



- Warning**
- 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.

Đại lý phân phối

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PCSVN1914

SkyAir

INVERTER

AIR CONDITIONING SYSTEM
COOLING ONLY [50Hz]



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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<div> <div>CEILING MOUNTED CASSETTE TYPE</div> <div> <div>ROUND FLOW</div> <div>Round Flow</div> </div> </div>				
Indoor unit	FCFC40DVM	FCFC50DVM	FCFC60DVM	FCFC71DVM
Outdoor unit	RZFC40DVM	RZFC50DVM	RZFC60DVM	RZFC71DVM RZFC71DY1

OUTDOOR UNIT					
Outdoor unit	RZFC40DVM	RZFC50DVM	RZFC60DVM	RZFC71DVM	RZFC71DY1
Power supply	1 phase, 220-240 / 220-230V, 50 / 60Hz	1 phase, 220-240 / 220-230V, 50 / 60Hz	1 phase, 220-240 / 220-230V, 50 / 60Hz	1 phase, 220-240 / 220-230V, 50 / 60Hz	3 phase, 380V, 50Hz

85	100	125	140	
				Page 11
FCFC85DVM	FCFC100DVM	FCFC125DVM	FCFC140DVM	
RZFC85DVM RZFC85DY1	RZFC100DVM RZFC100DY1	RZFC125DY1	RZFC140DY1	

					Page 17
RZFC85DVM RZFC85DY1	RZFC100DVM RZFC100DY1	RZFC125DY1	RZFC140DY1		
1 phase, 220-240 / 220-230V, 50 / 60Hz	3 phase, 380V, 50Hz	1 phase, 220-240 / 220-230V, 50 / 60Hz	3 phase, 380V, 50Hz	3 phase, 380V, 50Hz	



New Inverters launched

SkyAir

R-32

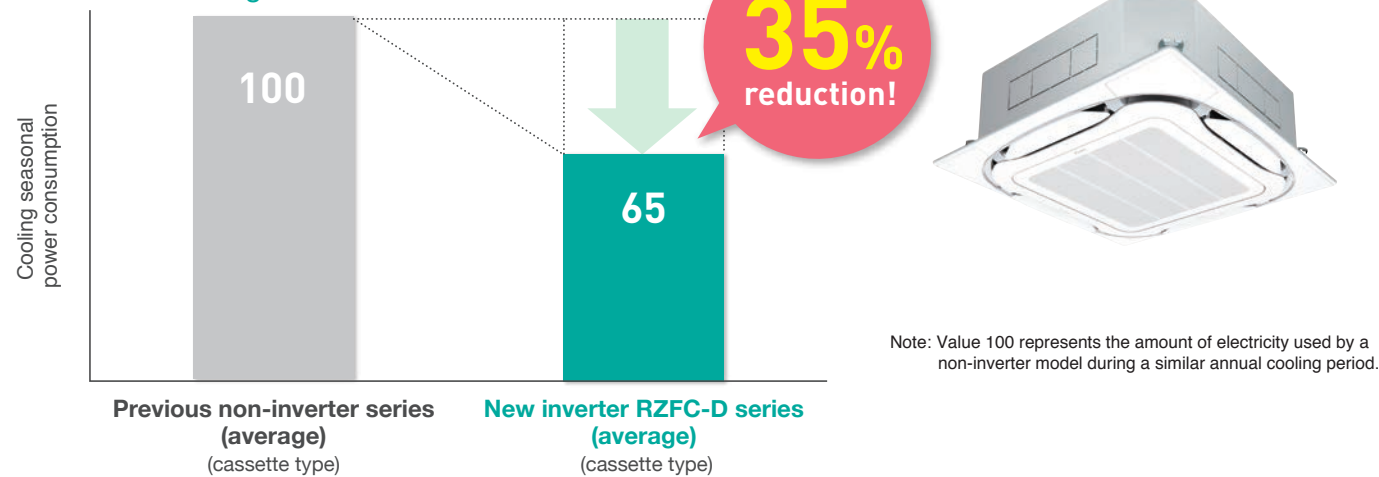
Cooling only

Energy Saving

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

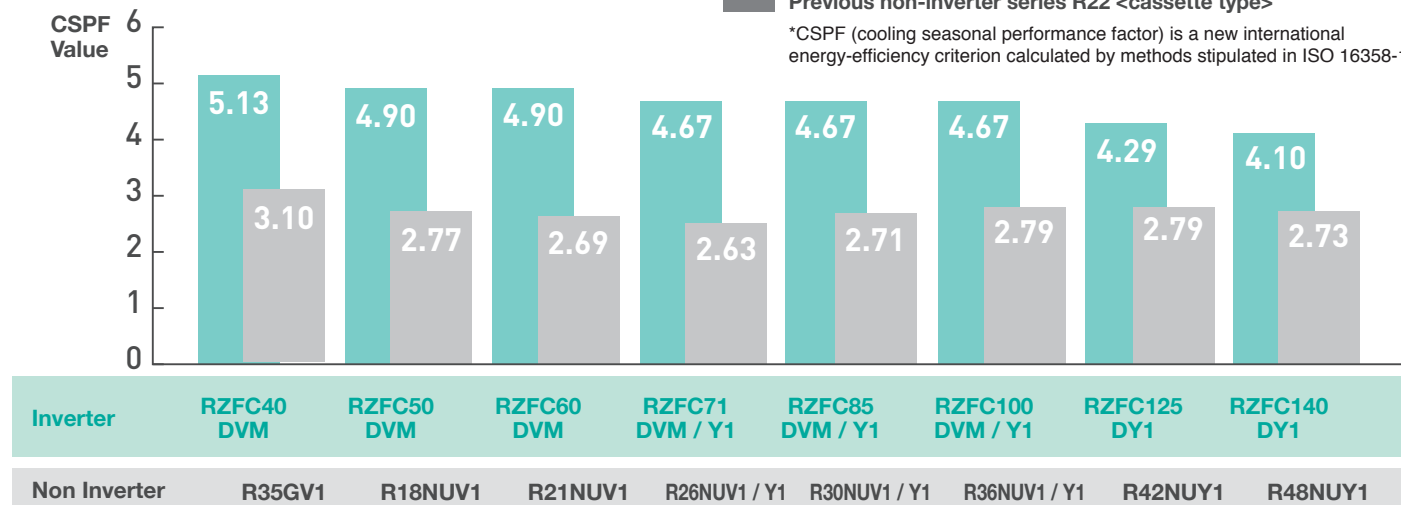
Compared with previous non-inverter series, the new RZFC-D series uses about 35% less power consumption for quick and effective cooling that reduces electricity bills.

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



- CSPF values by capacity for cassette models

■ New inverter RZFC-D series R32 <cassette type>
■ Previous non-inverter series R22 <cassette type>
*CSPF (cooling seasonal performance factor) is a new international energy-efficiency criterion calculated by methods stipulated in ISO 16358-1.



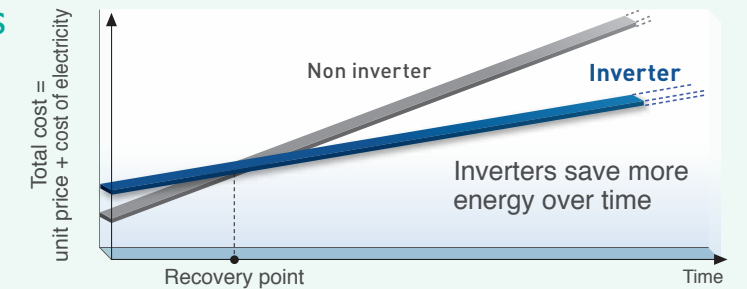
What is CSPF?

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

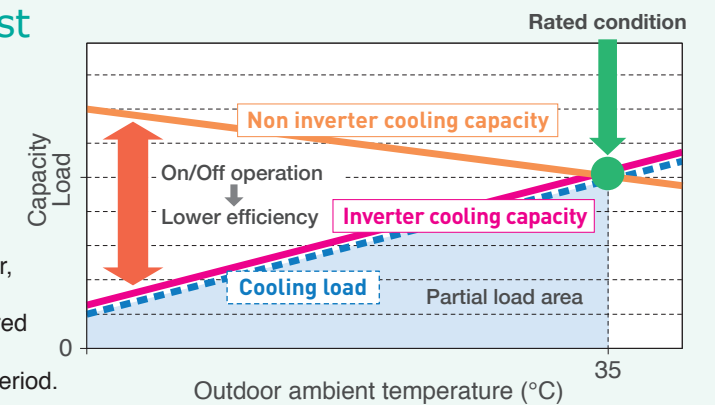
Why is inverter technology economical?

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



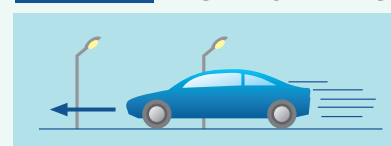
- Inverter air conditioner can adjust its cooling capacity according to the cooling load. This results in less power consumption.

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

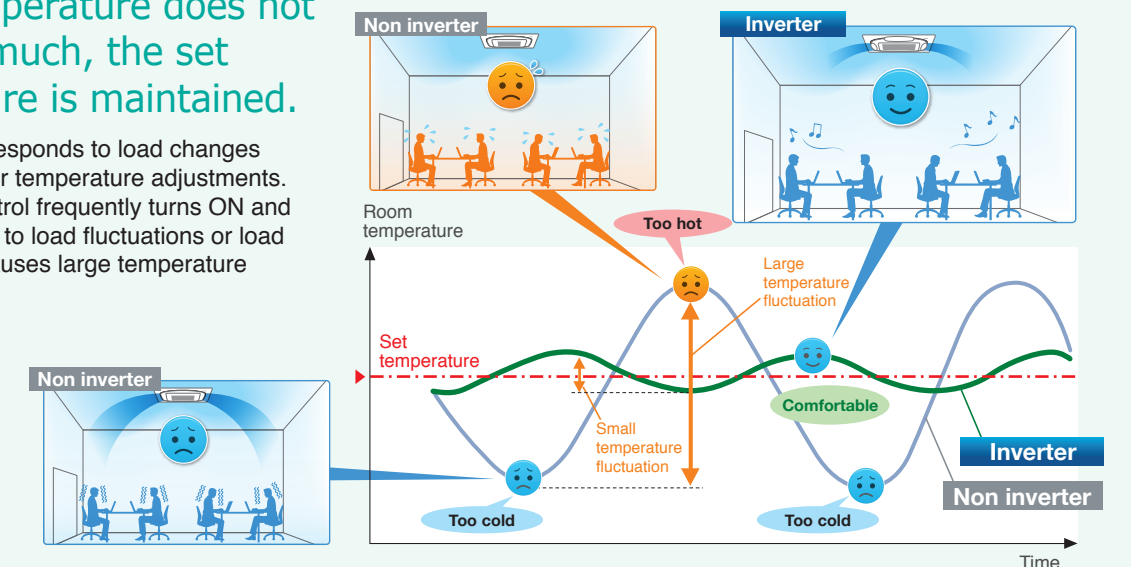


Constantly stopping and starting consumes energy and is less fuel efficient.

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.



