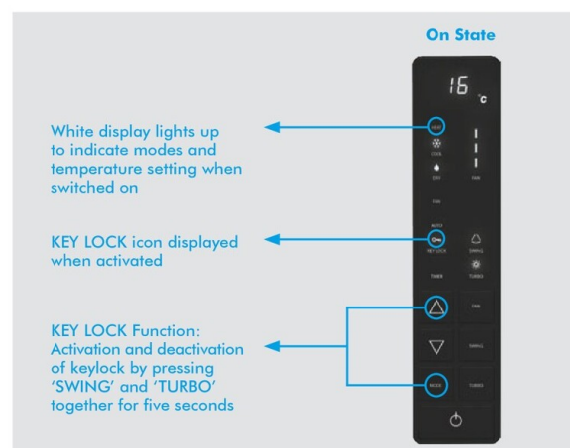
CONTROLLERS

The floor standing unit can be controlled by following methods:

- Settings by pressing the control panel on the unit.
- Settings by using the wireless controller (wireless controller comes as standard)
- Settings by wired remote controller (optional)

• FLOOR STANDING CONTROL PANEL

A stylish black control panel with white LED light for crisp clear display.



OTHERS

- **SPACE IN THE UNIT BELOW THE FAN ABLE TO ACCOMMODATE DRAIN PUMP, DEPENDING ON DRAIN PUMP SIZE (DRAIN PUMP IS OPTIONAL, SEPARATELY PURCHASED AND FIELD INSTALLED)**
- **LARGE BUTTONS ON CONTROL PANEL FOR EASE OF USE**
- **ERROR CODE DISPLAY ON THE SEVEN-SEGMENT OF THE CONTROL PANEL INDICATES BY BLINKING**
- **KEY LOCK FOR PREVENTION OF SETTING CHANGE BY UNAUTHORISED PERSONNEL**



CEILING CONCEALED SERIES

FDB/MF & FDMQN SERIES
COOLING ONLY & HEAT PUMP

FDB/MF & FDMQN SERIES

COOLING ONLY & HEAT PUMP



ENHANCE THE DÉCOR OF YOUR ROOM WITH THE NEW
UNOBTUSIVE CONCEALED SERIES



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Solutions 360°

FDBF12~FDMF48 (COOLING ONLY)	3.5 KW ~ 14.0 KW	COOLING	R-32
FDMQN25~140 (HEAT PUMP)	2.8 KW ~ 16.1 KW	COOLING	R-410A
	2.8 KW ~ 16.1 KW	HEATING	R-410A

ACCESSORY REQUIRED FOR INDOOR UNIT

WIRED HANDSETS

Standard

BRC51A61
(Heat Pump)



(Applicable for FDMQN only)



LCD type
(Applicable for FDB/MF)

WIRELESS HANDSETS

Standard

BRC52A61
(Heat Pump)



(Applicable for FDMQN only)

BRC4N151
(Cooling Only)



*Available with FDMQN models.

FEATURES

	FDMR(Q)N	Cooling Only	Heat Pump
Comfort	Auto Fan Speed	•	•
	Auto Mode	—	•
	Auto Defrosting	—	•
	Dry Function	•	•
	Sleep Mode	•	•
IAQ	Washable Saranet Filter	•	•
Fin type	Anti Corrosion Hydrophilic Gold Fin	• *2	• *2
Controller	Wireless Controller	*1	*1
	Wired Controller	•	•
	24 Hour On/Off Timer	•	•
	Delay Timer	•	•
	Self Diagnosis Display	•	•
Protection	Auto Random Restart	•	•
	Hydrophilic Gold Fin Outdoor Heat Exchanger	•	•
Power supply	Power from Outdoor	•	•

*1 Option

*2 Outdoor units only

1 TR (Tons of Refrigeration) = 3.517 kW

FEATURES FDMR(Q)N

EXCELLENT AIR DISTRIBUTION

The conditioned air can be distributed evenly to every corner of the room through ducting. This helps to create a pleasant environment and maintain comfort. Furthermore, multiple areas can be conditioned simultaneously by using just one indoor unit.

AUTO RANDOM RESTART WITH LAST-STATE-MEMORY

In the event of a sudden power failure during operation, unit restarts automatically in 64 different recovery timing patterns (within 180 seconds to 244 seconds) and the unit will operate based on the previous setting (operating mode, temperature setting and fan speed). This ensures that air-conditioners in the same building resume randomly instead of all units resuming at the same time, preventing power surge after a blackout.

DOUBLE PROTECTION DRAINAGE SYSTEM

The primary drain pan is designed with high thermal insulation material and moulded in gradient for better condensate water drainage. The extra secondary drain pan 'built-in' to the standard unit offers extra protection against possible water leaking problems.

FLEXIBILITY IN SYSTEM DESIGN

The unit offers fan motor that can operate up to 4 speeds, thus providing choices of external static pressure for designing ducting system.

SELF DIAGNOSIS FEATURES

The microprocessor provides the possibility to detect and to diagnose any faults that occurs in the system. Faults are displayed as error code in the wired controller. This will ease the troubleshooting process.

FEATURES FDB/MF

WIDE EXTERNAL STATIC RANGE

Wide static range makes these series suitable to wide applications. Low static machines finds their application at space constraint areas i.e. Hotels and apartments. This series offering includes mid static machines also which meet the static requirements of long ducts and multi zones.

Refrigerant	Model Size (TR)	1.0	1.5	2.0	2.5	2.8	3.5	4.0
R-32	Static (Pa)	20	20	20	20	30	40	50

LOW HEIGHT APPLICATION

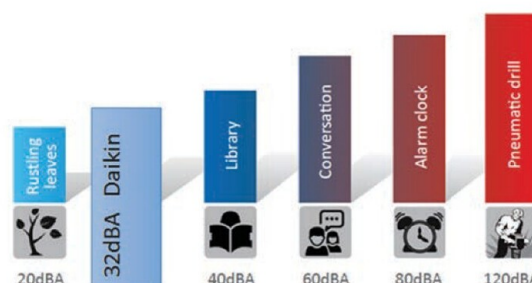
New residential and commercial spaces, HVAC requirement are tilting towards low height indoor machines. FDBF range of low static machines with unit's height as low as 250 mm are the perfect match for low ceiling height installations.

Model Size (TR)	1.0	1.5	2.0	2.5	2.8	3.5	4.0
Unit Height (mm)	250	250	250	295	295	295	295

QUIET OPERATION

Daikin ceiling concealed machines are designed to keep Enclosed area super quiet. Enclosed areas air-conditioned by FDBF machines are quieter than libraries.

Model Size (TR)	Speed	1.0	1.5	2.0	2.5	2.8	3.5	4.0
Sound Level dB(A)	H	36	39	43	43	42	42	49
	M	34	36	40	40	39	39	45
	L	32	34	38	38	36	36	43







OUTDOOR UNITS

OUTDOOR UNITS

NEW COMPACT OUTDOOR UNIT - INVERTER



RZR50LVVM6
RZR60LVVM6
RZR71LVVM6



RZR100LVVM6



RZR100LUY1
RZR125LVVM/LUY1
RZR140LVVM/LUY1



RZQ71KCV4A



RZQ100KCV4A
RZQ125KCV4A
RZQ140KCV4A



RZQ100HAY4A
RZQ125HAY4A
RZQ140HAY4A

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Solutions 360°

EASY INSTALLATION AND MAINTENANCE

PRE CHARGED FOR UP TO 30 METRES

If refrigerant piping length does not exceed 30 m, there is no need for on-site gas charging.

• LONG PIPING LENGTH

Allowed refrigerant piping length and level difference

	RZR50-140LV RZR71KC	RZQ100-140KC RZQ100-140HA
Pre charged ¹	30 m	
Max length	50 m (Equivalent length 70 m)	75 m (Equivalent length 90 m)
Max. level difference	30 m	

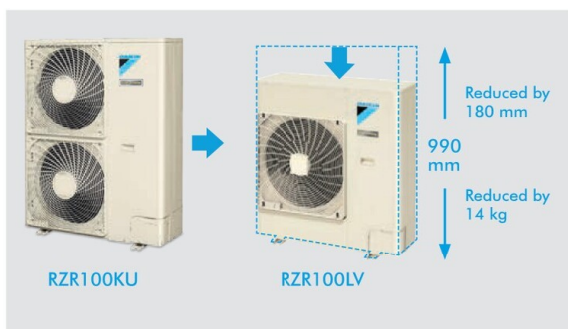
Note: ¹Additional refrigerant charging is required if the refrigerant pipe is longer than the length.

• COMPACT AND LIGHTWEIGHT

Reduced installation work thanks to light, compact outdoor unit.

Comparison of outdoor units

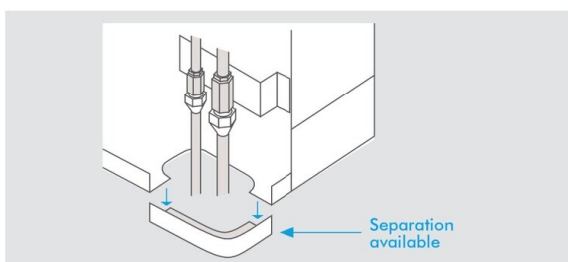
	Conventional (RZR100KU)	New (RZR100LV)
Height (mm)	1,170	990
Weight (kg)	92	78



4-DIRECTION PIPING OFFERS GREATER LAYOUT FREEDOM

(Not applicable for RZR50-71)

The outer panel for the piping connection part of the front, right side and back can be removed and is easier for post-installation piping work.



FACILITATES PUMP-DOWN

(Refrigerant recovery function)

A pump-down switch is provided to make it easier to collect refrigerant if the unit is to be moved or layout modified. Pump-down function is available for pre-charged refrigerant amount.

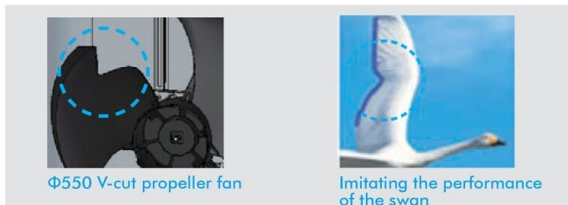
LOW GAS PRESSURE DETECTION FUNCTION

Effective gas monitoring reduces the labour required for operation, maintenance and repairs.

ENERGY SAVING

(RZR50-71 only)

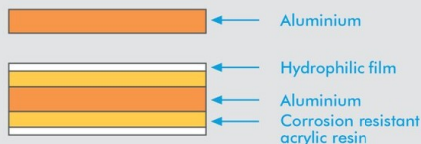
Through use of a V-cut propeller fan that imitates the efficiency of the swan, a migratory bird, airflow becomes smooth and loss is reduced.



DURABILITY

As the bottom frame is subject to corrosion, corrosion-proof galvarium steel plate is adopted to enhance durability. Heat exchange fins are provided with anti-corrosion treatment.

CONSTRUCTION NON-TREATED FIN PE FIN



DEMAND CONTROL FUNCTION

The maximum capacity is maintained within a set level of power consumption, which makes it possible to keep comfort and effective demand control.



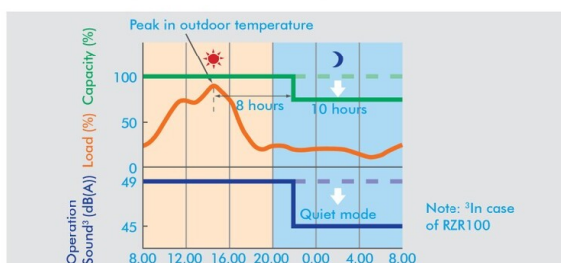
NIGHT TIME QUIET OPERATION FUNCTION

The Automatic Night Quiet Mode will initiate 8 hours after the peak temperature is reached in the daytime, and normal operation will resume 10 hours after that. (By remote controller at site)

*Reducing noise will reduce capacity slightly.

Cooling only	Heat pump	Sound level ¹ (dB(A))	
		Rated	Night quiet mode
RZR50/60LV	-	48	44
RZR71LV	RZQ71KC	48	44
RZR100LV	RZQ100KC/100HA	49	45
RZR125LV	RZQ125KC/125HA	50	45
RZR140LV	RZQ140KC/140HA	50	46

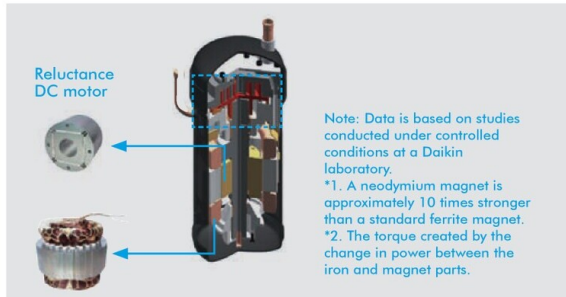
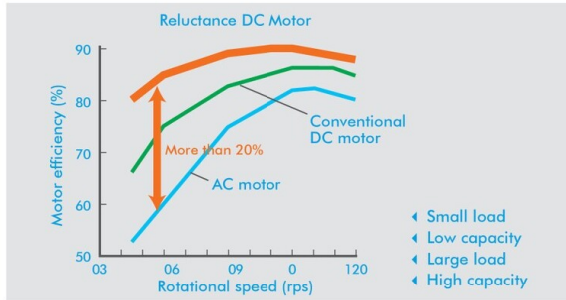
Note: 1 Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions. 2 Value when cooling. Value will differ when heating.



TECHNOLOGY FOR ENERGY EFFICIENCY

The high efficiency compressor to achieve a high COP.

- COMPRESSOR EQUIPPED WITH RELUCTANCE DC MOTOR**
 Daikin DC Inverter models are equipped with the Reluctance DC motor for compressor. The Reluctance DC motor uses two different types of torque, neodymium magnet*¹ and reluctance torque*². This motor can save energy because it generates more power with a smaller electric power than an AC or conventional DC motor.



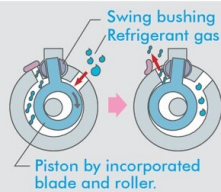
- SMOOTH SINE WAVE DC INVERTER**
 Use of an optimised sine wave smooths motor rotation, further improving operating efficiency.



RZR50/60/71/100LVVM RZQ50/60KB, RZQ71KC

>> Swing compressor

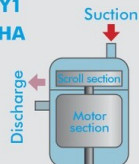
Energy savings are realised, eliminating the friction and the leakage of refrigerant gas.



RZR125/140LVVM, RZR100/125/140LUI1 RZQ100/125/140KC, RZQ100/125/140HA

>> The structural scroll

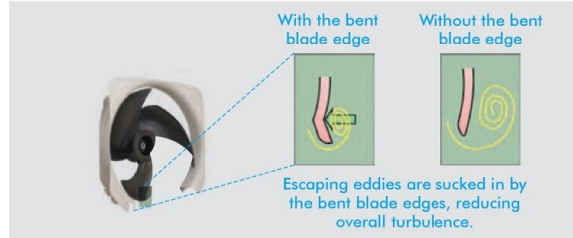
Sucked gas is compressed in the scrolling part before the heated motor, so that the machine compresses the non-expanded gas, resulting in high efficiency compression.



SMOOTH AIR INLET BELL MOUTH AND AERO SPIRAL FAN

(not applicable for RZR50-71)

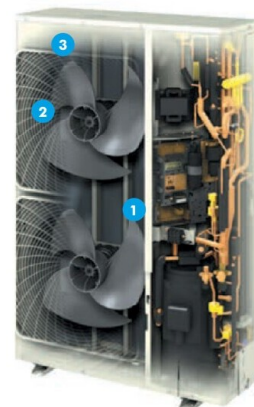
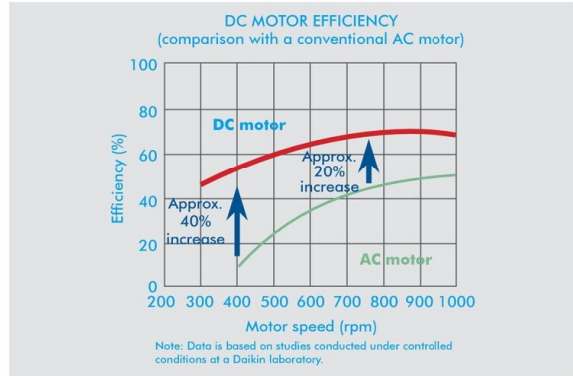
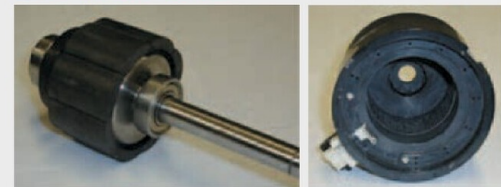
These two features work to reduce noise. Guides are added to the bell mouth intake to reduce turbulence in the airflow generated by fan suction. The Aero Spiral Fan features blades with bent edges, further reducing turbulence.



DC FAN MOTOR

Efficiency improved in all areas compared to conventional AC motors, especially at low speeds.

DC FAN MOTOR STRUCTURE



- **SUPER AERO GRILLE**

Refined ventilation mechanism enables further reduction in required fan power.

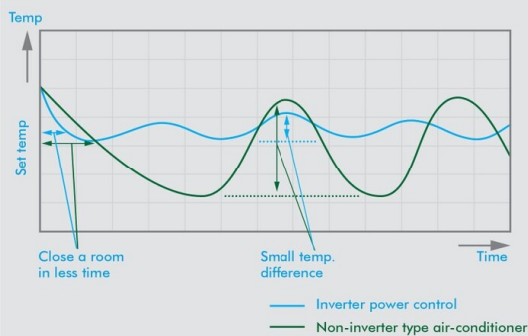
- **COMFORTABLE**

ENHANCED COMFORT WITH INVERTER

Inverter performs variable control of frequency, which determines air-conditioner's power performance. At startup, full power is used to achieve the set temperature quickly. Then, the capacity is adjusted according to the outdoor temperature changes and subtle indoor load changes to achieve fine capacity control resulting in a more stable room temperature.

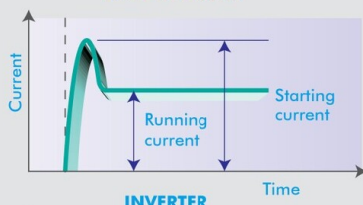
Non-inverter type air-conditioners must be switched on and off repeatedly, causing large fluctuations of the room temperature.

