



PCSID1913



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

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

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as an acidic or alkaline gas, are produced.
2. When installing outdoor units in coastal areas, be sure to contact your local distributor and avoid direct exposure of the units to sea breezes.

SkyAir

INVERTER

ROUND FLOW



AIR CONDITIONING SYSTEM
COOLING ONLY [50Hz]



Dealer

PT. DAIKIN AIRCONDITIONING INDONESIA

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Management System
ISO 9001:2015
www.tuv.com

DAIKIN CONTACT CENTER

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BEBAS PULSA

365 hari/tahun
Jam Beroperasi :
Senin - Jumat :
07:00 - 19:00 WIB
Sabtu - Minggu & Libur Nasional :
08:00 - 17:00 WIB

- **SERVICE AND SPARE PARTS :** Rempoa, Telp. : 021-736 92899 | Cirebon, Telp. : 0231-880 2760 | Samarinda, Telp. : 0541-252 2889 | Banjarmasin, Tlp. : 0511-326 8168
 - **TRAINING CENTER :** Sunter, Telp. : 021-6505028 • **BRANCH :** Bekasi, Telp. :021-294 50585 | Tangerang, Telp. : 021-531 41195 | Bandung, Telp. : 022-522 5150 | Semarang, Telp. : 024-7660 3221 | Yogyakarta, Telp. : 0274-551 321 | Surabaya, Telp. : 031-503 1138 | Denpasar, Telp. : 0361-900 5514 | Makassar, Telp. : 0411-8052 691 | Palembang, Telp. : 0711-573 2282 | Pekanbaru, Telp. : 0761-561 139 | Medan, Telp. : 061-4200 8866
- Daikin Contact Center : 0800 1 081 081 (Toll Free)**

Specifications, designs and other content appearing in this brochure are current as of February 2019 but subject to change without notice.

Designed for use in cafe and restaurants, retail shops and small offices.



























Daikin's SkyAir series delivers superior comfort and energy performance for both occupants and building owners.



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CEILING MOUNTED CASSETTE TYPE 〈Round Flow〉 ROUND FLOW				
	Indoor unit: FCFC40DVM4	Indoor unit: FCFC50DVM4	Indoor unit: FCFC60DVM4	Indoor unit: FCFC71DVM4
	Outdoor unit: RZFC40DVM4	Outdoor unit: RZFC50DVM4	Outdoor unit: RZFC60DVM4	Outdoor unit: RZFC71DVM4; RZFC71DY14
CEILING SUSPENDED TYPE				
	Indoor unit: FHFC40DV14	Indoor unit: FHFC50DV14	Indoor unit: FHFC60DV14	Indoor unit: FHFC71DV14
	Outdoor unit: RZFC40DVM4	Outdoor unit: RZFC50DVM4	Outdoor unit: RZFC60DVM4	Outdoor unit: RZFC71DVM4; RZFC71DY14
OUTDOOR UNIT				
	Outdoor unit: RZFC40DVM4	Outdoor unit: RZFC50DVM4	Outdoor unit: RZFC60DVM4	Outdoor unit: RZFC71DVM4; RZFC71DY14
	Power supply: 1 phase, 220-240 / 220-230V, 50 / 60Hz	Power supply: 1 phase, 220-240 / 220-230V, 50 / 60Hz	Power supply: 1 phase, 220-240 / 220-230V, 50 / 60Hz	Power supply: 1 phase, 220-240 / 220-230V, 50 / 60Hz; 3 phase, 380V, 50Hz

	85	100	125	140
				
	Indoor unit: FCFC85DVM4	Indoor unit: FCFC100DVM4	Indoor unit: FCFC125DVM4	Indoor unit: FCFC140DVM4
	Outdoor unit: RZFC85DVM4; RZFC85DY14	Outdoor unit: RZFC100DVM4; RZFC100DY14	Outdoor unit: RZFC125DY14	Outdoor unit: RZFC140DY14
				
	Indoor unit: FHFC85DV14	Indoor unit: FHFC100DV14	Indoor unit: FHFC125DV14	Indoor unit: FHFC140DV14
	Outdoor unit: RZFC85DVM4; RZFC85DY14	Outdoor unit: RZFC100DVM4; RZFC100DY14	Outdoor unit: RZFC125DY14	Outdoor unit: RZFC140DY14
				
	Outdoor unit: RZFC85DVM4; RZFC85DY14	Outdoor unit: RZFC100DVM4; RZFC100DY14	Outdoor unit: RZFC125DY14	Outdoor unit: RZFC140DY14
	Power supply: 1 phase, 220-240 / 220-230V, 50 / 60Hz; 3 phase, 380V, 50Hz	Power supply: 1 phase, 220-240 / 220-230V, 50 / 60Hz; 3 phase, 380V, 50Hz	Power supply: 3 phase, 380V, 50Hz	Power supply: 3 phase, 380V, 50Hz

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New Inverters launched



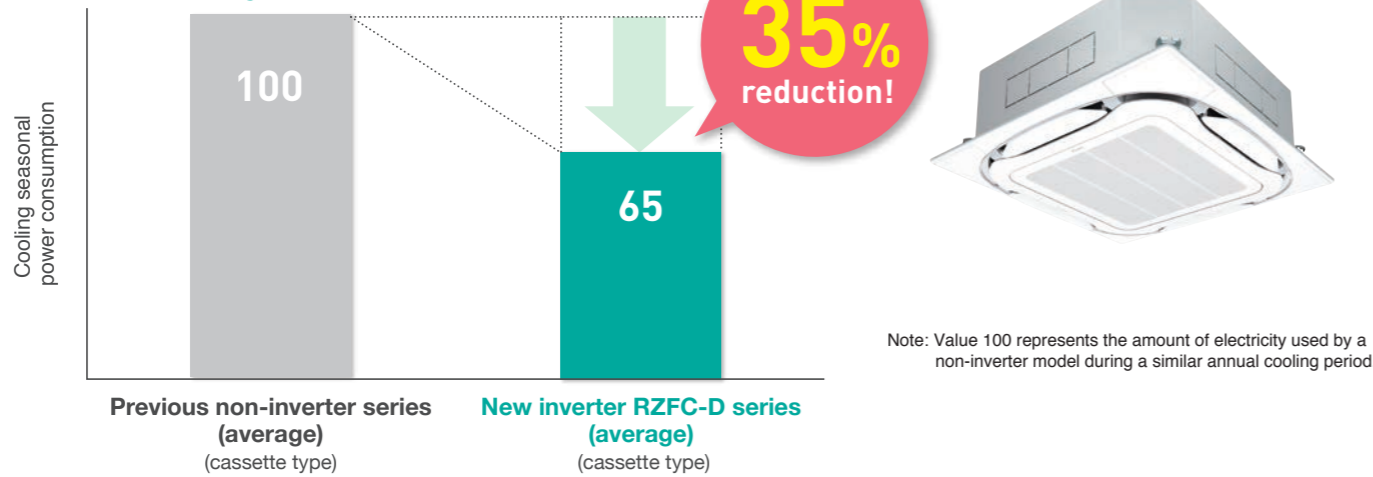
R-32 Cooling only

Energy Saving

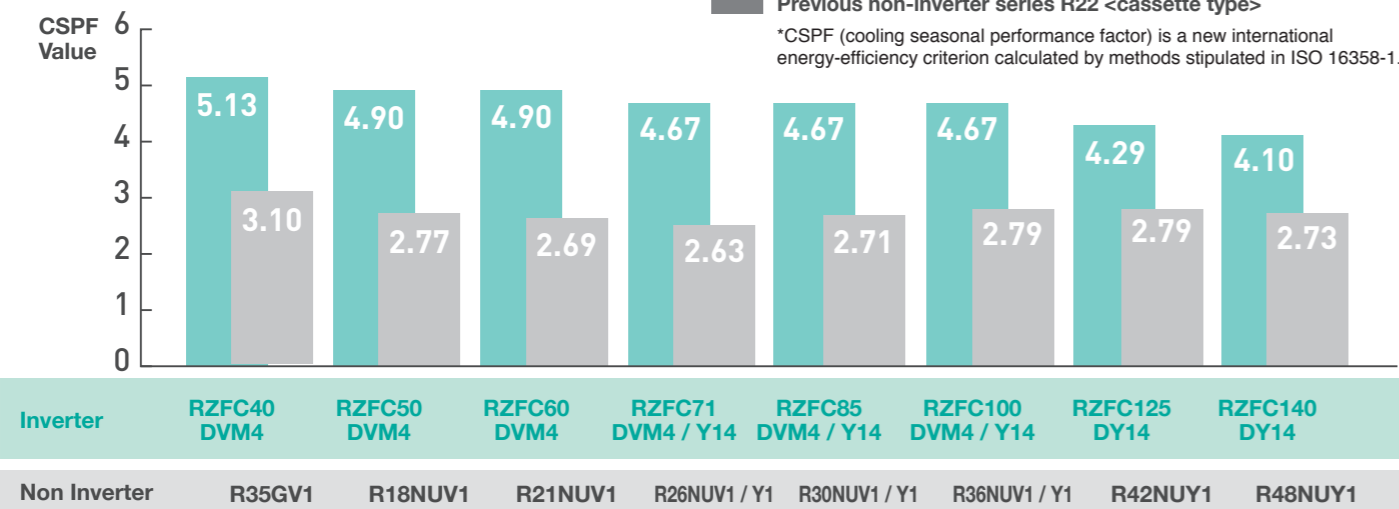
- Throughout the cooling season, Daikin's new inverter models reduce energy consumption

Compared with previous non-inverter series, the new RZFC-D series uses about 35% less power consumption for quick and effective cooling that reduces electricity bills.

- Comparison of cooling seasonal power consumption based on average CSPF values



- CSPF values by capacity for cassette models



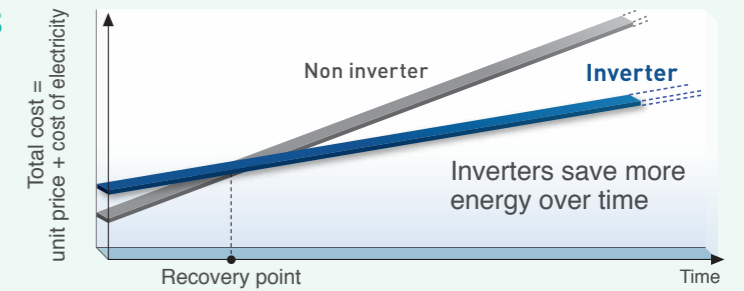
What is CSPF?

CSPF is the value for the annual total cooling load divided by the annual total power consumption at outdoor air conditions specified by ISO standard.

Benefits of Inverter

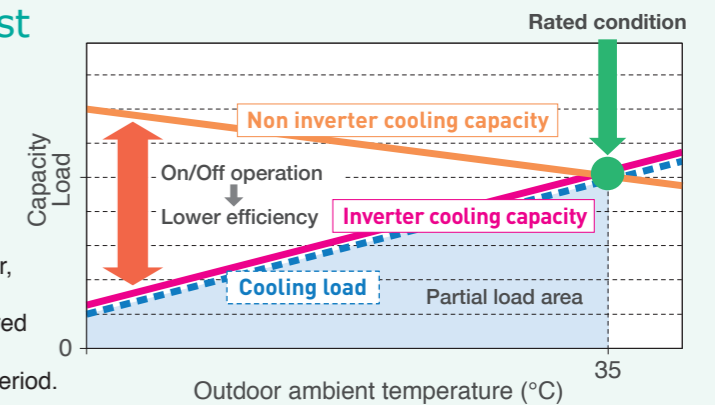
Why is inverter technology economical?

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



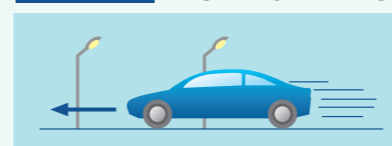
- Inverter air conditioner can adjust its cooling capacity according to the cooling load. This results in less power consumption.

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.



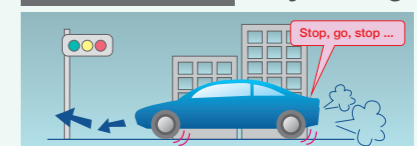
- Inverters operate without repeated ON/OFF operation.

Inverter Highway driving



Continuous driving without stopping and starting is more fuel efficient.

Non inverter City driving

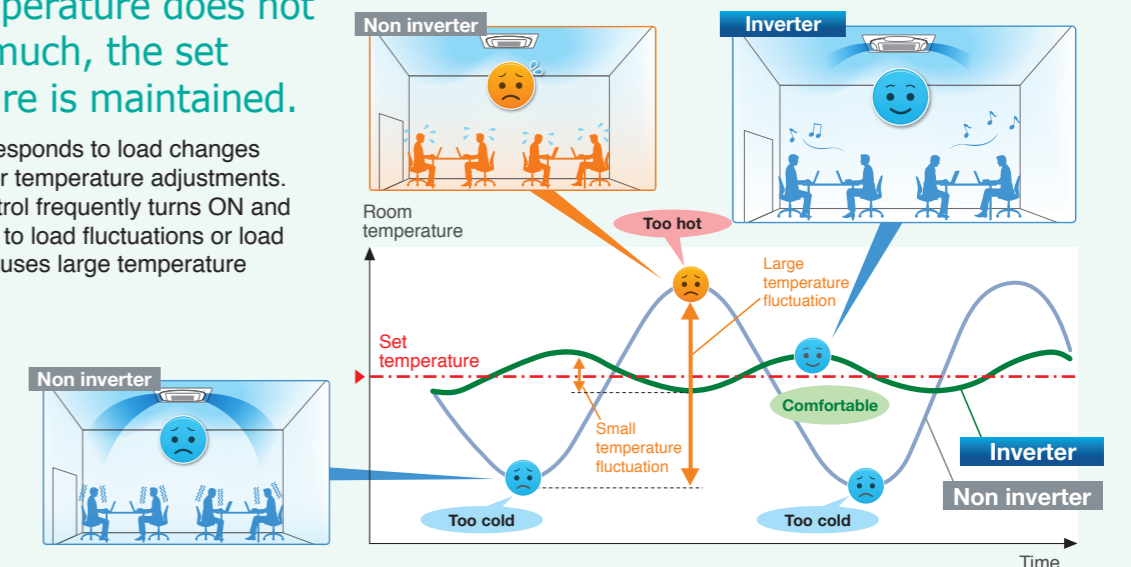


Constantly stopping and starting consumes energy and is less fuel efficient.

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.



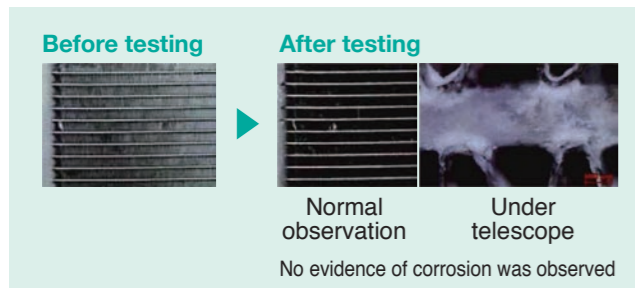
Durability

Microchannel heat exchanger

Microchannel technology utilises superior heat transfer benefits of aluminium to create a more efficient air conditioner. With a new resistance corrosion aluminium alloy, the Daikin microchannel heat exchanger becomes highly durable. A salt spray test has been conducted to demonstrate the corrosion-resistant capability of our products in corrosive environments for a certain period of time.

Test of durability

- Testing organization MTEC Thailand
- Testing standard ASTM B117
- Result



After undergoing an intensive test, the Daikin microchannel heat exchanger is able to maintain its shape without corrosion, which strongly confirms its durability in a highly corrosive environment.

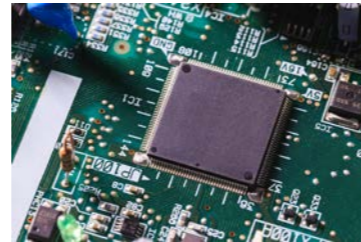
Please see a video of the Micro Channel Heat Exchanger test in Pattaya.

QR space



Coated printed circuit boards (outdoor unit)

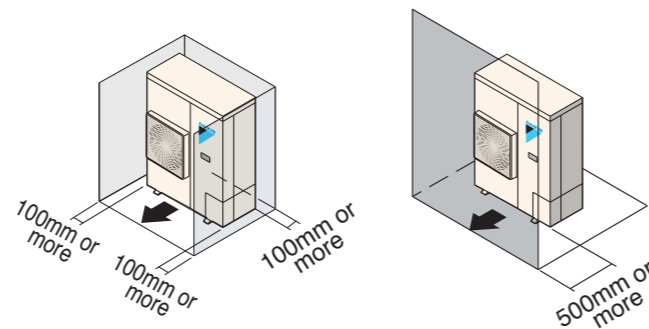
Coated circuit boards prevent problems caused by humidity and airborne dust. It also protects against salt contained in sea breezes. Both sides of the PCB in outdoor units are coated.



Automatic protection against low voltage

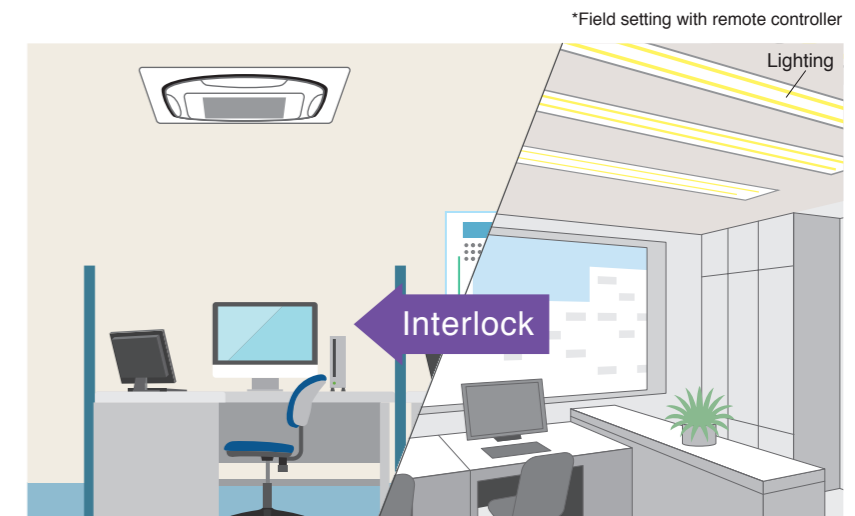
In AM and PM peak electricity consumption periods, supply may fluctuate. Built-in low-voltage protection will automatically cut operations. When normal voltage is restored, operation will resume as before.