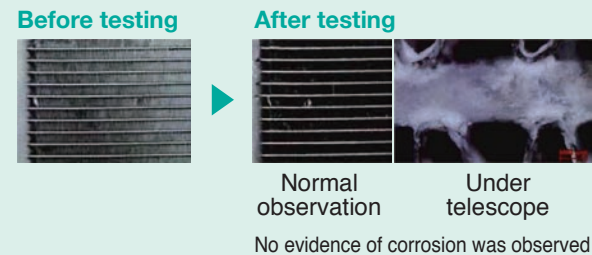
Durability

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



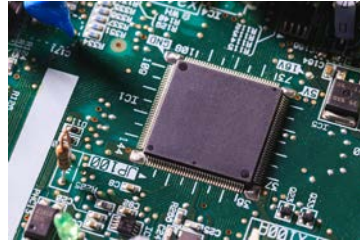
After undergoing an intensive test, the Daikin microchannel heat exchanger is able to maintain its shape without corrosion, which strongly confirms its durability in a highly corrosive environment.

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



Coated printed circuit boards (outdoor unit)

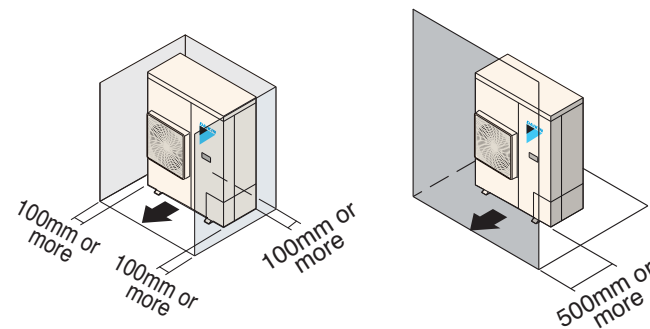
Coated circuit boards prevent problems caused by humidity and airborne dust. It also protects against salt contained in sea breezes. Both sides of the PCB in outdoor units are coated.



Automatic protection against low voltage

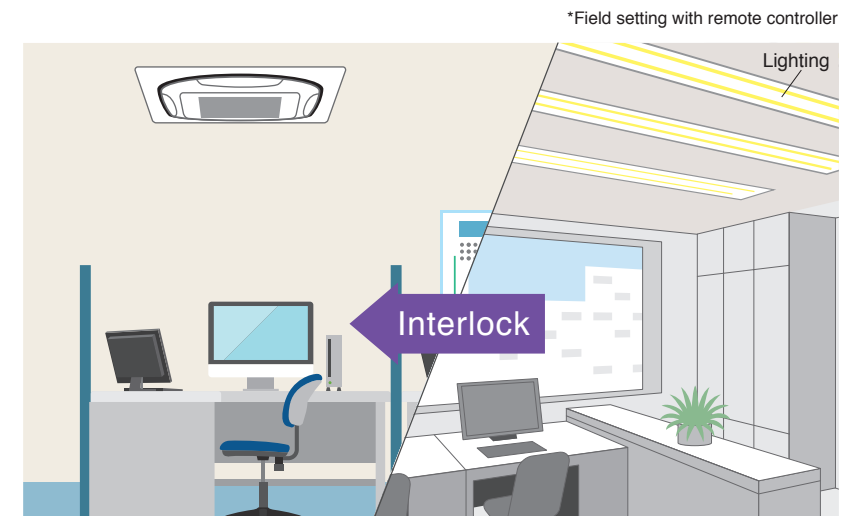
In AM and PM peak electricity consumption periods, supply may fluctuate. Built-in low-voltage protection will automatically cut operations. When normal voltage is restored, operation will resume as before.

Outdoor unit installation is possible even with limited space

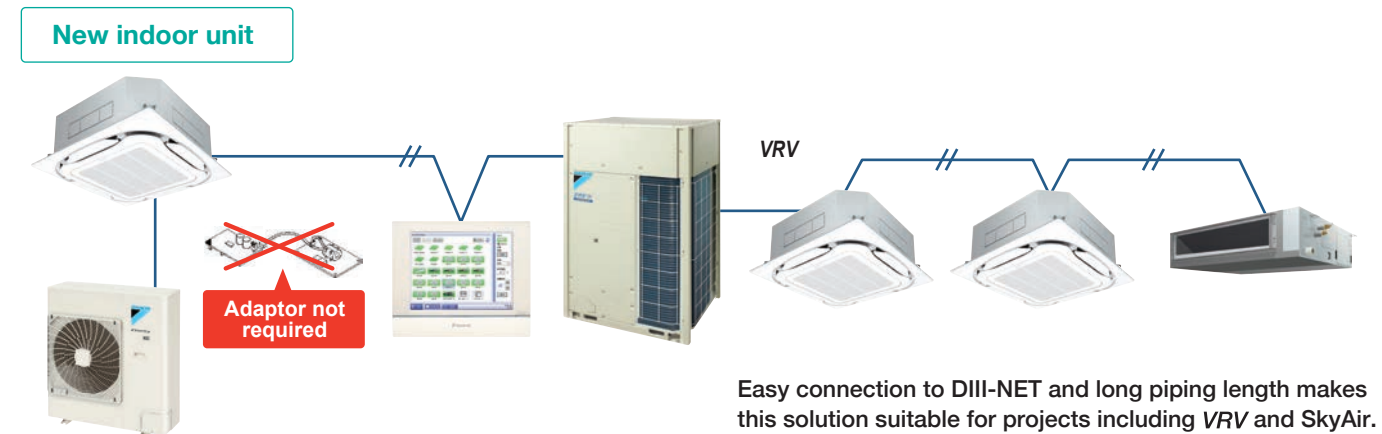


Design Flexibility

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



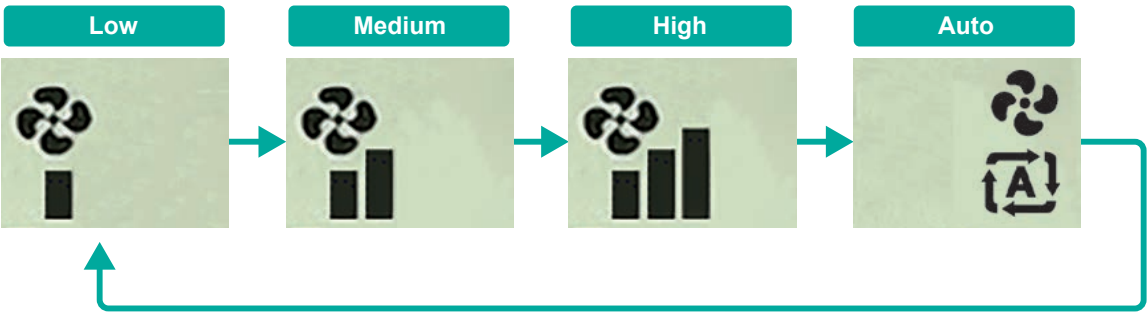
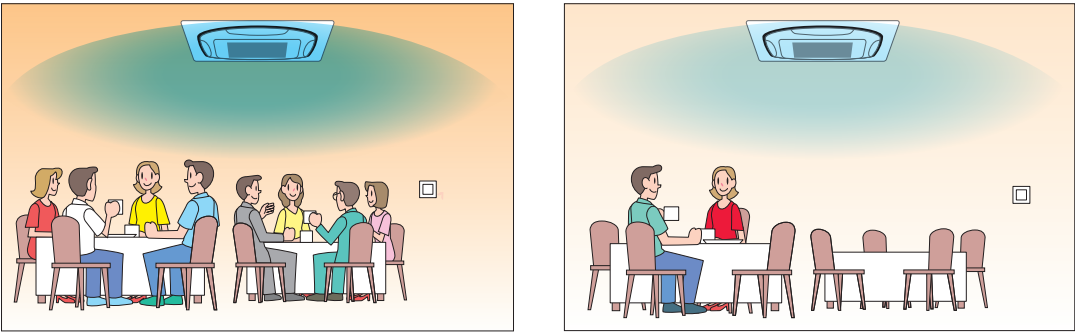
Indoor units comply with DIII-Net standards



Smart Airflow Control

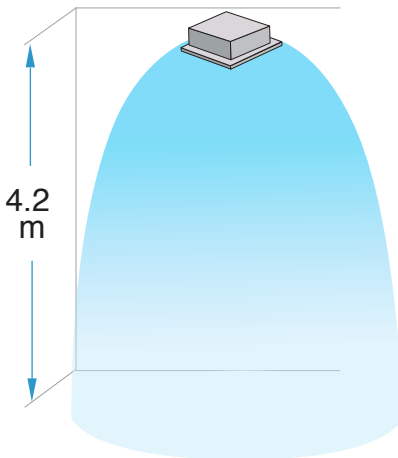
- Indoor units can provide 3-step fine control of air volume
- Comfort ensured by 'Auto' airflow rate that matches load level

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



- Also convenient for high ceilings and spaces with long blow distances

Cassette type <Round Flow>:
maximum 4.2 m*



See page 13

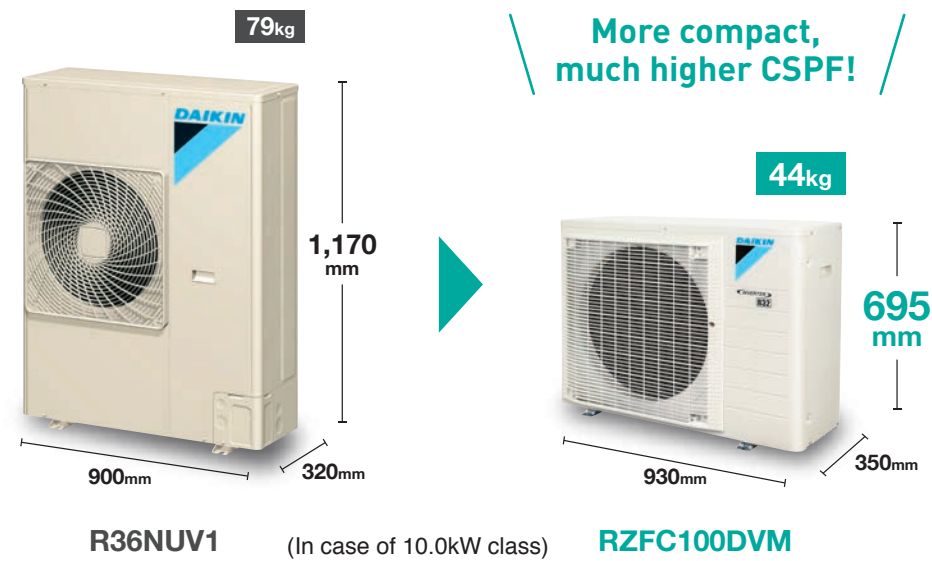
*Maximum 4.2 m for FCFC100-140
Maximum 3.5 m for FCFC40-80



*Field setting with remote controller

Compact & Lightweight

- New outdoor units are much more compact and lighter weight





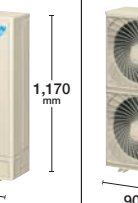
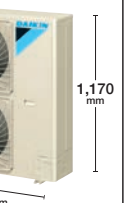
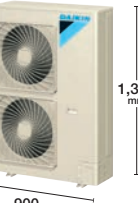
- More easy installation
- More easy transportation
- More saving space

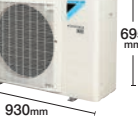
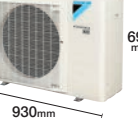
32% reduction in volume
0.34m³ → 0.23m³

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	8.8 kW	10.6 kW	12.3 kW	14.1 kW
	R26NUV1 / NUY1	R30NUV1 / Y1	R36NUV1 / NUY1	R42NUY1	R48NUY1
Previous non-inverter R-NU series					
	70kg	70kg	79kg	87kg	92kg

	7.1 kW		8.5 kW	10.0 kW	12.5 kW	14.0 kW
	RZFC71DVM	RZFC71DY1	RZFC85DVM / Y1	RZFC100DVM / Y1	RZFC125DY1	RZFC140DY1
New inverter RZFC-D series	 37kg 595 mm 845mm	 46kg 695 mm 930mm	 44kg / 46kg 695 mm 930mm	 44kg / 46kg 695 mm 930mm	 62kg 990 mm 940mm	
	Reduced by	33kg	24kg	26kg / 24kg	35kg / 33kg	25kg

Unit weight is greatly reduced.