COOLING OPERATION

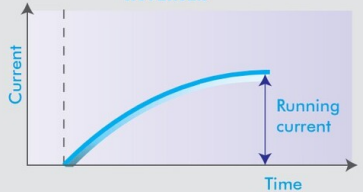


Soft starter is unnecessary, making electrical installation work much simpler.

NON-INVERTER



INVERTER



At startup, inverter raises frequency smoothly, eliminating the starting current spike.

- **WHAT IS COP**

(Coefficient of Performance)

COP is equal to capacity (kW) divided by power consumption (kW), and the larger the COP value, the higher the energy efficiency, enabling cooling and heating with less electricity and increasing the energy saving performance.



RZR100LVVM



	Sound level ¹ (dB(A))	
	Rated ²	Night quiet mode
RZR50/60LVVM6	48	44
RZR71LVVM6	48	44
RZR100LVVM/LUY1	49	45
RZR125LVVM/LUY1	50	45
RZR140LVVM/LUY1	50	46

Note: 1 Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
2 Value when cooling. Value will differ when heating.

OUTDOOR UNITS

NON INVERTER



R(Y)N25/35CG



R(Y)N50/60CG



RR(Q)71C



RR36ERY16



RR(Q)90/100/125/140D

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Solutions 360°

COMPACT & QUIET

- EQUIPPED WITH SCROLL COMPRESSOR FOR QUIETER OPERATION**

Smooth running, minimal vibration, low operating noise.
(Applicable for RR(Q)90/100/125/140D)

dB(A)

Cooling Only/Heat Pump Outdoor unit	Sound Level
R(Y)N25CG	46
R(Y)N35CG	49
R(Y)N50CG	52
R(Y)N60CG	52
RR(Q)71CG	58
RR(Q)90DG	58
RR(Q)100DG	58
RR(Q)125DG	60
RR(Q)140DG	65



DURABILITY

- INSTALLATION AND MAINTENANCE**

(Smoother and easier)

- PRE-CHARGED FOR UP TO 7.5 METRES**

If refrigerant piping length does not exceed 7.5 m, there is no need for on-site gas charging.

Allowed refrigerant pipe length and height difference

	Pre-charged *1	Max. length	Max. Elevation
R(Y)N25CG	7.5 m	15 (12) m	10 (5) m
R(Y)N35CG	7.5 m	15 (12) m	10 (5) m
R(Y)N50CG	7.5 m	15 (12) m	8 (8) m
R(Y)N60CG	7.5 m	15 (12) m	8 (8) m
RR(Q)71CG	7.5 m	15 (15) m	8 (8) m
RR(Q)90DG	7.5 m	45 (45) m	25 (25) m
RR(Q)100DG	7.5 m	45 (45) m	25 (25) m
RR(Q)125DG	7.5 m	45 (45) m	25 (25) m
RR(Q)140DG	7.5 m	35 (35) m	15 (15) m

Note: *1 Additional refrigerant charging is required if the refrigerant pipe is longer than the indicated length. For more information, see the engineering data.

CONTROLLERS

EASY-TO-READ LCD REMOTE CONTROLLER ALLOWS VARIOUS SYSTEM CONTROL CONFIGURATIONS AND CAN CONTROL MULTIPLE INDOOR UNITS. (REMOTE CONTROLLER OPTIONS ARE SHOWN ON THE PAGE INTRODUCING EACH INDOOR UNIT MODEL).

NAVIGATION REMOTE CONTROLLER

Wired Remote Controller BRC1E62

CLEAR DISPLAY, SIMPLE OPERATION, 'NAVIGATION REMOTE CONTROLLER'

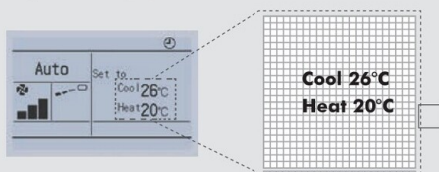
This simple, modern design remote controller with fresh white colour matches your interior design. Operation is much easier and smoother. Just follow the indications on the navigation remote controller.



AUTO OPERATION MODE

2 SET POINTS

Display set temperatures at both cooling and heating operations.



BACKLIGHT DISPLAY

Equipped backlight helps operating in dark rooms.



WEEKLY SCHEDULE TIMER

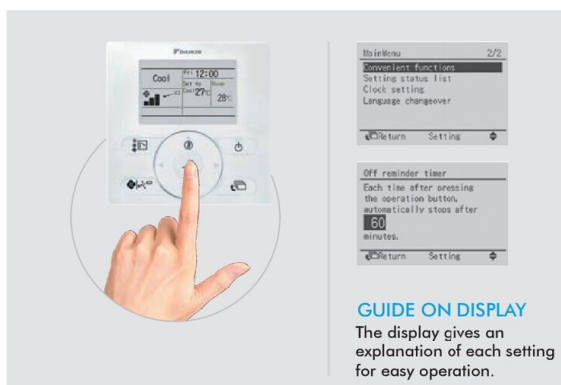
The schedule timer for each day of the week can be set up easily (3 patterns).

Schedule timer		
	Time	Operation
Monday	00:00	22°C
	12:00	OFF
	14:00	20°C-26°C
	18:00	OFF
	21:00	20°C

SIMPLE OPERATION

Large buttons and arrow keys

Large buttons and arrows keys for easy operation. Basic settings such as fan speed and temperature can be intuitively operated. For other settings just select the function from the menu list.



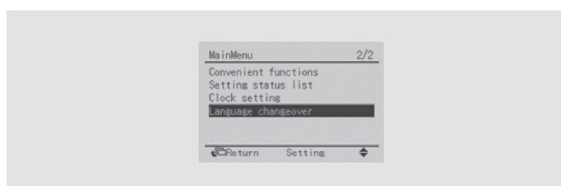
GUIDE ON DISPLAY

The display gives an explanation of each setting for easy operation.

OTHER FEATURES

Multilingual display

Display is available in 11 languages (English, German, French, Spanish, Italian, Portuguese, Greek, Dutch, Russian, Turkish and Polish).



For feature list refer feature table of individual series. Not all features are available with all models.

WIRED LCD REMOTE CONTROLLER

- **EASIER TO READ BECAUSE LCD SCREEN IS LARGER**
 - For easier operation, louvre switches, which are frequently used, have been made larger.
 - Oil-resistant plastic casing increases durability.
 - Only 17mm thick. Can be installed either recessed or exposed.

BRC1C61



WIRED LCD REMOTE CONTROLLER WITH WEEKLY SCHEDULE TIMER

- **REMOTE CONTROL IS EQUIPPED WITH WEEKLY TIMER FUNCTION**
 - 24-hour clock function.
 - Programming function for each day of week.
 - Scheduling possible of start/stop and temperature limit (5 settings/day).

BRC1D61



WIRED CONTROLLER

- Well-designed keypad for user comfort
- Interaction with wireless controller
- Comprehensive error code display
- Key lock and fan lock features
- 7-days programmable timer (2 sets)
- Real-time clock and day display
- Batteries backup and retain setting during power failure
- Last state memory (Memory backup setting from main board)
- Built-in room sensor
- Not applicable to control LED light for cassette panel
- Real-time clock and day display

WIRED REMOTE CONTROLLER



• NON INVERTER

	Wired remote controller	C/O	H/P
1	Floor Standing Type (FVRN/FVQN)	BRC51A62	BRC51A61
2	Duct Connection Middle Static Pressure Type (FDMQN)	—	BRC51A61

• INVERTER

	Wired remote controller	C/O	H/P
1	Wall Mounted Type (FAQ)	BRC1E62	BRC1C61
2	Ceiling Suspended Type (FHQ)	BRC1E62	BRC1E62
3	Floor Standing Type (FVQ)	BRC1E62	BRC1E62
4	Ceiling Mounted Slim Duct Type (FDXS)	—	BRC944B2 (Standard)
5	Duct Connection Middle High Static Pressure Type (FBQ)	BRC1E62	BRC1E62

• WIRED REMOTE CONTROLLER HAS BUILT-IN THERMO-SENSOR

(Applicable For BRC1C61/BRC51A61/62)

Enables temperature detection closer to target area for improved comfort. (When using remote control from another room, thermo-sensor in indoor unit's air inlet must be selected.)

Note: The indoor unit's thermo-sensor is specified at the time of shipment. Thermo sensing with the wired remote controller is not available with the ceiling mounted cassette corner, ceiling-mounted built-in, and duct connection type.

• FACILITATES MAINTENANCE AND REPAIR

(Applicable For BRC1C61)

- All initial settings can be set from the remote controller. After interior construction is complete, ceiling mounted units can be remotely set without having to use stepladder access for manual setting.
- Setting contents: High ceiling use, air direction, filter type, address for centralised control (group control address is set automatically).
- Remote controller is equipped with model name and failure display functions. This facilitates service in the unlikely event of a malfunction.

• NON-POLAR, DOUBLE-CORE CONNECTION SPECIFICATIONS SIMPLIFY WIRING

(Applicable For BRC1C61)

Non-polar, double-core remote controller wire prevents wiring mistakes. Signal receiver unit (or decoration panel) of wireless type is also easy to connect.

• **SKYAIR SHARES COMMON CONTROL WITH HEAT RECLAIM VENTILATOR AND THE OTHER DAIKIN AIR-CONDITIONING UNITS, THUS SIMPLIFYING INTERLOCKING OPERATIONS**

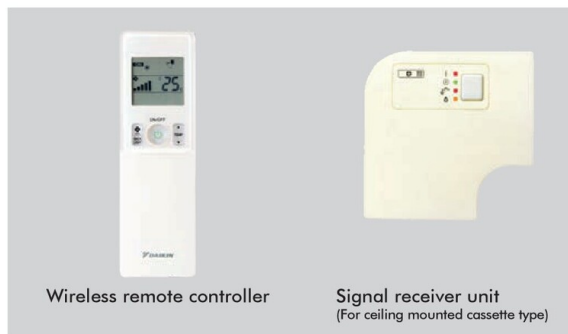
(Applicable For BRC1C61)

- Easily adaptable to large-scale, high-function, centralised remote control systems.
Installing and connecting control wiring between SkyAir and other Daikin air-conditioning equipment is easy.
- Optional adaptor for external commands or remote control of external equipment has been standardised to one type.

WIRELESS LCD REMOTE CONTROLLER

• **SIGNAL RECEIVER MOUNTED TYPE**

- The wireless remote controller is supplied in a set with a signal receiver.
- 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 the ceiling mounted cassette type.

WIRELESS CONTROLLER (BRC52A62)

- ON/OFF button with night glow
- Fan speed selection: low, med, high, auto
- Temperature setting: up and down
- Selectable mode: automatic, cooling, dry, fan-only operation
- Automatic air swing button
- Sleep mode function
- ON/OFF timer setting
- Quiet function
- Turbo function



• **NON INVERTER**

	Wireless remote controller	C/O	H/P
1	Floor Standing Type (FVRN/FVQN)	BRC52A62 (Standard)	BRC52A61 (Standard)
2	Duct Connection Middle Static Pressure Type (FDMQN)	—	BRC52A61 (Standard)

• **INVERTER**

	Wireless remote controller	C/O	H/P
1	Wall Mounted Type (FAQ)	BRC7EB519	BRC7EB518
2	Ceiling Suspended Type (FHQ)	BRC7EA66	BRC7EA63W9
3	Floor Standing Type (FVQ)	—	—
4	Ceiling Mounted Slim Duct Type (FDXS)	—	ARC432B69
5	Duct Connection Middle High Static Pressure Type (FBQ)	BRC4M150W16 (Remote) BRC4M61-6 (Sensor)	BRC4M150W16 (Remote) BRC4M61-6 (Sensor)

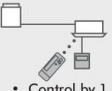
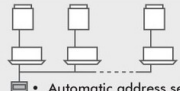
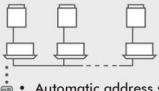
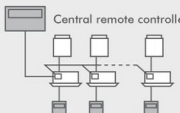
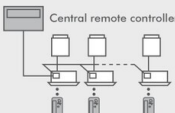
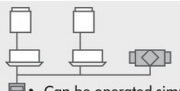
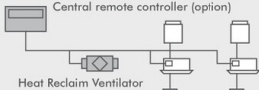
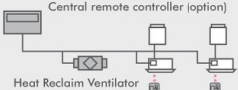
• **LCD PANEL SHOWS OPERATING STATUS IN LETTERS, NUMBERS AND MOTION**

(Applicable for BRC1C61)

Air flow/Swing display	Displays auto-swing operating status and setting position of air discharge angle (Not available for ceiling mounted built-in type and duct connection type).
Preset temperature/ Operation mode display	Displays preset room temperature and operating status (fan, dry, cool).
Programming time display	Operation start and stop time can be set for individual timers up to 72 hours. The liquid crystal display also shows when it is time to clean the filter, when changeover is under centralised control, and ventilation/cleaning.
Self-diagnosis function	Monitors operating status within the system covering 40 items, and displays a message to indicate as soon as a malfunction occurs.

• **SIMPLE SYSTEM PROVIDES A DIVERSE ASSORTMENT OF CONTROL MODES.**

(Refer data book for the list of applicable controllers)

	Control pattern	Wired remote controller	Wireless remote controller
Control by 1 remote controller	(Basic system)	 Non-polar, double-core. (max. wiring length 500 m)	 Signal receiver unit installed on indoor unit.
Control by 2 remote controllers	For control from 2 locations such as in room and control room, exits, etc.	 Connects 2 wired remote controllers.	 - Control by 1 wireless remote controller and 1 wired remote controller. (See note 1) - Signal receiver unit installed on indoor unit.
Group control	For simultaneous control of up to 16 indoor units.	 Automatic address setting function.	 - Automatic address setting function. - Signal receiver unit installed on 1 indoor unit.
Control by external command	Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.	 (Command from outside) Automatic address setting function.	 (Command from outside) - Automatic address setting function. - Signal receiver unit installed on 1 indoor unit.
Central remote control	Centralised control of up to 64 indoor units from remote location up to 1 kilometer away.	 Central remote controller (option) Optional SkyAir series interface adaptor required.*1	 Central remote controller (option) Optional SkyAir series interface adaptor required.*1
Interlock control with Heat Reclaim Ventilator	Link by remote controller group control.	 Can be operated simultaneously or independently by remote controller.(set by ventilation mode).	 Can be operated simultaneously or independently by remote controller.(set by ventilation mode).
	Zone link control by centralised control.	 Central remote controller (option) Heat Reclaim Ventilator - Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking. Can also be operated independently by remote controller. - Optional interface adaptor for SkyAir series is necessary.*1	 Central remote controller (option) Heat Reclaim Ventilator - Heat Reclaim Ventilator for indoor units within a zone are operated by interlocking. Can also be operated independently by remote controller. - Optional interface adaptor for SkyAir series is necessary.*1

Note: When a wireless remote controller is used, remote control by two remote controllers is not possible.

*1. DIII-net adaptor function is standard equipment for the FAY71L.

Set back time clock
BRC15A61 (Option)



When connected to a BRC-type wired remote controller, the user can apply two sets of ON-OFF times at increments of up to 30 minutes per day. For each ON—OFF setting a temperature setting is also possible.

EASILY ADAPTABLE TO LARGE-SCALE, HIGH-FUNCTION, CENTRALISED REMOTE CONTROL SYSTEM

Central remote controller DCS302B61 (Option)	Unified on/off controller DCS301B61 (Option)	Schedule timer DST301B61 (Option)	Intelligent Controller DCS601C51 (Option)
 Centralised control, with setting as simple as it is with a standard remote controller, of up to 64 groups (1,024 indoor units) is possible. Interface adaptor for SkyAir series DTA102A52 (Option)	 Centralised control of on/off by group or all at once for up to 256 indoor units. Enables centralised control via connection to a high-speed, DIII-NET communication system, adopted for the Daikin VRV system. Necessary for interface adaptor for SkyAir series with the central remote control units shown at above.	 Unified control of weekly schedule for up to 1,024 indoor units. Schedule timer sets on/off time in 1 minute units to be executed twice a day for a week at a time. Central control adaptor kit*2DTA107A55 (Option) (for FD series) *2.The central control adaptor kit for FDB series can be made to order.	 With its high functionality, the full colour 'all-in-one' graphic controller facilitates management of Sky Air System in a variety of ways.

FUNCTION LINE UP

ABUNDANCE OF FUNCTIONS THAT PROVIDE COMFORTABLE AIR-CONDITIONING IN STORES AND OFFICES.

• COMFORT

SWITCHABLE FAN SPEED

High setting provides maximum reach while low setting minimises drafts.

PROGRAMME 'DRY'

Dehumidification is computer controlled to prevent abrupt and uncomfortable changes in air temperature. Useful for reducing discomforting humidity without uncomfortable cooling of the room.

HIGH FAN SPEED MODE

You can increase fan speed approximately 10% higher than the 'high' setting.

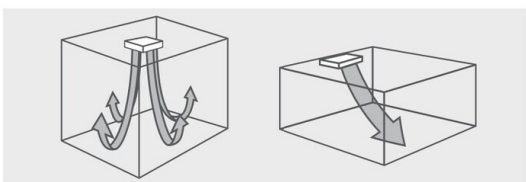
- Applicable for wall mounted type.

MOULD-RESISTANT TREATMENT FOR FILTER

Sanitary filter has mould-resistant treatment.

HIGH-CEILING APPLICATION

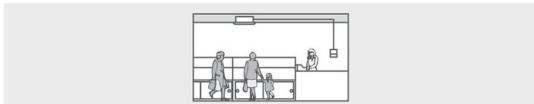
Delivers air-conditioning comfort all the way down to the floor in air-conditioning zones with high ceilings.



Note: When units are installed on high ceilings, depending on the model, various restrictions concerning maximum height, air discharge direction, and choice of options may apply.

DOUBLE PROTECTION DRAINAGE SYSTEM

Thermo-sensors are included in the indoor unit and optional wired remote controller. Temperature detection closer to target area is possible to further increase the comfort level.



- Use the thermo-sensor in the indoor unit when controlling air-conditioning from another room.

Note: Wireless remote controllers have no thermo-sensor.

HOT START (AFTER DEFROST)

Uncomfortable cold air draft is not discharged when heating operation starts or when switching to heat after defrosting.