Outdoor unit installation is possible even with limited space



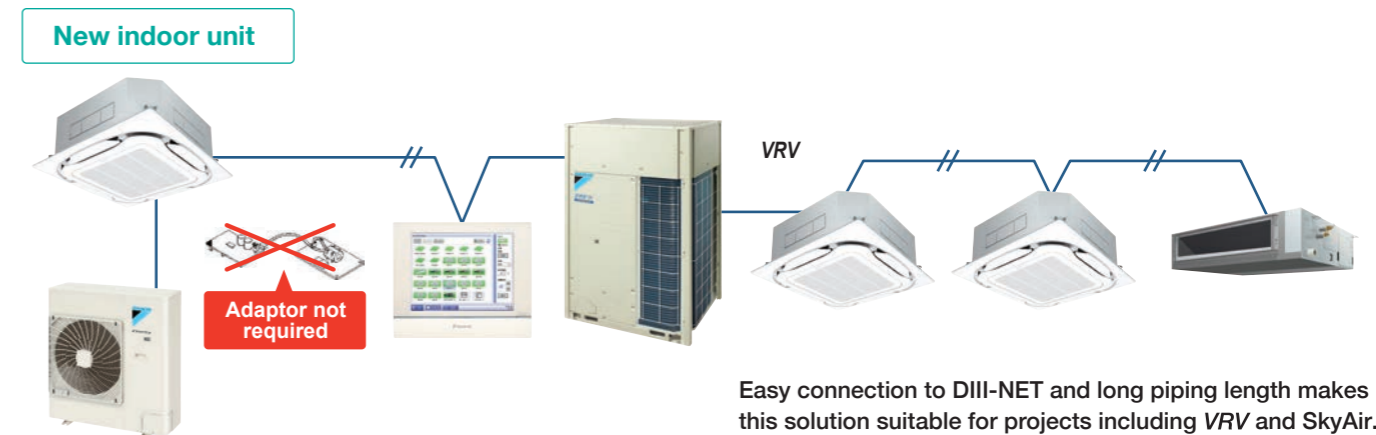
Design Flexibility

Possible to forced OFF and ON/OFF operation using external command



Indoor units (FCFC-D and FHFC100-140D) comply with DIII-Net standards

*FHFC40-85D requires optional adaptor to connect DIII-Net.



Easy connection to DIII-NET and long piping length makes this solution suitable for projects including VRV and SkyAir.



Smart Airflow Control

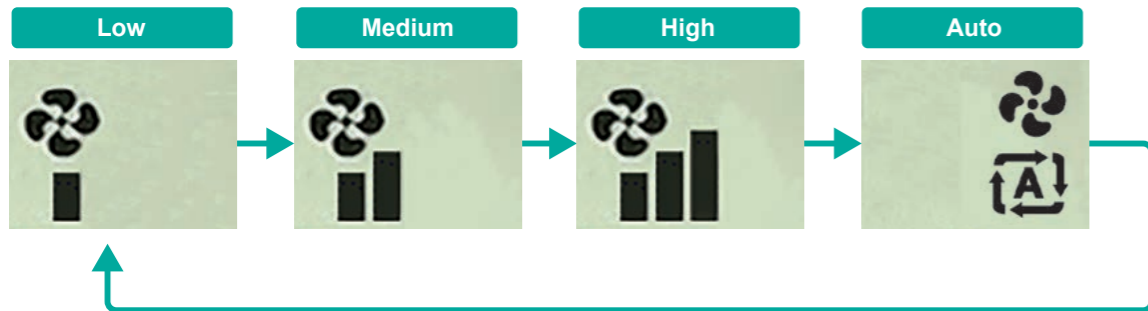
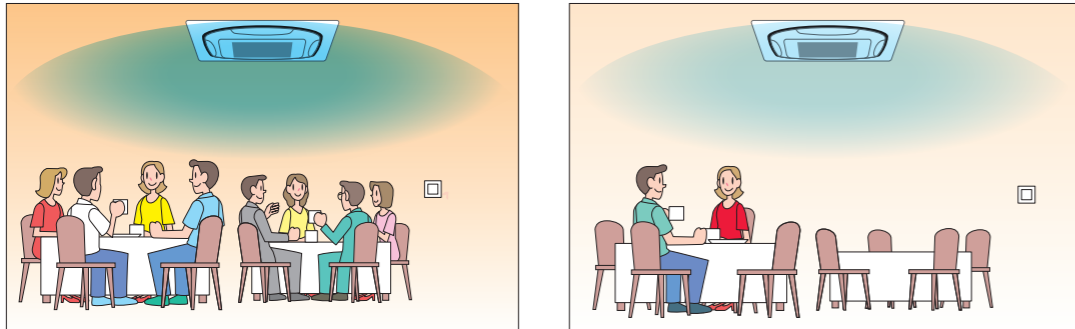
Indoor units can provide 3-step and 2-step fine control of air volume

3-step: FCFC and FHFC100-140 series
2-step: FHFC40-85 series

Comfort ensured by 'Auto' airflow rate that matches load level

Convenient energy-efficiency for stores with peak and quiet periods.

*Except for FHFC40-85D

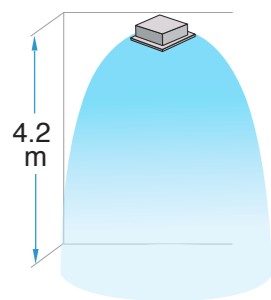


Also convenient for high ceilings and spaces with long blow distances

Cassette type <Round Flow>:
maximum 4.2 m*

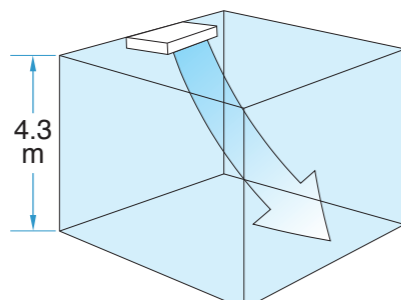
Ceiling suspended type:
maximum 4.3 m

*Field setting with remote controller



See page 13

*Maximum 4.2 m for FCFC100-140
Maximum 3.5 m for FCFC40-80



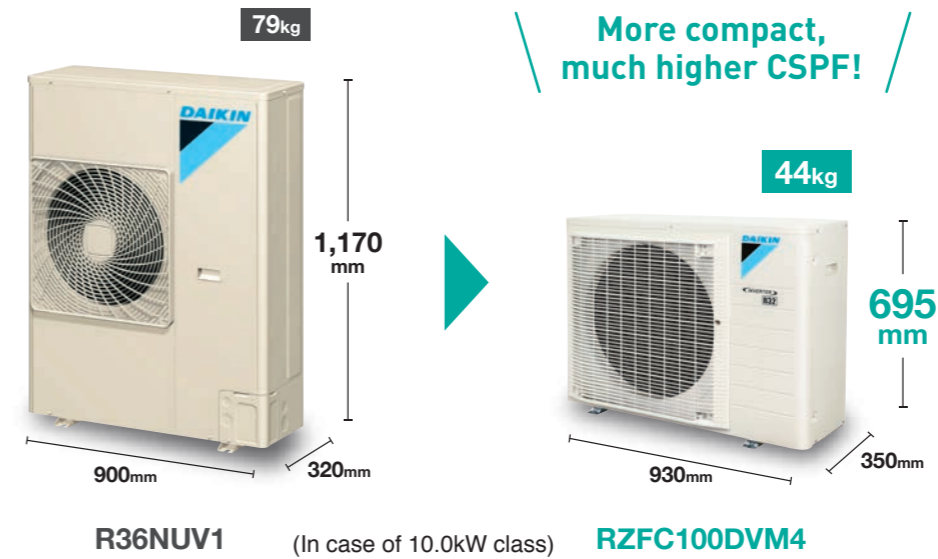
See page 18

*Maximum 4.3 m for FHFC100-140
Maximum 3.5 m for FHFC40-80



Compact & Lightweight

New outdoor units are much more compact and lighter weight



- More easy installation
- More easy transportation
- More saving space

32% reduction in volume
0.34m³ → 0.23m³

44% reduction in weight
79kg → 44kg

Comparison with the previous mainstream non-inverter series

Outdoor units are much more compact and lighter weight. They enable easy installation in places with limited space.

	7.6 kW R26NUV1 / NU1	8.8 kW R30NUV1 / Y1	10.6 kW R36NUV1 / NU1	12.3 kW R42NUY1	14.1 kW R48NUY1
Previous non-inverter R-NU series	70kg 900mm x 770mm	70kg 900mm x 770mm	79kg 900mm x 1,170mm	87kg 900mm x 1,170mm	92kg 900mm x 1,345mm

	7.1 kW RZFC71DVM4	8.5 kW RZFC71DY14	10.0 kW RZFC85DVM4 / Y14	12.5 kW RZFC100DVM4 / Y14	14.0 kW RZFC125DY14	14.0 kW RZFC140DY14
New inverter RZFC-D series	37kg 845mm x 595mm	46kg 930mm x 695mm	44kg / 46kg 930mm x 695mm	44kg / 46kg 930mm x 695mm	62kg 940mm x 990mm	62kg 940mm x 990mm
Reduced by	33kg	24kg	26kg / 24kg	35kg / 33kg	25kg	30kg

Unit weight is greatly reduced.

Cassette air conditioner with 360° uniform airflow sets the standard



FCFC40/50/60/71/85/100/125/140DVM4

ROUND FLOW



Option

Accessory required for indoor unit.

Simplified Remote Controller

(Wired Remote Controller)



NEW
BRC2E61

Note: Remote controller cable is not included and must be obtained locally.

Wireless remote controller

A signal receiver must be added to the indoor unit.



Cooling only
BRC7F635F



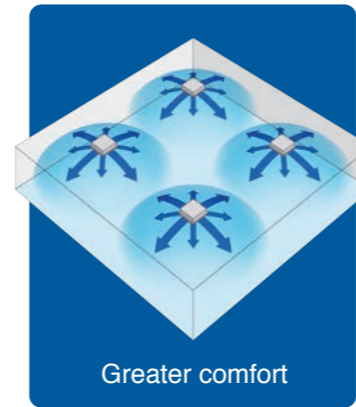
Wireless remote controller is supplied in a set with a signal receiver.



Standard panel (Fresh white)

360° Airflow

With uniform temperature distribution



Airflow distribution creates uniform comfort throughout the space.

Room remains comfortable even when set temperature is raised 1°C.

Greater comfort

Gentle Airflow

Enhanced Comfort



360° airflow can maintain comfort even if air discharge speed is lower.

Velocity decreases by 25% when set temperature is raised 1°C to 1.5°C.

Selectable Airflow Pattern

Because air flows out from corner outlets, comfort spreads more widely.

Typical flow patterns

There are a total of 18 flow patterns.

All-round flow



(E.g., installed in middle of ceiling)

4-way flow also possible.

3-way flow



(E.g., installed near a wall)

L-shaped 2-way flow



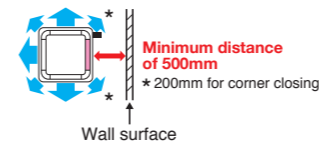
(E.g., installed in a corner)

Opposite 2-way flow



(E.g., installed in a long room)

Required distance to wall surface for closing air discharge outlet



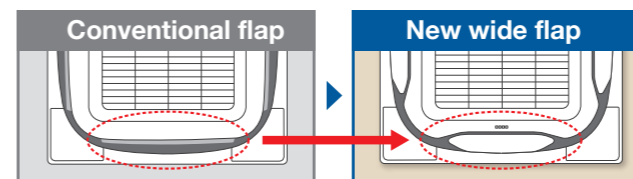
Note:

- Whatever the discharge direction, the same type of panel is used. If installing for other than all-round flow, an air discharge outlet sealing material (option) must be used to close each unused outlet.
- Operation sound increases when using 2-way or 3-way flow.
- Designer panel cannot operate 2-way and 3-way flow.

New Technologies

1 Use of new wide flaps (Straight)

With new, larger flaps, a straighter trajectory for airflow was achieved.



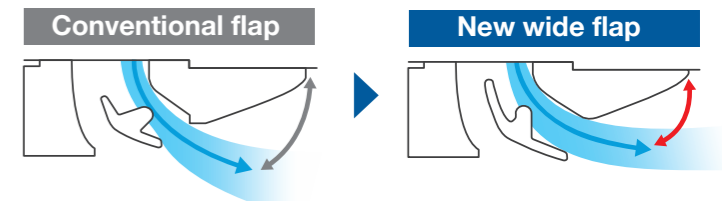
New wide flap construction inhibits ceiling dirt and grime.

By tapering both flap ends, the airflow that causes dirty ceilings is directed downward.



2 Optimizing airflow angle (Horizontally)

The airflow angle was made more horizontal.



Comfort

Unified square panels

Panel size is the same for all models. It is easy to maintain a neat appearance when multiple units are installed in the same room.



Optimal comfort and convenience assured by 3 air discharge modes

Air direction	Standard setting ¹	Draft prevention setting (field setting)	Ceiling soiling prevention setting ² (field setting)
Desired situation	For gentle drafts.	When drafts are unwanted.	For shops with light coloured ceilings that must be kept spotless.
Auto-swing			
5-level air direction setting			
Auto air direction control	The air direction is set automatically to the memorised position of the previous air direction.		

Note:
¹Air direction is set to the standard position when the unit is shipped from the factory. The position can be changed from the remote controller.
²Closing of the corner discharge outlets is recommended.

Switchable fan speed: 3 steps and Auto

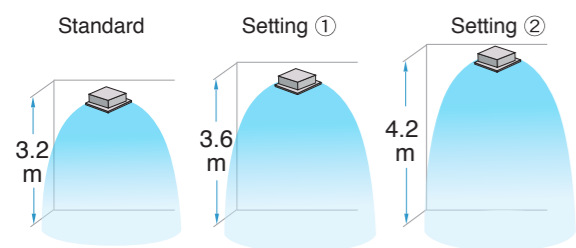
Auto airflow rate is available when wired remote controller BRC2E61 is used.

Quiet operation

Indoor unit	Sound pressure level		
	H	M	L
40-60D	37	32	28
71D	37	34	28
85D	38	34	29
100D	45	38	33
125/140D	46	40	33

Suitable for high ceilings

Even in spaces with high ceilings, a comfortable airflow is carried down to the floor level.



When all round flow is selected, ceilings up to 4.2 m in height can be accommodated. (100-140D)

Criteria for ceiling height and number of air discharge outlets (Ceiling height is reference value)

Ceiling height	Standard	Number of air discharge outlets used							
		40-85D				100-140D			
		All round flow	4-way flow	3-way flow	2-way flow	All round flow	4-way flow	3-way flow	2-way flow
High ceiling ①	2.7 m	3.1 m	3.0 m	3.5 m	3.2 m	3.4 m	3.6 m	4.2 m	
High ceiling ②	3.0 m	3.4 m	3.3 m	3.8 m	3.6 m	3.9 m	4.0 m	4.2 m	
High ceiling ③	3.5 m	4.0 m	3.5 m	—	4.2 m	4.5 m	4.2 m	—	

Note:
 • The aforementioned is for standard panels. See the installation manual for designer panels.
 • Factory settings are for standard ceiling height and all-round flow.
 • High ceiling settings (1) and (2) are set with the remote controller by field setting.
 • High-efficiency filters are not available for high ceiling applications.

Cleanliness

Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging. (The lifespan of a silver ion cartridge depends on the usage environment, but should be changed once every two to three years.)



Non-flocking flaps

Flaps can be detached without use of tools. Condensation does not easily form and dirt does not cling to non-flocking flaps. They are easy to clean.



Filter has anti-mould and antibacterial treatment

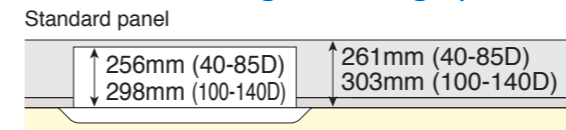
Prevents mould and microorganisms growing out of the dust and moisture that adheres to the filters.

Quick and Easy Installation

Lightweight

All models can be installed without using a lifter.

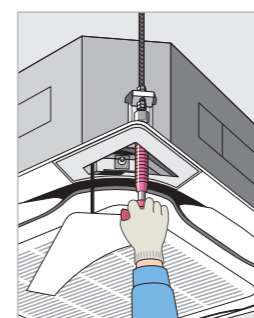
Installable in tight ceiling spaces



Easy height adjustment

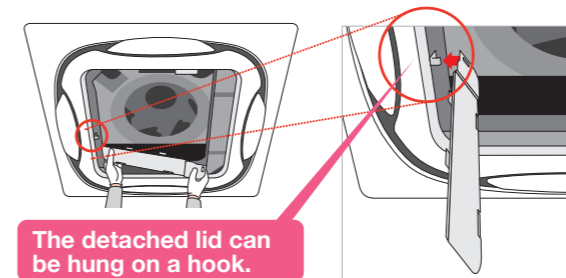
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

Note:
 If the wireless remote controller is installed, a signal receiver unit is housed in one of the adjuster pockets.



Temporary placement of control box lid

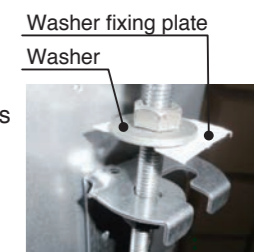
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

Easy hanging

Washer fixing plates secure washers in place and prevent washers from falling for easy installation.



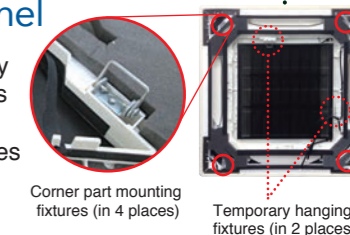
Easy removal of corner cover

It is possible to easily remove without use of screws or tools.