Cassette air conditioner with 360° uniform airflow sets the standard



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.



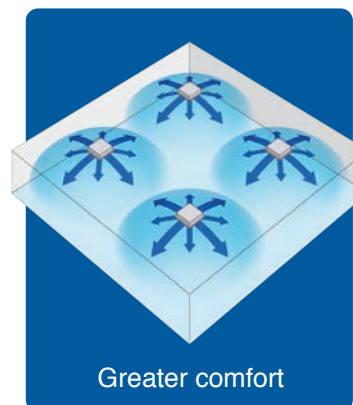
Cooling only
BRC7F635F



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.

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.

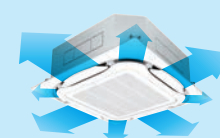
Selectable Airflow Pattern

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



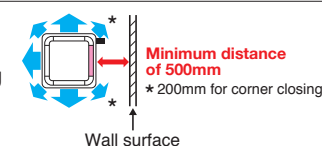
(E.g., installed in a corner)

Opposite 2-way flow



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

Required distance to wall surface for closing air discharge outlet



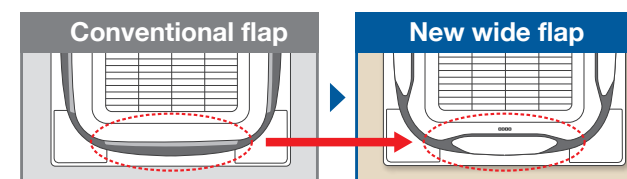
Note:

- 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.



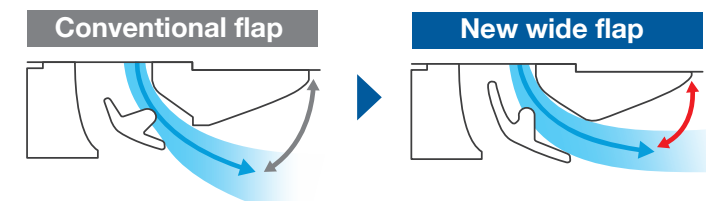
New wide flap construction inhibits ceiling dirt and grime.

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



2 Optimizing airflow angle (Horizontally)

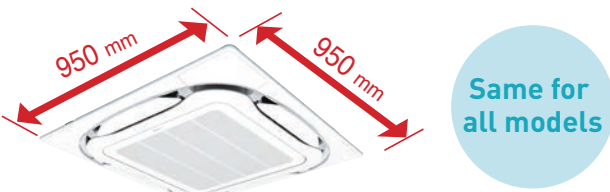
The airflow angle was made more horizontal.



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

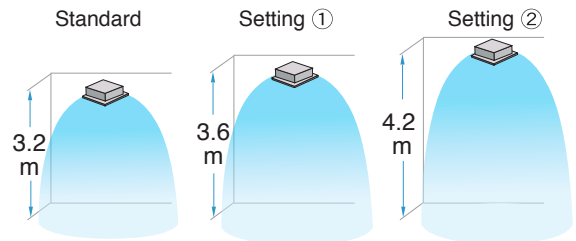
Auto airflow rate is available when wired remote controller BRC2E61 is used.

Quiet operation

Indoor unit	Sound pressure level			dB(A)
	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)

		Number of air discharge outlets used							
		40-85D				100-140D			
Ceiling height	Standard	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

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.

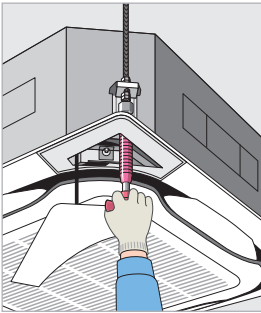
Installable in tight ceiling spaces

Standard panel	256mm (40-85D) 298mm (100-140D)	261mm (40-85D) 303mm (100-140D)
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Easy height adjustment

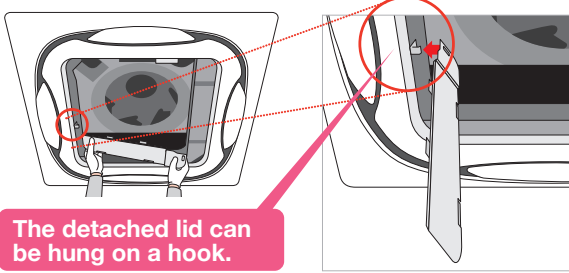
Each corner of the unit has an adjuster pocket that lets you easily adjust the unit's suspended height.

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

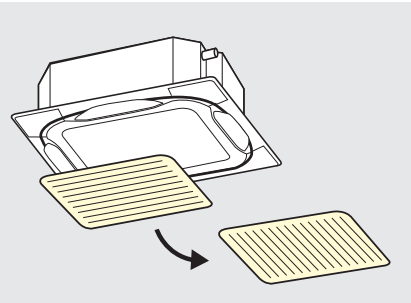
Because the control box lid can be temporarily hung on the unit, there is no need to climb down the stepladder to retrieve it.



The detached lid can be hung on a hook.

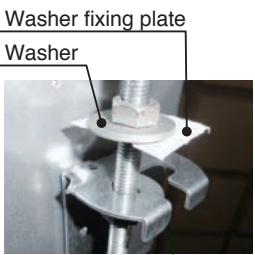
Installed in any direction

Since the orientation of the suction grille can be adjusted after installing, the direction of the suction grille lines can be unified when multiple units are installed.



Easy hanging

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



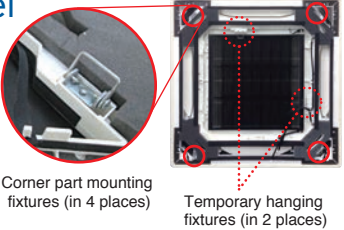
Easy removal of corner cover

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



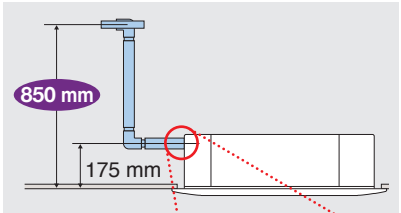
Ease in temporary hanging of decoration panel

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.

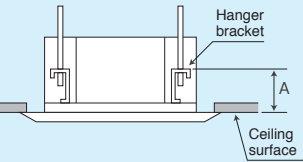


Transparent drain socket



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.



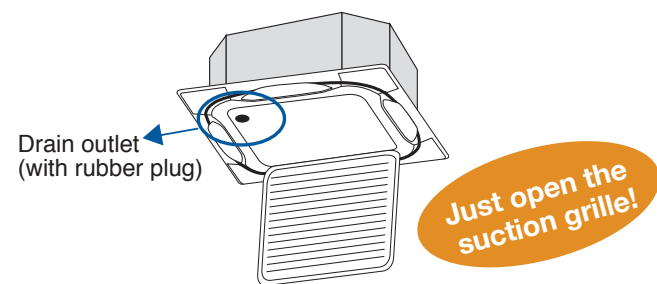
	A Dimensions
Standard panel	125-130mm
Chamber option*+ standard panel	175-180mm

*High-efficiency filter, ultra long-life filter, and fresh air intake

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.

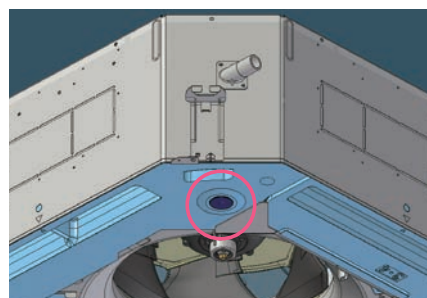


Low gas pressure detection

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.

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.



Ultra long-life filter (option) See page 16

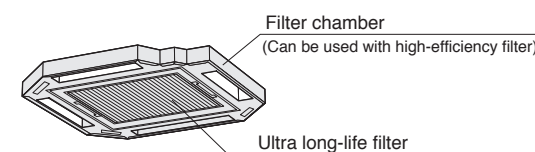
Maintenance is not required in normal shops or offices for up to four years.

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

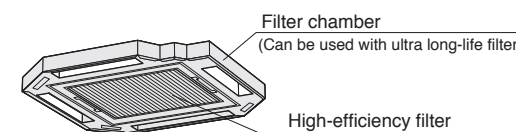
*For dust concentration of 0.3 mg/m³ (Requires separately sold Air purifier.)
1 year (Approx. 5,000 hr) ≈ 15 hr/day x 28 day/month x 12 month/year

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

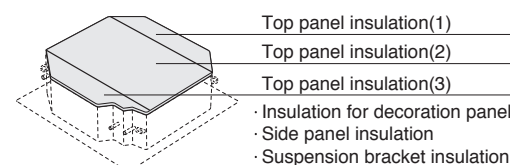
High-efficiency filter unit

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



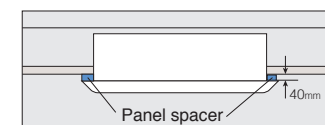
Insulation kit for high humidity

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

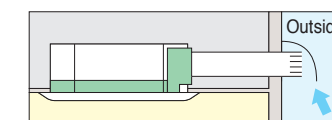
Sealing material block air discharge openings not used in 2-way or 3-way blow.

Branch duct chamber

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

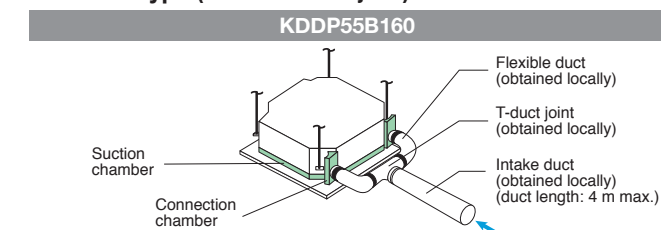
Fresh air intake kit Note 1,2

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.

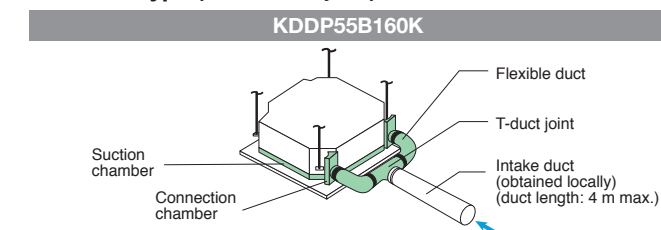


The units can be installed in the following different ways

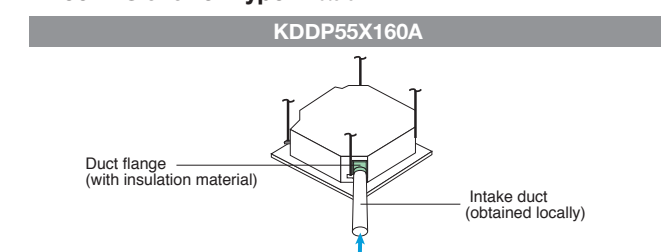
Chamber type (without T-duct joint) Note 3,4,5



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.



Compact outdoor unit



RZFC40DVM
RZFC50DVM
RZFC60DVM
RZFC71DVM



RZFC85DVM
RZFC100DVM
RZFC71DY1
RZFC85DY1
RZFC100DY1



RZFC125DY1
RZFC140DY1

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.

*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.