YEAR-ROUND COOLING APPLICABLE

Efficient cooling even in winter when indoor temperatures are higher than those outside, such as in underground public spaces or office with many computers.

- Heat Pump/R71-140LU: possible up to -5°C
- Cooling Only/R71-140LU: possible up to -15°C (An option is required.)

TIMER SELECTOR

Operation starts when the preset time of the ON timer elapses and stops when the preset time of the OFF timer elapses.

MILDEW PREVENTION

MILDEW-PROOFING DRAIN PAN

Mildew proofing maintains hygiene by preventing growth in highly humid conditions.

OTHERS

TWIN / TRIPLE / DOUBLE TWIN MULTI OPERATION

Simultaneously operates 2-4 indoor units with a single outdoor unit.

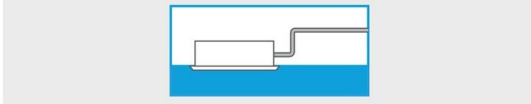
PE FIN

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, coated PE fins (with special acryl pre-treatment) are used for the heat exchanger of the outdoor unit.

• WORK & SERVICING

DRAIN WATER LIFT-UP MECHANISM

Steeper gradient ensures more efficient wastewater drainage. High-lift is especially useful for long lengths of drain piping.



LONG-LIFE FILTER

Maintenance is not required for one year (two years when a ceiling mounted cassette type is used).

CEILING SOILING PREVENTION FUNCTION

Daikin's innovative air discharge mechanism keeps air flow away from the ceiling. Ceiling cleaning is less frequently required.

• CONTROL FEATURES

AUTO-RESTART

If there is a power outage while the equipment is operating, operations will restart in the same mode as before the power cut when electricity is restored.

AUTO COOL/HEAT CHANGE-OVER

(Heat Pump only)
Detects difference in preset temperature and actual room temperature and automatically switches to cooling or heating accordingly.

CONTROL BY TWO REMOTE CONTROLLERS

Using two remote controllers you can operate the equipment locally or from a remote location.

Note: When a wireless remote controller is used, remote control by two remote controllers is not possible.

INTERLOCK CONTROL

Enables interlocking control with external equipment such as Heat Reclaim Ventilator.

• OPTIONS

HIGH-EFFICIENCY FILTER UNIT

Two types are available: 65% and 90% colorimetry. Superior filtering ratio easily meets building maintenance laws.

ULTRA LONG-LIFE FILTER

Requires no maintenance for about 4 years* (10,000 h) in stores and offices.

*For dust concentration of 0.15mg/m³

LOW GAS PRESSURE DETECTION

Insufficient gas charging is normally hard to detect. During post-installation trials and regular inspection procedures, the refrigerant level is monitored by computer to ensure proper gas pressure. Reliability is assured and maintenance and inspection can be carried out more quickly.

EMERGENCY OPERATION

If there is a malfunction elsewhere in the system, the fan or compressor can still be operated.

SELF DIAGNOSIS FUNCTION

The operating parameters of indoor and outdoor units, and sensor data at critical locations throughout the system are constantly monitored using a microcomputer. To facilitate quick response in the event of a malfunction, a message appears on the LCD of the remote controller and an LED on the unit illuminates.

FILTER SIGN

The filter sign warns you when it is time to clean the filter.

*When using a wired remote controller the sign is displayed in the LCD. When using a wireless remote controller the filter sign lamp illuminates on the signal receiver unit.

CONTROL BY 1 REMOTE CONTROLLER

You can turn up to 16 indoor units on/off with a single remote controller. (When using connected indoor units, the settings must all be the same and on/off will be simultaneous.)

EXTERNAL COMMAND CONTROL

Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.

CENTRAL REMOTE CONTROL

Optional central remote controller enables centralised control of up to 1024 indoor units (64 groups) from up to 1 kilometer away.

FRESH-AIR INTAKE KIT

You can provide air-conditioning with fresh air from outside. Convenient for places where a ventilation fan cannot be installed.

SPECIFICATIONS

CEILING SUSPENDED TYPE (Cooling Only)



Model Name	Indoor unit		FHQ125BVV1B	FHQ100BVV1B	FHQ125BVV1B
	Outdoor unit		RZR125LVVM6	RZR100LUY1	RZR125LUY1
Power supply			1 Phase, 220-240 V, 50 Hz	3 Phase, 380-415 V, 50 Hz	3 Phase, 380-415 V, 50 Hz
Cooling capacity -Rated (min ~max)		kW	12.5(5.7-14.0)	10.0 (5.0-11.2)	12.5(5.7-14.0)
Power consumption	Cooling-Rated	kW	4.550	3.510	4.550
Annual Power Consumption		kWh	NA	NA	NA
ISEER / Stars		Wh/Wh	NA	NA	NA
Indoor unit	Colour		White	White	White
	Airflow rate (H/L)	m ³ /min	30/25	24/20	30/25
		cfm	1059/883	847/706	1059/883
	Sound level (H/L)	dB(A)	44/39	42/37	44/39
	Dimensions (HxWxD)	Unit	mm	mm	mm
		Panel	195x1590x680	195x1400x680	195x1590x680
	Machine weight	Unit	kg	kg	kg
		Panel	35	32	35
		Panel	NA	NA	NA
	Certified operation range	°CWB	14 to 25	14 to 25	14 to 25
Outdoor unit	Colour		Ivory White	Ivory White	Ivory White
	Compressor	Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
		Motor output	kW	2.6	2.1
	Refrigerant charge (R-410A)	kg	3.7(Charged For 30m)	2.7(Charged For 30m)	3.7(Charged For 30m)
	Sound level	Cooling	dB(A)	49	50
	Dimensions (HxWxD)	mm	1170x900x320	1170x900x320	1170x900x320
	Machine weight	kg	97	92	97
	Certified operation range	°CDB	21 to 46	21 to 46	21 to 46
Piping connections	Liquid (Flare)	mm	Ø9.5	Ø9.5	Ø9.5
	Gas (Flare)	mm	Ø15.9	Ø15.9	Ø15.9
	Drain	mm	VP20(I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)
Max. interunit piping length		m	50 (Equivalent length 70)	50 (Equivalent length 70)	50 (Equivalent length 70)
Max. installation level difference		m	30	30	30

Note :
 1 Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
 2 Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

CEILING SUSPENDED TYPE (Heat Pump)



Model Name	Indoor unit		FHQ125BVV1B	FHQ100BVV1B	FHQ125BVV1B
	Outdoor unit		RZQ125KCY4A	RZQ100HAY4A	RZQ125HAY4A
Power supply			1 Phase, 240 V, 50 Hz	3 Phase, 415 V, 50 Hz	3 Phase, 415 V, 50 Hz
Cooling capacity -Rated (min ~max)		kW	11.2 (5.7-14.0)	9.2 (5.0-11.2)	11.2 (5.7-14.0)
Heating capacity -Rated (min ~max)		kW	13.5 (6.0-16.2)	10.5 (5.1-12.8)	13.5 (6.0-16.2)
Power consumption	Cooling-Rated	kW	3.700	2.850	3.550
Power consumption	Heating-Rated	kW	4.350	3.260	4.350
Annual Power Consumption		kWh	NA	NA	NA
ISEER / Stars		Wh/Wh	NA	NA	NA
Indoor unit	Colour		White	White	White
	Airflow rate (H/L)	m ³ /min	30/25	24/20	30/25
		cfm	1059/883	847/706	1059/883
	Sound level (H/L)	dB(A)	44/39	42/37	44/39
	Dimensions (HxWxD)	Unit	mm	mm	mm
		Panel	195x1590x680	195x1400x680	195x1590x680
	Machine weight	Unit	kg	kg	kg
		Panel	35	32	35
		Panel	NA	NA	NA
	Certified operation range	°CWB	15 to 27	15 to 27	15 to 27
Outdoor unit	Colour		Ivory White	Ivory White	Ivory White
	Compressor	Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type
		Motor output	kW	2.4	2.3
	Refrigerant charge (R-410A)	kg	3.7(Charged For 30m)	4.3(Charged For 30m)	4.3(Charged For 30m)
	Sound level	Cooling/ Heating	dB(A)	49/51	50/52
	Dimensions (HxWxD)	mm	1170x900x320	1345x900x320	1345x900x320
	Machine weight	kg	98	108	108
	Certified operation range	Cooling	°CDB	-5 to 46	-5 to 46
	Certified operation range	Heating	°CWB	-15 to 15.5	-15 to 15.5
Piping connections	Liquid (Flare)	mm	Ø9.5	Ø9.5	Ø9.5
	Gas (Flare)	mm	Ø15.9	Ø15.9	Ø15.9
	Drain	mm	VP20(I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)
Max. interunit piping length		m	75 (Equivalent length 90m)	75 (Equivalent length 90m)	75 (Equivalent length 90m)
Max. installation level difference		m	30	30	30

Note :
 1 Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
 2 Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, outdoor temp., 7°CDB, 6°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
 3 Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

CEILING MOUNTED SLIM DUCT TYPE (Heat Pump)



Model Name			Indoor unit	Outdoor unit	25 FDXS25CVMA RXS25EBVMA	35 FDXS35CVMA RXS35EBVMA	50 FDXS50CVMA RXS50FVMA	60 FDXS60CVMA RXS60FVMA
Power supply					1 Phase, 220-240 V, 50 Hz			
Cooling capacity ¹ Rated (Min. - Max.)					kW 2.4 (1.2-3.0)	3.4 (1.2-3.8)	5 (1.7-5.3)	6 (1.7-6.5)
Heating capacity ² Rated (Min. - Max.)					kW 3.2 (1.2-4.5)	4 (1.2-5.0)	5.8 (1.7-6.0)	7 (1.7-8.0)
Power consumption			Cooling ¹	kW	0.69 (0.3-0.92)	1.09 (0.3-1.27)	1.65 (0.44-1.93)	2.13 (0.44-2.49)
			Heating ²	kW	0.91 (0.29-1.49)	1.18 (0.29-1.79)	1.92 (0.4-2.04)	2.32 (0.4-3.18)
Indoor unit	Airflow rate (H/L)			l/s	158/133	167/142	200/167	266/225
				m ³ /min	9.5/8	10/8.5	12-10	16/13.5
	Fan	External static pressure		Pa(mm-H ₂ O)	40			
	Sound level (H/L) ³				35/31		37/33	38/34
	Dimensions (H×W×D)				200X900X620			200X1,100X620
	Machine weight				25		27	30
Certified Cooling				14 to 28				
Operation range Heating				10 to 30				
Outdoor unit	Colour				Ivory white			
	Compressor	Type		Hermetically sealed swing type				
		Motor output		kW	0.6		1.1	
	Refrigerant charge (R-410A)				1.0 (Charged for 10 m)		1.5 (Charged for 10 m)	
	Sound level				46/47	47/48	49/49	
		Sound power	Cooling/ Heating ³		61/62	62/63	61/62	63/63
	Dimensions (H×W×D)				550X765X285		735X825X300	735X825X300
	Machine weight				34		48	
	Certified				10 to 46			
Operation range				-10 to 20		-15 to 18		
Liquid (Flare)				mm		Ø6.4		
Piping connections		Gas (Flare)		mm	Ø9.5		Ø12.7	
		Drain	Indoor unit	mm	VP20 (I.D.Ø20XO.DØ26)			
Outdoor unit	mm		Ø18.0 (Hole)					
Max. interunit piping length				m	20		30	
Max. installation level difference				m	15		20	
Heat insulation					Both liquid and gas piping			

Note: 1 Rated cooling capacities are based on the following conditions: Suction temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping: 7.5 m (horizontal).
2 Rated heating capacities are based on the following conditions: Suction temp., 20°CDB; outdoor temp. 7°CDB, 6°CWB. Equiv. refrigeration piping: 5 m (horizontal).
3 Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
4 Numerical values are according to ISO 3741:1999

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Solutions 360°

DUCT CONNECTION MIDDLE AND HIGH STATIC PRESSURE TYPE (Cooling Only)



Model		Indoor Unit		FDMR36ERV16
		Outdoor Unit		RR36ERY16
Nominal Capacity			BTU/hr	36000
			kW	10.54
Nominal Total Input Power			W	3750
Power Source			V/Ph/Hz	415/3/50
Refrigerant Type				R-410A
Indoor Unit	Control	Operation		Wired Control
	Airflow	High	CFM	1200
		Medium	CFM	1040
		Low	CFM	880
	External Static Pressure		Pa	30
	Sound Pressure Level		dBA	53
	Unit Dimension	Height	mm	375
		Width	mm	780
		Depth	mm	560
	Packing Dimension	Height	mm	380
		Width	mm	945
		Depth	mm	570
	Unit Weight		Kg	31
	Condensate Drain Size		mm	32
Outdoor Unit	Unit Dimension	Height	mm	700
		Width	mm	1025
		Depth	mm	410
	Packing Dimension	Height	mm	715
		Width	mm	1130
		Depth	mm	455
	Unit Weight		Kg	66
	Pipe Connection	Type		Brazing
		Liquid	mm	9.52
		Gas	mm	15.87
Refrigerant Charge		Kg	2.65	

FLOOR STANDING TYPE (Heat Pump)


R-410A

Model Name	Indoor unit		FVQ125CVEB	FVQ140CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB		
	Outdoor unit		RZQ125KCV4A	RZQ140KCV4A	RZQ100HAY4A	RZQ125HAY4A	RZQ140HAY4A		
Power supply			1 Phase, 220-240 V, 50 Hz	1 Phase, 220-240 V, 50 Hz	3 Phase, 415 V, 50 Hz	3 Phase, 415 V, 50 Hz	3 Phase, 415 V, 50 Hz		
Cooling capacity -Rated (min ~max)			kW	12.5(5.7-14.0)	13.5 (6.2-15.4)	10.0 (5.0-11.2)	12.5(5.7-14.0)	13.5 (6.2-15.4)	
Heating capacity -Rated (min ~max)			kW	14.0 (6.0-16.2)	16.0 (6.2-18.0)	11.2 (5.1-12.8)	14.0 (6.0-16.2)	16.0 (6.2-18.0)	
Power consumption			Cooling-Rated	kW	4.390	5.400	3.280	4.390	5.400
Power consumption			Heating-Rated	kW	4.260	5.280	3.670	4.260	5.280
Annual Power Consumption			kWh	NA	NA	NA	NA	NA	
ISEER / Stars			Wh/Wh	NA	NA	NA	NA	NA	
Indoor unit	Colour			Fresh White	Fresh White	Fresh White	Fresh White	Fresh White	
	Airflow rate (H/M/L)		m3/min	28/26/24	30/28/26	28/25/22	28/26/24	30/28/26	
			cfm	988/918/847	1059/988/918	988/883/777	988/918/847	1059/988/918	
	Sound level (H/M/L)		dB(A)	51/48/46	53/51/48	50/47/44	51/48/46	53/51/48	
	Dimensions (HxWxD)	Unit	mm	1850x600x350	1850x600x350	1850x600x350	1850x600x350	1850x600x350	
		Panel	mm	NA	NA	NA	NA	NA	
	Machine weight	Unit	kg	47	47	47	47	47	
		Panel	kg	NA	NA	NA	NA	NA	
	Certified operation range		Heating	°CWB	15 to 27	15 to 27	15 to 27	15 to 27	
Outdoor unit	Colour			Ivory White	Ivory White	Ivory White	Ivory White	Ivory White	
	Compressor	Type		Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	Hermetically Sealed Scroll Type	
		Motor output	kW	2.4	3.1	1.7	2.2	2.9	
	Refrigerant charge (R-410A)		kg	3.7(Charged For 30m)	3.7(Charged For 30m)	4.3(Charged For 30m)	4.3(Charged For 30m)	4.3(Charged For 30m)	
	Sound level	Cooling/Heating	dB(A)	50/52	50/52	49/51	50/52	50/52	
	Dimensions (HxWxD)		mm	1170x900x320	1170x900x320	1345x900x320	1345x900x320	1345x900x320	
	Machine weight		kg	98	98	108	108	108	
	Certified operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	
	Certified operation range	Heating	°CWB	-15 to 15.5	-15 to 15.5	-15 to 15.5	-15 to 15.5	-15 to 15.5	
Piping connections	Liquid (Flare)		mm	Ø9.5	Ø9.5	Ø9.5	Ø9.5	Ø9.5	
	Gas (Flare)		mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9	
	Drain		mm	VP20(I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)	VP20 (I.D Ø20, O.D Ø26)	VP20(I.D Ø20, O.D Ø26)	
Max. interunit piping length			m	75 (Equivalent length 90m)	75 (Equivalent length 90m)	75 (Equivalent length 90m)	75 (Equivalent length 90m)	75 (Equivalent length 90m)	
Max. installation level difference			m	30	30	30	30	30	

Note: 1 Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping: 7.5 m (horizontal).
2 Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, outdoor temp. 7°CDB, 6°CWB. Equiv. refrigeration piping: 7.5 m (horizontal).
3 Anaechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

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Solutions 360°

DUCT CONNECTION MIDDLE AND HIGH STATIC PRESSURE INVERTER TYPE (COOLING ONLY)