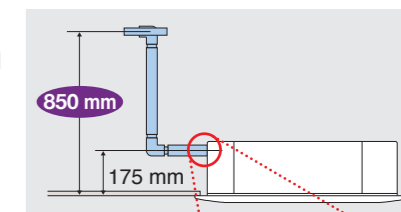
Ease in temporary hanging of decoration panel

In addition to the temporary hanging fixtures in 2 places normally used, corner part mounting fixtures in 4 places are provided.



Drain pump

Equipped as standard accessory with 850 mm lift.

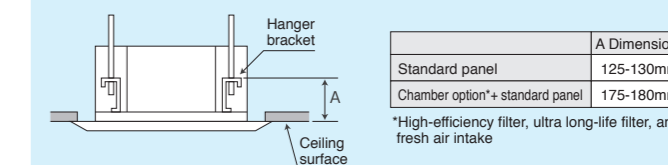


Transparent drain socket



Hanging height adjustment

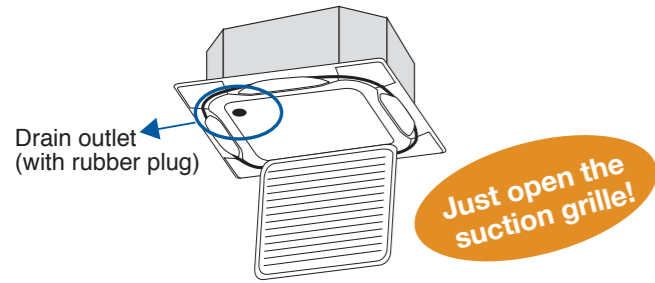
Because the configuration of the hanger bracket changed, the dimensions from the ceiling to the hanger bracket also change during height adjustment for indoor unit.



Easy Maintenance

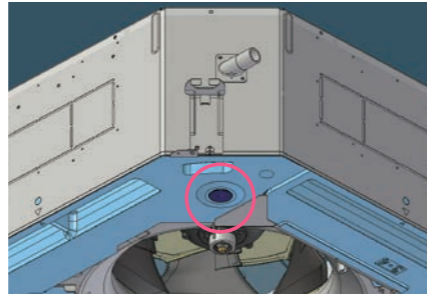
Condition of the drain pan and drain water

Note: For inquiries concerning auto grille panel installations, please contact your local dealer or Daikin representative.



24 mm diameter drain outlet

The drain outlet allows insertion of a finger or dental mirror for inspection of the internal cleanliness of the drain pan. Removal of the suction panel enables access.



Low gas pressure detection

Insufficient gas charging is normally hard to detect. During test run after installation and regular inspection, the refrigerant level is monitored by a microprocessor to maintain proper gas pressure. Reliability is assured and maintenance and inspection can be carried out more quickly.

Ultra long-life filter (option) See page 16

Maintenance is not required in normal shops or offices for up to four years.

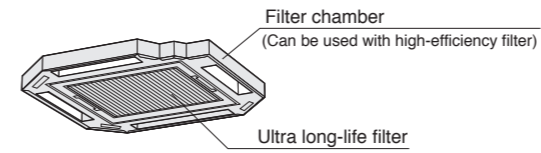


Options

Options required for specific operating environments

Ultra long-life filter unit

Even in dusty environments where the air conditioning is constantly operating, the ultra long-life filter only has to be cleaned once a year.



Dusty area: annual filter change

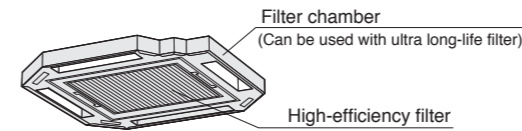
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≈ 15 hr/day x 28 day/month x 12 month/year

Ordinary store or office: filter change every 4 years

*For dust concentration of 0.15 mg/m³
4 years (Approx. 10,000 hr) ≈ 8 hr/day x 25 day/month x 12 month/year x 4 years

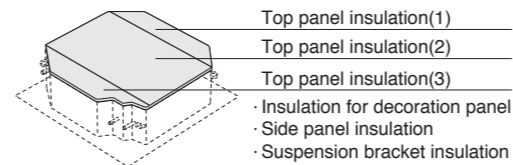
High-efficiency filter unit

Available in two types: 65% and 90% colorimetry.



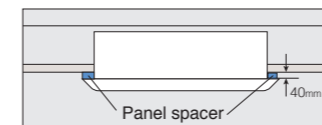
Insulation kit for high humidity

Please use if you think the temperature and humidity inside the ceiling exceeds 30°C and RH 80%, respectively.



Panel spacer

Use when only minimal space is available between drop ceilings and ceiling slabs.



Note: Some ceiling constructions may hinder installation. Contact your Daikin Dealer before installing your unit.

Sealing material of air discharge outlet

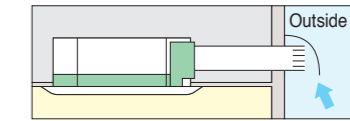
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

This chamber lets you connect a round flexible duct to the air discharge opening at any time after the original installation.

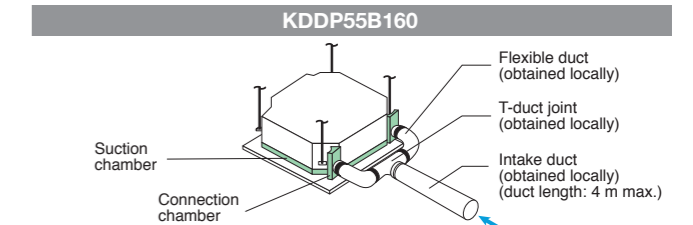
Fresh air intake kit Note 1.2

Using this kit, a duct can be connected to take in outdoor air. There are two chamber types that have intake in two places: with T-duct joint and without T-duct joint.

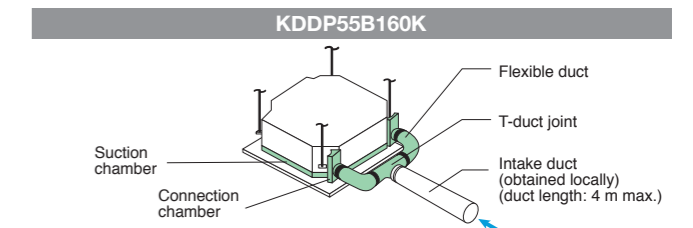


The units can be installed in the following different ways

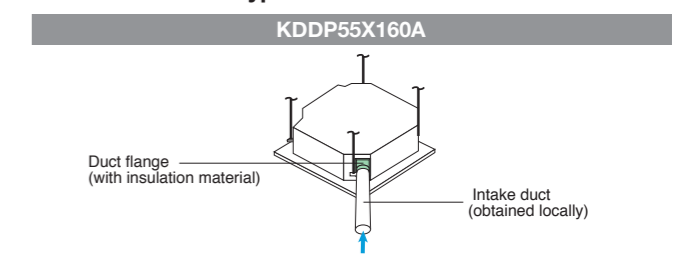
Chamber type (without T-duct joint) Note 3.4.5



Chamber type (with T-duct joint) Note 3.4.5



Direct installation type Note 6



- Note:
1. Use of options will increase operating sound.
 2. Connecting ducts, fan, insect nets, fire dampers, air filters, and other parts should, as required, be obtained locally.
 3. When a local-obtained fan is used, an interlock with air conditioner is necessary. Optional PCB (KRP1C11A) is required for interlocking.
 4. When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
 5. It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
 6. The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.

Comfortable airflow travels throughout the room



FHFC40/50/60/71/85DV14



FHFC100/125/140DV14



Option

Accessory required for indoor unit.

Simplified Remote Controller

(Wired Remote Controller)



NEW
BRC2E61

Note: Remote controller cable is not included and must be obtained locally.

Wireless remote controller

A signal receiver must be added to the indoor unit.



• FHFC40-85D
Cooling only
BRC7EA66



Signal receiver unit (Installed type)
Wireless remote controller is supplied in a set with a signal receiver.

• FHFC100-140D
Cooling only
BRC7GA56



Signal receiver unit (Installed type)
Wireless remote controller is supplied in a set with a signal receiver.

Stylish Model

- ◆ Sophisticated design

Flap neatly closes when not in use. (100-140 class)



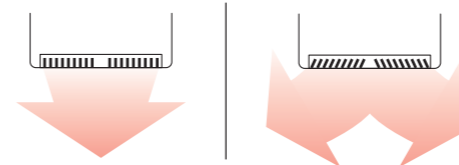
- ◆ White colour

Comfort

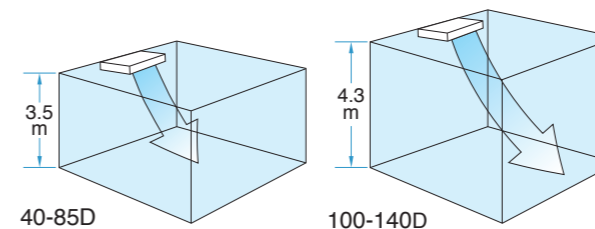
- ◆ The technology of the DC fan motor (100-140 class), wide sirocco fan, and large heat exchanger combine for greater airflow and quiet operation

- ◆ Auto swing (up and down) and louvers (left and right by hand) bring comfort to the room

- ◆ Louver manually adjusts for straight or wide angle airflow



- ◆ Suitable for high ceilings



	40-85D	100D	125/140D
Standard	2.7m or less	3.8m or less	4.3m or less
High ceiling	2.7m-3.5m	3.8m-4.3m	—

Note: Factory settings is "standard".
"High ceiling" are set with remote controller by field setting.

- ◆ Switchable fan speed:

2 steps (40-85 class)

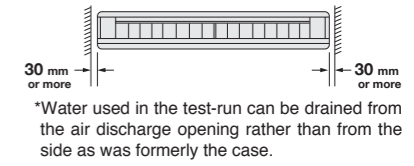
3 steps and Auto (100-140 class)

Auto airflow rate is available when wired remote controller BRC2E61 is used.

Installation Flexibility for Freedom of Design

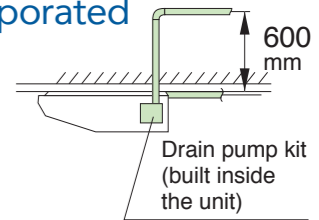
- ◆ Flexible installation

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.

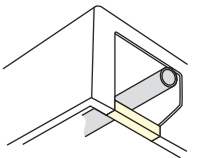


- ◆ DIII-NET communication standard

(100-140 class)
40-85 class requires an optional adaptor.

- ◆ All wiring and internal servicing can be done from under the unit

- ◆ The rear side removable frame allows ease of access for piping work (100-140 class)



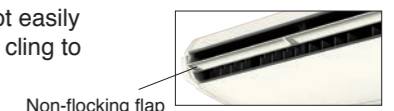
Easy Maintenance

- ◆ Drain pump kit (option) includes a silver ion antibacterial agent

That assists in preventing the growth of slime, bacteria, and mould that cause odours and clogging.

- ◆ Non-flocking flap

Condensation does not easily form and dirt does not cling to non-flocking flap. It is easy to clean.



- ◆ Easy-clean, flat surfaces

It is easy to wipe dirt off the flat side and lower surfaces of the unit.

Oil Resistant Grille

- ◆ Oil-resistant plastic is used for the air suction 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.

Compact outdoor unit



RZFC40DVM4
RZFC50DVM4
RZFC60DVM4
RZFC71DVM4



RZFC85DVM4
RZFC100DVM4
RZFC71DY14
RZFC85DY14
RZFC100DY14



RZFC125DY14
RZFC140DY14

Easy Installation and Maintenance

- 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.
- Low gas pressure detection function**
 Effective gas monitoring reduces the labor required for operation, maintenance, and repairs.

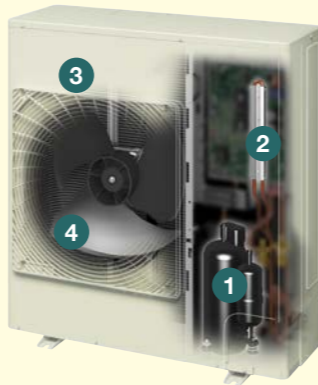
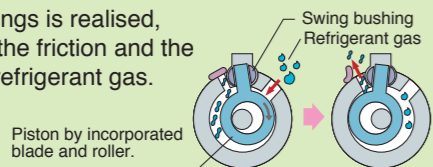
*Pump-down function is available for pre-charged refrigerant amount.
 *Although pumping-down operation allows most of the refrigerant to be recovered in a short period of time, some refrigerant will remain inside the indoor unit and refrigerant piping.
 Using a refrigerant recovery machine, recover remaining refrigerant from the stop valve service port until the pressure falls to 0.09 MPa. (gauge pressure:-0.011MPa) or less.

Technology for energy efficiency

1 Swing compressor

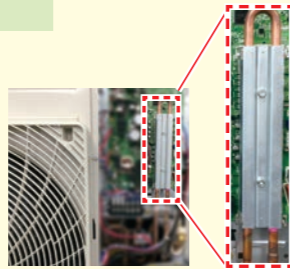
High efficiency during partial load operation.

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



2 Refrigerant cooling

Daikin's unique refrigerant cooling system exhibits high cooling capacity even during high outdoor temperatures.



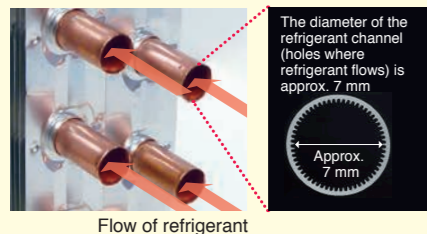
Refrigerant cooling helps protect the printed circuit board and maintains high cooling capacity even during high outdoor temperatures.

3 High efficiency by micro channel heat exchanger

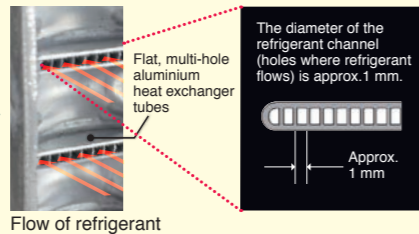
Reduced wind resistance

The flattening of the heat exchanger tubes improves the flow of air and increases heat exchange efficiency.

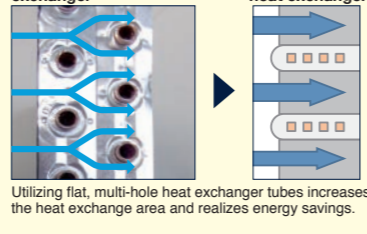
Conventional tube and fin coil



Micro channel coil



Conventional heat exchanger



Micro channel heat exchanger

Utilizing flat, multi-hole heat exchanger tubes increases the heat exchange area and realizes energy savings.

4 Fan

V-cut Propeller Fan (RZFC40-100DVM4/Y14)

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.



V-cut propeller fan



Imitating the performance of the swan

Simplified Remote Controller (wired)

NEW BRC2E61

Simple operation

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

Intuitive design

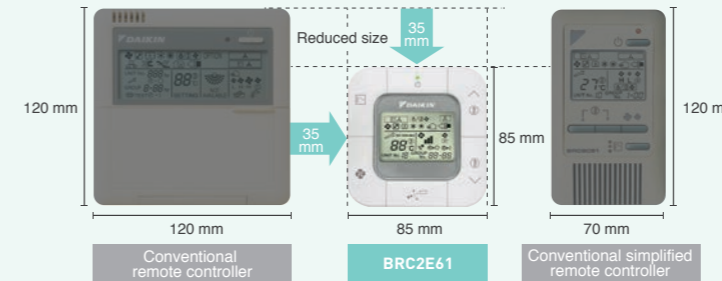
By using pictograms, the user-friendly interface enables:

Overseas guests at hotels to understand functions without having to know a foreign language.

Children and elderly users at home to operate without having to read difficult and hard-to-see commands.

Compact

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



Wireless remote controller



BRC7F635F



Signal receiver unit (Installed type)

BRC7EA66

Signal receiver unit (Installed type)

BRC7GA56

Signal receiver unit (Installed type)

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

Wireless remote controller for each indoor unit type

		Cooling only
CEILING MOUNTED CASSETTE TYPE		BRC7F635F
CEILING SUSPENDED TYPE	40-85	BRC7EA66
	100-140	BRC7GA56

Wired remote controller has built-in temperature-sensor

- Enables temperature sensing closer to target area for improved comfort. (When using a remote control from another room, temperature-sensor of the indoor unit air inlet must be selected.)

Facilitates maintenance and repair

- All initial settings can be set from the remote controller. After interior construction is complete, ceiling mounted cassette type can be remotely set without having to use a stepladder to 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 error code display function. This facilitates service in the unlikely event of a malfunction.

SkyAir shares common control with Heat Reclaim Ventilator and the other Daikin air-conditioning units, thus simplifying interlocking operations.

- 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.

LCD panel shows operating status in letters, numbers, and motion.

Airflow / swing display	Displays auto-swing operating status and setting position of air discharge angle.
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 LCD 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.

System variation to control multiple indoor units

	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 (See note 1)	 ● Control by 1 wireless remote controller and 1 wired remote controller (See note 2) ● 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 monitoring is carried out using the contact signal from the operation control box in the monitoring room.	 (Command from outside) ● Optional wiring adaptor for electrical appendices is necessary	 (Command from outside) ● Optional wiring adaptor for electrical appendices is necessary
Centralised remote control	Centralised control of up to 64 indoor groups from remote location up to 1 km away.	 Central remote controller (option) ● Interface adaptor for SkyAir series (option) is required (See note 3)	 Central remote controller (option) ● Interface adaptor for SkyAir series (option) is required (See note 3)
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 by remote controller
	Zone link control by centralised control.	 Central remote controller (option) ● Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking. Can also be operated independently by remote controller.	 Central remote controller (option) ● Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking.

Note: ¹BRC2E61 can connect to BRC2E61 only. ²When a wireless remote controller is used, it is not possible to use 2 wireless remote controllers. Combination of BRC2E61 (main) and wireless remote controller (sub) is available. ³FHFC40-85D requires interface adaptor for SkyAir series.

Easily adaptable to large-scale, high-function, centralised remote control system.