Low gas pressure detection function

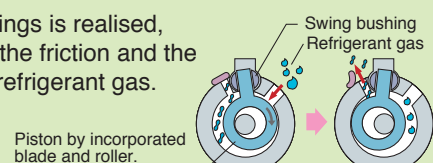
Effective gas monitoring reduces the labor required for operation, maintenance, and repairs.

Technology for energy efficiency

1 Swing compressor

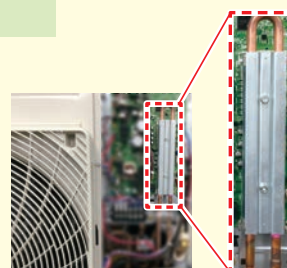
High efficiency during partial load operation.

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



2 Refrigerant cooling (RZFC71-140DY1)

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



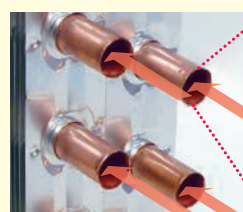
Refrigerant cooling helps protect the printed circuit board and maintains high cooling capacity even during high outdoor temperatures.

3 High efficiency by micro channel heat exchanger

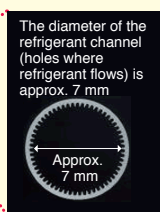
Reduced wind resistance

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

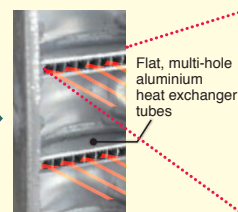
Conventional tube and fin coil



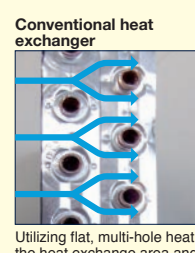
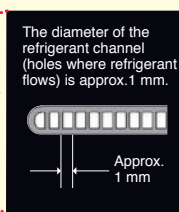
Flow of refrigerant



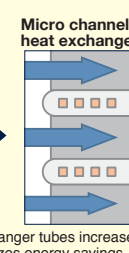
Micro channel coil



Flow of refrigerant



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



4 Fan

V-cut Propeller Fan (RZFC40-100DVM/Y1)

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

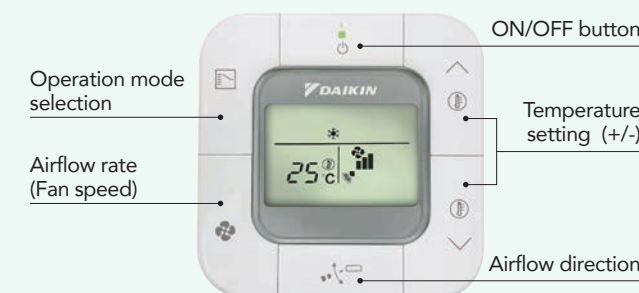
Using only six buttons, users have direct access to basic functions. This enables them to easily set comfort to their preference.

Intuitive design

By using pictograms, the user-friendly interface enables:

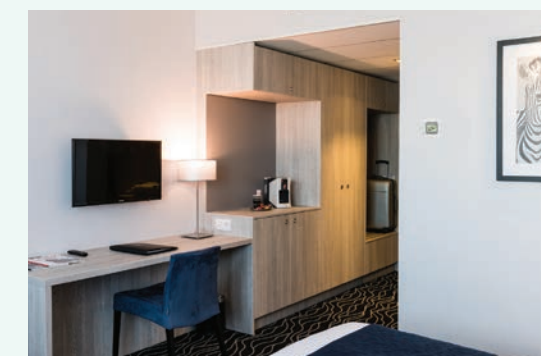
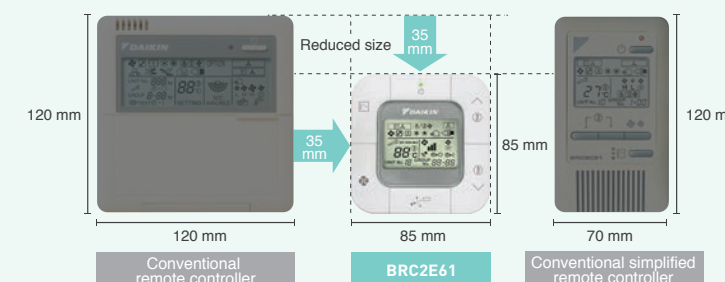
Overseas guests at hotels to understand functions without having to know a foreign language.

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)

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

Note: The signal receiver unit shown in the photograph is for mounting inside the decoration panel of the ceiling mounted cassette type.

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.

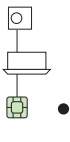
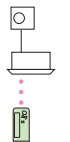
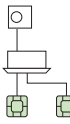
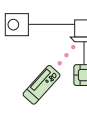
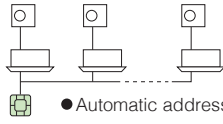
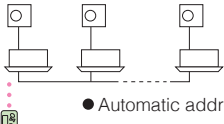
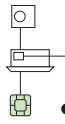
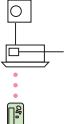
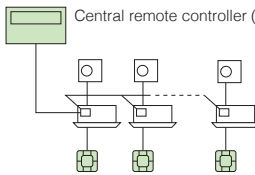
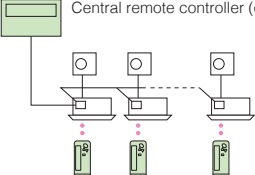
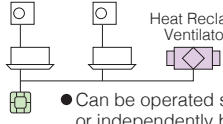
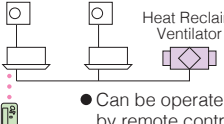
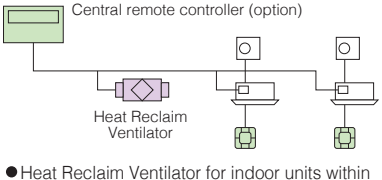
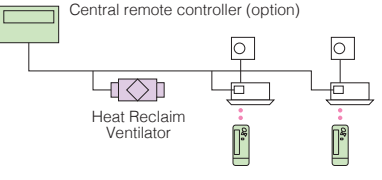
SkyAir shares common control with Heat Reclaim Ventilator and the other Daikin air-conditioning units, thus simplifying interlocking operations.

- 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)	 <ul style="list-style-type: none">Non-polar, double-core (max. wiring length 500 m)	 <ul style="list-style-type: none">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.	 <ul style="list-style-type: none">Connects 2 wired remote controllers (See note 1)	 <ul style="list-style-type: none">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.	 <ul style="list-style-type: none">Automatic address setting function	 <ul style="list-style-type: none">Automatic address setting functionSignal 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.	 <ul style="list-style-type: none">(Command from outside)Optional wiring adaptor for electrical appendices is necessary	 <ul style="list-style-type: none">(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.	 <ul style="list-style-type: none">Central remote controller (option)	 <ul style="list-style-type: none">Central remote controller (option)
Interlock control with Heat Reclaim Ventilator	Link by remote controller group control.	 <ul style="list-style-type: none">Can be operated simultaneously or independently by remote controller (set by ventilation mode)	 <ul style="list-style-type: none">Can be operated simultaneously by remote controller
	Zone link control by centralised control.	 <ul style="list-style-type: none">Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking. Can also be operated independently by remote controller.	 <ul style="list-style-type: none">Heat Reclaim Ventilator for indoor units within a zone is operated by interlocking.


Note: *BRC2E61 can connect to BRC2E61 only. *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.

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

Central remote controller	Unified on/off controller	Schedule timer	Intelligent Controller
DCS302CA61 (Option)	DCS301BA61 (Option)	DST301BA61 (Option)	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.	Centralised control of on/off by group or all at once for up to 256 indoor units.	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.	With its high functionality, the full colour "all-in-one" graphic controller facilitates management of SkyAir System in a variety of ways.

Functions overview

Cooling only

		CEILING MOUNTED CASSETTE TYPE 〈Round Flow〉	
			
Indoor unit		FCFC40-140DVM	
Outdoor unit		RZFC40-100DVM RZFC71-140DY1	
Remote controller	Wired	BRC2E61	—
	Wireless	—	BRC7F635F
Comfort	1	ON / OFF timer	●
	2	Auto swing	●
	3	Swing pattern selection	●
	4	DC fan motor	●
	5	Switchable fan speed	3 step ●
	6	Auto airflow rate	●
	7	Two selectable temperature-sensors	●
	8	High ceiling application	3.5m / 4.2m ●
Cleanliness	9	Anti-bacterial air filter	●
	10	Silver ion anti-bacterial drain pan	●
Work & Servicing	11	Drain pump mechanism	●
	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	●
	17	Self-diagnosis function	●
Control	18	Auto-restart	●
	19	Control by 2 remote controllers	● *3
	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	●
	24	Interlock control with Heat Reclaim Ventilator	●
	25	DIII-NET communication standard	●
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 ppendices (and installation box) is necessary.
*3: It is not possible to use 2 wireless remote controllers. Combination of BRC2E61 (main) and wireless remote controller (sub) is available.

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

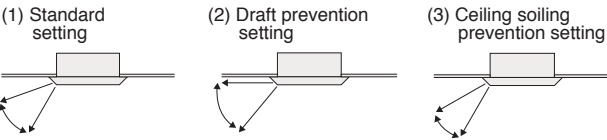
Delivers comfortable air-conditioning to all areas, near to and far from the air-conditioner.
■ The air flow direction can be fixed at your desired angle by the remote controller.

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

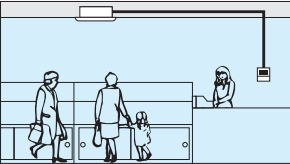
High setting provides maximum reach while low setting minimises drafts.

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.



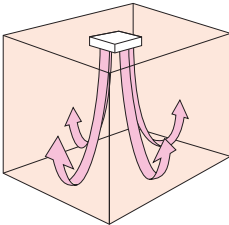
- Use the temperature-sensor in the indoor unit when controlling air conditioning from another room.

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.

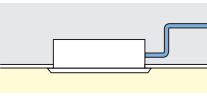
10. Silver ion anti-bacterial drain pan

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: RZFC40-71DVM
15 m: RZFC85-100DVM, 71-140DY1

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 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)



			40	50	60	71	85	100	
Model Name	Indoor unit		FCFC40DVM	FCFC50DVM	FCFC60DVM	FCFC71DVM	FCFC85DVM	FCFC100DVM	
	Outdoor unit		RZFC40DVM	RZFC50DVM	RZFC60DVM	RZFC71DVM	RZFC85DVM	RZFC100DVM	
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			
CSPF		Wh/Wh	5.13	4.90		4.67			
Indoor unit	Colour	Unit	White						
		Decoration panel	Fresh white						
	Airflow rate (H / M / L)	m³/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 / 34 / 28		38 / 34 / 29	45 / 38 / 33	
	Dimensions (H×W×D)	Unit	mm						
		mm	256×840×840						
	Machine weight	Unit	kg		19		22		24
		kg			5.5				
	Certified Operation range		°CWB						
Outdoor unit	Colour		Ivory white						
	Coil	Type	Micro channel						
		Compressor	Type						
	Motor output	kW	1.20			1.30		1.60	
		kg	0.7 (Charged for 10 m)			0.8 (Charged for 10 m)		1.0 (Charged for 15 m)	
	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		695×930×350		
	Machine weight		kg		34		37		44
Piping connections	Certified Operation range		°CDB						
	Liquid (Flare)	mm	21 to 46						
		mm	φ18.0 (Hole)						
	Gas (Flare)	mm	φ6.4			φ9.5			
		mm	φ12.7			φ15.9			
	Drain	Indoor unit	mm						
		Outdoor unit	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)