R-32

Model Name	Indoor unit		FDMF50BRV16	FDMF71BRV16	FDMF90BRV16	FDMF100BRV16
	Outdoor unit		RZMF50BRV16	RZMF71BRV16	RZMF90BRV16	RZMF100BRV16
Power supply			1 Phase, 220-240 V, 50 Hz	1 Phase, 220-240 V, 50 Hz	1 Phase, 220-240 V, 50 Hz	1 Phase, 220-240 V, 50 Hz
Tonnage Range			1.42 TR	2 TR	2.5 TR	2.8 TR
Cooling capacity -Rated (min ~max)			kW 5.2 (2.3-5.6)	7.1 (3.2-8.0)	9.0 (4.5-10.1)	10.5 (5.0-11.2)
Power consumption			Cooling-Rated kW 1.600	2.150	2.700	3.330
ISEER / Stars/COP			Wh/Wh 3.25	3.30	3.33	3.15
Indoor Unit	Airflow rate (H/M/L)		m³/min 18/15/12.5	23/19.5/16	32/27/22.5	32/27/22.5
			cfm 635/530/441	812/689/565	1130/935/795	1130/935/795
	Sound level (H/L)		dB(A) 33/29/26	38/36/34	38/34/32	38/34/32
	Dimensions (HXWXD)		mm 300x1000x700	300x1000x700	300x1400x700	300x1400x700
Machine weight		kg 34	34	43	43	
Outdoor Unit	Compressor	Type	Hermetically Sealed Swing Type	Hermetically Sealed Swing Type	Hermetically Sealed Swing Type	Hermetically Sealed Swing Type
		Motor output	kW 1.3	1.3	1.6	1.6
	Refrigerant		R-32	R-32	R-32	R-32
	Refrigerant charge		kg 1.09(Charged For 15m)	1.3(Charged For 15m)	2.8(Charged For 30m)	2.8(Charged For 30m)
	Sound level	Cooling	dB(A) 48	50	51	51
	Dimensions (HXWXD)		mm 595x845x300	595x845x300	990x940x320	990x940x320
	Machine weight		kg 36.5	40	57	57
Certified operation range			°CDB 19 to 48	19 to 48	19 to 48	19 to 48
Piping connections	Liquid (Flare)		mm Ø9.5	Ø9.5	Ø9.5	Ø9.5
	Gas (Flare)		mm Ø15.9	Ø15.9	Ø15.9	Ø15.9
	Drain		mm VP25 (I.D Ø25 , O.D Ø32)	VP25 (I.D Ø25 , O.D Ø32)	VP25 (I.D Ø25 , O.D Ø32)	VP25 (I.D Ø25 , O.D Ø32)
Max. interunit piping length			m Ref Piping Max Length -30	Ref Piping Max Length -30	50 (Equivalent length 70)	50 (Equivalent length 70)
Max. installation level difference			m 20	20	30	30

DUCT CONNECTION MIDDLE AND HIGH STATIC PRESSURE INVERTER TYPE (COOLING ONLY)



Model Name	Indoor unit		FDMF125BRV16	FDMF140BRV16	FDMF125BRV16	FDMF140BRV16	
	Outdoor unit		RZMF125BRV16	RZMF140BRV16	RZMF125BRV16	RZMF140BRV16	
Power supply			1 Phase, 220-240 V, 50 Hz	1 Phase, 220-240 V, 50 Hz	IDU 1 Phase/ODU 3 Phase, 380-415 V, 50 Hz	IDU-1phase /ODU 3 Phase, 380-415 V,50 Hz	
Tonnage Range			3.5 TR	4 TR	3.5 TR	4 TR	
Cooling capacity -Rated (min ~max)			kW	12.5(5.7-14.0)	14.0 (6.2-15.4)	12.5(5.7-14.0)	14.0 (6.2-15.4)
Power consumption			kW	4.700	6.100	4.400	5.700
ISEER / Stars/COP			Wh/Wh	2.66	2.3	2.84	2.46
Indoor Unit	Airflow rate (H/M/L)	m³/min	40/34/28	40/34/28	40/34/28	40/34/28	
		cfm	1412/1200/989	1412/1200/989	1412/1200/989	1412/1200/989	
	Sound level (H/L)	dB(A)	42/39/35	42/39/35	42/39/35	42/39/35	
	Dimensions (HxWxD)		mm	300x1400x700	300x1400x700	300x1400x700	300x1400x700
	Machine weight	kg	45	45	45	45	
	Outdoor Unit	Compressor	Type	Hermetically Sealed Swing Type	Hermetically Sealed Swing Type	Hermetically Sealed Swing Type	Hermetically Sealed Swing Type
Motor output			kW	2.4	2.4	2.4	2.4
Refrigerant		R-32	R-32	R-32	R-32		
Refrigerant charge		kg	3.1 (Charged For 30m)	3.1 (Charged For 30m)	3.1 (Charged For 30m)	3.1 (Charged For 30m)	
Sound level		Cooling	dB(A)	55	55	55	55
Dimensions (HxWxD)		mm	990x940x320	990x940x320	990x940x320	990x940x320	
Machine weight		kg	69	69	69	69	
Certified operation range		°CDB	19 to 48	19 to 48	19 to 48	19 to 48	
Piping connections	Liquid (Flare)	mm	ø9.5	ø9.5	ø9.5	ø9.5	
	Gas (Flare)	mm	ø15.9	ø15.9	ø15.9	ø15.9	
	Drain	mm	VP25 (I.D ø25 , O.D ø32)	VP25 (I.D ø25 , O.D ø32)	VP25 (I.D ø25 , O.D ø32)	VP25 (I.D ø25 , O.D ø32)	
Max. interunit piping length			m	50 (Equivalent length 70)	50 (Equivalent length 70)	50 (Equivalent length 70)	50 (Equivalent length 70)
Max. installation level difference			m	30	30	30	30

DUCT CONNECTION MIDDLE AND HIGH STATIC PRESSURE TYPE (Heat Pump)



Model Name			Indoor unit	Outdoor unit	71	100	125	140	100	125	140
					FBQ71DV1 RZQ71KCV4A	FBQ100DV1 RZQ100KCV4A	FBQ125DV1 RZQ125KCV4A	FBQ140DV1 RZQ140KCV4A	FBQ100DV1 RZQ100HAY4A	FBQ125DV1 RZQ125HAY4A	FBQ140DV1 RZQ140HAY4A
Power supply					Indoor unit : 1 Phase, 220-240 V, 50 Hz Outdoor unit : 1 Phase, 240 V, 50 Hz				Indoor unit : 1 Phase, 220-240 V, 50 Hz Outdoor unit : 3 Phase, 415 V, 50 Hz		
Cooling capacity ¹ Rated (Min. ~ Max.)			kW	7.1 (3.2-8.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	13.1 (6.2-15.4)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	13.1 (6.2-15.4)	
Heating capacity ² Rated (Min. ~ Max.)			kW	8.0 (3.5-9.0)	11.2 (5.1-12.8)	14.0 (6.0-16.2)	16.0 (6.2-18.0)	11.2 (5.1-12.8)	14.0 (6.0-16.2)	16.0 (6.2-18.0)	
Power consumption	Cooling ¹	kW	2.22	3.17	3.97	4.16	3.17	3.97	4.16		
	Heating ²	kW	2.43	3.15	3.95	4.68	3.15	3.95	4.68		
COP	Cooling	W/W	3.20	3.15				3.56	3.54	3.42	
	Heating	W/W	3.29	3.56	3.54	3.42	3.56	3.54	3.42		
Indoor unit	Colour	-									
	Fan	Airflow rate (H/L)	m ³ /mn cfm	18/15 635/530	32/23 1,130/812	39/28 1,377/988	32/23 1,130/812	39/28 1,377/988			
		External static pressure ³ (Middle-High)	Pa	50-200							
	Sound level (H/L) ⁴	dB(A)	37/32	38/33	40/36	40/36	38/33	40/36	40/36		
	Dimensions (HX WX D)	mm	300X 1,000X 700	300X 1,400X 700							
	Machine weight	kg	36	46							
	Certified Operation range	Cooling Heating	°CWB °CDB	14 to 25 15 to 27							
Outdoor unit	Colour	Ivory white									
	Compressor	Type	Hermetically sealed swing type			Hermetically sealed scroll type					
		Motor output	kW	1.7	1.9	2.4	2.9	1.9	2.4	2.9	
	Refrigerant charge (R-410A)	kg	2.75 (Charged for 30 m)	3.7 (Charged for 30 m)			4.3 (Charged for 30 m)				
	Sound level	Cooling/ Heating ⁴	dB(A)	48/50	49/51	50/52	49/51	50/52			
		Night quiet mode	dB(A)	44	45	46	45	46			
	Dimensions (HX WX D)	mm	770X 900X 320	1,170X 900X 320			1,345X 900X 320				
Machine weight	kg	68	98			108					
Piping connections	Certified Operation range	Cooling Heating	-5 to 46 -15 to 15.5								
	Liquid (Flare) Gas (Flare)	mm	Ø9.5 Ø15.9								
		Drain	mm	1.DØ25X O.DØ32 Ø26.0 (Hole)							
	Max. interunit piping length			m	50 (Equivalent length 70)	75 (Equivalent length 90)					
Max. installation level difference			m	30							
Heat insulation			Both liquid and gas piping								

Note :

1Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

2Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, outdoor temp., 7°CDB, 6°CWB. Equiv. refrigeration piping, 7.5 m (horizontal)

3Initial setting is standard.

4Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

WALL MOUNTED TYPE (Cooling Only)


R-410A

Model Name		Indoor unit	Outdoor unit	100 FAQ100CVEA RZR100LUY1
Power supply				3 Phase, 380-415V, 50 Hz
Cooling capacity (Rated) (Min. - Max.)				10.0 (5.0-11.2)
Power consumption		Cooling (Rated)		4.2
Indoor unit	Colour			Fresh White
	Airflow rate (H/M/L)			918/812/671
	Sound level (H/M/L)*3			49/45/41
	Dimensions (HxWxD)			340x1,200x240
	Machine weight			17
Outdoor unit	Colour			Ivory white
	Compressor	Type		Hermetically sealed scroll type
	Motor output			2.1
	Refrigerant charge (R-410A)			2.7 (Charged for 30m)
	Sound level	Cooling		49
	Dimensions (HxWxD)			1,170×900×320
	Machine weight			92
	Certified Operation range			°CWB 21 to 46
Piping connections	Liquid (Flare)			Ø9.5
	Gas (Flare)			Ø15.9
	Drain			Ø26.0 (Hole)
Max. interunit piping length				50 (Equivalent length 70)
Max. installation level difference				30

Note: 1. Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping: 7.5 m (horizontal).
2. Anaechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

WALL MOUNTED TYPE (Heat Pump)


R-410A

Model Name		Indoor unit	Outdoor unit	100 FAQ100CVEA RZQ100HAY4A
Power supply				3 Phase, 380-415V, 50 Hz
Capacity (Rated) Min-Max		Cooling		10.0 (5.0-11.2)
		Heating		11.2 (5.1-12.8)
Power consumption		Cooling		3.19
		Heating		3.44
Indoor unit	Colour			Fresh White
	Airflow rate (H/M/L)			918/812/671
	Sound level (H/M/L)*3			49/45/41
	Dimensions (HxWxD)			340x1,200x240
	Machine weight			17
Outdoor unit	Colour			Ivory white
	Compressor	Type		Hermetically sealed scroll type
	Motor output			2.1
	Refrigerant charge (R-410A)			4.3 (Charged for 30m)
	Sound level	Cooling		49
		Heating		51
	Dimensions (HxWxD)			1,345x900x320
	Machine weight			108
Piping connections	Liquid (Flare)			Ø9.5
	Gas (Flare)			Ø15.9
	Drain			Ø26.0 (Hole)
Max. interunit piping length				75 (Equivalent length 90m)
Max. installation level difference				30

Note: 1. Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping: 7.5 m (horizontal). 2. Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, outdoor temp. 7°CDB, 6°CWB. Equiv. refrigeration piping: 7.5 m (horizontal). 3. Anaechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.

FLOOR STANDING (Cooling Only)

R-410A

Model				INDOOR	FVRN71AXV16	FVRN100AXV16	FVRN125AXV16	FVRN140AXV16
				OUTDOOR	RR71CGXY1A6	RR100DGXY16	RR125DGXY16	RR140DGXY16
Nominal Cooling Capacity				Tonnage	2.4	3.3	3.8	4.6
				Btu/hr	28500	40000	45000	55000
				kw	8.35	11.72	13.19	16.12
Nominal Total Input Power (Cooling)				w	2750	4050	4750	5490
Nominal Running Current (Cooling)				A	13	7.07	8.29	9.35
Power Source				V/Ph/Hz	380-415 / 3 / 50			
Refrigerant Control (Expansion Device)				OUTDOOR CAPILLARY TUBE				
Refrigerant Type				R410A				
Indoor	Air Flow	High	CFM	1035	1035	1035	1170	
		Medium		945	945	935	1085	
		Low		845	845	835	985	
		Quiet		-	-	-	-	
	Sound Pressure Level	High	dBA	49	49	50	54	
		Medium		47	47	48	53	
		Low		44	44	46	51	
		Quiet		-	-	-	-	
	Unit Dimension [Panel]	Height	mm	1850	1850	1850	1850	
		Width	mm	600	600	600	600	
		Depth	mm	350	350	350	350	
	Unit Weight [Panel]		kg	45	45	48	51	
Outdoor	Unit Dimension	mm	HEIGHT	753	852	852	852	
		mm	WIDTH	855	1030	1030	1030	
		mm	DEPTH	328	400	400	400	
	Unit Weight		kg	56	95	98	105	
	Pipe Connection	Type	FLARE VALVE					
		Liquid	mm	9.52				
		Gas	mm	15.88			19.05	
Max Piping Length			m	45				
Max Piping Elevation			m	25				

Note: Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB.
All unit are being tested and comply to ISO 5151 (Non-ducted unit)

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FLOOR STANDING (Heat Pump)

R-410A

Model Name			100	125	140
Indoor unit			FVQN100AXV1	FVQN125AXV1	FVQN140AXV1
Outdoor unit			RQ100DGXY1	RQ125DGXY1	RQ140DGXY1
Rated Cooling Capacity			Btu/h	40000	55000
			kW	11.72	16.12
Rated EER			W/W	2.82	2.94
			Btu/h	42000	54500
Rated Heating Capacity			kW	12.31	16
			W/W	3.14	3.01
Rated COP				3.02	
Indoor unit	Power Supply	V/Ph/Hz	220-240/1/50		
	Air Flow	cfm	1035/945/845		
	Sound Pressure Level	dBA	49/47/44	50/48/46	54/53/51
	Height	mm	1850		
	Width	mm	600		
	Depth	mm	350		
	Net Weight	kg	45	48	51
	Power Supply	V/Ph/Hz	380-415/3/50		
Outdoor unit	Sound Pressure Level	dBA	58	60	65
	Height	mm	852		
	Width	mm	1030		
	Depth	mm	400		
	Net Weight	kg	95	98	105
	Pipe Connection - Liquid	mm	9.52		
	Pipe Connection - Gas	mm	15.88		19.05
Max. Allowable Length			m	45	40
Max. Allowable Elevation			m	25	20

Note: Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB.
Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB; outdoor temp., 7°CDB, 6°CWB.
All unit are being tested and comply to ISO 5151 (Non-ducted unit)

CEILING CONCEALED TYPE (Cooling Only)

R-32

UNIT	Product Category	Unit	LSP DUCT SERIES			MSP DUCT SERIES			
	Nominal Capacity	TR	1.0	1.5	2.0	2.5	2.8	3.5	4.0
	Rated Capacity	Watt	3516	5274	7032	8790	9845	12306	14064
	Rated Power Input	Watt	1090	1740	2050	2710	3120	3950	4630
	EER/COP	W/W	3.23	3.03	3.43	3.24	3.16	3.12	3.04
	BEE Star Applicable	-----	NA	NA	NA	NA	NA	NA	NA
	Operating Range	IDU (DB/WB)	19/14~35/24			19/14~35/24			
	ODU	19~48			19~48				
	-----	R32			R32				
Indoor Unit	Model Name	-----	FDBF12CRV16	FDBF18CRV16	FDBF24CRV16	FDMF30CRV16	FDMF36CRV16	FDMF42CRV16	FDMF48CRV16
	Casing Size(HXWXD)	MM	250X880X605		250X1130X605	295X1430X665		295X1730X665	
	Casing Color	-----	Unpainted			Unpainted			
	Power Supply	V/Hz/Ph	230V/50/1ph			230V/50/1ph		415V/50/3ph	
	Air Flow Rate	CFM/(H)	400	600	800	1000	1200	1400	1500
	ESP	Pa	20			20	30	40	50
	Fan Speed	No	3			3	3	3	3
	Sound Pressure Level(Hi)	(dBA)	36	39	43	43	42	42	49
	Remote Controller(With IDU)	-----	Wired Type						
	Unit Weight	Kg	28	24	34	48	51	51	60
	Outdoor Unit	Model Name	-----	RGF12CRV16	RGF18CRV16	RGF24CRV16	RGF30CRV16	RGF36CRV16	RGF42CRY16
Casing Color		-----	IVORY WHITE						
Casing Size(HXWXD)		MM	550X765X285	595X845X300		990X940X320			
Power Supply		V/Hz/Ph	230V/50/1			230V/50/1ph		415V/50/3ph	
Max Total Pipe Length		Mtr.	20			20		30	
Max Vertical Pipe Length		Mtr.	10			10		15	
Std Pipe Length		Mtr.	7.5			7.5			
Sound Pressure Level		(dBA)	51	54	56	58	63		
Precharge & Service Valve		YES/NO	Yes			YES	YES	YES	YES
Protection Device		-----	Inbuilt TOP Comp & Motor			Inbuilt TOP Comp & Motor		LP/HP/SPPR/UV/OV	
Piping Size (MM)		Gas	12.7		15.9	15.9			
		Liquid	6.4			9.5			
Compressor Type		Type	Rotary			Rotary		Scroll	
Accumulator		-----	Part of Compressor			Part of Compressor		No	
HE Type/Coating		Type	FTHX(Precoated)			FTHX(Precoated)			
Weight (Approx)		Kg	30	36	45	63	65	69	69
Installation Kit	Yes/No	No			No				

CEILING SUSPENDED TYPE

INVERTER
R-410A

Name of option		Remark		Kit name	
Replacement long-life filter		Resin net		FHQ100BVV1B	FHQ125BVV1B
				KAF501DA112	KAF501DA160
Drain-up kit				KDU50N125VE	
L-type piping kit (for upward direction)				KHFP5MA160	
Remote controller	Wireless type	Cooling only		BRC7EA66	
		Heat pump		BRC7EA63W	
	Wired type ¹			BRC1C61	
Wired LCD remote controller with weekly schedule timer ¹				BRC1D61	
Navigation Remote Controller	Wired type ¹			BRC1E61	
Central remote controller ²				DCS302CA61	
Unified ON/OFF controller ²				DCS301BA61	
Schedule timer ²				DST301BA61	
Touch Controller ²				DCS601C51	
Adaptor for wiring				KRP1BA54	
Wiring adaptor for electrical appendices ³				KRP4AA52	
Interface adaptor for SkyAir series				DTA112BA51	
Installation box for adaptor PCB				KRP1CA93	
Remote sensor (for indoor temperature)				KRC501-1B	
Electrical box with earth terminal (3 blocks)				KJB311AA	
Electrical box with earth terminal (2 blocks)				KIB212AA	

Note: 1Wiring for wired remote controller to be procured locally.