Central remote controller DCS302CA61 (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.	Unified on/off controller DCS301BA61 (Option) Centralised control of on/off by group or all at once for up to 256 indoor units.	Schedule timer DST301BA61 (Option) 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.	Intelligent Controller DCS601C51 (Option) With its high functionality, the full colour "all-in-one" graphic controller facilitates management of SkyAir System in a variety of ways.
Interface adaptor for SkyAir series DTA112BA51 (Option) Enables centralised control via connection to a high-speed, DIII-NET communication system, adopted for the Daikin VRF system. Necessary for interface adaptor for SkyAir series with the central remote control units shown at above.		● The interface adaptor for SkyAir series is required for Ceiling suspended type 40-85 class.	

Functions overview

Cooling only

		CEILING MOUNTED CASSETTE TYPE (Round Flow)		CEILING SUSPENDED TYPE			
		FCFC40-140DVM4	RZFC40-100DVM4 RZFC71-140DY14	FHFC40-85DV14	RZFC40-85DVM4 RZFC71/85DY14	FHFC100-140DV14	RZFC100DVM4 RZFC100-140DY14
Indoor unit							
	Outdoor unit						
Remote controller	Wired	BRC2E61	—	BRC2E61	—	BRC2E61	—
	Wireless	—	BRC7F635F	—	BRC7EA66	—	BRC7GA56
Comfort	1 ON / OFF timer	●	●	●	●	●	●
	2 Auto swing	●	●	●	●	●	●
	3 Swing pattern selection	●					
	4 DC fan motor		●				●
	5 Switchable fan speed	3 step	3 step	2 step	2 step	3 step	3 step
	6 Auto airflow rate	●				●	
	7 Two selectable temperature-sensors	●		●		●	
	8 High ceiling application	3.5m / 4.2m		3.5m		4.3 m	
Cleanliness	9 Anti-bacterial air filter	●		●		●	
	10 Silver ion anti-bacterial drain pan	●					
Work & Servicing	11 Drain pump mechanism	●		● ^{*3}		● ^{*3}	
	12 Pre-charged for up to 10 / 15 m ^{*1}	●		●		●	
	13 Long-life filter	●		●		●	
	14 Filter sign	●	●	●	●	●	●
	15 Low gas pressure detection ^{*1}	●		●		●	
	16 Emergency operation	● ^{*5}		● ^{*5}		● ^{*5}	
	17 Self-diagnosis function	●	●	●	●	●	●
Control	18 Auto-restart	●		●		●	
	19 Control by 2 remote controllers	●	● ^{*4}	●	● ^{*4}	●	● ^{*4}
	20 Group control by 1 remote controller	●	●	●	●	●	●
	21 External signal forced OFF and ON/OFF operation		●				●
	22 External command control ^{*2}	●		●		●	
	23 Central remote control	●		● ^{*3}		●	
	24 Interlock control with Heat Reclaim Ventilator	●		●		●	
25 DIII-NET communication standard	●		● ^{*3}		●		
Options	26 High-efficiency filter	●					
	27 Ultra long-life filter	●					
	28 Fresh air intake kit	●				●	

Note: ^{*1} For outdoor units. ^{*2} Wiring adaptor for electrical appendices (and installation box) is necessary. ^{*3} Option is required. ^{*4} It is not possible to use 2 wireless remote controllers. Combination of BRC2E61 (main) and wireless remote controller (sub) is available. ^{*5} For outdoor unit RZFC-DY14 only.

Abundance of functions that provide comfortable air-conditioning in stores and offices

Note: Some features are only available on selected models. See overview page for full list of features applicable to each unit.



Comfort

1. ON/OFF timer

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

2. Auto swing

Delivers comfortable air-conditioning to all areas, near to and far from the air-conditioner.

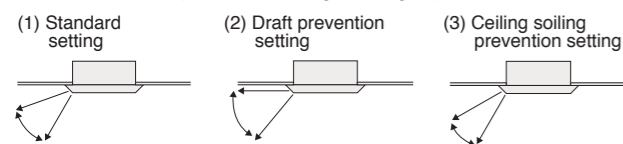
■ The air flow direction can be fixed at your desired angle by the remote controller.

3. DC fan motor (Indoor unit)

DC fan motor improves efficiency.

4. Swing pattern selection

You can freely set air discharge settings by remote controller.



5. Switchable fan speed

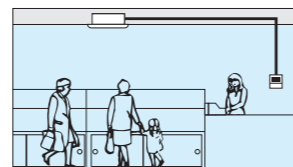
High setting provides maximum reach while low setting minimises drafts.

6. Auto airflow rate

Airflow rate is automatically controlled in accordance with the difference between room temperature and set temperature.

7. Two selectable temperature-sensors

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



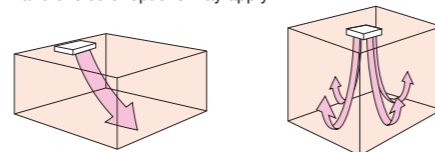
● Use the temperature-sensor in the indoor unit when controlling air conditioning from another room.

Note: Wireless remote controllers have no temperature-sensor.

8. 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.



Cleanliness

9. Anti-bacterial air filter

The air filter has an anti-bacterial treatment to help prevent the growth of bacteria and mould on it.

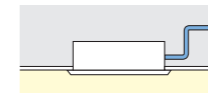
10. Silver ion anti-bacterial drain pan

A built-in antibacterial treatment that uses silver ion in the drain pan prevents the growth of slime, bacteria, and mould that cause odours and clogging.

Work & Servicing

11. Drain pump mechanism

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



12. Pre-charged for up to 10 / 15 m

If refrigerant piping length does not exceed 10 m or 15 m, there is no need for on-site gas charging.

10 m: RZFC40-71DVM4
15 m: RZFC85-100DVM4, 71-140DY14

13. Long-life filter

Maintenance is not required for one year*. The filter is washable and can be reused.

*For dust concentration of 0.15 mg/m³

14. 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.

15. Low gas pressure detection

Insufficient gas charging is normally hard to detect. During test run after installation and regular inspection, the refrigerant level is monitored by a microprocessor to maintain proper gas pressure. Reliability is assured and maintenance and inspection can be carried out more quickly.

16. Emergency operation

Even if there is a malfunction elsewhere in the system, the fan or compressor can still be operated. (depending on the malfunction)

17. 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.

Control

18. 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.

19. Control by 2 remote controllers

Using 2 remote controllers you can operate the equipment locally or from a remote location.

*When a wireless remote controller is used, it is not possible to use 2 wireless remote controllers.

Combination of BRC2E61 (main) and wireless remote controller (sub) is available.

20. Group 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.)

21. External signal forced OFF and ON/OFF operation

The air conditioner can be interlocked with the keycard system and turned ON/OFF by locking and unlocking the room.

The air conditioner can be also be turned OFF by the interlock with the ventilation and lighting OFF signal.

*Field setting with remote controller.

22. External command control

Operation and monitoring is carried out using the contact signal from the operation control box in the building monitoring room.

*Wiring adaptor for electrical appendices (and installation box) is necessary.

23. Central remote control

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

24. Interlock control with Heat Reclaim Ventilator

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

25. DIII-NET communication standard

Connection to a centralised control system is available without need for an optional adaptor.

Options

26. High-efficiency filter

Two types are available: 65% and 90% colorimetry.

27. Ultra long-life filter

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

*For dust concentration of 0.15 mg/m³

28. Fresh air intake kit

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

CEILING MOUNTED CASSETTE TYPE <Round Flow> (1 Phase)



Model Name		Indoor unit	40	50	60	71	85	100	
		Outdoor unit	FCFC40DVM4	FCFC50DVM4	FCFC60DVM4	FCFC71DVM4	FCFC85DVM4	FCFC100DVM4	
		Outdoor unit	RZFC40DVM4	RZFC50DVM4	RZFC60DVM4	RZFC71DVM4	RZFC85DVM4	RZFC100DVM4	
Power supply	Outdoor unit	1 Phase, 220-240 / 220-230V, 50 / 60Hz							
Cooling Capacity ^{1,2} Rated (Min. - Max.)	kW	4.0 (1.8-4.5)	5.0 (2.3-5.6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)	8.5 (4.2-10.0)	10.0 (5.0-11.2)		
	Btu/h	13,600 (6,100-15,400)	17,100 (7,800-19,100)	20,500 (8,900-21,500)	24,200 (10,900-27,300)	29,000 (14,300-34,100)	34,100 (17,100-38,200)		
Power consumption	Cooling ¹	kW	1.26	1.57	1.89	2.38	2.85	3.35	
COP		kW/kW	3.18		2.98		2.84		
CSPF		Wh/Wh	5.13	4.90		4.67			
Indoor unit	Colour	Unit	White						
		Decoration panel	Fresh white						
	Airflow rate (H / M / L)	m ³ /min	19 / 14 / 11		23 / 18 / 13		34 / 27 / 20		
		cfm	671 / 494 / 388		812 / 635 / 459		1,200 / 953 / 706		
	Sound pressure level ³ (H / M / L)	dB(A)	37 / 32 / 28		37 / 34 / 28		38 / 34 / 29		
	Dimensions (H×W×D)	Unit	256×840×840						
		mm							
		mm	50×950×950						
	Machine weight	Unit	19		22		24		
		kg							
	Decoration panel	5.5		5.5		5.5			
	kg								
	Certified Operation range	°CWB 14 to 25							
Outdoor unit	Colour	Ivory white							
	Coil	Type	Micro channel						
	Compressor	Type	Hermetically sealed swing type						
		Motor output	1.20		1.30		1.60		
		kW							
	Refrigerant charge (R32)	kg	0.7 (Charged for 10 m)		0.8 (Charged for 10 m)		1.0 (Charged for 15 m)		
	Sound pressure level ³ Cooling	dB(A)	48	49	50	51	52		
	Dimensions (H×W×D)	mm	595×845×300						
	Machine weight	kg	34	37		44			
		kg							
	Certified Operation range	°CDB 21 to 46							
Piping connections	Liquid (Flare)	mm	φ6.4		φ9.5		φ9.5		
	Gas (Flare)	mm	φ12.7		φ15.9		φ15.9		
	Drain	Indoor unit	VP20 (I.D.φ20×O.D.φ26)						
		Outdoor unit	φ18.0 (Hole)						
	mm								
	mm								
Max. interunit piping length	m	30 (Equivalent length 40)		50 (Equivalent length 70)					
Max. installation level difference	m	15		30					
Heat insulation	Both liquid and gas piping								

CEILING MOUNTED CASSETTE TYPE <Round Flow> (3 Phase)



Model Name		Indoor unit	71	85	100	125	140		
		Outdoor unit	FCFC71DVM4	FCFC85DVM4	FCFC100DVM4	FCFC125DVM4	FCFC140DVM4		
		Outdoor unit	RZFC71DY14	RZFC85DY14	RZFC100DY14	RZFC125DY14	RZFC140DY14		
Power supply	Outdoor unit	3 Phase, 380V, 50Hz							
Cooling Capacity ^{1,2} Rated (Min. - Max.)	kW	7.1 (3.2-8.0)	8.5 (4.2-10.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)			
	Btu/h	24,200 (10,900-27,300)	29,000 (14,300-34,100)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)			
Power consumption	Cooling ¹	kW	2.38	2.85	3.35	4.70	5.88		
COP		kW/kW	2.98		2.66		2.38		
CSPF		Wh/Wh	4.67		4.29		4.10		
Indoor unit	Colour	Unit	White						
		Decoration panel	Fresh white						
	Airflow rate (H / M / L)	m ³ /min	23 / 18 / 13		34 / 27 / 20		36 / 29 / 21		
		cfm	812 / 635 / 459		1,200 / 953 / 706		1,271 / 1,024 / 741		
	Sound pressure level ³ (H / M / L)	dB(A)	37 / 34 / 28		38 / 34 / 29		45 / 38 / 33		
	Dimensions (H×W×D)	Unit	256×840×840						
		mm							
		mm	50×950×950						
	Machine weight	Unit	22		24		24		
		kg							
	Decoration panel	5.5		5.5		5.5			
	kg								
	Certified Operation range	°CWB 14 to 25							
Outdoor unit	Colour	Ivory white							
	Coil	Type	Micro channel						
	Compressor	Type	Hermetically sealed swing type						
		Motor output	1.60		2.40		2.40		
		kW							
	Refrigerant charge (R32)	kg	1.0 (Charged for 15 m)		1.35 (Charged for 15 m)		1.35 (Charged for 15 m)		
	Sound pressure level ³ Cooling	dB(A)	50	51	52	54	56		
	Dimensions (H×W×D)	mm	695×930×350						
	Machine weight	kg	46		62		62		
		kg							
	Certified Operation range	°CDB 21 to 46							
Piping connections	Liquid (Flare)	mm	φ9.5		φ15.9		φ15.9		
	Gas (Flare)	mm	φ12.7		φ15.9		φ15.9		
	Drain	Indoor unit	VP20 (I.D.φ20×O.D.φ26)						
		Outdoor unit	φ18.0 (Hole)						
	mm								
	mm								
Max. interunit piping length	m	30 (Equivalent length 40)		50 (Equivalent length 70)					
Max. installation level difference	m	15		30					
Heat insulation	Both liquid and gas piping								

Note :
¹Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
²Capacities are net, including a deduction for cooling for indoor fan motor heat.
³The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.

CEILING SUSPENDED TYPE (1 Phase)



Model Name		Indoor unit	40	50	60	71	85	100	
		Outdoor unit	FHFC40DV14	FHFC50DV14	FHFC60DV14	FHFC71DV14	FHFC85DV14	FHFC100DV14	
		Outdoor unit	RZFC40DVM4	RZFC50DVM4	RZFC60DVM4	RZFC71DVM4	RZFC85DVM4	RZFC100DVM4	
Power supply	Outdoor unit	1 Phase, 220-240 / 220-230V, 50 / 60Hz							
Cooling Capacity ^{1,2} Rated (Min. - Max.)	kW	4.0 (1.8-4.5)	5.0 (2.3-5.6)	6.0 (2.6-6.3)	7.1 (3.2-8.0)	8.5 (4.2-10.0)	10.0 (5.0-11.2)		
	Btu/h	13,600 (6,100-15,400)	17,100 (7,800-19,100)	20,500 (8,900-21,500)	24,200 (10,900-27,300)	29,000 (14,300-34,100)	34,100 (17,100-38,200)		
Power consumption	Cooling ¹	kW	1.33	1.67	2.00	2.50	2.99	3.52	
COP		kW/kW	3.00		2.84		2.84		
CSPF		Wh/Wh	4.51	4.30		4.09			
Indoor unit	Colour	Unit	White						
	Airflow rate (H / M / L)	m ³ /min	13 / - / 10		17 / - / 14		24 / - / 20		
		cfm	459 / - / 353		600 / - / 494		847 / - / 706		
	Sound pressure level ³ (H / M / L)	dB(A)	38 / - / 33		39 / - / 35		42 / - / 37		
	Dimensions (H×W×D)	Unit	195×960×680		195×1,160×680		195×1,400×680		
		mm							
	Machine weight	Unit	25		27		32		
		kg							
		Certified Operation range	°CWB 14 to 25						
	Outdoor unit	Colour	Ivory white						
Coil		Type	Micro channel						
Compressor		Type	Hermetically sealed swing type						
		Motor output	1.20		1.30		1.60		
		kW							
Refrigerant charge (R32)		kg	0.7 (Charged for 10 m)		0.8 (Charged for 10 m)		1.0 (Charged for 15 m)		
Sound pressure level ³ Cooling		dB(A)	48	49	50	51	52		
Dimensions (H×W×D)		mm	595×845×300						
Machine weight		kg	34		37		44		
		kg							
	Certified Operation range	°CDB 21 to 46							
Piping connections	Liquid (Flare)	mm	φ6.4		φ9.5		φ9.5		
	Gas (Flare)	mm	φ12.7		φ15.9		φ15.9		
	Drain	Indoor unit	VP20 (I.D.φ20×O.D.φ26)						
		Outdoor unit	φ18.0 (Hole)						
	mm								
	mm								
Max. interunit piping length	m	30 (Equivalent length 40)		50 (Equivalent length 70)					
Max. installation level difference	m	15		30					
Heat insulation	Both liquid and gas piping								

CEILING SUSPENDED TYPE (3 Phase)



Model Name		Indoor unit	71	85	100	125	140		
		Outdoor unit	FHFC71DV14	FHFC85DV14	FHFC100DV14	FHFC125DV14	FHFC140DV14		
		Outdoor unit	RZFC71DY14	RZFC85DY14	RZFC100DY14	RZFC125DY14	RZFC140DY14		
Power supply	Outdoor unit	3 Phase, 380V, 50Hz							
Cooling Capacity ^{1,2} Rated (Min. - Max.)	kW	7.1 (3.2-8.0)	8.5 (4.2-10.0)	10.0 (5.0-11.2)	12.5 (5.7-14.0)	14.0 (6.2-15.5)			
	Btu/h	24,200 (10,900-27,300)	29,000 (14,300-34,100)	34,100 (17,100-38,200)	42,700 (19,500-47,800)	47,800 (21,200-52,900)			
Power consumption	Cooling ¹	kW	2.50	2.99	3.52	4.88	6.07		
COP		kW/kW	2.84		2.56		2.31		
CSPF		Wh/Wh	4.09		3.82		3.71		
Indoor unit	Colour	Unit	White						
	Airflow rate (H / M / L)	m ³ /min	24 / - / 20		30 / - / 25		28 / 24 / 20		
		cfm	847 / - / 706		1,059 / - / 883		988 / 847 / 706		
	Sound pressure level ³ (H / M / L)	dB(A)	42 / - / 37		44 / - / 39		42 / 38 / 34		
	Dimensions (H×W×D)	Unit	195×1,400×680		195×1,590×680		235×1,590×690		
		mm							
	Machine weight	Unit	32		35		38		
		kg							
		Certified Operation range	°CWB 14 to 25						
	Outdoor unit	Colour	Ivory white						
Coil		Type	Micro channel						
Compressor		Type	Hermetically sealed swing type						
		Motor output	1.60		2.40		2.40		
		kW							
Refrigerant charge (R32)		kg	1.0 (Charged for 15 m)		1.35 (Charged for 15 m)		1.35 (Charged for 15 m)		
Sound pressure level ³ Cooling		dB(A)	50	51	52	54	56		
Dimensions (H×W×D)		mm	695×930×350						
Machine weight		kg	46		62		62		
		kg							
	Certified Operation range	°CDB 21 to 46							
Piping connections	Liquid (Flare)	mm	φ9.5		φ15.9		φ15.9		
	Gas (Flare)	mm	φ12.7		φ15.9		φ15.9		
	Drain	Indoor unit	VP20 (I.D.φ20×O.D.φ26)						
		Outdoor unit	φ18.0 (Hole)						
	mm								
	mm								
Max. interunit piping length	m	30 (Equivalent length 40)		50 (Equivalent length 70)					
Max. installation level difference	m	15		30					
Heat insulation	Both liquid and gas piping								

Note :
¹Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).
²Capacities are net, including a deduction for cooling for indoor fan motor heat.
³The operation sound is measured in anechoic chamber. If it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.