			71	85	100	125	140	
Model Name	Indoor unit		FCFC71DVM	FCFC85DVM	FCFC100DVM	FCFC125DVM	FCFC140DVM	
	Outdoor unit		RZFC71DY1	RZFC85DY1	RZFC100DY1	RZFC125DY1	RZFC140DY1	
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)	m³/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	46 / 40 / 33	
	Dimensions (H×W×D)	Unit	mm		256×840×840			298×840×840
		Decoration panel	mm		50×950×950			
	Machine weight	Unit	kg		22		24	
		Decoration panel	kg				5.5	
	Certified Operation range		°CWB					
Outdoor unit	Colour		Ivory white					
	Coil	Type	Micro channel					
		Compressor	Type	Hermetically sealed swing type				
	Motor output	kW	1.60		2.40			
		Refrigerant charge (R32)	kg	1.0 (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		990×940×320	
	Machine weight		kg		46		62	
	Certified Operation range		°CDB		21 to 46			
	Piping connections	Liquid (Flare)		mm		φ9.5		
Gas (Flare)		mm		φ15.9				
Drain		Indoor unit	mm		VP20 (I.D.φ20×O.D.φ26)			
		Outdoor unit	mm		φ18.0 (Hole)			
					φ26.0 (Hole)			
Max. interunit piping length		m		50 (Equivalent length 70)				
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°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



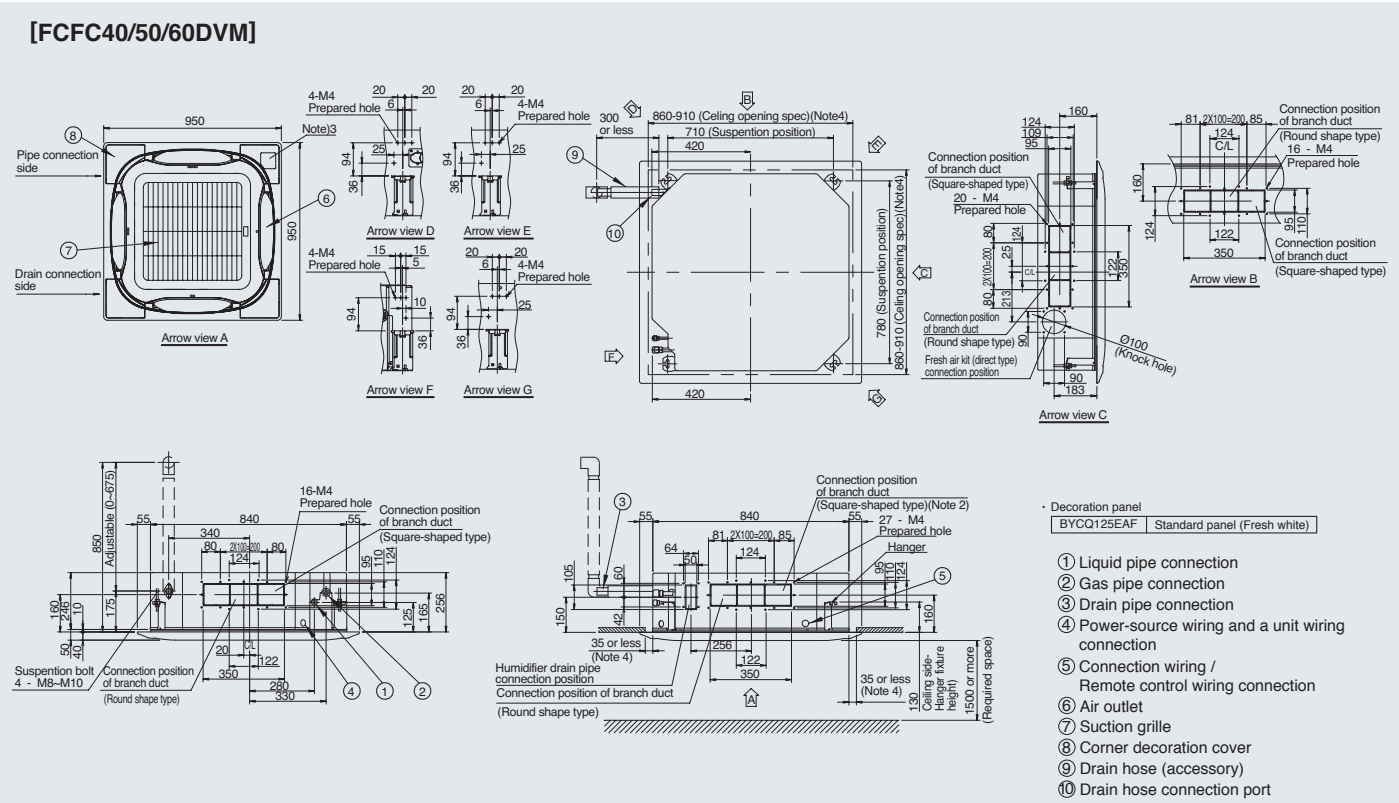
CEILING MOUNTED CASSETTE TYPE <Round Flow>

Name of option			Remark		Kit name									
1	Decoration panel	Standard panel	Fresh white		FCFC40DVM	FCFC50DVM	FCFC60DVM	FCFC71DVM	FCFC85DVM	FCFC100DVM	FCFC125DVM	FCFC140DVM		
2	Sealing material of air discharge outlet		For usage of 3-, 4-way flow		BYCQ125EAF									
			For usage of 2-way flow		KDBH551C160									
3	Panel spacer				KDBH552C160									
4	Fresh air intake kit		Chamber type ^{1,2}	Without T-duct joint	KDB55J160F									
				With T-duct joint	KDDP55B160 (KDDP55C160-1, KDDP55B160-2) ⁴									
			Direct installation type ³		KDDP55B160K (KDDP55C160-1, KDDP55B160K2) ⁴									
5	High-efficiency filter unit (Including filter chamber)		(Colorimetric method 65%)		KDDP55X160A									
			(Colorimetric method 90%)		KAF556D80					KAF556D160				
6	Replacement high-efficiency filter ⁵		(Colorimetric method 65%)		KAF557D80					KAF557D160				
			(Colorimetric method 90%)		KAF552D80					KAF552D160				
7	Filter chamber				KAF553D80					KAF553D160				
8	Replacement long-life filter				KDDFP55C160									
9	Ultra long-life filter unit (Including filter chamber)				KAF551D160									
10	Replacement ultra long-life filter ⁶				KAF555D160									
11	Branch duct chamber				KAF550D160									
12	Insulation kit for high humidity ⁶				KDJP55C80					KDJP55C160				
13	Remote controller		Wireless type	Cooling only	KDTP55K80A								KDTP55K160A	
14	Simplified remote controller		Wired type ⁷		BRC7F635F									
15	Central remote controller ⁸				BRC2E61									
16	Unified ON/OFF controller ⁸				DCS302CA61									
17	Schedule timer ⁸				DCS301BA61									
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									

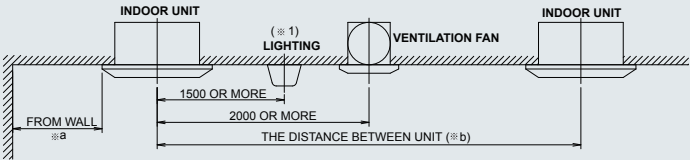
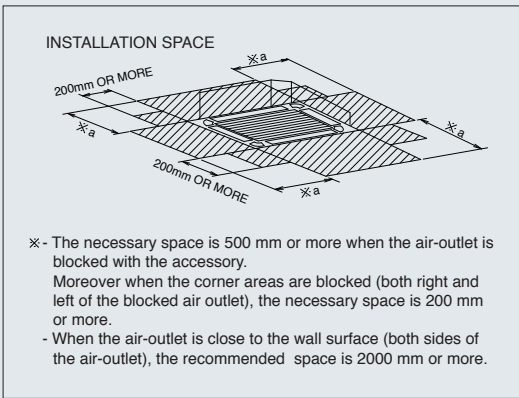
Note: *When installing a fresh air intake kit (chamber type), two air outlet corners are closed.
¹It is recommended that the volume of outdoor air introduced through the kit is limited to 10% of the maximum airflow rate of the indoor unit. Introducing higher quantities will increase the operating sound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

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

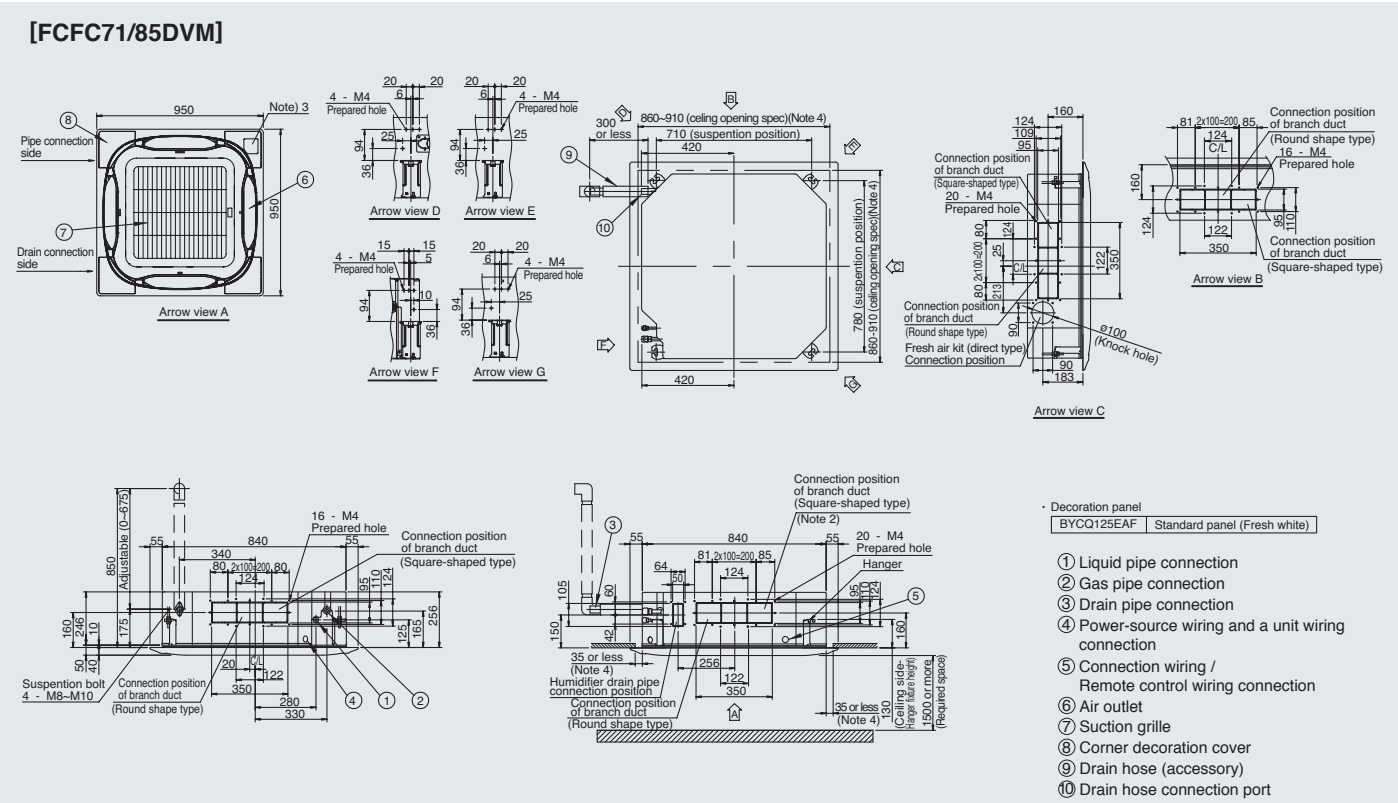
CEILING MOUNTED CASSETTE TYPE / Standard panel