2This optional accessory requires DTA112BA51.

3Installation box for adaptor PCB (KRP1CA93) is necessary.

CEILING MOUNTED SLIM DUCT TYPE



		Kit name			
		Heat Pump			
		FDXS25CVMA	FDXS35CVMA	FDXS50CVMA	FDXS60CVMA
Wired remote controller ¹		BRC944B2			
Wired remote controller code	Length ³ m (shielded wire)	BRCW901A03			
	Length ⁸ m (shielded wire)	BRCW901A08			
5-room centralised controller ²		KRC72			
Adaptor PCB (normal open/normal open pulse contact) ³		KRP413A1S			
The remote controller loss prevention with the chain		KKF917A4			
Interface adaptor for DIII-NET use		KRP928B2S			
Central remote controller ⁴		DCS302CA61			
Uni ed ON/OFF controller ⁴		DCS301BA61			
Schedule timer ⁴		DST301BA61			
Intelligent Touch Controller ⁴		DCS601C51			
Suction grille		KDGFI9A4S			
Insulation kit for high humidity		KDT25N50			KDT25N63

Note: ¹3 m (BRCW901A03) or 8 m (BRCW901A08) length wired remote controller cord is necessary .
required for each indoor unit.

²Adaptor PCB is also

³Time clock and other devices ; obtained locally.

⁴This optional accessory requires KRP928B2S

WALL MOUNTED TYPE



Name of Option	Remark		Kit Name
			FAQ100CVEA
Drain-Pump kit			K-KDU572EVE
Remote controller	Wired type *1		BRC1C61
	Wireless type	Heat pump	BRC7EB518
Wired remote controller with weekly schedule timer *1			BRC1D61
Navigation remote Controller	Wired type *1		BRC1E62
Remote sensor			KRCS01-4B
Central remote controller *2			DCS302CA61
Uni ed ON/OFF controller *2			DCS301BA61
Schedule timer *2			DST301BA61
Intelligent Touch Controller *2			DCS601C51
Wiring adaptor for electrical appendices (2) *3			KRP4AA51
Installation box for printed circuit board adaptor			KRP4AA93
Electrical box with earth terminal (3 blocks)			KJB311AA
Electrical box with earth terminal (2 blocks)			KJB212AA
Noise filter (for electromagnetic interface use only)			KEK26-1A

Note: *1. Wiring for wired remote controller to be procured locally.

*2. The indoor unit is equipped stancardly with the function of the interface adaptor for SkyAir series. Interface adaptor for SkyAir series is unnecessary.

*3. Installation box for printed circuit board adaptor (KRP4AA93) is necessary.

*4. For details, refer to the Option Handbook.

DUCT CONNECTION MIDDLE & HIGH STATIC PRESSURE TYPE


R-410A

			Kit name					
Name of option	Remark		FDMF-50BRV16	FDMF-70BRV16	FDMF-90BRV16	FDMF-100BRV16	FDMF-125BRV16	FDMF-140BRV16
High-efficiency filter ¹	(Colorimetric method 65%)		KAF372AA80		KAF372AA160			
	(Colorimetric method 90%)		KAF373AA80		KAF373AA160			
Filter chamber			KDDF37AA80		KDDF37AA160-6			
Replacement long-life filter			KAF371AA80		KAF371AA160			
Replacement long-life filter chamber kit			KAF375AA80		KAF375AA160			
Suction Flange			BDF37A140-6					
Service panel			KTB25KA80W		KTB25KA160W			
			KTBJ25K80F		KTBJ25K160F			
			KTBJ25K80T		KTBJ25K160T			
Air discharge adaptor			KDAJ25K71A		KDAJ25K140A			
Remote Controller	Wireless type	Cooling Only	BRC4C66					
		Heat Pump	BRC4C66					
	Wired type ²		BRC1E62					
Wired LCD remote controller with weekly schedule timer ²			BRC1D61					
Navigation Remote Controller	Wired type ²		BRC1E62					
Adaptor for wiring (interlock for fresh air intake fan)			KRP1C64*					
Wiring adaptor for electrical appendices(2)			KRP4AA51*					
Remote sensor			KRCS01-4B					
Mounting plate for adaptor PCB (Note: 1, 2, 3)			KRP4A98					
Central remote controller (Note: 4)			DCS302CA61					
Unified ON/OFF controller (Note: 4)			DCS301BA61					
Schedule timer (Note: 4)			DST301BA61					
Intelligent Touch Controller (Note: 4)			DCS601C51					

Notes:

1 Mounting Plate is necessary for each adaptor marked*

2 Up to 2 adaptors can be fixed for each mounting plate

3 Only one mounting plate can be installed for each indoor unit.

4 The Indoor Unit is equipped standardly with the interface adaptors for sky air series.

the interface adaptor for skyair series is not necessary for this indoor unit since it is equipped as standard.

5 Model FDMF50~140BRV16 are Cooling only

75

Solutions 360°

FLOOR STANDING TYPE


R-410A

Name of option	Remark	Kit name		
		FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
Replacement long-life filter		KAFJ95L160		
Navigation Remote Controller	Wired type ¹	BRC1E62		
Central remote controller ²		DCS302CA61		
Unified ON/OFF controller ²		DCS301BA61		
Schedule timer ²		DST301BA61		
Intelligent Touch Controller ²		DCS601C51		
Adaptor for wiring ³		KRP1BA57		
Wiring adaptor for electrical appendices		KRP4AA52		
Installation box for adaptor PCB		KRP4AA95		

Note:

¹Wiring for wired remote controller to be procured locally.

²This type of indoor units is equipped with the interface adaptor for SkyAir Series. DTA112BA51 is unnecessary 3Installation box for adapter PCB (KRP4AA95) is necessary.

NOTES

REASONS TO BUY DAIKIN



Air-conditioning specialist from Japan

Daikin focuses on air-conditioning solutions and control systems. As specialists, it's all we do. No wonder Daikin is recognised as an expert in air-conditioning.



Three-year warranty on compressors

Reliability. That's probably top of your list when buying an air-conditioning system for your home or business. Daikin gives you peace of mind and reassurance with their five-year warranty on compressors of Hi-wall split air-conditioners. That's how confident Daikin is about the quality and reliability of its product.



High energy efficiency

Daikin's continuous drive for improved efficiency has seen its advanced inverter technology being applied to split, ducted and other systems. These systems provide a more comfortable environment and are more energy efficient when compared to non-inverter systems.



Environment friendly

Daikin continues to work towards a sustainable future, and has received Environmental Management System certification to ISO14001. Daikin Airconditioning India Pvt. Ltd. is dedicated to preserving and protecting the environment through the production of energy efficient products.



Unmatched after-sales support

Daikin takes pride in providing its customers with efficient after sales support, including readily available spare parts warehoused in India.



The Daikin edge with in-house manufacturing

Daikin is the only company in the world dedicated to manufacturing both air-conditioning systems and refrigerants. Each element has been designed to work flawlessly with the next - delivering optimal performance - from the time a project begins till the moment of absolute comfort.



Experienced dealers

Daikin distributes its products through experienced dealers. This ensures that you receive a top quality product with expert support. Together this means the best air-conditioning solution for your individual needs.



Pioneer in air-conditioners

Daikin has been providing air-conditioning solutions for over 15 years in India. As one of the industry's more trusted names, Daikin air-conditioning equipment can be found in homes, offices, hotels and shops. Daikin is committed to the air-conditioning market and has a manufacturing facility located in Rajasthan.



Wise investment – Low running cost

When you buy a Daikin air-conditioning system you need to look beyond the initial purchase price. It pays to consider ongoing running costs in conjunction with the potential life of the product. Daikin systems offer superior build quality and energy efficiency.



Comprehensive range and quiet operation

Daikin has a comprehensive range of products in both domestic and commercial segments. Designed to provide effective and quiet air-conditioning, Daikin can customise a solution to meet every requirement.

Terms & Conditions Apply



Contact Address

DAIKIN AIRCONDITIONING INDIA PVT. LTD.

12th Floor, Building No. 9

Tower A, DLF Cyber City

DLF Phase III, Gurgaon 122002

Haryana, India

Tel: 0124-4555444, Fax: 0124-4555333

Sales & Service Offices

Ahmedabad

Tel: 079-26583013/14

Cochin

Tel: 0484-2808646

Kolkata

Tel: 033-23574259/61

Pune

Tel: 020-25560300

Bengaluru

Tel: 080-25590452/54

Delhi NCR

Tel: 011-43834400/4500

Lucknow

Tel: 0522-2787307/340

Raipur

Tel: 0747-1115412

Bhubaneswar

Tel: 0674-2546476

Ghaziabad

Tel: 0120-4205851

Ludhiana

Tel: 0161-5077028/29/30

Ranchi

Tel: 0763-5093703

Chandigarh

Tel: 0172-5089862/64

Indore

Tel: 0731-4005864

Mumbai

Tel: 022-30926666

Secunderabad

Tel: 040-49134283

Chennai

Tel: 044-40807676

Jaipur

Tel: 0141-2218903

Patna

Tel: 0612-2522477

Vijaywada

0866-2952224/25/26



Customer Contact Centre:

SMS: <DAIKIN> to 92 101 88 999

Give missed call: to 92 101 88 999

Customer Support no.: 011-40319300 / 1860 180 3900

Email: customerservice@daikinindia.com

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Disclaimer

As a continuing policy of product innovation at Daikin, the design and specifications are subject to change without prior notice. The visuals of the products in the brochure are representative only, actual products might differ from the ones shown.

'Products mentioned in this brochure comply with RoHS regulations as per E-waste (Management & Handling) Rules, 2011 and should not be mixed with general household waste at the end of their useful life.' For more details kindly visit our website www.daikinindia.com or contact our customer care centre at 011-40319300 / 1860 180 3900.

WORLD'S NO. 1
AIRCONDITIONING COMPANY FROM JAPAN



Versatility is the mark of **Perfection**



High Static Series



Rooftop Series



Water Source Heat
Pump Series



Floor Standing Series

DAIPL-2016/20-PA-1D

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14 ▶ Air-Cooled (Rooftop)

04 ▶ Air-Cooled (Ductable)

17 ▶ Horizontal Water Source Heat Pump

11 ▶ Air-Cooled (Packaged)

20 ▶ Specifications

Daikin customizes packaged line-up of airconditioning products for Indian market.

Daikin believes in being close to its customers. As a result we have developed a new range of packaged products tailor-made for Indian conditions. This new line-up of products produced in Daikin India's manufacturing facility at Neemrana, Rajasthan ensures reduced lead time and greater array of features for Indian consumers. Advanced features include cooling at high-ambient temperature, Under voltage & over voltage protection as well as phase imbalance voltage &

Phase reversal protection. We have also introduced aesthetically appealing new wired LCD remote controller, with glossy finish, for ease of usage of our packaged air-conditioner. The new line-up of packaged air conditioners gives you cutting-edge technology in air conditioners with industry-leading energy efficiency for lower power bills. These locally produced high-static pressure duct type are available up to 20 HP (16.7 TR).



Product Line-up

HIGH STATIC PRESSURE DUCT TYPE (Cooling only)

R-410A

CAPACITY	Btu/h	66,000	1,02,000	1,32,000	1,29,600	1,98,000
	TR	5.5	8.5	11	10.8	16.5
INDOOR UNIT	    					
		FDR65FRV16	FDR100FRV16	FDR130FRV16	FDR130FRV162	FDR200FRY16
OUTDOOR UNIT	    					
		RR65FRY16	RR100FRY16	RR130FRY16	RR65FRY16(Nos.2)	RR100FRY16(Nos.2)

HIGH STATIC PRESSURE DUCT TYPE (Cooling only)

R-22

CAPACITY	Btu/h	66,000	1,02,000	1,32,000	2,00,000
	TR	5.5	8.5	11	16.7
INDOOR UNIT	   				
		FD65DSV16	FD100DSV16	FD130DSV16	FD200DSY16
OUTDOOR UNIT	   				
		R65DSY16	R100DSY16	R130DSY16	R100DSY16 (Nos. 2)

HIGH STATIC PRESSURE DUCT TYPE (Cooling Only)

R-22

CAPACITY	Btu/h	2,50,000	3,50,000	5,00,000
	TR	20.8	29.2	41.7
INDOOR UNIT	  			
		FD250B2Y1M	FD350B3Y1M	FD500B4Y1M
OUTDOOR UNIT	  			
		R130DSY16x2 Nos	R100DSY16x1 Nos / R130DSY16x2 Nos	R130DSY16x4 Nos

Product Line-up

FLOOR STANDING TYPE (Cooling only)

R-410A

CAPACITY	Btu/h	50,000	60,000	80,000	1,00,00	1,20,000	1,60,000	1,80,000	2,00,000
	TR	4.2	5.0	6.7	8.3	10.0	13.3	15.0	16.7
DIRECT AIR BLOW TYPE	INDOOR UNIT								
		FVGR05NV1	FVGR06NV1	FVGR08NV1	FVGR10NV1				
DIRECT AIR BLOW TYPE	OUTDOOR UNIT								
		RUR05NY1	RUR06NY1	RUR08NY1	RUR10NY1				
DUCT CONNECTION TYPE	INDOOR UNIT								
						FVPGR10NY1	FVPGR13NY1	FVPGR15NY1	FVPGR18NY1
DUCT CONNECTION TYPE	OUTDOOR UNIT								
						RUR10NY1	RUR13NY1	RUR15NY1	RUR18NY1

AIR-COOLED ROOFTOP UNITS (Cooling only)

R-410A

CAPACITY	Btu/h	62,500	93,400	1,24,500	1,54,400	1,89,000	2,48,600
	TR	5.0	8.0	10.0	13	16.0	21.0
ROOFTOP SERIES UATQ-C							
		UATQ60CGXY1	UATQ90CGXY1	UATQ120CGXY1	UATQ150CGXY1	UATQ180CGXY1	UATQ240CGXY1

AIR-COOLED ROOFTOP UNITS (Heat Pump)

R-410A

CAPACITY	Btu/h	93,300	1,21,400	1,52,600	1,90,000	2,28,000	2,47,700
	TR	7.8	10.1	12.7	15.8	19.0	20.6
ROOFTOP SERIES UATYQ-C							
		UATYQ250MCY19	UATYQ350MCY1	UATYQ450MCY1	UATYQ550MCY1	UATYQ600MCY1	UATYQ700MCY1

HORIZONTAL WATER SOURCE HEAT PUMP

R-410A

CAPACITY	Btu/h (Cooling)	9380	17907	22682	29913	34791	42636
	Btu/h (Heating)	11153	20806	24217	30868	34961	44341
	TR (Cooling)	0.78	1.49	1.89	2.49	2.90	3.55
	TR (Heating)	0.93	1.73	2.02	2.57	2.91	3.70

UNIT						
	MWH010DRP	MWH020DRP	MWH025DRP	MWH030DRP	MWH040DRP	MWH050DRP

CAPACITY	Btu/h (Cooling)	54574	64806	83736	100620	113922	127907
	Btu/h (Heating)	56757	67398	87086	104645	118479	133023
	TR (Cooling)	4.55	5.40	6.98	8.39	9.49	10.66
	TR (Heating)	4.73	5.62	7.26	8.72	9.87	11.09

UNIT						
	MWH060DRP	MWH070DRP	MWH080DRP	MWH100DRP	MWH125DRP	MWH150DRP

Daikin's Packaged Air-conditioners are engineered to meet high static and large airflow for wider coverage requirements.



Air-Cooled (Ductable)

AIR CONDITIONERS

High static pressure duct type**

R-410A FDR-FRV/FRY Series
R-22 FD-DSV/DSY Series

▶ FDR65FRV16



▶ FDR100FRV16



▶ FDR130FRV162*



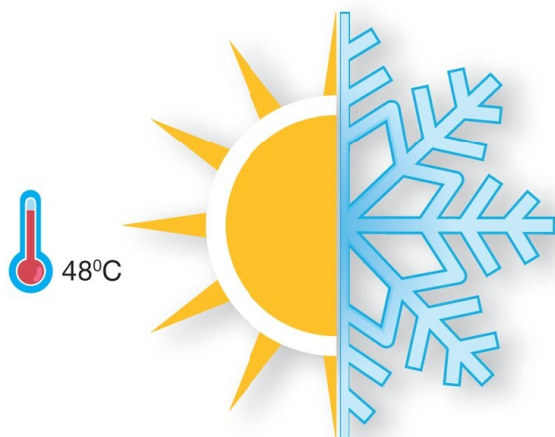
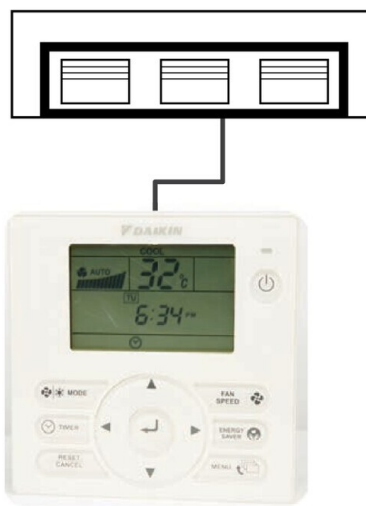
▶ FDR200FRY16



Improved Features

New wired LCD remote controller

New LCD based wired type remote handset with alphabetic error display like HP, LP, SPPR, indoor fan current sensor etc. In-built energy saver dedicated button and glossy finish.



High performance even at high ambient temperature

Always keeping your comfort in mind, Daikin ducted air conditioners work at high ambient temperature (48°C) without tripping. Get the best out of Daikin ducted air conditioners even in hot weather conditions.

Note: *Available in twin circuit also. **Models available in R-22 also (5.5 ~16.7 TR).

Best in class Air Conditioning Components

Best in Class high grade Components of Daikin Ducted Air Conditioners ensures high energy efficiency, High Cooling, high comfort and high reliability.