Indoor unit

CEILING MOUNTED CASSETTE TYPE <Round Flow>



No.	Name of option		Remark	Kit name		
				FCFC40DVM4 FCFC50DVM4 FCFC60DVM4	FCFC71DVM4 FCFC85DVM4	FCFC100DVM4 FCFC125DVM4 FCFC140DVM4
1	Decoration panel	Standard panel	Fresh white	BYCQ125EAF		
2	Sealing material of air discharge outlet		For usage of 3-, 4-way flow	KDBH551C160		
			For usage of 2-way flow	KDBH552C160		
3	Panel spacer			KDB55J160F		
4	Fresh air intake kit		Chamber type ^{1,2}	KDDP55B160 (KDDP55C160-1, KDDP55B160-2) ⁴		
			Without T-duct joint	KDDP55B160K (KDDP55C160-1, KDDP55B160K2) ⁴		
			With T-duct joint	KDDP55X160A		
5	High-efficiency filter unit (Including filter chamber)		Direct installation type ³	KAF556D80		
			(Colorimetric method 65%)	KAF557D80		
			(Colorimetric method 90%)	KAF552D80		
6	Replacement high-efficiency filter ⁵		(Colorimetric method 65%)	KAF553D80		
			(Colorimetric method 90%)	KAF553D80		
7	Filter chamber			KDDP55C160		
8	Replacement long-life filter			KAF551D160		
9	Ultra long-life filter unit (Including filter chamber)			KAF555D160		
10	Replacement ultra long-life filter ⁵			KAF550D160		
11	Branch duct chamber			KDJP55C80	KDJP55C160	
12	Insulation kit for high humidity ⁶			KDTP55K80A	KDTP55K160A	
13	Remote controller	Wireless type	Cooling only	BRC7F635F		
14	Simplified remote controller	Wired type ⁷		BRC2E61		
15	Central remote controller ⁸			DCS302CA61		
16	Unified ON/OFF controller ⁸			DCS301BA61		
17	Schedule timer ⁸			DST301BA61		
18	intelligent Touch Controller ⁸			DCS601C51		
19	Adaptor for wiring ⁹			KRP1C11A		
20	Wiring adaptor for electrical appendices ⁹			KRP4AA53		
21	Installation box for adaptor PCB			KRP1H98A		
22	Remote sensor (for indoor temperature)			KRCS01-5B		

Note: ¹When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
²It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound and may also influence temperature sensing.
³The volume of fresh air for direct installation type is approximately 1% of the indoor unit airflow. The chamber type is recommended when more fresh air is necessary.
⁴Please order using the names of both components instead of set name.
⁵Filter chamber is required.
⁶Please use in case temperature/humidity inside ceiling may get over 30°C, 80% RH.
⁷Wiring for wired remote controller should be obtained locally.
⁸The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
⁹Installation box for adaptor PCB(KRP1H98A) is necessary.

Round flow type: List of optional parts required to achieve different flow patterns

For each flow pattern – all round, 4-way, 3-way, 2-way, branch duct connection – the compatibility of each independently installed option (shown in the column on the left) to accessory options (listed across the top of each table) is shown in the cells where the relevant row and column intersect. A circle (O) indicates compatibility, and a cross (X) indicates incompatibility. Any options not shown below are not suitable for independent or accessory installation.

Flow Pattern	Optionally installable optional parts		Optional accessory parts					
	Panel/grille related	Auxiliary function related	Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type) ^{1,2}	Insulation kit for high humidity	High-efficiency filter unit ²	Ultra long-life filter unit ²
All-round flow 4-way flow	Panel/grille related	Panel spacer ¹		O	O	X	O	O
	Auxiliary function related	Fresh air intake kit (Chamber type) ^{1,2}	O	X	X	O	O	O
		Fresh air intake kit (Direct installation type)	O	X	O	O	O	O
		Insulation kit for high humidity	X	X	O	X	X	X
	Filter related	High-efficiency filter unit ²	O	O	O	X	X	X
		Ultra long-life filter unit ²	O	O	O	X	X	
3-way flow 2-way flow ⁵	Panel/grille related	Panel spacer ^{1,3}		△	△	X	X	△
	Auxiliary function related	Fresh air intake kit (Chamber type) ^{1,2}	△	X	X	X	X	O
		Fresh air intake kit (Direct installation type)	△	X	O	O	X	O
		Insulation kit for high humidity	X	X	O	X	X	X
	Filter related	Ultra long-life filter unit ²	△	O	O	X	X	X
Branch duct connection	Independently installable optional parts		Panel spacer ¹	Fresh air intake kit (Chamber type) ^{1,2}	Fresh air intake kit (Direct installation type)	Insulation kit for high humidity	High-efficiency filter unit ²	Ultra long-life filter unit ²
	Branch duct chamber ¹	1-way branch / unit 3-way flow	O	O	O ⁴	X	X	O
		2-way branch / unit 2-way flow	X	O	O ⁴	X	X	O
		1-way branch / unit 2-way flow	X	O	O ⁴	X	X	O

1. In some cases, depending on how the unit is embedded in the ceiling, use of branch ducts and fresh air intake kits may not be possible. Before starting installation work make sure to check whether or not joint installation is possible. In particular, ensure that the lower fixing position caused by the addition of panel spacers is acceptable. When branch ducts are used, circulation airflow is not available.
2. When two different types of optional chambers are used together, a fresh air intake kit must be installed in the upper position.
3. It is not possible to use panel spacers in a 2-way flow installation. (△)
4. It is not possible to install a branch duct on the same side to which a fresh air intake kit (direct mount) is installed.
5. When 3-way or 2-way flow is selected, circulation airflow is not available.

Indoor unit

CEILING SUSPENDED TYPE



No.	Name of option		Remark	Kit name				
				FHFC40DV14 FHFC50DV14	FHFC60DV14	FHFC71DV14	FHFC85DV14	FHFC100DV14 FHFC125DV14 FHFC140DV14
1	Replacement long-life filter		Resin net	KAFJ501D56	KAFJ501D80	KAFJ501D112	KAFJ501D160	KAF501B160
2	Fresh air intake kit			—				KDDQ50A140
3	Drain pump kit			KDU50N60VE	KDU50N125VE			KDU50R160
4	L-type piping kit (for upward direction)			KHFP5M63	KHFP5M160			KHFP5N160
5	Remote controller	Wireless type	Cooling only	BRC7EA66				BRC7GA56
6	Simplified remote controller	Wired type ¹		BRC2E61				
7	Central remote controller			DCS302CA61 ²			DCS302CA61 ³	
8	Unified ON/OFF controller			DCS301BA61 ²			DCS301BA61 ³	
9	Schedule timer			DST301BA61 ²			DST301BA61 ³	
10	intelligent Touch Controller			DCS601C51 ²			DCS601C51 ³	
11	Adaptor for wiring			KRP1BA54				
12	Wiring adaptor for electrical appendices ⁴			KRP4AA52				
13	Installation box for adaptor PCB			KRP1CA93			KRP1D93A	
14	Interface adaptor for SkyAir series			DTA112BA51			—	
15	Remote sensor (for indoor temperature)			BRCS01A-1			BRCS01A-4	
16	Electrical box with earth terminal (3 blocks)			KJB311AA				
17	Electrical box with earth terminal (2 blocks)			KJB212AA				

Note: ¹Wiring for wired remote controller should be obtained locally.
²This optional accessory requires DTA112BA51.
³The indoor unit is equipped standardly with the interface adaptor for SkyAir series. An option is unnecessary.
⁴Installation box for adaptor PCB (KRP1CA93, KRP1D93A) is necessary.

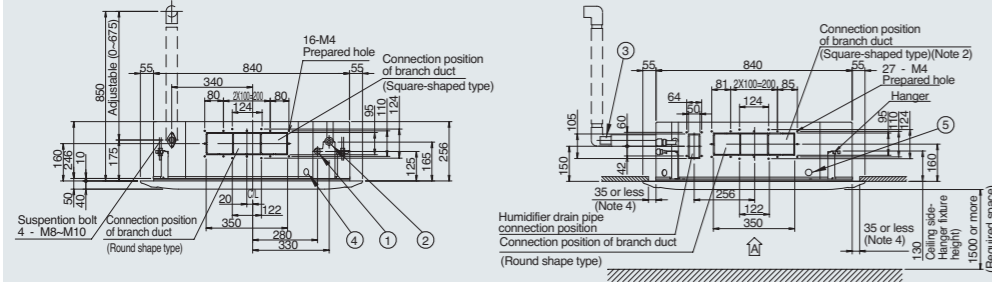
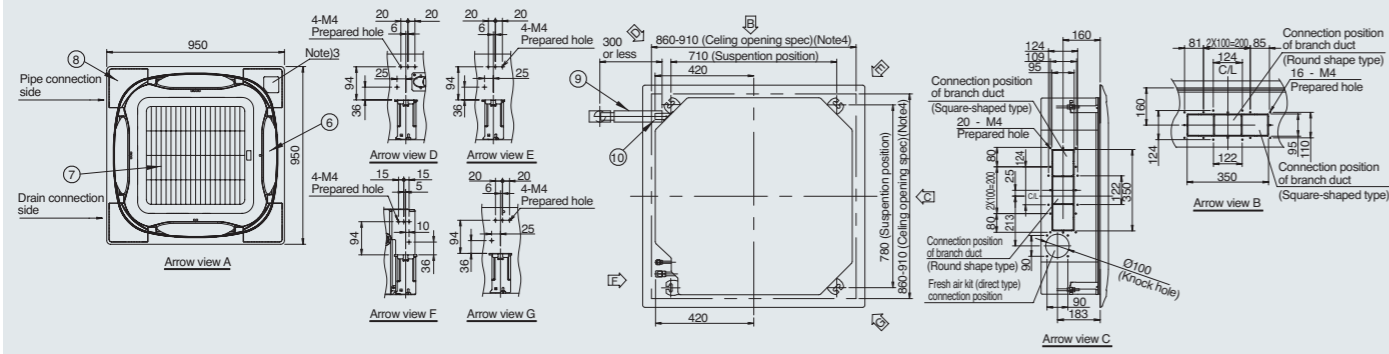
Outdoor unit



No.	Name of option		Kit name			
			1 Phase	RZFC40/50/60/71DVM4	RZFC85/100DVM4	—
			3 Phase	—	RZFC71/85/100DY14	RZFC125/140DY14
1	Central drain plug			KKP014A4	KKP937A4	KKPJ5G280
2	Fixture for preventing overturning			—	—	KKTP5B112
3	Wire fixture for preventing overturning			—	—	K-KYZP15C

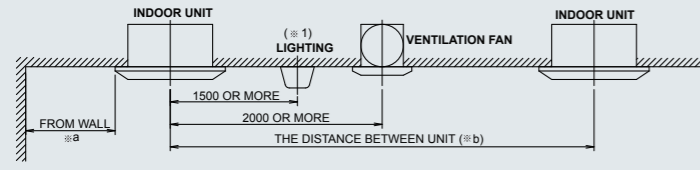
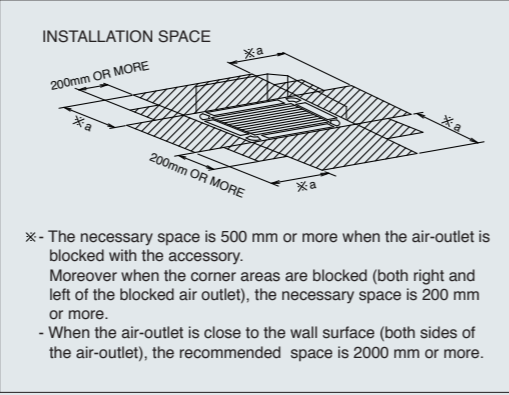
CEILING MOUNTED CASSETTE TYPE / Standard panel

[FCFC40/50/60DVM4]



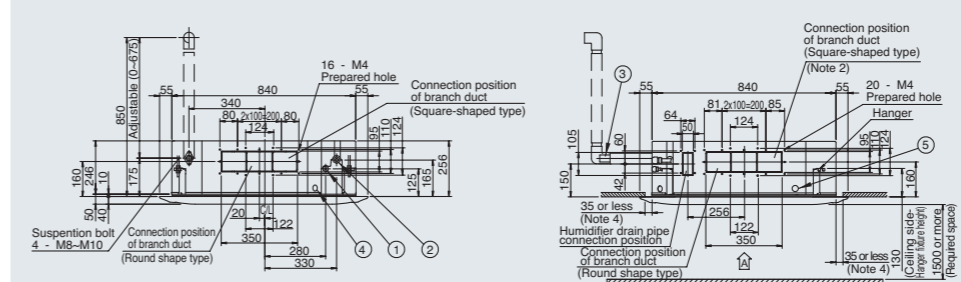
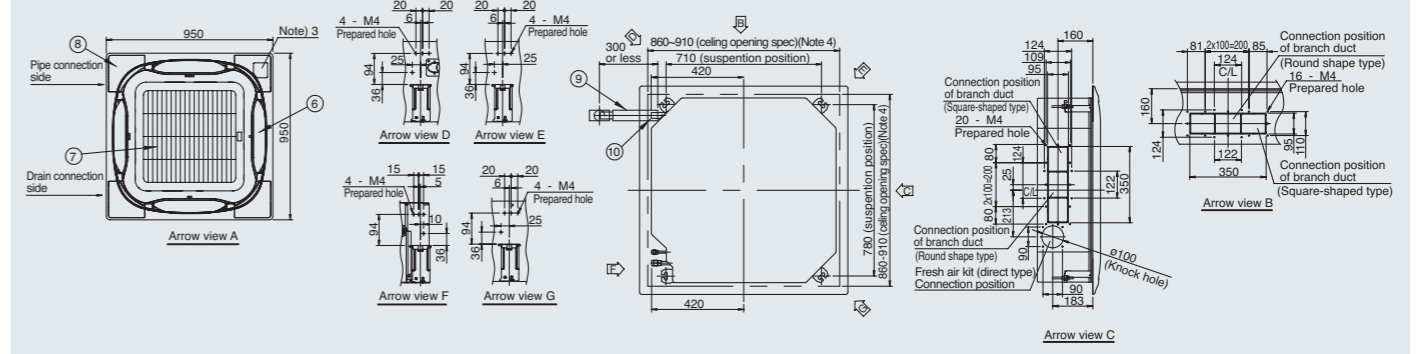
- Decoration panel
BYCQ125EAF Standard panel (Fresh white)
- ① Liquid pipe connection
- ② Gas pipe connection
- ③ Drain pipe connection
- ④ Power-source wiring and a unit wiring connection
- ⑤ Connection wiring / Remote control wiring connection
- ⑥ Air outlet
- ⑦ Suction grille
- ⑧ Corner decoration cover
- ⑨ Drain hose (accessory)
- ⑩ Drain hose connection port

- Note:
1. Sticking location for Manufacturer's label
 Manufacturer's label for Indoor unit : Suction grille inner side's electric components box's lid surface.
 Manufacturer's label for Decoration panel : Decoration panel's corner decoration cover inner surface.
 2. In case of having option part built-in, please refer outside drawing of option part.
 Fresh air intake kit.....inspection hole Need
 Natural evaporate type humidifier.....inspection hole Need
 Air purifier unit.....inspection hole No Need
 High efficiency filter unit.....inspection hole No Need
 Branch duct chamber.....inspection hole No Need
 (both angle duct + circle duct)
 3. In case of using wireless remote controller, this position will be a signal receiver.
 Refer to the drawing of wireless remote controller in detail.
 4. Though the installation is acceptable up to maximum of 910 mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
 5. When the temperature and humidity in the ceiling exceed 30°C and 80% RH or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.
 6. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.
 7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty, therefore shall install following to diagram as below.