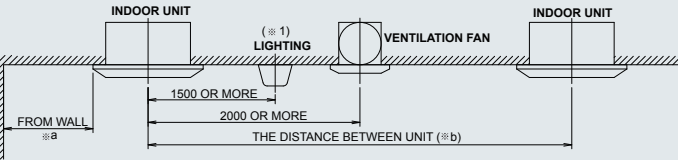
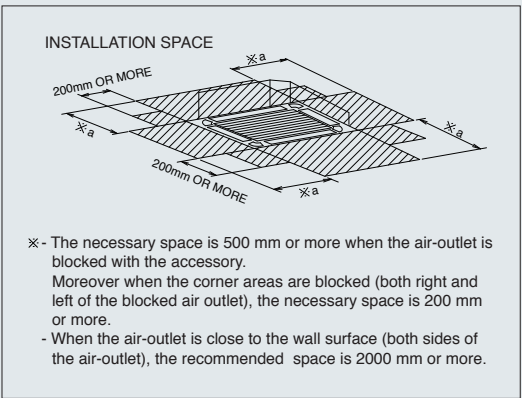
- Note:
1. Sticking location for Manufacture's label
Manufacture's label for Indoor unit : Suction grille inner side's electric components box's lid surface.
Manufacture's label for Decoration panel : Decoration panel's corner decoration cover inner surface.
 2. In case of having option part built-in, 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

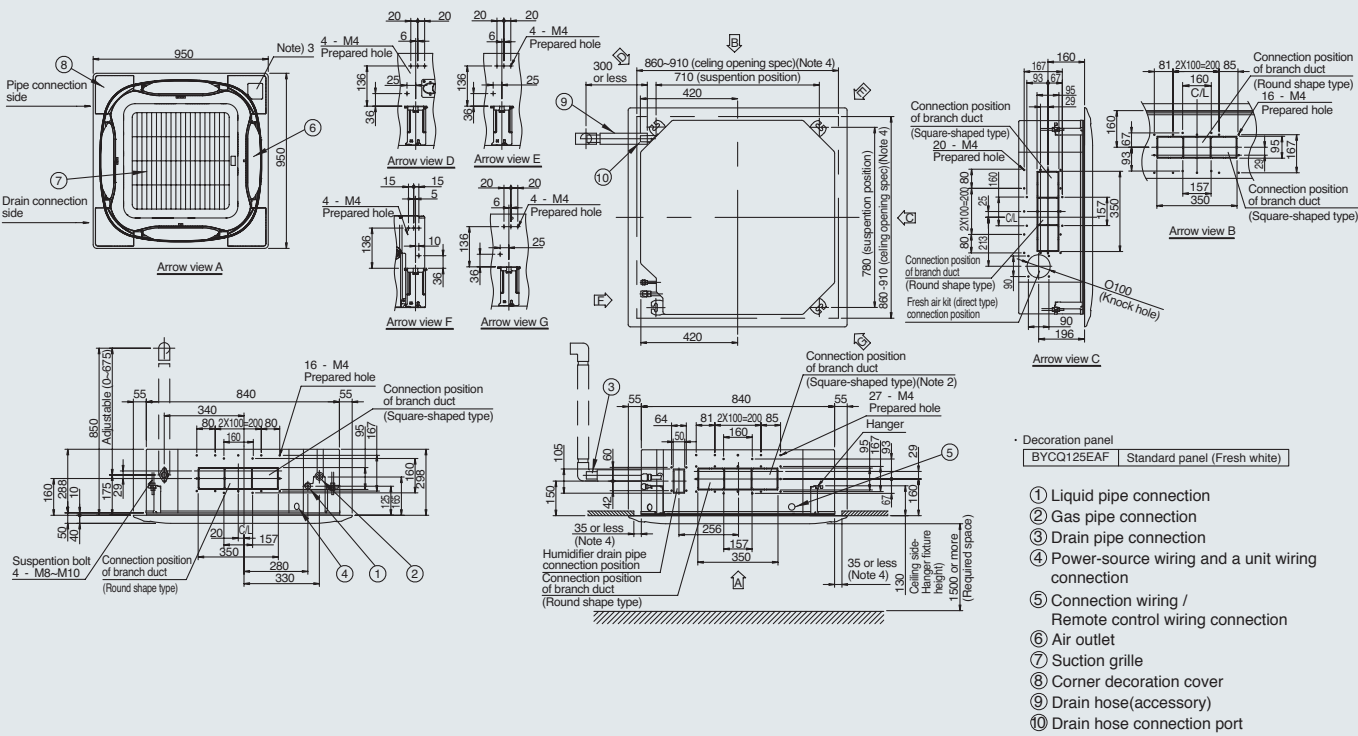


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Air purifier unit.....inspection hole No Need
High efficiency filter unit.....inspection hole No Need
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(both angle duct + circle duct)
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 7. If put vent hole, lighting, equipment near the air flow disturb equipment, ceiling surface may get dirty, therefore shall install following to diagram as below.

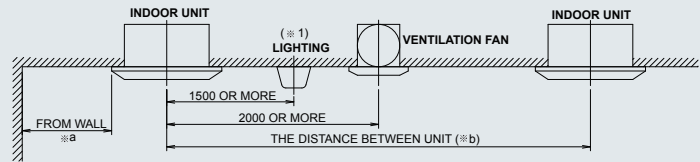


CEILING MOUNTED CASSETTE TYPE / Standard panel

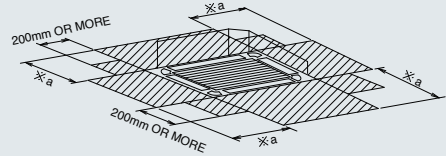
[FCFC100/125/140DVM]



- Note:
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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.
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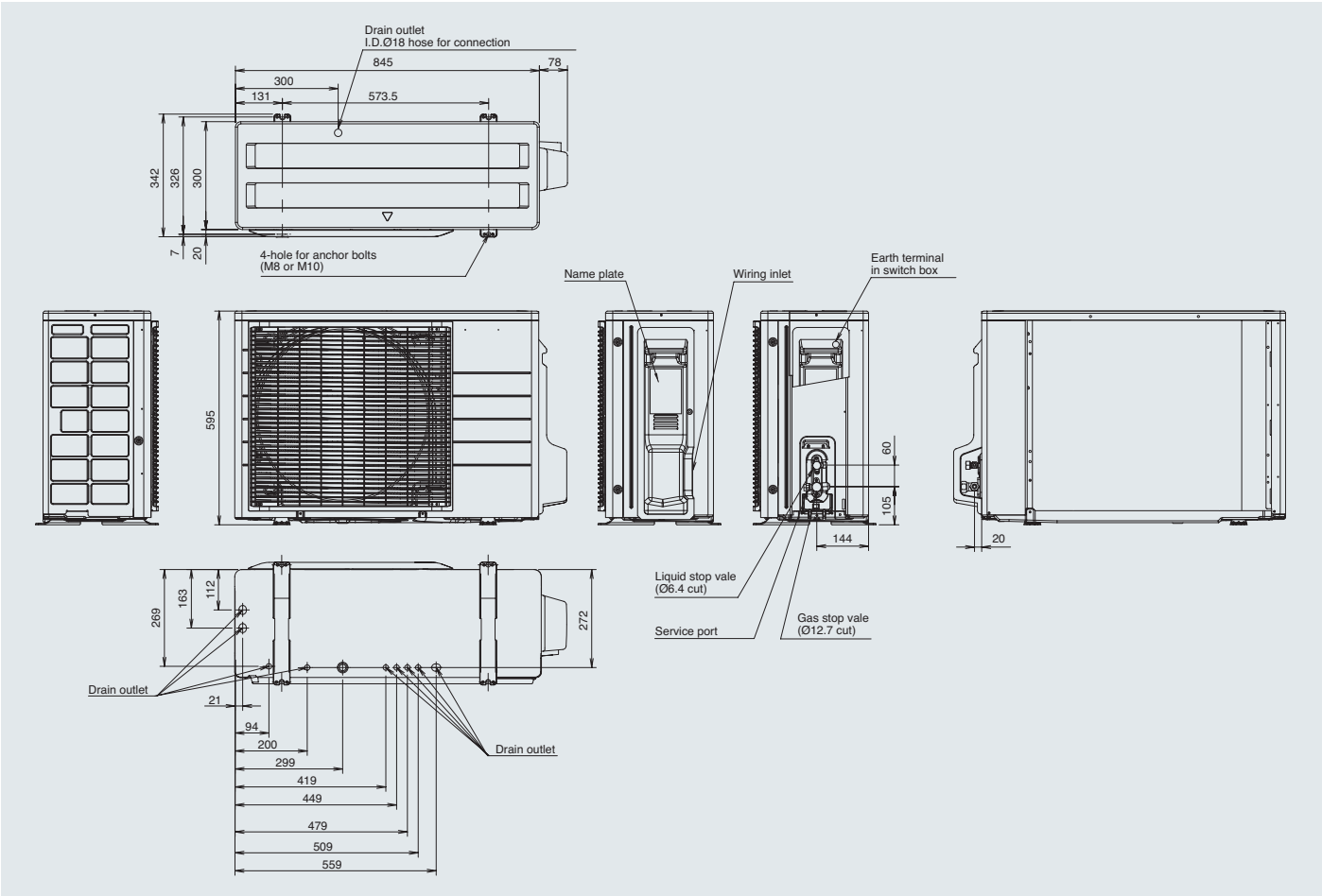