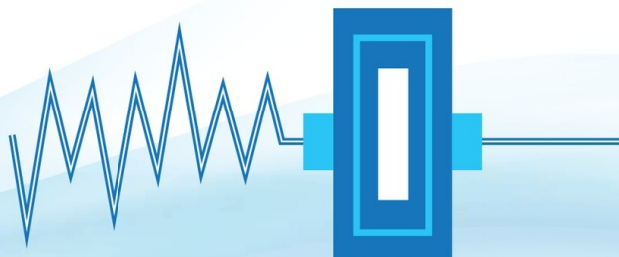


Under voltage and over voltage protection

Given the erratic electricity supply it becomes important that your air conditioners are guarded against under voltage and over voltage. Daikin ducted air conditioners offer protection against voltage fluctuation thus enhancing the operating life of your air conditioners.

Phase imbalance voltage

It is vital that your air conditioner is protected against imbalance and Daikin duct air conditioners offer this protection to ensure reliable operation of the air conditioner. Electrical equipment especially motors and their controllers will not operate reliably on unbalanced voltages. Greater imbalances may cause overheating of components and damage the air conditioners.



Phase Loss Protection

In case of any phase loss Daikin machine will display error on its controller.



Phase reverse protection

Phase reversal could cause serious problems therefore much care is required to protect the motor from such type of fault. Daikin duct air conditioners offer protection from phase reversal thus enhancing the life of the air conditioners.

Pre-charged refrigerant

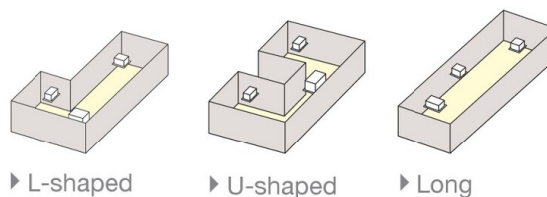
Daikin India's FDR65, FDR100, FDR130 and FDR200 models are available with pre-charged refrigerant for 7.5 meter piping length. No need for additional refrigerant charge on-site if piping length is upto 7.5 meters.



Comfortable

Superior air distribution for comfortable living

The conditioned air can be effectively distributed to every corner of the room through the ducting and this ensures a pleasant environment for comfortable living.



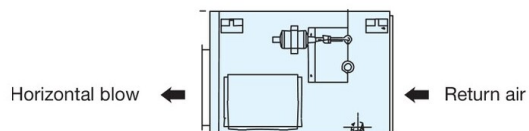
► L-shaped

► U-shaped

► Long

Air discharge orientation

FDR65-200 models come with standard horizontal air discharge.



Flexibility of air supply

Air flow can be adjusted by using Fan speed button on LCD Remote controller.

Versatility

Multiple rooms can be cooled together at the same time by using just one unit of fan coil unit.

Fresh air intake for healthy living

Fresh air can be introduced into the building through the design of fresh air intakes. This will help to improve the indoor air quality.

Compact

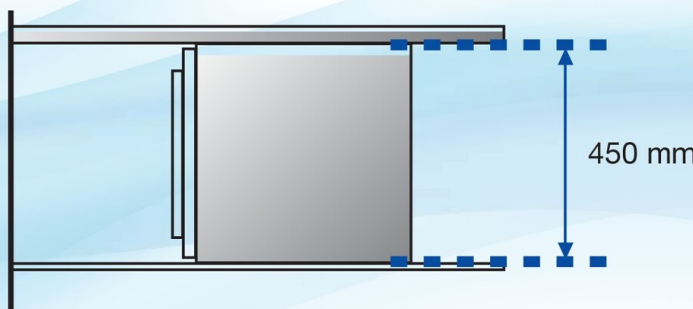
Compact design of built-in type helps blend with interior decor

Indoor models are compact in size and designed with twin coil structure. This design effectively saves space during installation.



Compact size

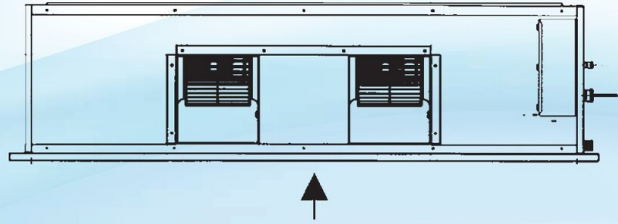
To fit in tight ceiling spaces, few models are available with 450 mm height only



Work & Servicing

Easy maintenance

The simple design concept has provided the ease of maintenance and servicing. Access to the internal part of the unit can be from the service panel or other side of the unit by loosening a few screws.



Remote Controller

Wireless & Wired Remote Controllers



NEW

*4P408280-1A

*Applicable models upto FDR200

Others

Air Filter as standard

Washable Air Filter is equipped as standard.

Outdoor Unit

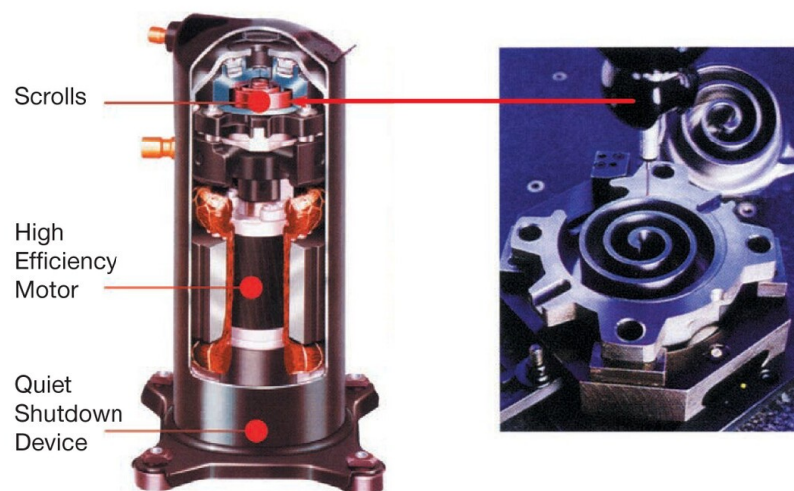
Scroll compressor

All outdoor units are using scroll compressor which has better energy efficiency and quiet in operation.

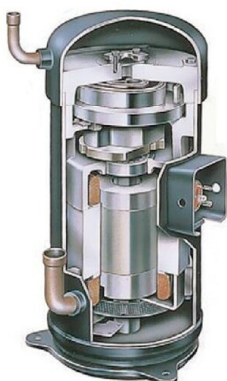
Anti-corrosion of heat exchanger fin

The heat exchanger fin of outdoor units are anti-corrosion treated.

Scroll compressor



Advantage of High Performance Components FDR-FRV Series (5.5TR~16.5TR)



Compressor

Compressor is known as heart of any Refrigeration & Air conditioning system.

Daikin uses highly efficient Scroll compressor which ensures better Volumetric Efficiency, Low noise ,reliable operation, built in safety.

ODU Fan

Aerodynamic design High efficiency Propeller Fan for optimize Airflow distribution thus better heat transfer& lower noise level best suited for high Ambient conditions.

The Outdoor fan and fins that act as heat syncs draw the heat away so the unit doesn't overheat.

The outdoor condensing unit becomes very hot with all that overheated refrigerant running through it. The Outdoor fan and fins that act as heat syncs draw the heat away so the unit doesn't overheat.



Motor

High RPM motors to improve airflow ,better insulation

Thermal Overload protector used for motor safety.

HP/LP Switch

These switches are design for Highly Precise Setting & Repeatability

HP Switch: The high pressure switch cuts-off power supply in case of excess compressor discharge pressure thereby preventing equipment damage.

LP Switch: The low pressure switch monitors the refrigeration system for loss of refrigerant charge.

It also helps in stopping the evaporator (indoor) coil from freezing due to a clogged/dirty filter or lower airflow over the coil.





Heat Exchanger

Blue Fin Condenser and Hydrophilic special coating on the fin of the heat exchanger prevents corrosion, extending the life of the unit to increased enhance performance.

Optimum Area Heat exchanger of both 7mm tubes & 3/8" Heat Exchanger increasing heat transfer area which increases cooling capacity & Performance during high ambient temperature.

TEV

Thermostatic expansion valve (TEV) regulates refrigerant flow to cater to variations in heat load and make the system more efficient by controlling Superheat & matches system capacity.

over a broader temperature range. It increases the flow of refrigerant to provide better cooling at higher temperatures. It's design Protects the compressor motor by preventing liquid slugging, which can damage compressors.

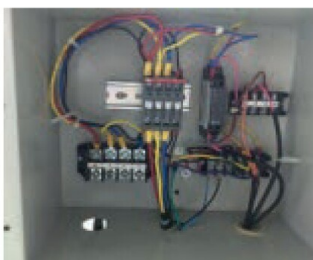


Drier

Filter Drier for liquid line protects refrigeration and air-conditioning system by removing High moisture, acids and solid particles. With these contaminants eliminated, systems are safer from harmful chemical reactions. These are shock resistant built in steel shell construction.

Stop Service Valve

Function: Stop valve is used to connect indoor and outdoor units.
Good Quality of stop Valve ensures high Reliability.



Metallic PCB Box

Metallic PCB Box ensures safety from Fire

Air-Cooled (Packaged)

AIR CONDITIONERS - Flexible design and great reliability.

Floor standing type

R-410A



FVGR10NV1



RUR10NY1



FVGR10NY1



RUR10NY1

► Direct air blow type

► Duct connection type



► Nice, cool air in the factory or in the cafeteria

Enhanced Varieties of Factory Modification and Optional Accessories

- Standard model
- Factory modification
- Contact sales for more information

		Floor Standing Type	
		Direct Air Blow	Duct Connection Type
FACTORY MODIFICATION	Auto restart	●	●
	Modify wiring for central control adaptor kit (DAT107A55) installation	●	●
	Change fan motor and pulley	-	●
	Discharge grill plenum chamber	●	●
	Side discharge grill on discharge plenum chamber	●	●
	Lower drain pan	-	●
	Front suction high efficiency filter chamber	-	●
	Front suction base flange for front suction high efficiency filter chamber	-	●
	Suction grill for front suction high efficiency filter chamber	-	●
	Fresh air inlet	-	●
	Rear suction	●	●
	Drain pump	●	●
	Remote sensor (Thermistor for suction air)	●	●
	All fresh air application	●	●
OPTION	Low outdoor temp. 15°C application and long pipe 70m application	●	●
	Central control adaptor kit(external terminal for ON/OFF, abnormal) ¹	DTA107A55	
	LCD remote controller ²	BRC1C62	
	Intelligent touch controller ²	DCS601C51	
	Central remote controller ²	DCS302CA61	
	Unified ON/OFF controller ³	DCS301B61	
	Schedule timer ³	DST301BA61	
	Remote sensor (Thermistor for suction air) ³	KRCS01-1	
	Remote controller	BRC1NU64	

- Notes:
1. Wiring modification is needed on floor stand model to connect with central control ADP kit.
 2. Need to use central control adapter kit for option connection.
 3. Central control adapter kit and LCD remote controller is necessary for option connection.

Quiet Operation

Equipped with scroll compressor for quiet operation
Smooth running, low vibration, low operating sound.

Outdoor unit	Sound level	
	0.92	1.76
RUR05NY1	59 dB	60 dB
RUR06NY1	59 dB	60 dB

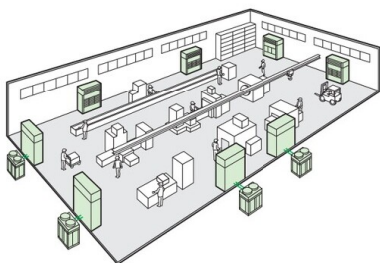


Direct Air Blow from Indoor Unit with Plenum

Comfortable factory airconditioning, using multiple indoor units installed in accordance with the space.

Installation is next to walls, so units will not affect the factory layout even if some changes are made.

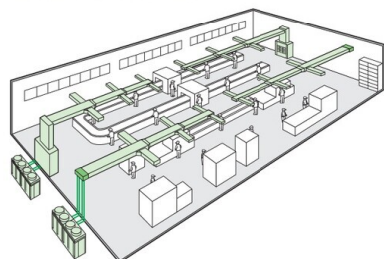
Direct air blow type



Air Blow via Connected Ducts

Comfortable airconditioning of the entire factory by connecting a blow duct at the top of the indoor unit.

Duct connection type



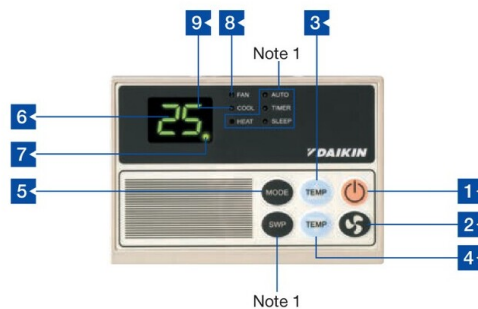
Note: Ducts to be procured locally.

Easy Operation

Digital remote control comes standard with indoor unit

Temperature setting is possible by button operation. The set temperature is conveniently displayed on the LED.

Floor standing type (Standard accessory)



- | | |
|----------------------|-----------------------------|
| 1 On/Off button | 6 LED display |
| 2 Fan button | 7 Compressor operation lamp |
| 3 Temp. setting up | 8 Fan operation lamp |
| 4 Temp. setting down | 9 Cool operation lamp |
| 5 Mode button | |

Note 1: It cannot be used for FVPGR10-20NY1

Duct type (Optional accessory)



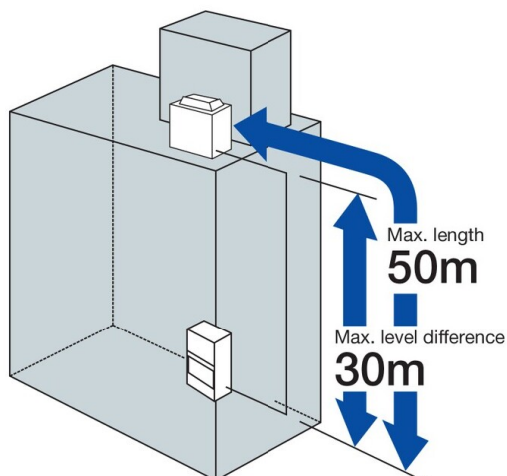
- | | |
|-----------------------|-------------------------------|
| 1 Power | 6 Fan indicator lamp |
| 2 Temperature scale | 7 Cool indicator lamp |
| 3 Temperature setting | 8 Compressor 2 indicator lamp |
| 4 Mode setting | 9 Compressor 1 indicator lamp |
| 5 Next setting | 10 Temperature sensor |

Design Flexibility

Designed for long refrigerant piping

50m maximum length and 30m maximum level difference to cover medium and large-scale building needs.

Outdoor unit roof installation possible for plenty of leeway



Refrigerant pre-charged for upto 7.5 metres

Allowable refrigerant pipe length and level difference

	Pre-charged ¹	Max. length	Max. level difference
RUR05NY1-20NY1	7.5 m	50 m (Equivalent length 70 m)	30 m

Note 1: Additional refrigerant charging is required if the refrigerant pipe is longer than the indicated length.

4-direction piping affords more freedom of layout (Applies to RUR05N/06N)

Piping can be run from the front, bottom, right or rear surface according to how the unit is installed.

In case of RUR08–20N, piping can be drawn out in two directions - front and under side.

Durability

Heat exchange fins provided with anti-corrosion treatment (Applies to all outdoor units)

To achieve increased durability by improved resistance to salt corrosion and atmospheric pollution, coated PE fins (with special acryl pretreatment) are used for the heat exchanger of the outdoor unit.

Space Savings

Installation space is saved, thanks to a more compact outdoor unit. This also makes it easier to install.



► Previous 20HP outdoor unit
RUG10AU1 X 2



► New RUR20NY1 (20HP)

53%

Space saved compared to previous model

Air-Cooled (Rooftop)

AIR CONDITIONERS - The Comfort with Higher Efficiency.

Rooftop

R-410A



▶ UATQ60/90/120/150/300
180/240CGXY1 (Cooling Only)

▶ UATYQ250/350/450/550/
600/700MCY1 (Heat Pump)

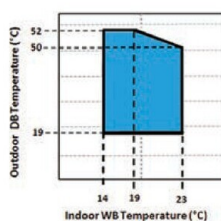
▶ With optional economiser kit*

Package Unit

Daikin's new range of rooftop packaged units has been developed specifically to suit commercial applications and are designed to be easy to install, requiring only ducting (and associated fittings), power/control wiring and drain piping. Along with the light grey colour, the flat top and compact design gives an aesthetic and neat appearance when installed in line of sight. The unit cabinet is made of powder coated sheet metal especially suitable for outdoor use. All parts of the structure are fastened with corrosion resistant screws and bolts.

High Operating Range

Designed for high ambient application. Continuous operation at an outdoor ambient temperature up to 52°C.



Flexible Air Supply utilising Variable Pitch Pulley

Utilising the Variable Pitch Pulley (VPP) driven supply fan, VPP can be adjusted on site to meet a wide range of required air flow and ESP without the need to change the pulley and belt.



Convertible Return and Supply Air*

Unit can be easily converted from horizontal to vertical (downward) supply and return air duct configuration by relocating the panels and supply air fan mounting.

Scroll Compressor

Units are equipped with high efficiency and reliable scroll compressors. Each compressor is mounted on rubber vibration isolators in order to reduce the noise level and vibration transmissions.

Powder Coated Condensate Drain Pan

The sheet metal condensate drain pan is powder coated to resist corrosion.

Slots for 2 Inch Return Air Filters

A 2 inch rail is provided as standard in instances where a field supplied filter casement needs to be installed.

Higher Energy Efficiency Rating

The UATQ-C series is designed to achieve high energy savings. Its performance is claimed to be among the best in the market.

*Selected models (Refer data book)

Standard Handset

User friendly wired remote controller for UATQ-C series with following functions:

- 7 days programmable timer (on/off)
- Compressor running display
- Real time clock
- Key lock function
- Energy saving mode
- Error code display



Rooftop Panel for UATYQ - MCY1 series comprises all starting, operating and safety controls setting.

- 7 days programmable timer with 3 set of ON/OFF, timer/day
- Dirty filter indication
- Alarm & Warning diagnostic
- Password protection for advanced setting



Component Features

1 Condenser Fan and Motor

Fans are of propeller type, direct driven by weatherproof electrical induction motors. Condenser fan motor has class F insulation and splash-proof enclosure of up to IP55*.