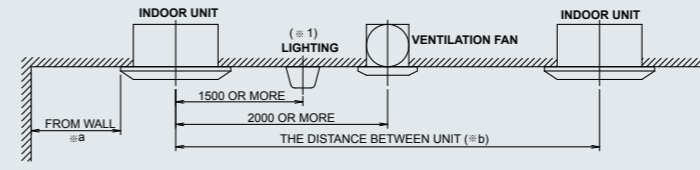
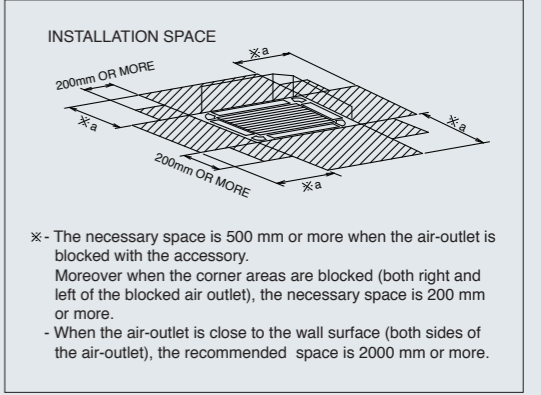
CEILING MOUNTED CASSETTE TYPE / Standard panel

[FCFC71/85DVM4]



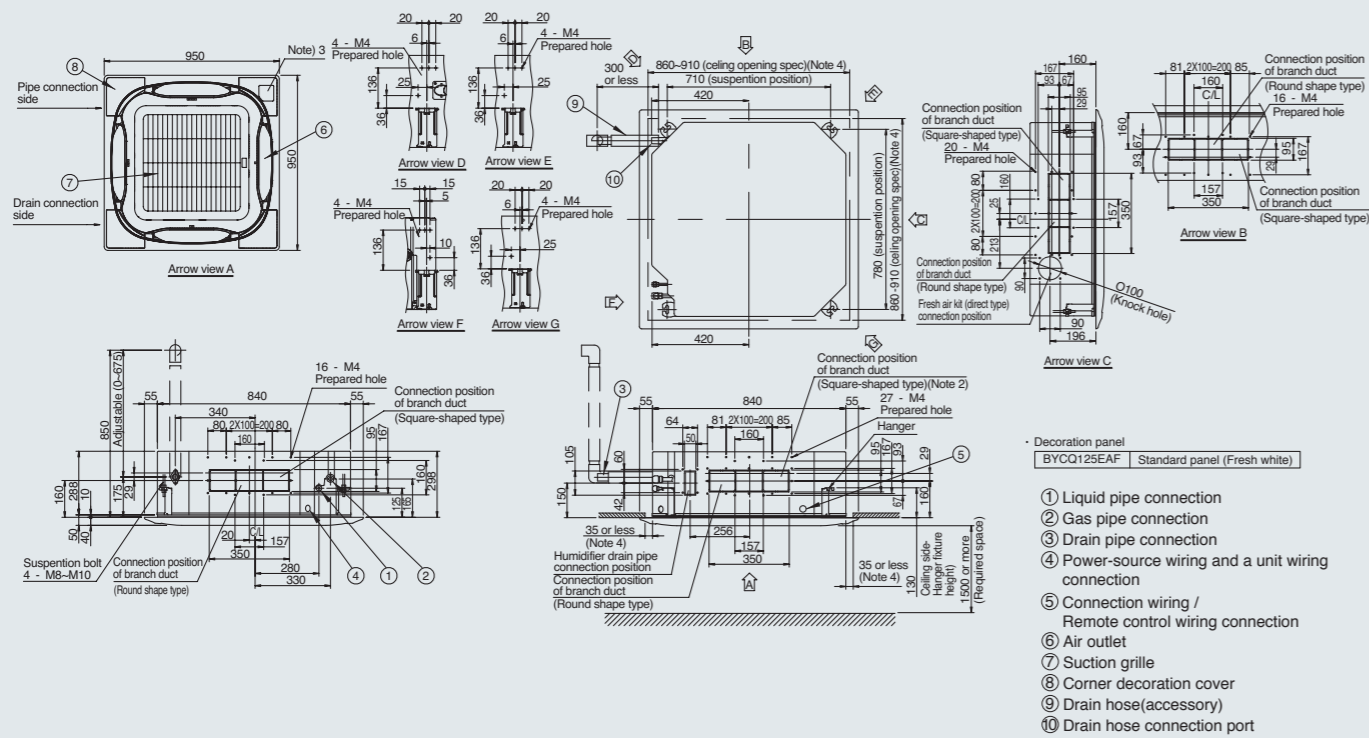
- Decoration panel
BYCQ125EAF Standard panel (Fresh white)
- ① Liquid pipe connection
- ② Gas pipe connection
- ③ Drain pipe connection
- ④ Power-source wiring and a unit wiring connection
- ⑤ Connection wiring / Remote control wiring connection
- ⑥ Air outlet
- ⑦ Suction grille
- ⑧ Corner decoration cover
- ⑨ Drain hose (accessory)
- ⑩ Drain hose connection port

- Note:
1. Sticking location for Manufacturer's label
 Manufacturer's label for Indoor unit : Suction grille inner side's electric components box's lid surface.
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 2. In case of having option part built-in, please refer outside drawing of option part.
 Fresh air intake kit.....inspection hole Need
 Natural evaporate type humidifier.....inspection hole Need
 Air purifier unit.....inspection hole No Need
 High efficiency filter unit.....inspection hole No Need
 Branch duct chamber.....inspection hole No Need
 (both angle duct + circle duct)
 3. In case of using wireless remote controller, this position will be a signal receiver.
 Refer to the drawing of wireless remote controller in detail.
 4. Though the installation is acceptable up to maximum of 910 mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
 5. When the temperature and humidity in the ceiling exceed 30°C and 80% RH or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.
 6. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.
 7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty, therefore shall install following to diagram as below.

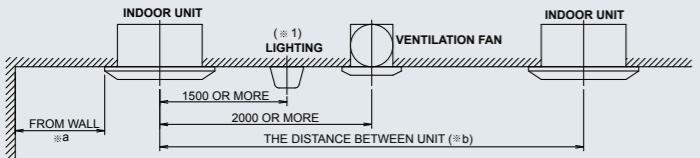
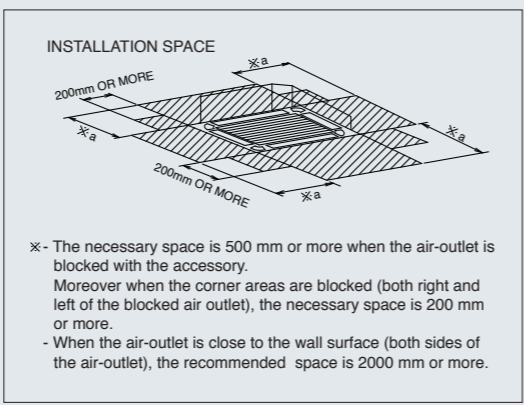


CEILING MOUNTED CASSETTE TYPE / Standard panel

[FCFC100/125/140DVM4]

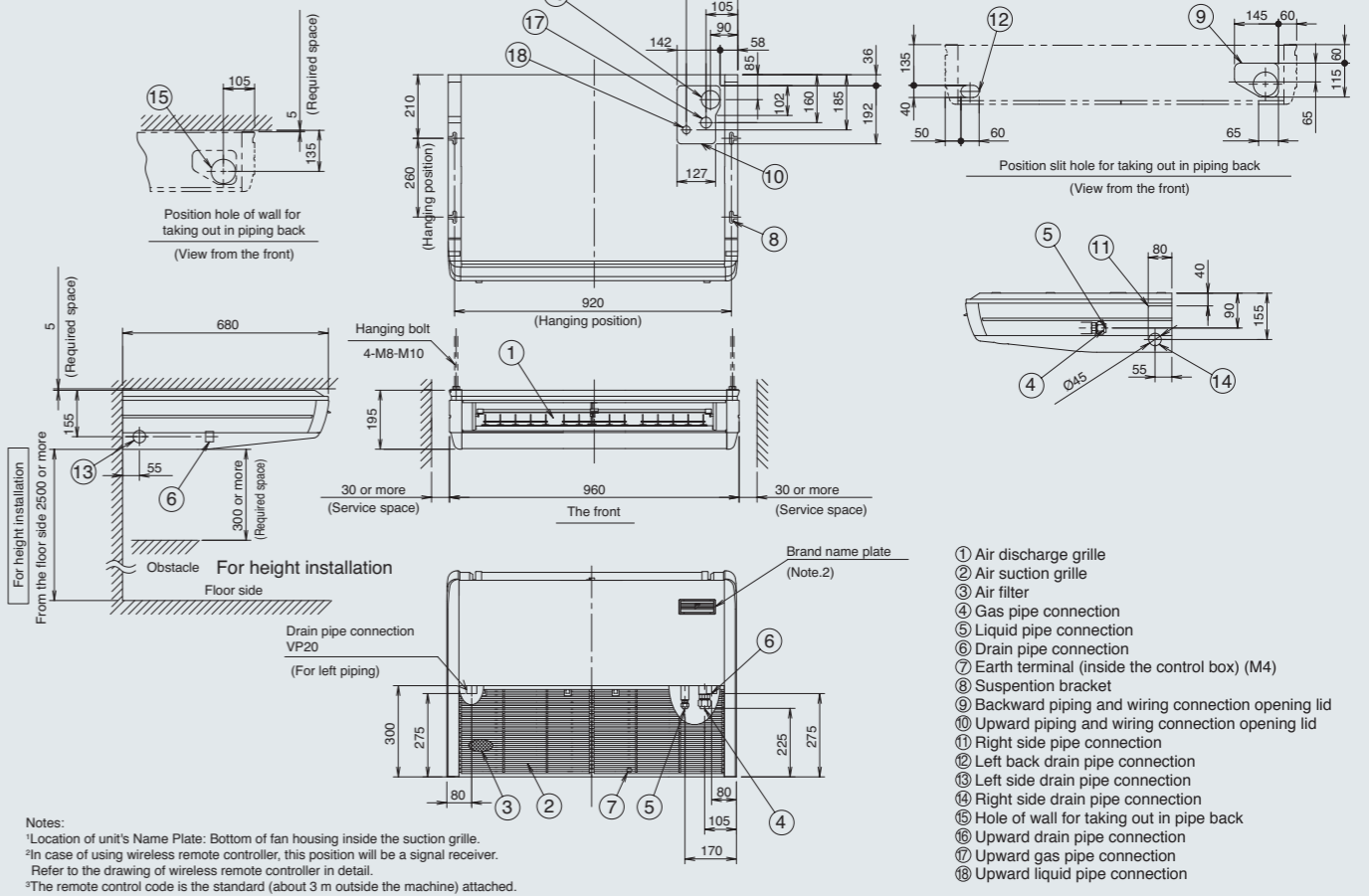


- Note:
1. Sticking location for Manufacturer's label
 Manufacturer's label for Indoor unit : Suction grille inner side's electric components box's lid surface.
 Manufacturer's label for Decoration panel : Decoration panel's corner decoration cover inner surface.
 2. In case of having option part built-in, please refer outside drawing of option part.
 Fresh air intake kit.....inspection hole Need
 Natural evaporate type humidifier.....inspection hole Need
 Air purifier unit.....inspection hole No Need
 High efficiency filter unit.....inspection hole No Need
 Branch duct chamber.....inspection hole No Need
 (both angle duct • circle duct)
 3. In case of using wireless remote controller, this position will be a signal receiver.
 Refer to the drawing of wireless remote controller in detail.
 4. Though the installation is acceptable up to maximum of 910 mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
 5. When the temperature and humidity in the ceiling exceed 30°C and 80% RH or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.
 6. Please do not place the thing been damp and troubled under an indoor unit. when the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.
 7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty, therefore shall install following to diagram as below.



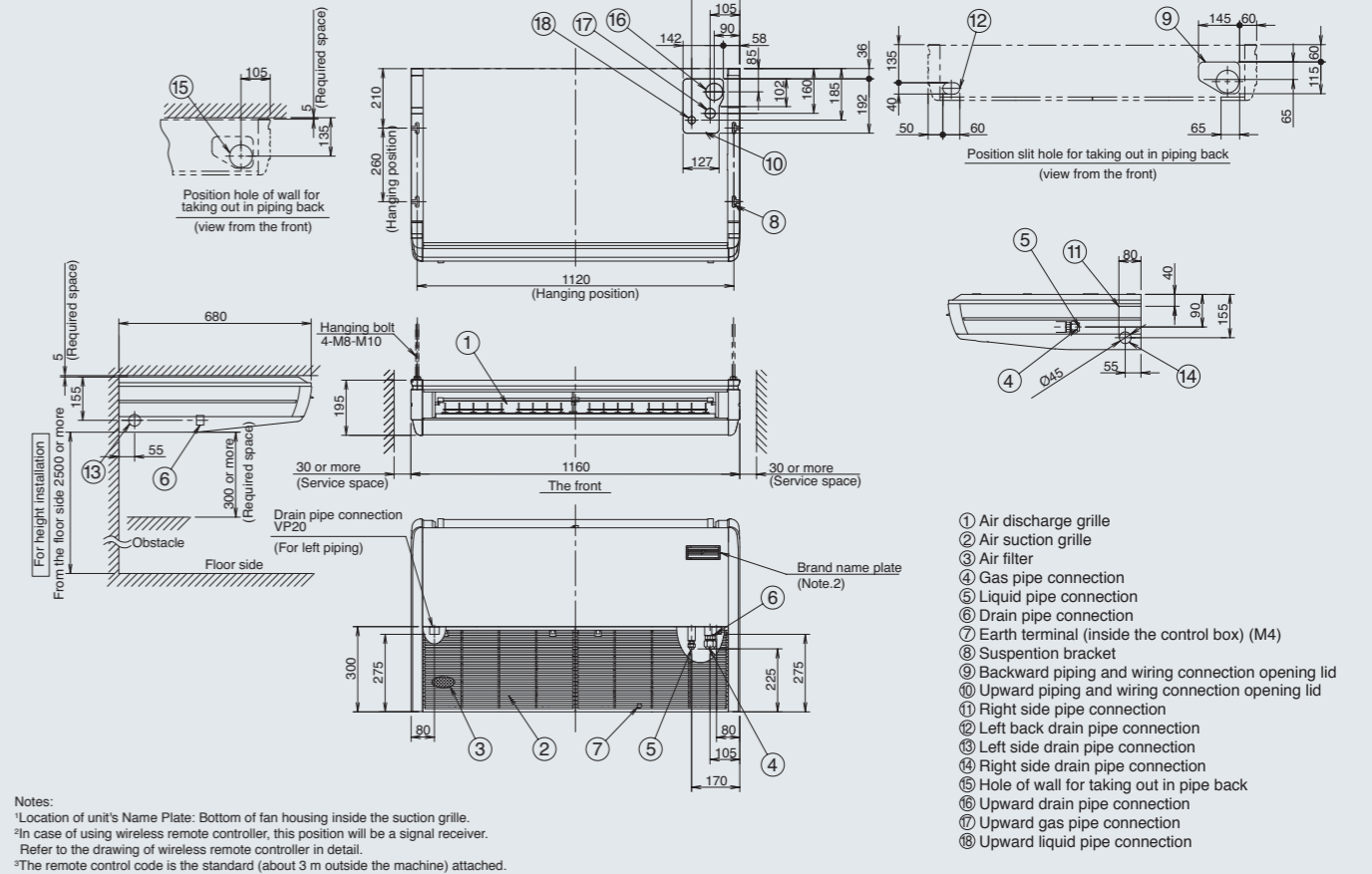
CEILING SUSPENDED TYPE

[FHFC40/50DV14]