INSTALLATION SPACE

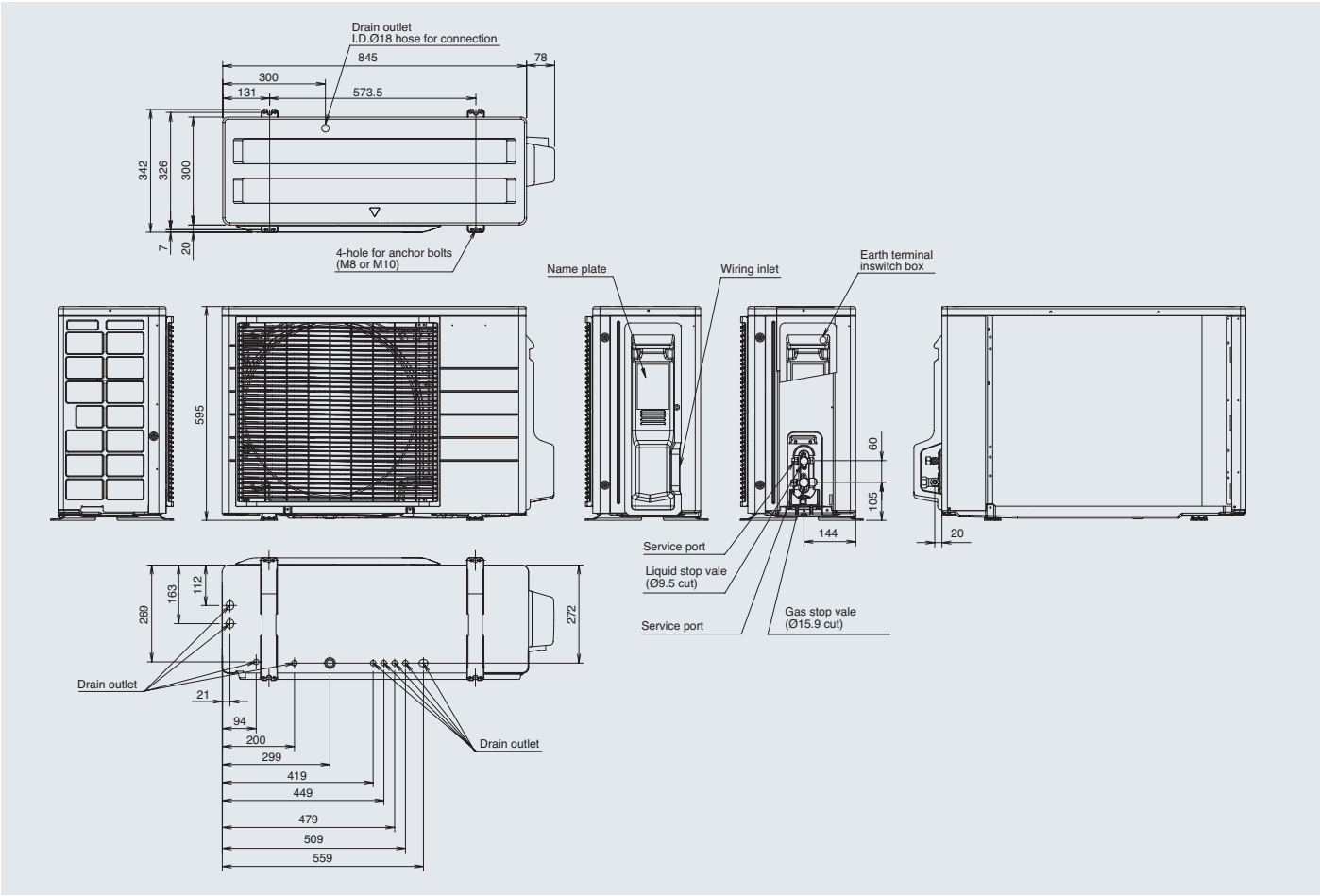


- ※ - The necessary space is 500 mm or more when the air-outlet is blocked with the accessory.
Moreover when the corner areas are blocked (both right and left of the blocked air outlet), the necessary space is 200 mm or more.
- When the air-outlet is close to the wall surface (both sides of the air-outlet), the recommended space is 2000 mm or more.