- UATQ60/90/120/150/180/210/240/300CGXY1: IP55
- UATYQ600/700MCY1: IP55
- UATYQ250/350/450/550MCY1: IP44

2 Condenser

Condenser coils are manufactured from seamless inner grooved copper tubes mechanically bonded to Aluminium fins to ensure optimum heat transfer. All coils are tested against by Nitrogen holding at 609psig and highly precise Helium leak test at 235psig. All standard coils are up to 3 rows/14-16 FPI, 3/8" (9.52mm) O.D. tubes.

UltraGold Fin is offered as standard (1000hrs Salt Spray Tested), which has longer life span under corrosive environment.



3 Casing / Structure

The unit casing used in UATQ-C & UATYQ-MCY1 series is made of zinc coated galvanized steel sheets. It is further coated with an electrostatic powder coat and then oven-baked for a tough and lasting weather resistant finish. Zinc plated screws are used throughout to further reduce possibility of unit rusting.

4 Evaporator

Evaporator coils are manufactured from seamless inner grooved copper tubes mechanically bonded to aluminium fins to ensure optimum heat transfer. All coils are tested against by Nitrogen holding at 609psig and highly precise Helium leak test at 235psig. All standard coils are 3-4 rows/14-16 FPI, 3/8" (9.52mm) O.D. tubes.

UltraGold Fin is offered as standard (1000hrs Salt Spray Tested), which has longer life span under corrosive environment.

5 Insulation

All possible areas of condensation are insulated by PE, Polythelene. Panel insulation is 10mm thick while drain pan insulation is 5mm thick.

6 Evaporator Fan and Drive

Blower is DWDI centrifugal, forward curved type. It is mechanically and dynamically balanced and mounted on a rigid shaft in a self aligned bearing

block. The motor is fitted with an adjustable V-belt drive as standard. It has class B insulation and dripping water proof, IP22.

7 Expansion Device

Electronic Expansion Valve is used to ensure accurate control of refrigerant flow.

8 Compressor

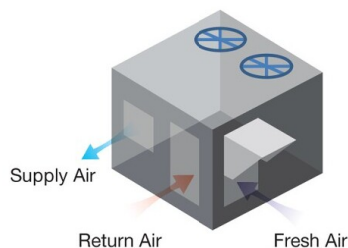
Compressor used in UATQ-C & UATYQ-MCY1 Series Packaged Units are hermetically sealed scroll type. All the compressors are provided with an internal overload protection.

9 Refrigerant Circuit

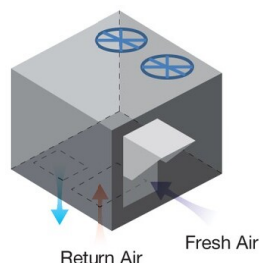
Each refrigerant circuit have independent electronic expansion devices, HP/LP switch and refrigerant line service pressure ports as standard factory HP/LP switch and refrigerant line service pressure ports as standard factory installed.

Economiser*

Economiser is available as an option to cater for horizontal or vertical air discharge/return.



► Horizontal Discharge / Return



► Vertical Discharge / Return

Optional Features

3rd Party Thermostat*

For application that requires uniform thermostat outlook with other electrical appliances. 3rd Party thermostat can be connected to the factory supplied module via the contact point available on the PCB board.

Basic BMS Connection

Unit's standard PCB board provides dry contact for basic BMS connection. Input signal will go to dry contact ON/OFF, COOL/HEAT and 4 to 20 mA temperature adjuster while output signal will come from ON/OFF, COOL/HEAT, ALARM and DEFROST dry contact.

CO₂ Sensor*

Field specified CO₂ sensor can be easily plugged on the control board's dry contact, which is available on the economiser extension board.

Auxiliary Heater*

Auxiliary heater connection point is available on the standard PCB for field supplied heater connection.

*Combination possible only with R-410A Heat Pump rooftop unit

Horizontal Water Source Heat Pump



► MWH-D

Energy saving and environmental protection

Pioneer of Environmental Protection

Water source heat pump MWH-D series use environmental refrigerant R410A. R410A is higher volumetric capacity, w/o element of Cl, improving the efficiency, not destroying the ozone layer.

Refrigerant	ODP	Temperature slip	Volumetric capacity	Efficiency
R410A	0	0.5	141	100
R407C	0	4.4	95	98
R22	0.05	0	100	100

Notes: ■ ODP is a relative value of R11
■ Volumetric capacity and efficiency are relative value of R22

High Efficiency and Energy Saving

At present, McQuay measures ACOP instead of COP to identify water source heat pump efficiency. ACOP is Integrated cooling and heating Coefficient of Performance for the whole year. The highest ACOP is 4.94, for MWH060DRP, which is higher beyond national standard (GB) 4.55.

$$ACOP = 0.56 \cdot EER + 0.44 \cdot COP$$

EER = cooling capacity/cooling input power,
COP = heating capacity/heating input power.

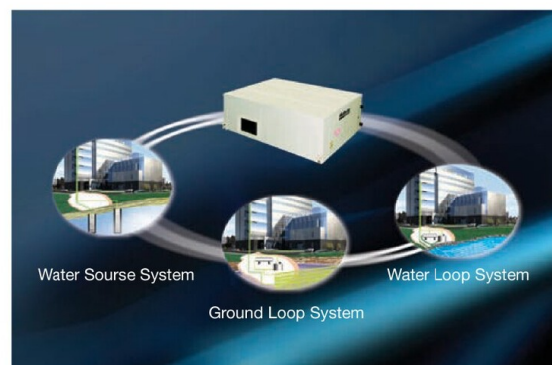


► This test room is Nationally Recognized Testing Laboratory

Reproducible Energy Sources

The MWH-D series take use of ground water, surface water, ground and other resource which include low-quality energy which is renewable energy sources.

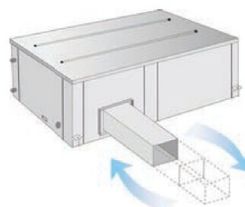
The unit can be applied to water loop system, water source system, ground water system or other water system due to wide-range working condition.



Flexible application

Flexibility in Static Pressure Selection

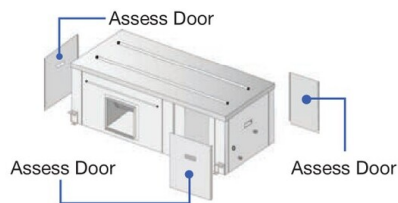
McQuay MWH-D series (1HP-7HP) take use of high-performance fan motor. For 8HP-15HP units, 4 types of ESP option is provided to meet air supply requirement.



► 1HP~7HP

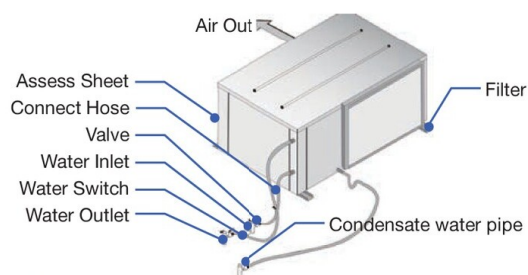
Easy Maintenance

MWH-D series are designed with assess doors and knobs in three directions, which is easier for service engineers to change parts on site.



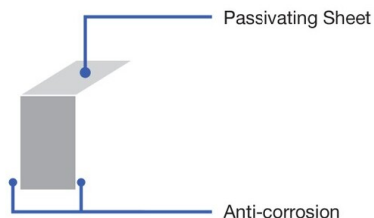
Convenient Installation

MWH-D series have charged refrigerant R410A before shipment. Customers only need to wiring, install water pipes and air ducts on job site. So installation cost is highly reduced.



With full accessories

Standard MWH-D series come along with accessories including: wired controller, 8m communication cable, moldproof air filter and waterpipe joint and rubber isolator make installtion more convenient and easier.



Safety & Reliability

Multiple Protections

MWH-D series are designed with multiple protections: the high and low pressure protection, water leakage protection and circulating water temperature protection. The wired controller is installed with sound, light and code alarm, which feedback fault information fastly to make sure formal operation.



No Refrigerant Liquid Attack

MWH-D series are designed with liquid accumulator which can store redundant refrigerant when operation condition changes so that to prevent compressor from liquid attack.



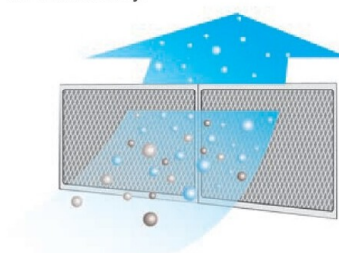
Scroll



Liquid Accumulator

Superior IAQ

MWH-D series standard filters are washable to ensure the coil clean and run efficiently, to provide clean indoor air continuously.



Intelligent Control System

Intelligent Control System

MWH-D series adapt various ways of control, including standard wired controller(MC322) and other options, for example: wireless remote card controller, central controller (max to 64 units), Smart Commander and supporting BMS system under Modbus.



▶ Wired Controller (MC322+8m wiring) (Standard)



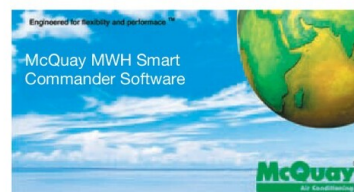
▶ Wireless Card Type (Optional)



▶ Centralized Controller (Optional)



Modbus (Optional)

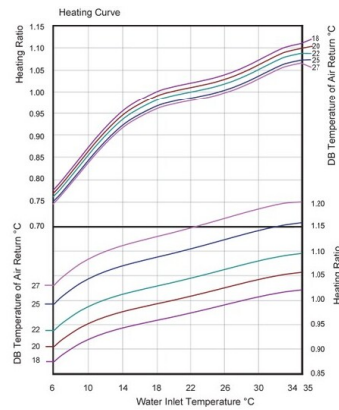
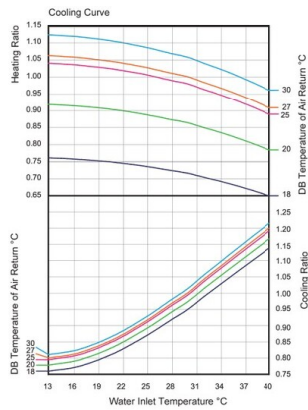


▶ Smart Commander Software (Optional)

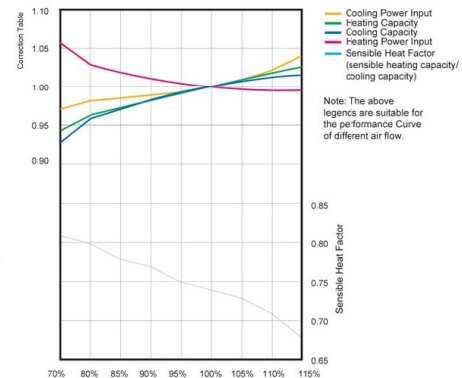
Note: For above option, please contact factory in advance

Performance Curve

Different Conditions



Different Air Flow



Note: The performance curve of different conditions is tested on normal water flow.

Correction Table of Water Temperature Difference

Water Inlet/Outlet Temperature Difference	10	9	8	7	6	5	4
Water Flow	0.500	0.560	0.620	0.720	0.840	1.000	1.130
Cooling Capacity	0.986	0.990	0.994	0.997	0.999	1.000	1.001
Heating Capacity	0.978	0.984	0.990	0.997	1.001	1.000	0.994
Cooling Power Input	1.043	1.034	1.025	1.016	1.008	1.000	0.989
Heating Power Input	0.989	0.992	0.994	0.996	0.998	1.000	1.004

Note: specification is based on 30°C water inlet temperature, 27°C (DB) air return temperature.

Operating Range

Operating Range	Cooling	Heating
Indoor Air DB Temperature	16—35°C	10—30°C
Cooling Capacity	13—40°C	6—35°C

Note: If the units run beyond above operating limit, it may cause damage to the units.

Specifications

HIGH STATIC DUCT TYPE (Cooling only)

R-410A

				5.5TR		8.5TR		11.0 TR		10.8 TR		16.5 TR			
Model				Indoor Unit		FDR65FRV 16		FDR100FRV 16		FDR130FRV 16		FDR130FRV 162		FDR200FRY 16	
				Outdoor Unit		RR65FRY 16		FDR100FRY 16		RR130FRY 16		RR65FRY 16(2Nos)		RR100FRY 16(2Nos)	
Nominal Cooling Capacity					Btu/ Hr	66000		102000		132000		129600		198000	
					KW	19.3		29.9		38.7		38		58	
Actual Capacity					%	Minimum 90% of Nominal Capacity									
Nominal Total Input Power (Cooling)					W	6400		11000		14600		13000		21600	
Running Current					A	11		19		23		22		38	
Power Source					V/Ph/ Hz	415/3/50									
Refrigerant Type					---	R-410A									
INDOOR UNIT	Control		Operation		---	Wired Control									
	Air Flow	High		cfm	2200	3400		4400		4400		6600			
		Medium		cfm	2045	3100		3850		3850		5800			
		Low		cfm	1890	2800		3330		3330		5000			
	Static Pressure		High		Pa	50	50		60		60		80		
	Sound Pressure Level (H)			dBA	51	52		54		54		59			
	Unit Dimension		Height x Width x Depth	mm	450x1170 x700	450x1660 x700		470x1700 x940		470x1700 x940		590x1885 x1145			
	Packing Dimension		Height x Width x Depth	mm	465x1370 x720	585x1880 x740		620x1930 x990		620x1930 x990		755x2130 x1250			
	Unit Weight			kg	60	95		125		130		175			
	Condensate Drain Size			mm	40.5										
OUTDOOR	Unit Dimesion		Height x Width x Depth	mm	930x1025 x410	930x1200 x550		930x1650 x620		930x1025 x410		930x1200 x550			
	Packing Dimension		Height x Width x Depth	mm	1080x1170 x470	1080x1350 x620		1088x1846 x720		1080x1170 x470		1080x1350 x620			
	Unit Weight			kg	96	147		173		96		147			
	Pipe Connection	Type		---	Liquid (Flared) & Gas (Brazed)										
		Size	Liquid	mm	12.7	12.7		15.9		12.7		12.7			
			Gas	mm	22.2	28.6		28.6		22.2		28.6			
Refrigerant Pre-Charged (At 7.5m Pipe Length)				kg	4.4	5.7		8		2X4.4		2X5.9*			

Note: ■ All specifications are subject to change by the manufacturer without prior notice.

■ Cooling capacity is based on the conditions below:

Cooling - 27°C DB / 19°C WB indoor and 35°C DB outdoor.

■ Refrigerant (R-410) is pre-charged at factory shipment (Outdoor Unit).

Specifications

HIGH STATIC DUCT TYPE (Cooling only)

R-22

Model					5.5 TR		8.5 TR		11.0 TR		16.7 TR		20.8 TR		29.2 TR		41.7 TR		
			Indoor unit		FD65DSV16		FD100DSV16		FD130DSV16		FD200DSY16		FD250B2Y1M		FD350B3Y1M		FD500B4Y1M		
			Outdoor unit		R65DSY16		R100DSY16		R130DSY16		R100DSY16x2		R130DSY 16x2 Nos		R100DSY 16x1 Nos R130DSY 16x2 Nos		R130DSY 16x4 Nos		
Capacity			Btu/h	66000	102000		132000		200000		250000		350000		500000				
			kW	19.34	29.9		38.7		58.6		73.27		102.58		146.53				
Total Input Power			W	6450	9500		13000		19510		25568		36783		51720				
Running Current			A	11	17		22		33		44.4		62.9		89.7				
Power Source			V/Ph/Hz	415 / 3 / 50															
Refrigerant Type				R-22															
INDOOR UNIT	Control		Operation	LCD Wired Controller															
	Air Flow	High	cfm	2200	3400	4400	6600	8000	10500	15000									
		Medium	cfm	2045	3100	3850	5800	-	-	-									
		Low	cfm	1890	2800	3330	5000	-	-	-									
		High	Pa	50	50	60	80	200	343	250									
	Sound Pressure Level		dBA	53	53	57	59	63	66	68									
	Unit Dimension	Height	mm	450	450	470	590	855	1486	1486									
		Width	mm	1170	1560	1700	1885	1794	2022	2174									
		Depth	mm	700	700	940	1145	850	1069	1336									
	Packing Dimension	Height	mm	465	585	620	755	1154	1766	1766									
		Width	mm	1370	1780	1930	2130	2052	2279	2431									
		Depth	mm	720	740	990	1250	1188	1422	1684									
	Unit Weight		kg	60	90	128	175	343	440	606									
	Condensate Drain Size		mm	40.5							25.4	25.4	25.4						
INDOOR UNIT	Unit Dimension		Height	mm	930														
			Width	mm	1025	1200	1650	1200	1650	*1200/1650	1650								
			Depth	mm	410	550	620	550	620	*550/620	620								
	Packing Dimension	Height	mm	1080	1080	1088	1080	1088	*1080/1088	1088									
		Width	mm	1170	1350	1846	1350	1846	*1350/1846	1846									
		Depth	mm	470	620	720	620	720	*620/720	720									
	Unit Weight		kg	95	144	160	144	160	*144/160	160									
	Pipe Connection	Type		Braze															
		Size	Liquid	mm	12.7	12.7	15.8	12.7	15.8	*12.7/15.3	15.8								
			Gas	mm	22.4	28.58	34.92	28.58	34.92	*28.58/34.92	34.92								
Refrigerant Pre-Charged (At 7.5m Pipe Length)			kg	4.2	6	8.7	6.0 (x2)	8.7	*6/8.7	8.7									

Note: ■ All specifications are subject to change by the manufacturer without prior notice.

■ Cooling capacity is based on the conditions below:

Cooling - 27°C DB / 19°C WB indoor and 35°C DB outdoor.

■ Refrigerant (R-22) is pre-charged at factory shipment (Outdoor Unit).

*Given value is for 2 Nos ODU as per ODU model details mentioned above.