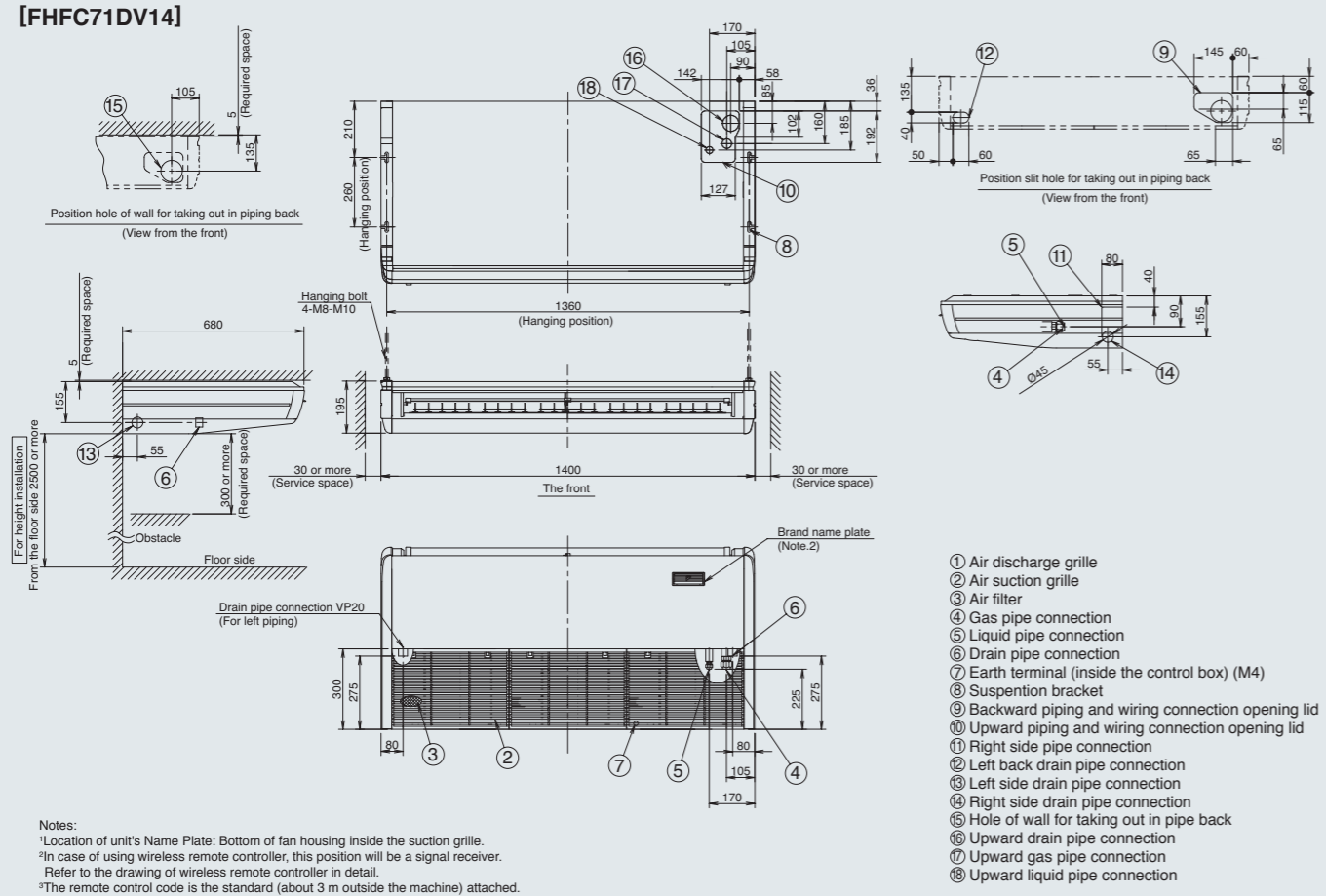


CEILING SUSPENDED TYPE

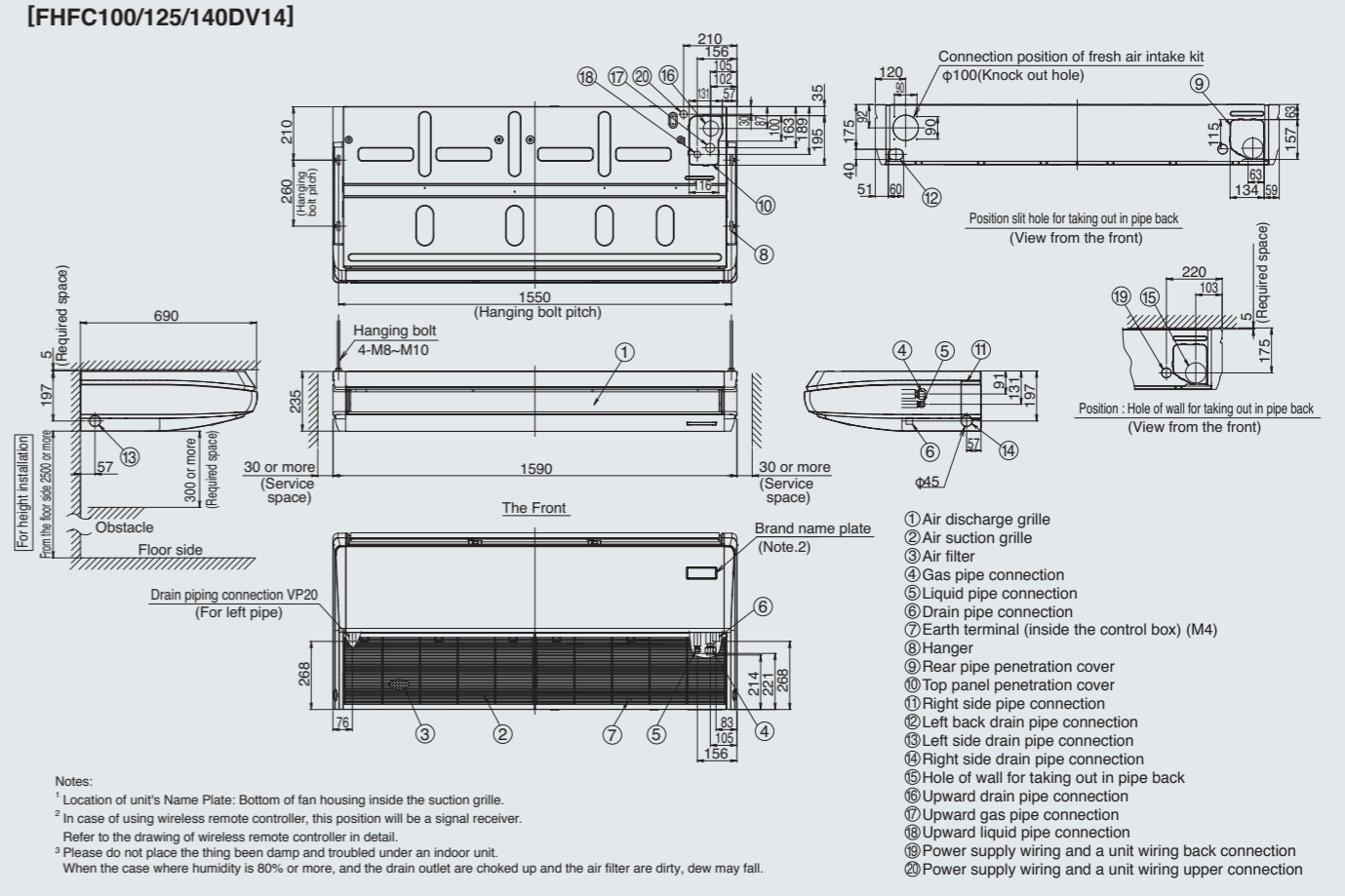
[FHFC60DV14]