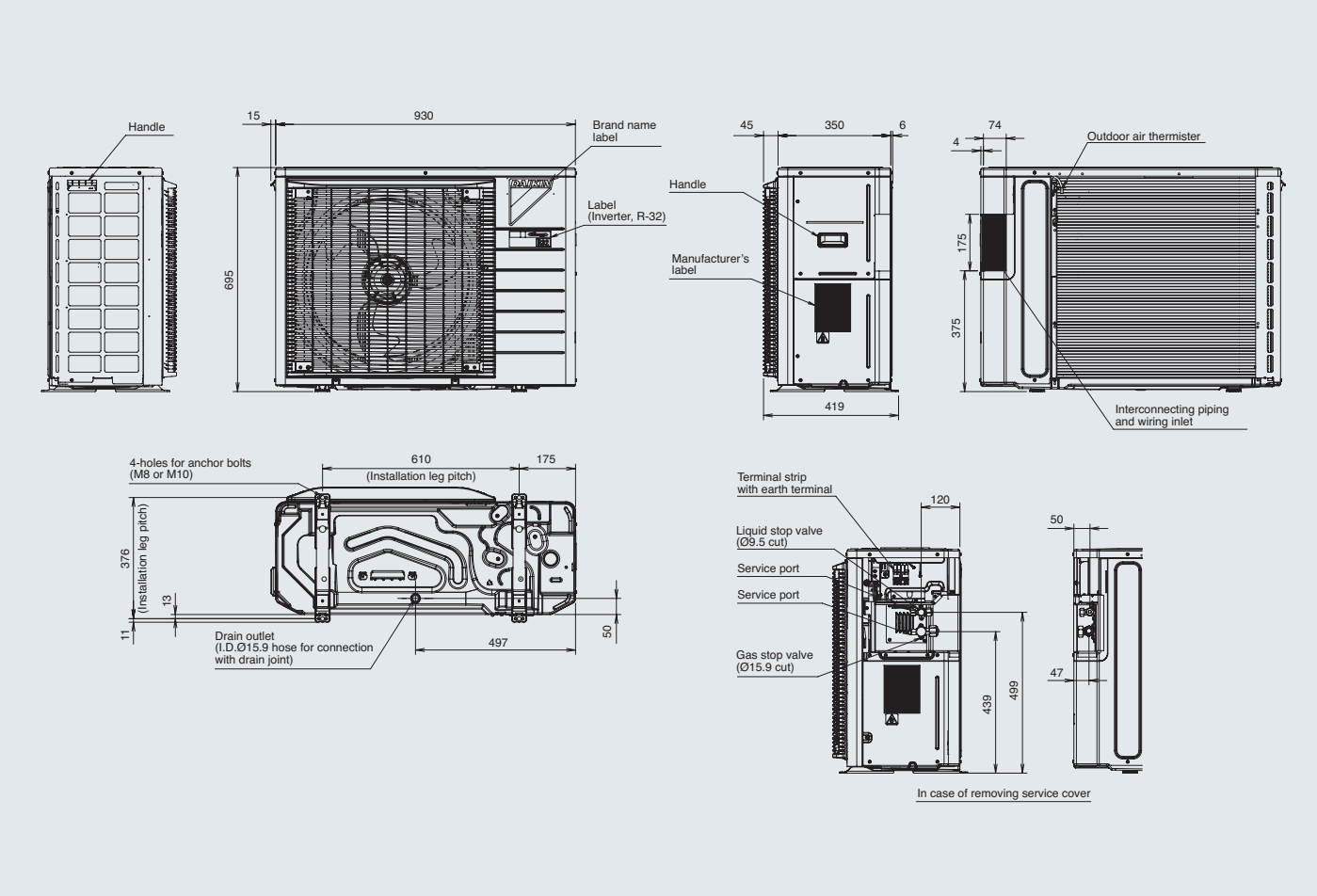
OUTDOOR UNIT // RZFC40/50/60DVM



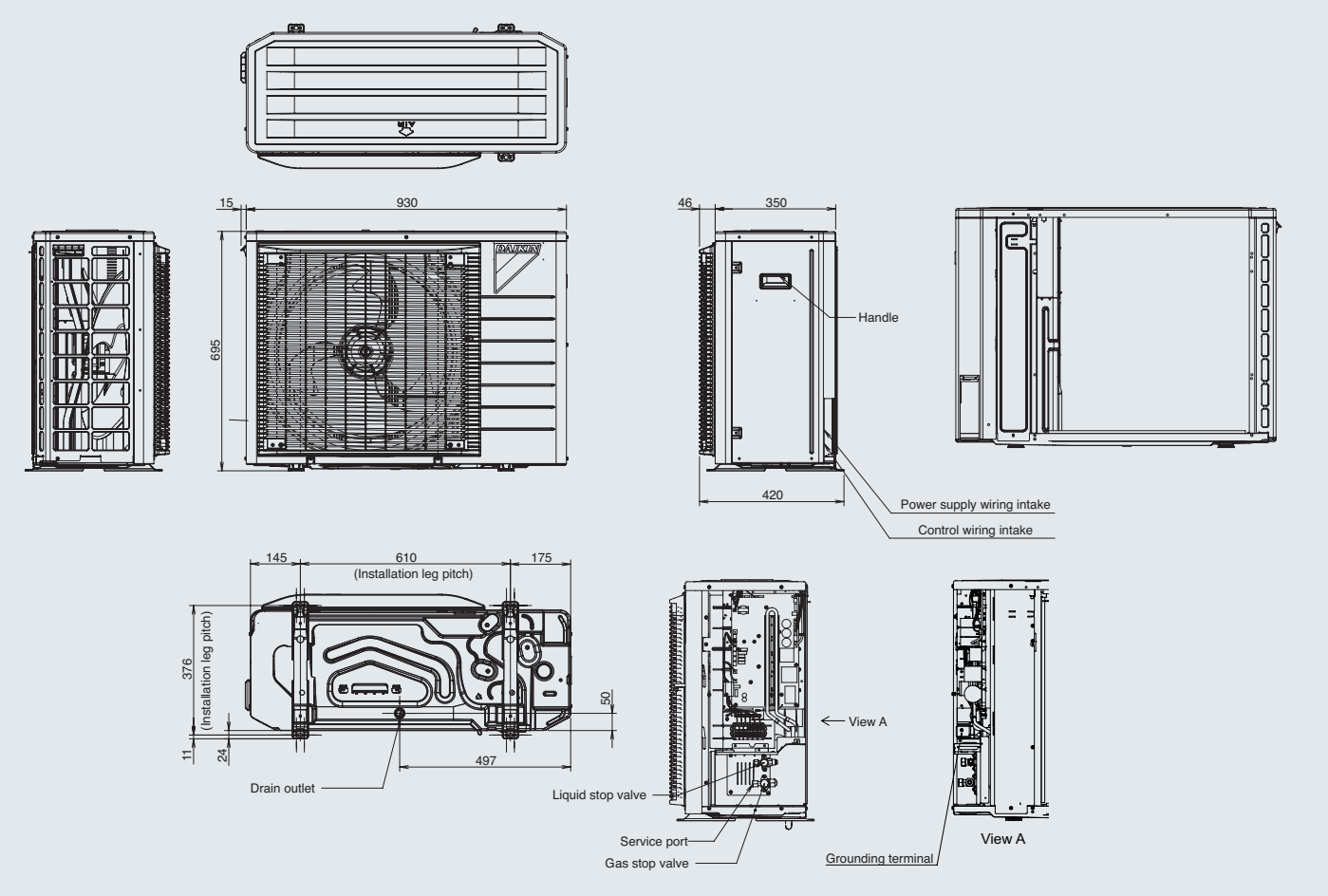
OUTDOOR UNIT // RZFC71DVM



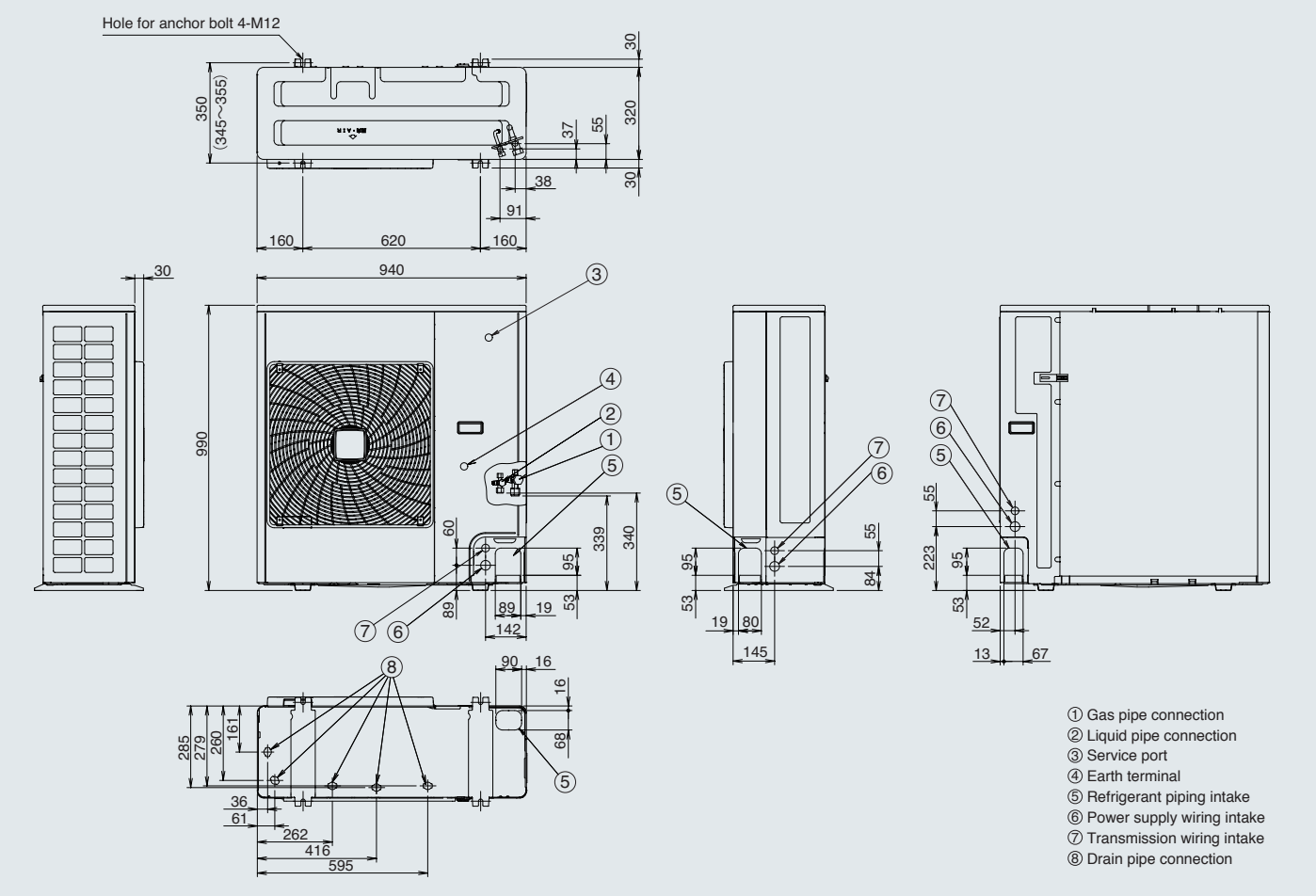
OUTDOOR UNIT // RZFC85/100DVM



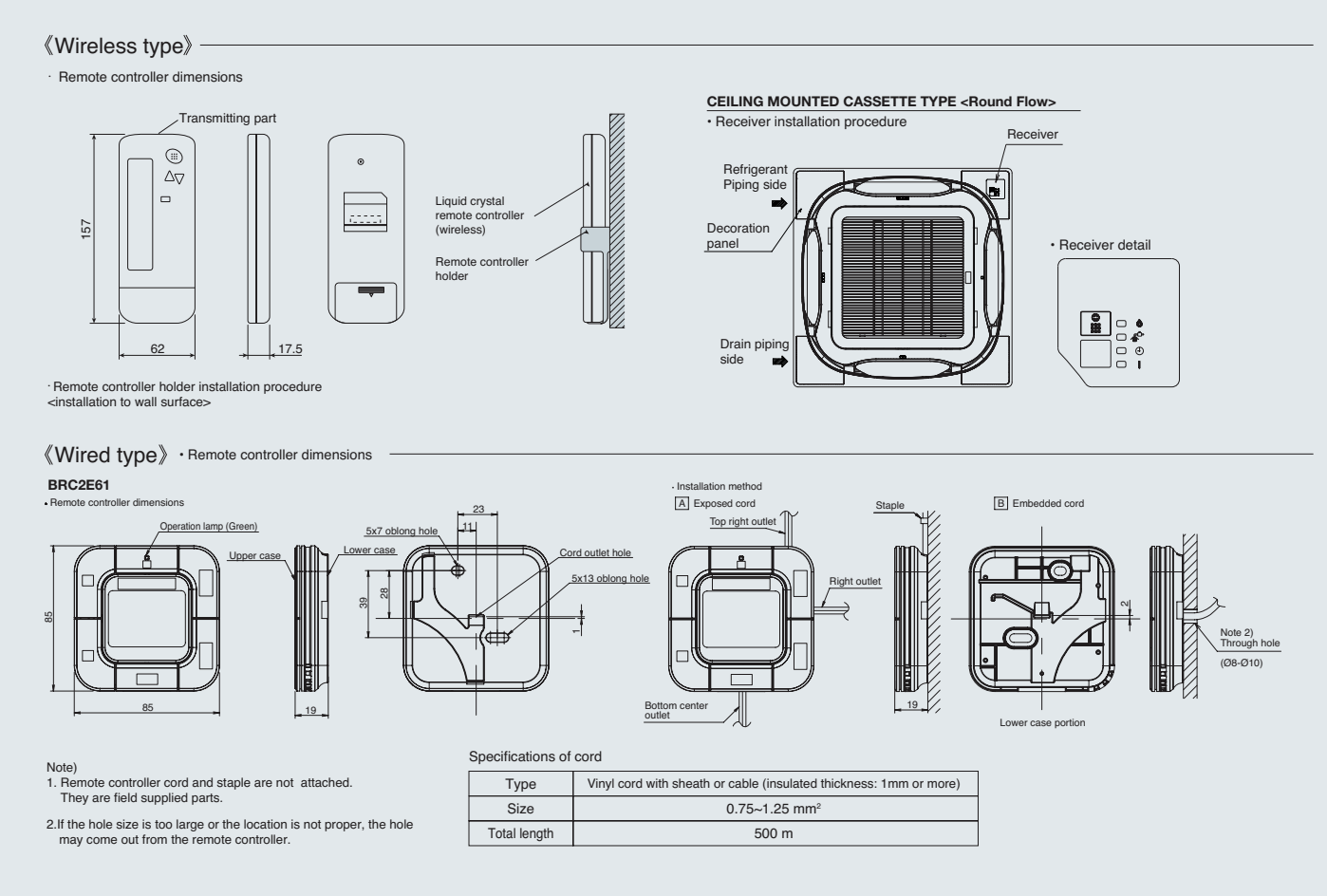
OUTDOOR UNIT // RZFC71/85/100DY1



OUTDOOR UNIT // RZFC125/140DY1



REMOTE CONTROLLER



■ For RZFC40-100DVM, RZFC71-140DY1 series

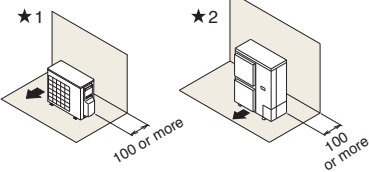
★1.RZFC40-100DVM, 71-100DY1 ★2.RZFC125/140DY1

1 When there is an obstruction on the inlet side

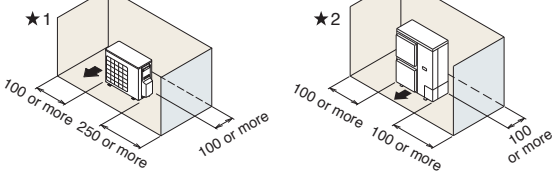
1) When the overhead space is open

1. For single unit installation

When there is an obstruction only on the inlet side

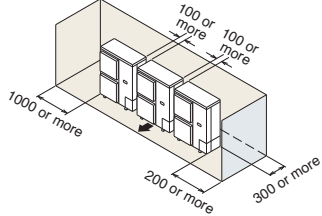


When there are obstructions on both sides



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

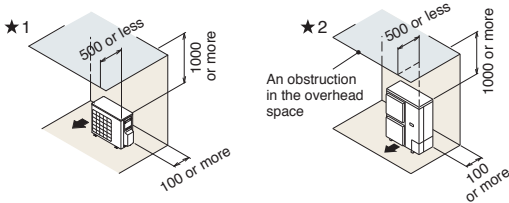
When there are obstructions on both sides



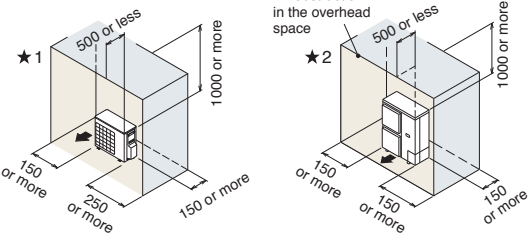
2) When there is an obstruction in the overhead space

1. For single unit installation

When there is an obstruction on the inlet side

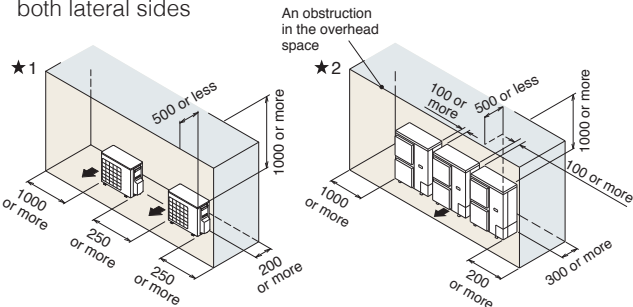


When there are obstructions on the inlet side and both lateral sides



2. For series installation (more than two units)

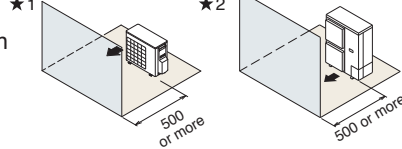
When there are obstructions on the inlet side and both lateral sides



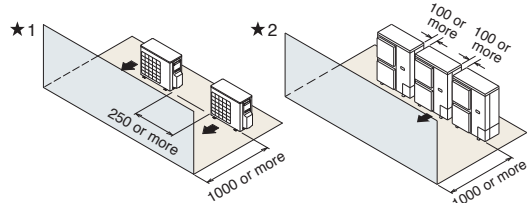
2 When there is an obstruction on the outlet side

1) When the overhead space is open

1. For single unit installation

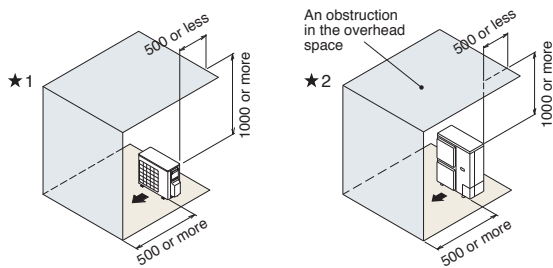


2. For multiple units installation (more than two units)

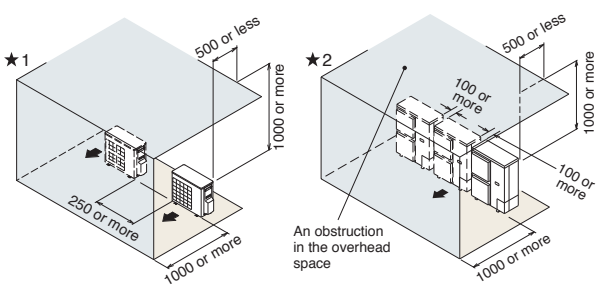


2) When there is an obstruction in the overhead space

1. For single unit installation



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



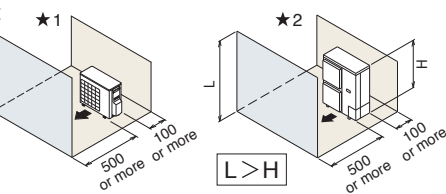
3 When there are obstructions on both the inlet and outlet sides

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

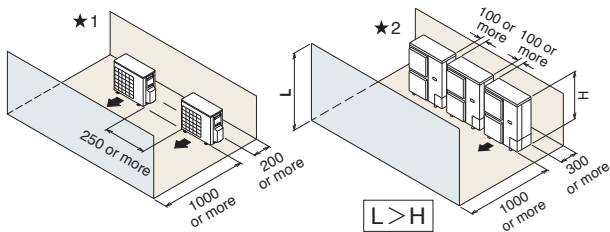
1) When the overhead space is open

(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.

MEMO