FLOOR STANDING TYPE (Cooling only) - Direct Air Blow Type

R-410A

Model			4.2 TR				5.0 TR		6.7 TR		8.3 TR		
			Indoor unit			FVGR05NV1		FVGR06NV1		FVGR08NV1		FVGR10NV1	
			Outdoor unit			RUR05NY1		RUR06NY1		RUR08NY1		RUR10NY1	
Power supply			380-415 V, 50 Hz, 3 Phase, 4 Wires										
Cooling capacity 1,3			kW	14.7	17.6	23.5	29.3						
			Btu/h	50000	60000	80000	100000						
			kcal/h	12600	15100	20200	25200						
Power consumption 1			kW	5.5	6.4	8.6	11.2						
Running current			A	9	10.4	14.4	18.9						
Starting current			A	72.7	80.9	118.2	135						
Power factor			%	88.2	88.8	85.9	85.5						
INDOOR UNIT	Colour		Ivory White										
	Air flow rate (H)		m3/min	42	42	54	80						
			cfm	1480	1480	1910	2830						
	Fan	Drive	Direct Drive 3 Speed										
	Sound level (H/M/L) 2		dBA	59/54/50	59/54/50	60/56/51	61/57/52						
	Dimensions (HxWxD)		mm	1,870x750x510	1,870x750x510	1,870x950x510	1,870x1,170x510						
	Machine weight		kg	90	90	107	143						
	Operation range		°CWB	14 to 25									
OUTDOOR UNIT	Colour		Ivory White										
	Compressor	Type	Hermetically sealed scroll type										
		Motor output	kW	4.5	4.5	6.7	9						
	Refrigerant oil	Model	Refer to the name plate of compressor										
		Charge	L	1.4	1.8	3.3	3.3						
	Refrigerant charge (R-410A)		kg	2.5 (Charged for 7.5 m)	3.5 (Charged for 7.5 m)	4.5 (Charged for 7.5 m)	6.0 (Charged for 7.5 m)						
	Sound level 2	380V	dBA	59	59	60	61						
		415V	dBA	60	60	61	62						
	Dimensions (HxWxD)		mm	1,345x900x320			1,680x930x765						
	Machine weight		kg	92	105	203	206						
Operation range		°CDB	21 to 46										
REFRIGERANT PIPING	Indoor Unit	Liquid	mm	Ø9.5 (Brazing)	Ø9.5 (Brazing)	Ø12.7 (Brazing)	Ø12.7 (Brazing)						
		Gas	mm	Ø19.1 (Brazing)	Ø19.1 (Brazing)	Ø22.2 (Brazing)	Ø28.6 (Brazing)						
		Drain	mm	PS 1B Internal thread									
	Outdoor Unit	Liquid	mm	Ø9.5 (Flare)	Ø9.5 (Flare)	Ø12.7 (Flare)	Ø12.7 (Flare)						
		Gas	mm	Ø19.1 (Flare)	Ø19.1 (Flare)	Ø22.2 (Brazing)	Ø28.6 (Brazing)						
		Drain	mm	Ø26.0 (Hole)	Ø26.0 (Hole)	-	-						
Max. interunit piping length			m	50 (equivalent length 70 m)									
Max. installation level difference			m	30									

- Note: 1. Rated cooling capacities are based on the following conditions: Return air temp., 27°CDB, 19.5°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping, 5 m (horizontal).
2. Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
3. Capacity includes indoor fan motor heat.

Specifications

FLOOR STANDING TYPE (Cooling only) - Duct Connection Type

R-410A

Model				8.3 TR	10 TR	13.3 TR	15.0 TR	16.7 TR
			Indoor unit	FVPGR10NY1	FVPGR13NY1	FVPGR15NY1	FVPGR18NY1	FVPGR20NY1
			Outdoor unit	RUR10NY1	RUR13NY1	RUR15NY1	RUR18NY1	RUR20NY1
Power supply				380-415 V, 50 Hz, 3 Phase, 4 Wires				
Cooling capacity 1,3			kW	29.3	35.2	46.9	52.8	58.6
			Btu/h	100000	120000	160000	180000	200000
			kcal/h	25200	30200	40300	45400	50400
Running current			A	19.2	24.3	29	34.6	40.4
Power consumption 1			kW	11.4	14.9	17.8	21.2	24.8
Starting current			A	129.5	118	130.3	143.4	146.3
Power factor			%	85.7	88.5	88.6	88.4	88.6
INDOOR UNIT	Colour			Ivory White				
	Air flow rate (H)		m3/min	80	120	120	162	162
			cfm	2830	4240	4240	5720	5720
	Fan	Drive		Belt Drive				
		Ext. Static Pressure	(mmH2O)	15				
	Sound level 2		dBA	61	62	62	63	63
	Dimensions (HxWxD)		mm	1,740x1,170x510	1,870x1,170x720	1,870x1,170x720	1,870x1,470x720	1,870x1,470x720
	Machine weight		kg	150	180	180	240	240
	Operation range		°CWB	14 to 25				
OUTDOOR UNIT	Colour			Ivory White				
	Compressor	Type		Hermetically sealed scroll type				
		Motor output	kW	9	5.0+5.0	6.7+6.7	7.5+7.5	9.0+9.0
	Refrigerant oil	Model		Refer to the name plate of compressor				
		Charge	L	3.3	5	6.5	6.5	6.5
	Refrigerant charge (R-410A)		kg	6.0 (Charged for 7.5 m)	4.5 (Charged for 7.5 m)	8.0 (Charged for 7.5 m)	8.0 (Charged for 7.5 m)	8.0 (Charged for 7.5 m)
	Sound level 2	380V	dBA	61	61	62	63	63
		415V	dBA	62	62	63	64	64
	Dimensions (HxWxD)		mm	1,680x930x765	1,680x1,240x765	1,680x1,240x765	1,680x1,240x765	1,680x1,240x765
	Machine weight		kg	206	243	319	322	329
	Operation range		°CDB	21 to 46				
REFRIGERANT PIPING	Indoor Unit	Liquid	mm	Ø12.7 (Brazing)	Ø12.7 (Brazing)	15.9 (Brazing)	15.9 (Brazing)	15.9 (Brazing)
		Gas	mm	Ø28.6 (Brazing)	Ø28.6 (Brazing)	34.9 (Brazing)	34.9 (Brazing)	34.9 (Brazing)
		Drain	mm	PS 1B Internal thread				
	Outdoor Unit	Liquid	mm	Ø12.7 (Flare)	Ø12.7 (Flare)	Ø15.9 (Flare)	Ø15.9 (Flare)	Ø15.9 (Flare)
		Gas	mm	Ø28.6 (Brazing)	Ø28.6 (Brazing)	Ø34.9 (Brazing)	Ø34.9 (Brazing)	Ø34.9 (Brazing)
		Drain	mm	-				
Max. interunit piping length			m	50 (equivalent length 70 m)				
Max. installation level difference			m	30				

- Note: 1. Rated cooling capacities are based on the following conditions: Return air temp., 27°CDB, 19.5°CWB; outdoor temp. 35°CDB. Equiv. refrigeration piping, 5 m (horizontal).
2. Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.
3. Capacity includes indoor fan motor heat.

ROOFTOP SERIES (Cooling only)

R-410A

Model		5.2 TR	7.8 TR	10.4 TR	12.9 TR	15.8	18.3	20.7	26.0
		UATQ60C	UATQ90C	UATQ1 20C	UATQ150C	UATQ1 80C	UATQ240C	UATQ240C	UATQ300C
Rated Capacity	Btu	62,500	93,400	1,24,500	1,54,400	1,89,000	2,20,000	2,48,600	3,12,200
	kW	18.32	27.37	36.49	45.25	55.39	64.48	72.86	91.5
Total Power Input	kW	4.52	7.20	9.45	12.00	14.72	16.90	19.29	24.52
Total Running Current	A	8.20	13.50	17.00	24.10	27.20	33.90	38.70	46.00
COP	W/W	4.05	3.80	3.86	3.77	3.76	3.82	3.78	3.73
Power Source	V/Ph/Hz	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50	380-415V/3/50
Control Operation		Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	Wired Control	Wired Control
Air Flow	cfm	2000	2800	4400	5000	7000	7600	8000	9000
External Static Pressure (Factory Setting)*	Pa	50-500(100)	50-500(100)	50-500(100)	50-500(150)	50-500(150)	50-500(200)	50-500(200)	50-500(250)
Fan Drive		Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven	Belt Driven
Air Quality(Filter)	Type	Saranet	Saranet	Saranet	Saranet	Saranet	Saranet	Saranet	Saranet
	Qty	1	1	2	2	2	2	2	2
Unit Dimension (HxWxD)	mm	1150 x 1280 x 1520	1350 x 1280 x 1520	1390 x 1965 x 1630	1390 x 1965 x 1630	1690 x 1965 x 1905	1650 x 2410 x 2030	1650 x 2410 x 2030	1950 x 2410 x 2030
Packing Dimension (HxWxD)	mm	1270 x 1320 x 1710	1410 x 1320 x 1710	1440 x 2020 x 1840	1440 x 2020 x 1840	1730 x 2120 x 2020	1740 x 2570 x 2290	1740 x 2570 x 2290	2040 x 2570 x 2290
Unit Weight	Kg	350	380	590	650	840	930	940	1090
Gross Weight	Kg	370	400	620	680	870	970	980	1130
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Qty	1	1	2	2	2	2	2	2
Refrigerant (PreCharged)	Kg	9.5	11.5	5.2 + 5.2	8.5 + 8.5	8.5 + 8.5	12.0 + 12.0	10.8 + 10.8	14.0 + 14.0
Operating Range	CDB	up to 52°C	up to 52°C	up to 52°C	up to 52°C	up to 52°C	up to 52°C	up to 52°C	up to 52°C

Note: 1. Gross Cooling Capacity Based on 27°C DB / 19°C WB Indoor and 35°C DB outdoor
 2. All Units are being tested and Comply to ISO 5151 (Non-Ducted Unit) or ISO 13253 (Ducted Unit)
 3. All specifications are Subjected to Change by the manufacturer without prior notice

ROOFTOP SERIES (Heat Pump)

R-410A

Model			7.8 TR	10.1 TR	12.7 TR	15.8 TR	19.0 TR	20.6 TR	
			UATYQ250MCIY19	UATYQ350MCIY1	UATYQ450MCIY1	UATYQ550MCIY1	UATYQ600MCIY1	UATYQ700MCIY1	
Nominal Cooling Capacity (Gross)		Btu/h	93300	121400	152600	190000	228000	247700	
		W	27340	35580	44720	55690	66820	72600	
Nominal Heating Capacity (Nett)		Btu/h	85000	118700	142600	184000	210500	237500	
		W	24910	34790	41790	53930	61690	69610	
Power Source		V/Ph/Hz	380 -415 /3 /50		380 -415/3 /50		380 -415/3 /50		
Refrigerant Type / Control			R410A / EXV		R410A / EXV		R410A / EXV		
EER (Gross)		W/W	3.36	3.3	3.43	3.33	3.4	3.36	
COP (Net)		W/W	3.4	3.21	3.25	3.47	3.32	3.25	
EVAPORATOR	Sound Power Level @ 100 ESP	dBA	68	72	75	82	84	87	
	Sound Power Level @ Std ESP	dBA	73	76	80	84	84	90	
	Control	Air Discharge	Ducted						
		Operation	Wired						
	Air Flow	l/s/cfm	1560 / 3300	2030 / 4300	2670 / 5650	3160 / 6700	3445/7300	3917/8300	
	External Static Pressure	Pa/in.wg.	147 / 0.6	147 / 0.6	147 / 0.6	206 / 0.8	196 / 0.8	206 / 0.8	
	Condensate Drain Size	mm/in	25.4 / 1	25.4 / 1.0	25.4 / 1	25.4 / 1.0	25.4 / 1.0	25.4 / 1.0	
CONDENSER	Air Flow	l/s/cfm	3884 / 8230	5664 / 12000	5710 / 12100	6090 / 12900	9534 / 20200	10006 / 21200	
	Sound Power Level	dBA	82	83	83	87	90	90	
	Unit Dimension	Height	mm/in	1150 / 45.3	1028 / 40.5	1130 / 44.5	1048 / 41.3	1302 / 51.3	1454 / 57.3
		Width	mm/in	1638 / 64.5	2209 / 87.0	2209 / 87.0	2209 / 87.0	2209 / 87.0	2209 / 87.0
		Depth	mm/in	2063 / 81.2	2113 / 83.2	2113 / 83.2	2670 / 105.1	2670 / 105.1	2670 / 105.1
	Packing Dimension	Height	mm/in	1370 / 54	1200 / 47.3	1290 / 50.8	1270 / 50.0	1520 / 59.9	1670 / 65.8
		Width	mm/in	1730 / 68.2	2280 / 89.8	2280 / 89.8	2280 / 89.8	2280 / 89.8	2280 / 89.8
		Depth	mm/in	2300 / 90.6	2350 / 92.6	2350 / 92.6	2900 / 114.2	2900 / 114.2	2900 / 114.2
	Unit Weight (Net)	kg/lb	445 / 981	580 / 1278	610 / 1344	780 / 1720	830 / 1830	970 / 2139	
Refrigerant Pre-charged			6.1 / 13.4	(2 X 5.8) / (2 X 12.8)	(2 X 7.2) / (2 X 15.9)	(2 X 8.7) / (2 X 19.2)	(2 X 10.4) / (2 X 22.9)	(2 X 11.6) / (2 X 25.6)	

Note: All units are being tested and comply to ISO 5151 (Non-Ducted Unit) or ISO 13253 (Ducted Unit). Cooling indoor: 27°C dB / 19°C WB, outdoor: 35°C dB / 24°C WB; Heating indoor: 20°C dB, outdoor: 8°C dB / 6°C WB

* Also available in R-407 C

Specifications

HORIZONTAL WATER SOURCE HEAT PUMP

R-410A

Model			0.78 TR	1.49 TR	1.89 TR	2.48 TR	2.90 TR	3.55 TR
			MWH010DRP	MWH020DRP	MWH025DRP	MWH030DRP	MWH040DRP	MWH050DRP
Nominal Cooling Capacity	W		2750	5250	6650	8770	10200	12500
Nominal Heating Capacity	W		3270	6100	7100	9050	10250	13000
Air Flow Rate	m³/h		580	1050	1250	1700	1900	2300
Power Supply			220V~/50Hz					
ESP	Pa		20	30	30	30	50	50
Dimension (Length×Width×Height)	mm		895×520×375	1265×655×435	1265×705×435	1390×745×435	1450×795×460	1450×795×510
Condenser	Type		Tube in Tube Heat Exchanger					
	Water Flow Rate	m³/h	0.61	1.12	1.42	1.94	2.14	2.67
	Water Pressure Drop	kPa	13	34	60	40	40	60
	Water Pipe Connection		R3/4	R3/4	R3/4	R3/4	R3/4	R3/4
Compressor			Rotary					
Rated Power	Cooling	W	700	1220	1520	2230	2250	2850
	Heating	W	740	1280	1540	2050	2300	2780
Rated Current	Cooling	A	3.38	5.93	7.46	11.03	10.57	13.76
	Heating	A	3.45	5.95	7.54	10.17	10.77	13.43
Condensate Drain Pipe	mm		φ20					
Refrigerant	Type		R410A					
	Charge	kg	0.74	1.35	1.46	0.95×2	1.3×2	1.55×2
Sound Pressure Level	dB(A)		34	40	45	48	44	47
Weight	kg		56	101	103	125	155	161

R-410A

Model			4.55 TR		5.40 TR		6.98 TR		8.39 TR		9.48 TR		10.66 TR		
			MWH060DRP		MWH070DRP		MWH080DRP		MWH100DRP		MWH125DRP		MWH150DRP		
Nominal Cooling Capacity			W	16000		19000		25000		29500		33500		37500	
Nominal Heating Capacity			W	16200		21500		25000		31500		35500		45000	
Air Flow Rate			m³/h	2800		3400		5000		6000		7000		8000	
Power Supply				380V/3N/50Hz											
ESP			Pa	80		80		80(50/100/150)		100(80/150/200)		100(80/150/200)		150(100/200/250)	
Dimension (Length×Width×Height)			mm	1580×850×520		1670×855×520		1756×1000×660		1970×1150×708		1970×1150×708		2226×1200×736	
Condenser	Type		Tube in Tube Heat Exchanger												
	Water Flow Rate	m³/h	3.3		4.22		5.23		6.12		7.11		7.78		
	Water Pressure Drop	kPa	60		61		73		45		55		65		
	Water Pipe Connection		R3/4		R1		R1-1/4		R1-1/4		R1-1/4		Rc1-1/4		
Compressor				Scroll											
Rated Power	Cooling	W	3300		4900		5600		6300		8500		9450		
	Heating	W	3200		4800		5400		6400		8100		10300		
Rated Current	Cooling	A	5.91		8.63		11.45		13.68		15.89		17.78		
	Heating	A	5.83		8.41		11.11		13.87		14.46		18.89		
Condensate Drain Pipe			mm	φ20				φ34							
Refrigerant	Type		R410A												
	Charge	kg	3.5		2.8		3.5		3.2×2		3.0×2		3.7×2		
Sound Pressure Level			dB(A)	49		54		55		59		59		60	
Weight			kg	198		208		245		365		375		450	

Notes: ■ Specifications will be subjected to change by manufacturer without prior notice.

■ Cooling capacity is based on 27°C (DB), 19°C (WB) air inlet temperature and 30°C water inlet temperature, 35°C water outlet temperature.

■ Heating capacity is based on 20°C (DB), 15°C (WB) air inlet temperature and 20°C water inlet temperature.

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Contact Address

DAIKIN AIRCONDITIONING INDIA PVT. LTD.

12th Floor, Building No. 9
Tower A, DLF Cyber City
DLF Phase III, Gurgaon 122002
Haryana, India
Tel: 0124-4555444, Fax: 0124-4555333

Sales & Service Offices

Ahmedabad

Tel: 079-26583013/14

Bengaluru

Tel: 080-25590452/54

Bhubaneswar

Tel: 0674-2546476

Chandigarh

Tel: 0172-5089862/64

Chennai

Tel: 044-40807676

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Delhi NCR

Tel: 011-43834400/4500

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Tel: 0120-4205851

Indore

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Tel: 0141-2218903

Kolkata

Tel: 033-23574259/61

Lucknow

Tel: 0522-2787307/340

Ludhiana

Tel: 0161-5077028/29/30

Mumbai

Tel: 022-30926666

Patna

Tel: 0612-2522477

Pune

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Tel: 0747-1115412

Ranchi

Tel: 0763-5093703

Secunderabad

Tel: 040-49134283

Vijaywada

0866-2952224/25/26



Customer Contact Centre:

SMS: <DAIKIN> to 92 101 88 999

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Email: customerservice@daikinindia.com

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