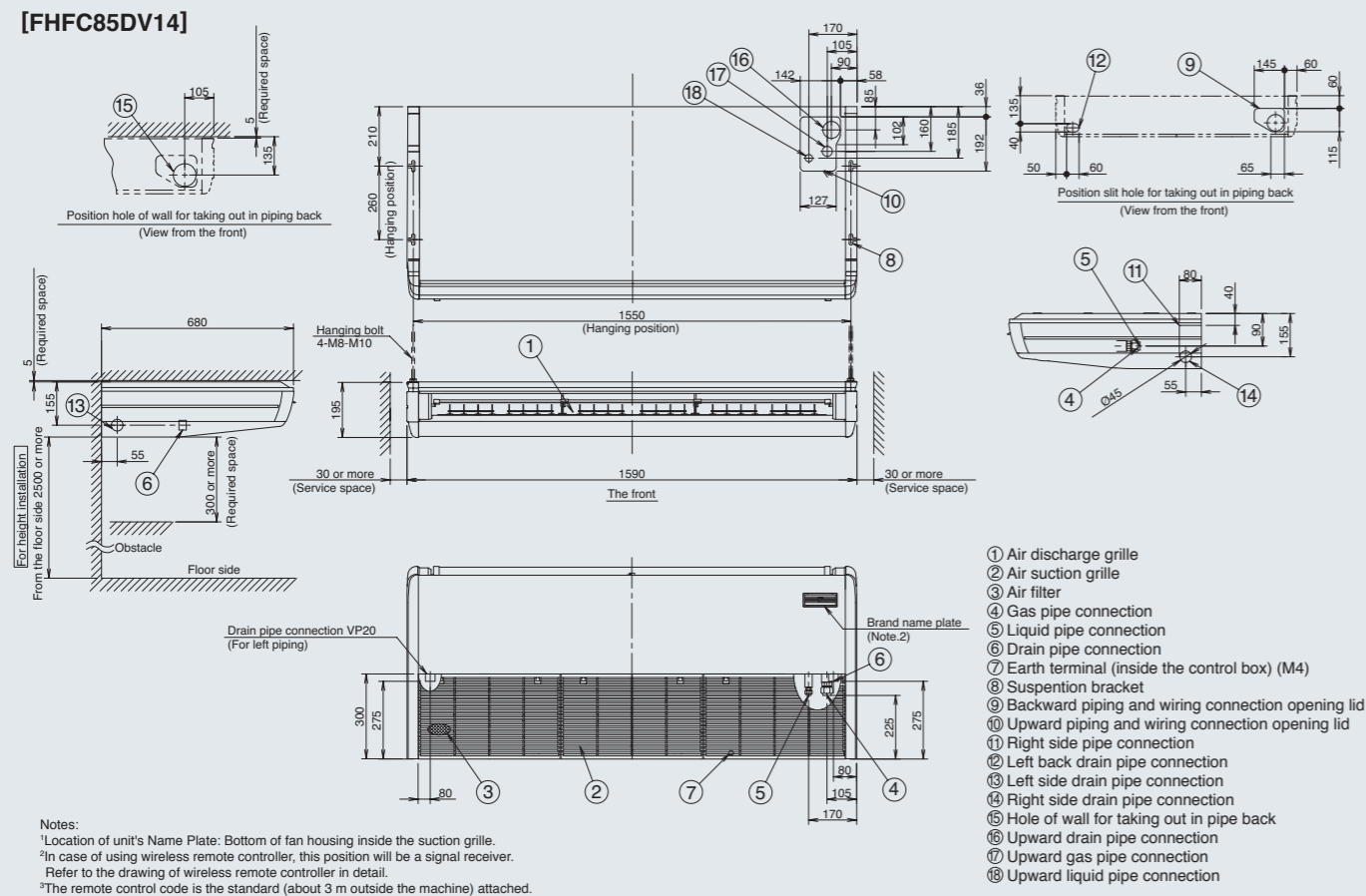
CEILING SUSPENDED TYPE



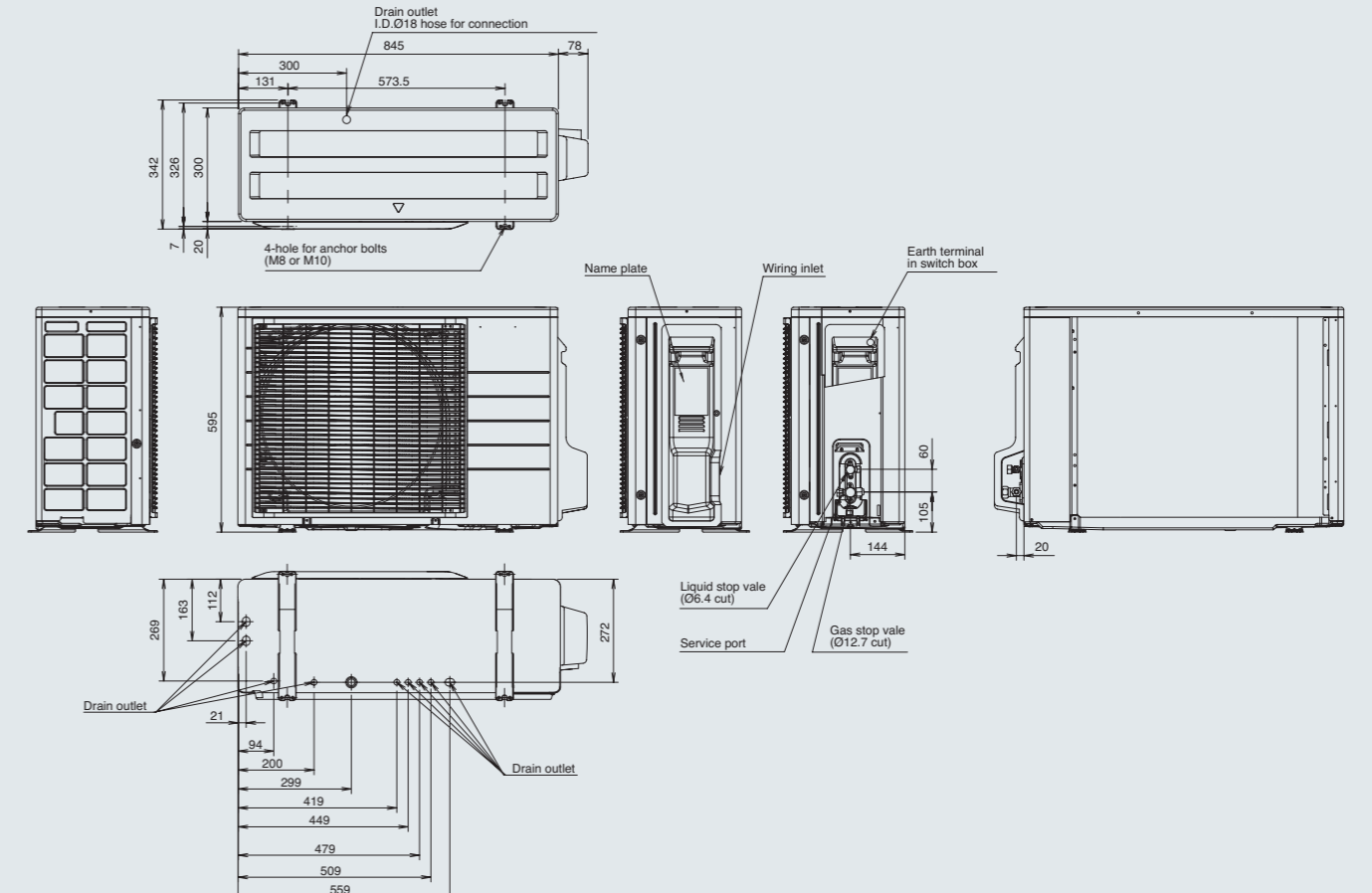
CEILING SUSPENDED TYPE



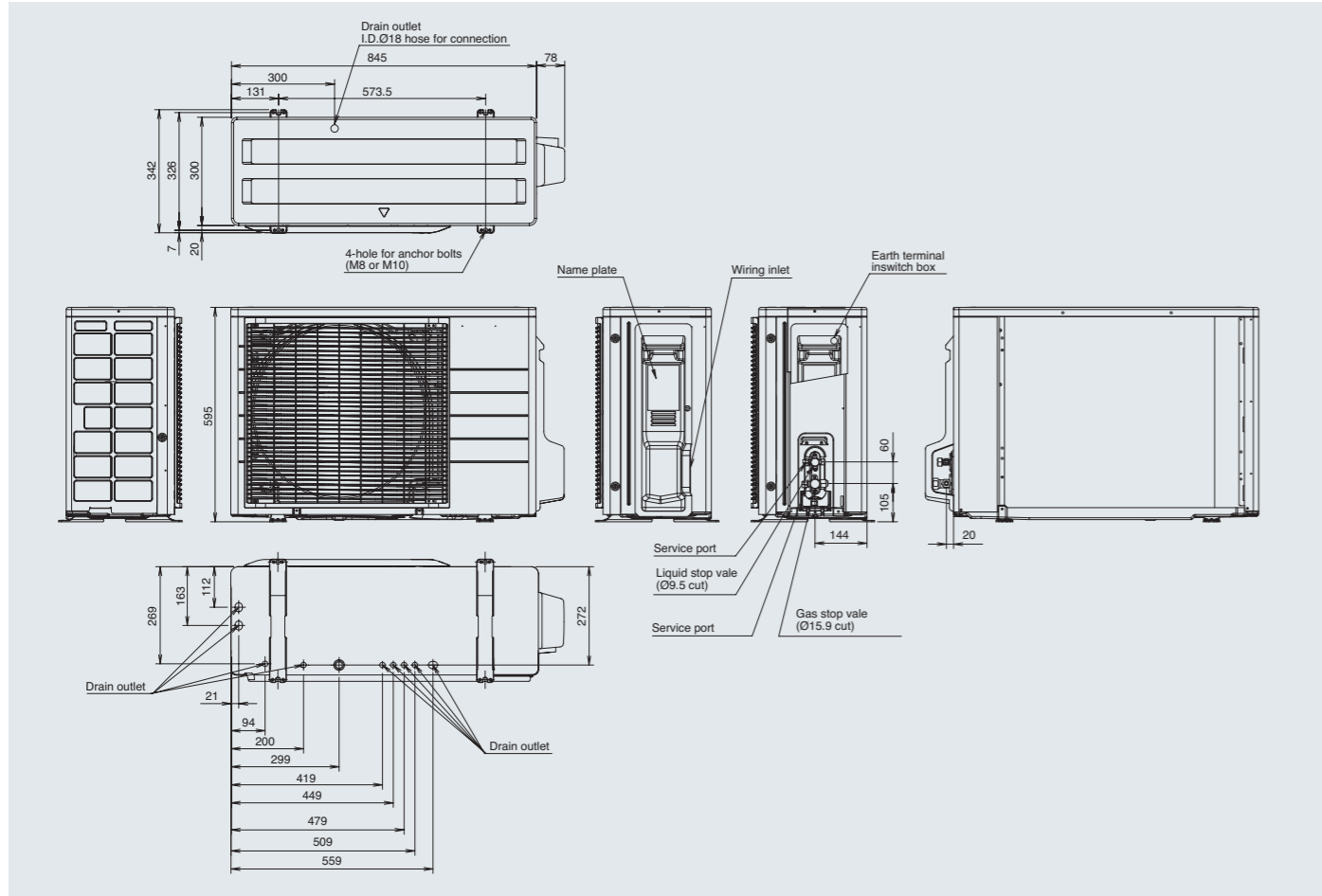
CEILING SUSPENDED TYPE



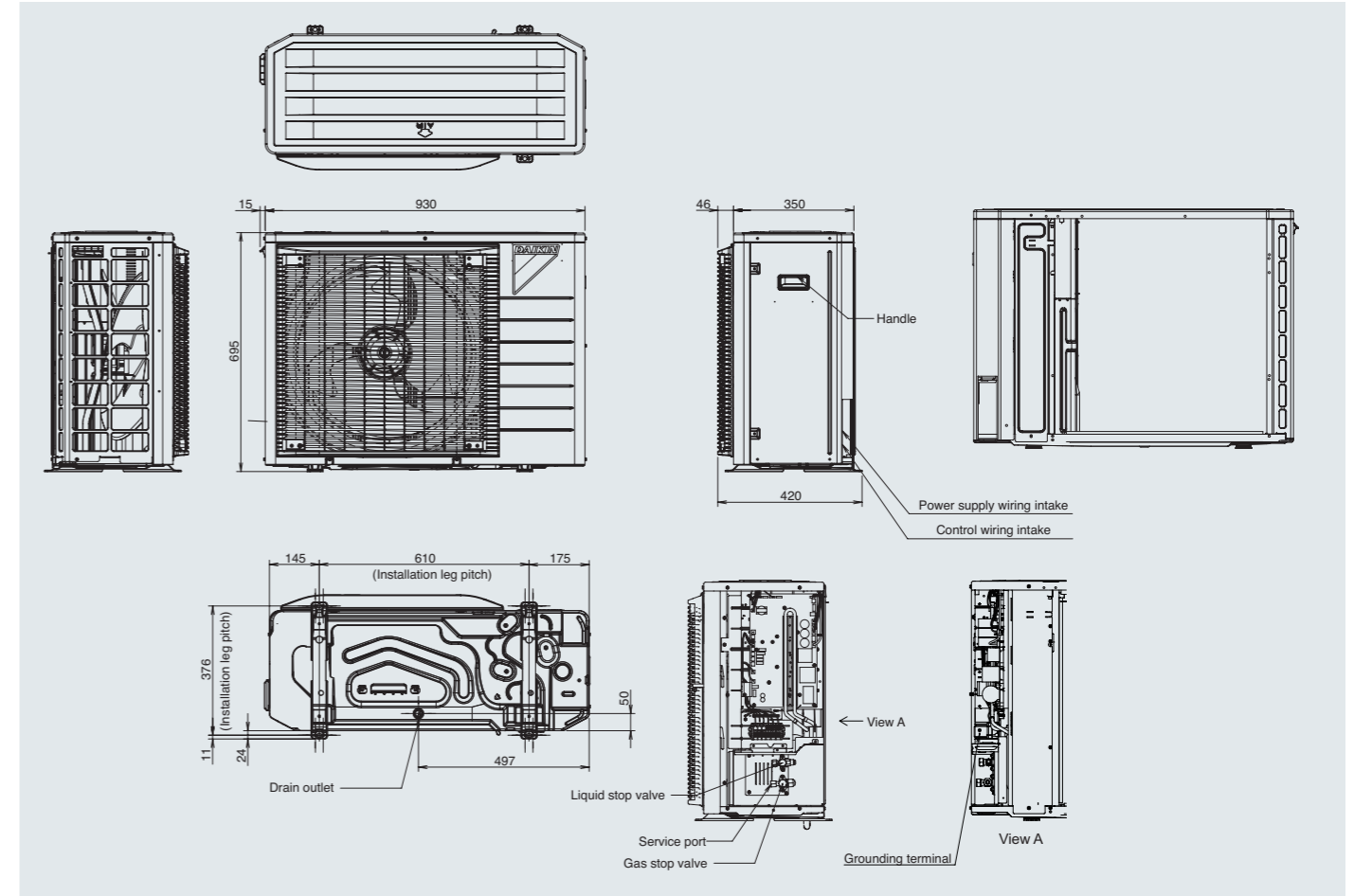
OUTDOOR UNIT // RZFC40/50/60DVM4



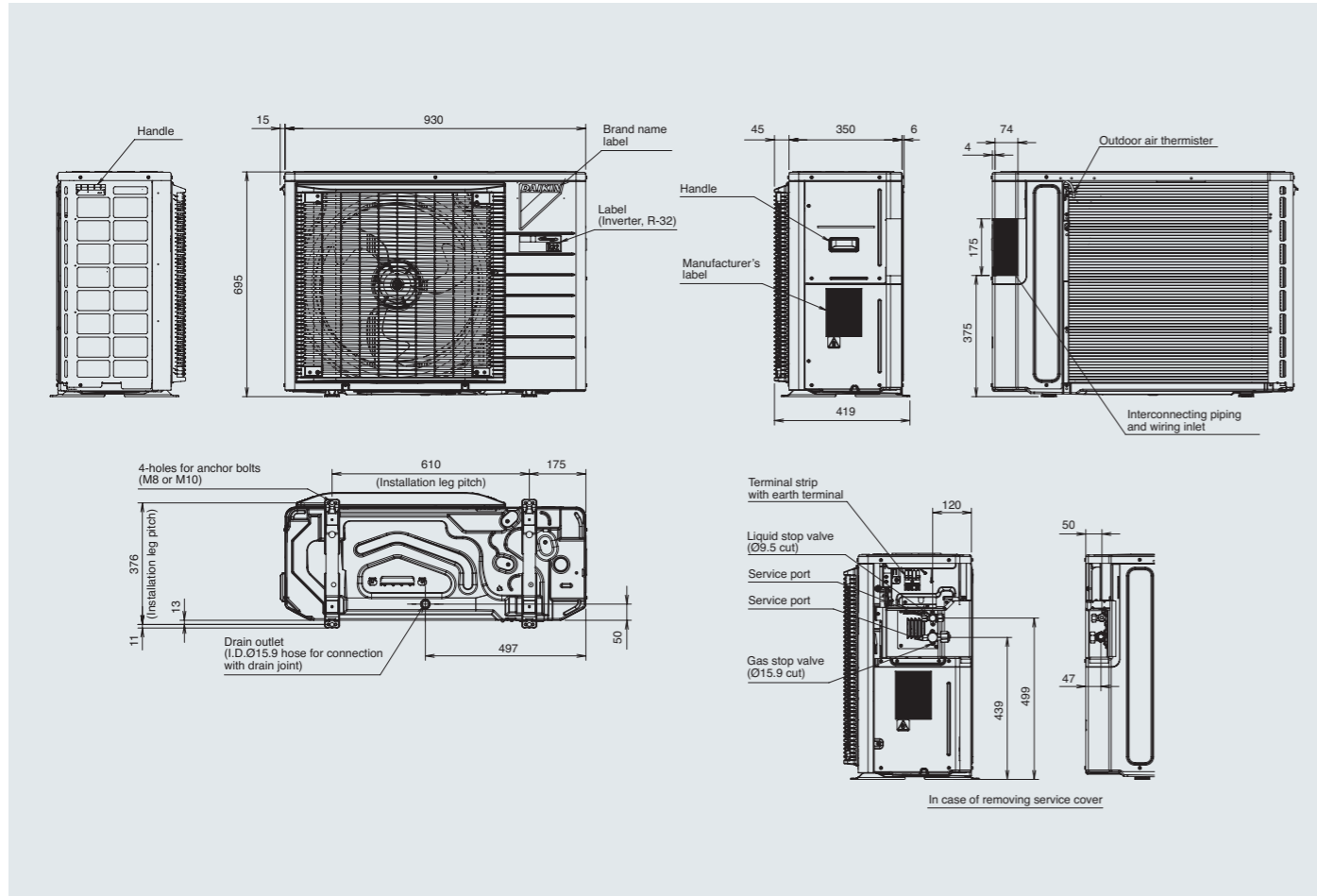
OUTDOOR UNIT // RZFC71DVM4



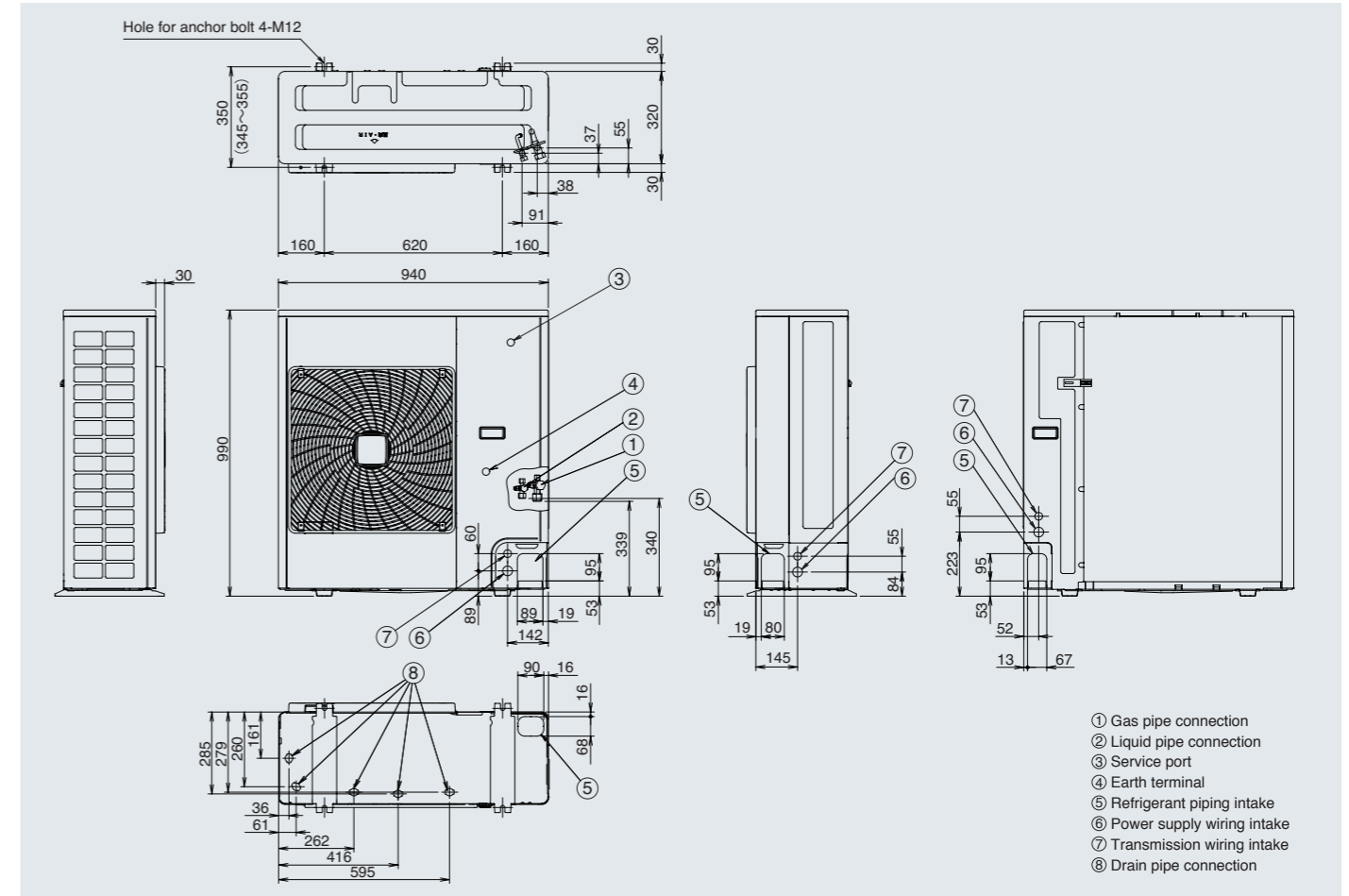
OUTDOOR UNIT // RZFC71/85/100DY14



OUTDOOR UNIT // RZFC85/100DVM4



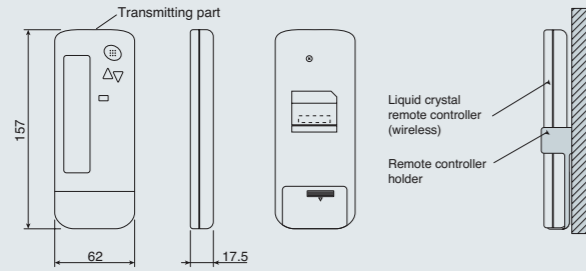
OUTDOOR UNIT // RZFC125/140DY14



REMOTE CONTROLLER

《Wireless type》

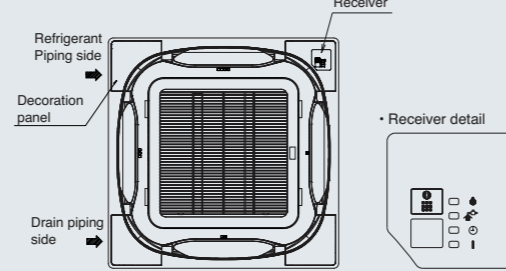
Remote controller dimensions



Remote controller holder installation procedure
《installation to wall surface》

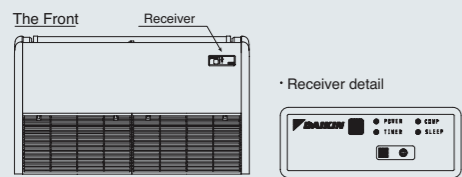
CEILING MOUNTED CASSETTE TYPE <Round Flow>

Receiver installation procedure

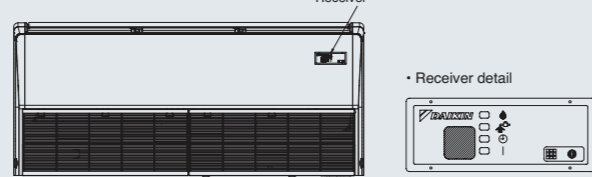


CEILING SUSPENDED TYPE

Receiver installation procedure



Receiver installation procedure

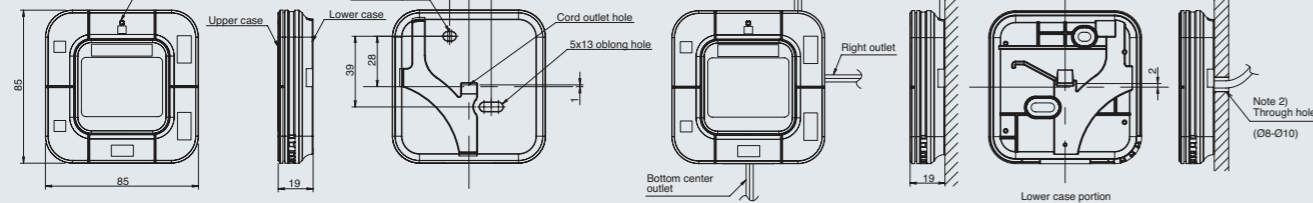


《Wired type》

Remote controller dimensions

BRC2E61

Remote controller dimensions



Note)
1. Remote controller cord and staple are not attached. They are field supplied parts.
2. If the hole size is too large or the location is not proper, the hole may come out from the remote controller.

Specifications of cord

Type	Vinyl cord with sheath or cable (insulated thickness: 1mm or more)
Size	0.75~1.25 mm ²
Total length	500 m

■ For RZFC40-100DVM4, RZFC71-140DY14 series

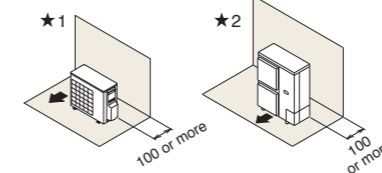
★1.RZFC40-100DVM4, 71-100DY14 ★2.RZFC125/140DY14

1 When there is an obstruction on the inlet side

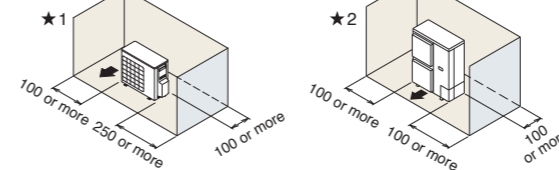
1) When the overhead space is open

1. For single unit installation

When there is an obstruction only on the inlet side

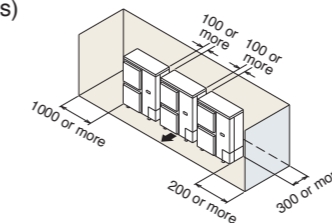


When there are obstructions on both sides



2. For multiple units installation (more than two units)

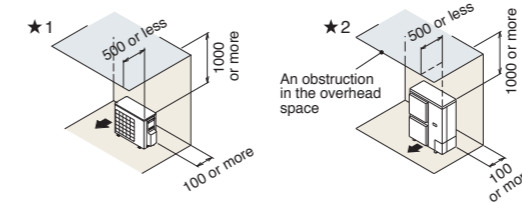
When there are obstructions on both sides



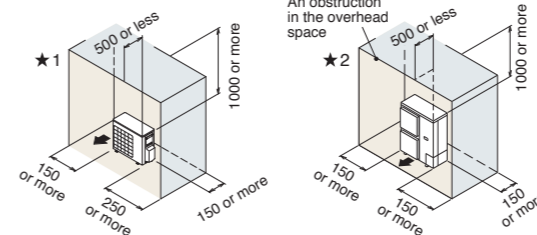
2) When there is an obstruction in the overhead space

1. For single unit installation

When there is an obstruction on the inlet side

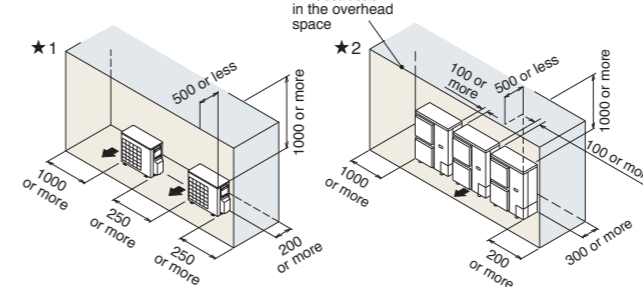


When there are obstructions on the inlet side and both lateral sides



2. For series installation (more than two units)

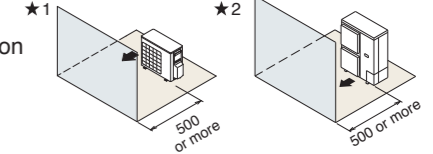
When there are obstructions on the inlet side and both lateral sides



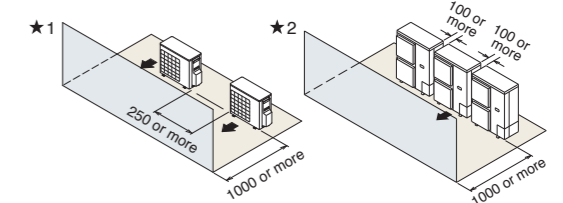
2) When there is an obstruction on the outlet side

1) When the overhead space is open

1. For single unit installation

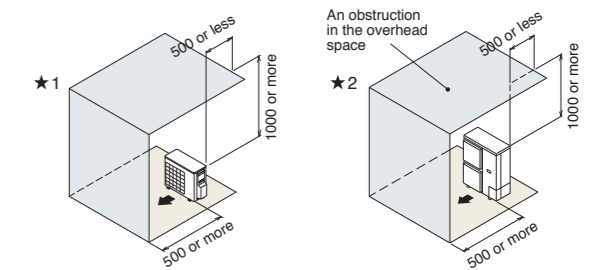


2. For multiple units installation (more than two units)

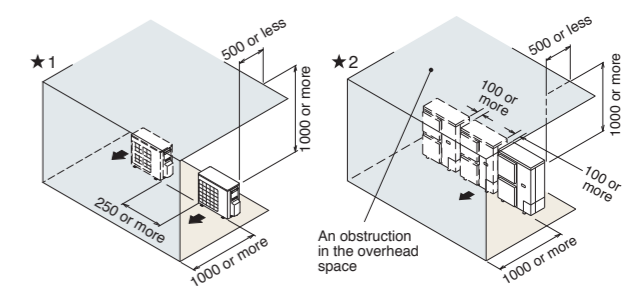


2) When there is an obstruction in the overhead space

1. For single unit installation



2. For multiple units installation (more than two units)



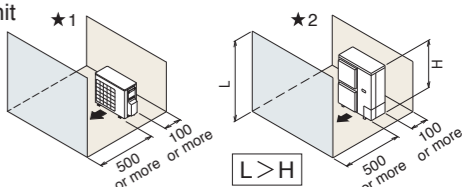
3) When there are obstructions on both the inlet and outlet sides

(When the obstruction on the outlet side is higher than the unit itself)

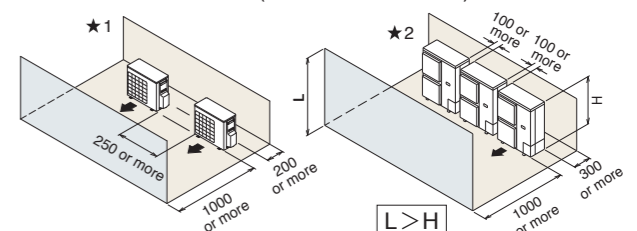
1) When the overhead space is open

(There is no limit to the height of the obstruction on the outlet side.)

1. For single unit installation



2. For series installation (more than two units)



Note : As for other patterns of installation, please refer to Installation manual or Engineering Data Book.