DIDSA2601

R32

The Next-Generation Refrigerant

Inverter SkyAir Series

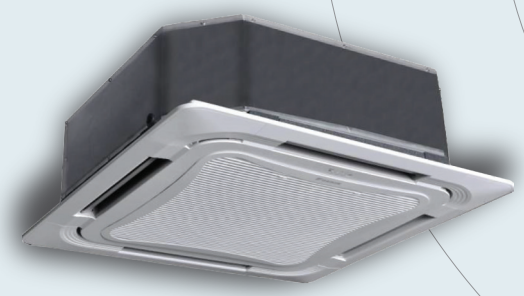
FCFE-A



Smart Control

GO DAIKIN

JAPAN QUALITY



Air is our El

There's more to feel good about

ement

What is **Inverter** technology?

Inverter system ensures faster cooling with significant energy saving. Moreover, it helps to maintain consistent temperature in the room, makes you feel comfortable all the time especially when you are sleeping.

Advantages of **Inverter** technology

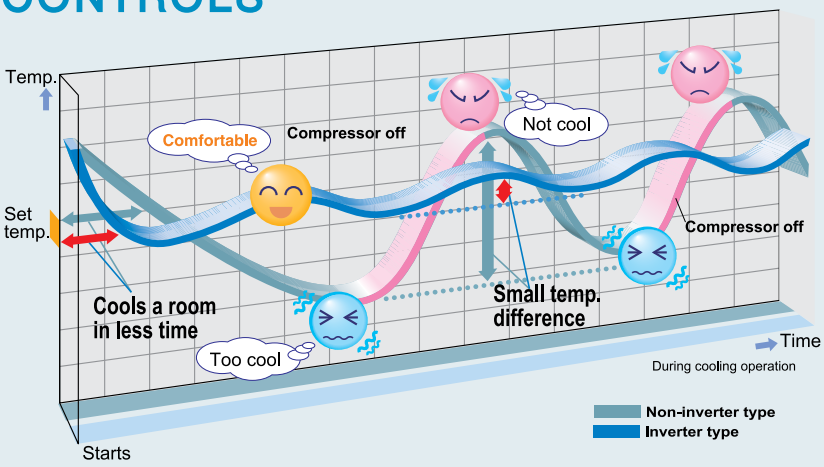
- **Superior Comfort**
- **Powerful Operation**
- **Higher Efficiency**
- **Better Energy Savings**

Fixed speed (non-inverter) systems operate by compressor start-stop cycles which consumes more energy and have higher variance of the room temperature.

Flexible performance, rapid response time

After quickly reaching set temperature, the inverter system constantly adjusts and fine-tunes the cooling capacity to prevent undesired temperature savings. Room comfort level is constantly maintained even when the number of people in the room increases or decreases.

BETTER TEMPERATURE CONTROLS



This diagram is a representation for illustrative purpose only.

Inverter air conditioners finely adjust the cooling capacity according to changes in the air-conditioning load and the difference between the indoor temperature and set temperature; These provide better comfort compared to non-inverter air conditioners.

This game changing refrigerant strikes the perfect balance between energy efficiency, ease of use and environmental sustainability; offering distinct advantages across the board, bringing you comfort and a peace of mind.

Safety

R32 refrigerant is a stable refrigerant. The amount of refrigerant charge deposited into the unit is insufficient to cause ignition.

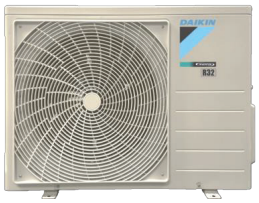
LCCP

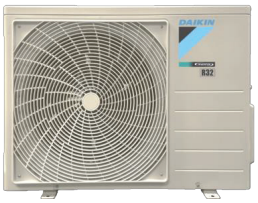
1. Life Cycle Climate Performance (LCCP) is an indicator to evaluate the total global warming impact of refrigerants.
2. Factors included in LCCP are emission during:
   - refrigerant manufacturing.
   - air conditioner manufacturing.
   - air conditioner operating, servicing, and disposal.
3. LCCP of R32 refrigerant is the lowest, which promotes itself as a better substitution for future refrigerant.

Energy efficiency

1. Several factors that contribute to better efficiency of R32 system are:
   - R32 refrigerant has lower vapour density and lower system mass flow rate. Thus, about 50% lower pressure drop can be expected.
   - R32 refrigerant has 43-50% higher latent heat compared to R410A.
   - R32 refrigerant has 41% higher liquid thermal conductivity compared to R410A, which permits better heat transfer at the same mass flux.

Product Line-up

Class	50	60	71	85
Ceiling Cassette 3x3 8-way Air Flow				
Indoor Unit	FCFE50AV14	FCFE60AV14	FCFE71AV14	FCFE85AV14
Panel (Wireless Handset)	BCR50F4	BCR50F4	BCR50F4	BCR50F4
Condensing Unit				
Outdoor Unit (Gold Fin / MCHE)	RZFC50AGV14 Gold Fin	RZFC60AGV14 Gold Fin	RZFC71AGV14 Gold Fin	RZFC85AV14 MCHE
Power supply	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50
	Power From Outdoor	Power From Outdoor	Power From Outdoor	Power From Outdoor

100	125	140
		
FCFE100AV14	FCFE125AV14	FCFE140AV14
BCR50F4	BCR50F4	BCR50F4
		
RZFC100AV14 MCHE	RZFC125AY14 MCHE	RZFC140AY14 MCHE
220-240/1/50	380-415/3/50	380-415/3/50
Power From Outdoor	Power From Outdoor	Power From Outdoor

New Inverter Launched

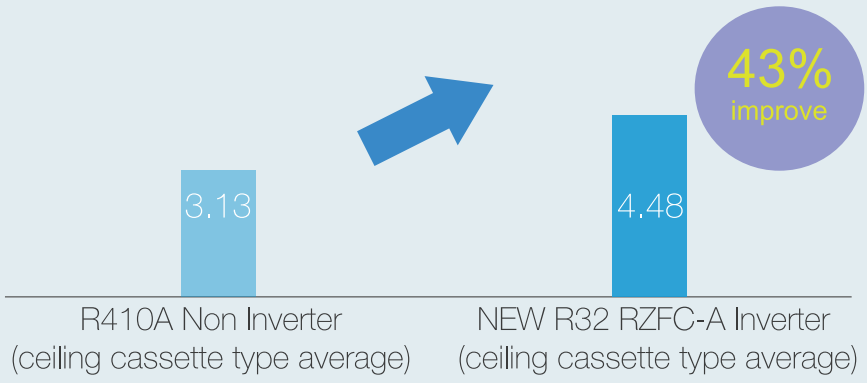
SkyAir R32 INVERTER

High Efficiency

Daikin's new inverter models provides higher efficiency

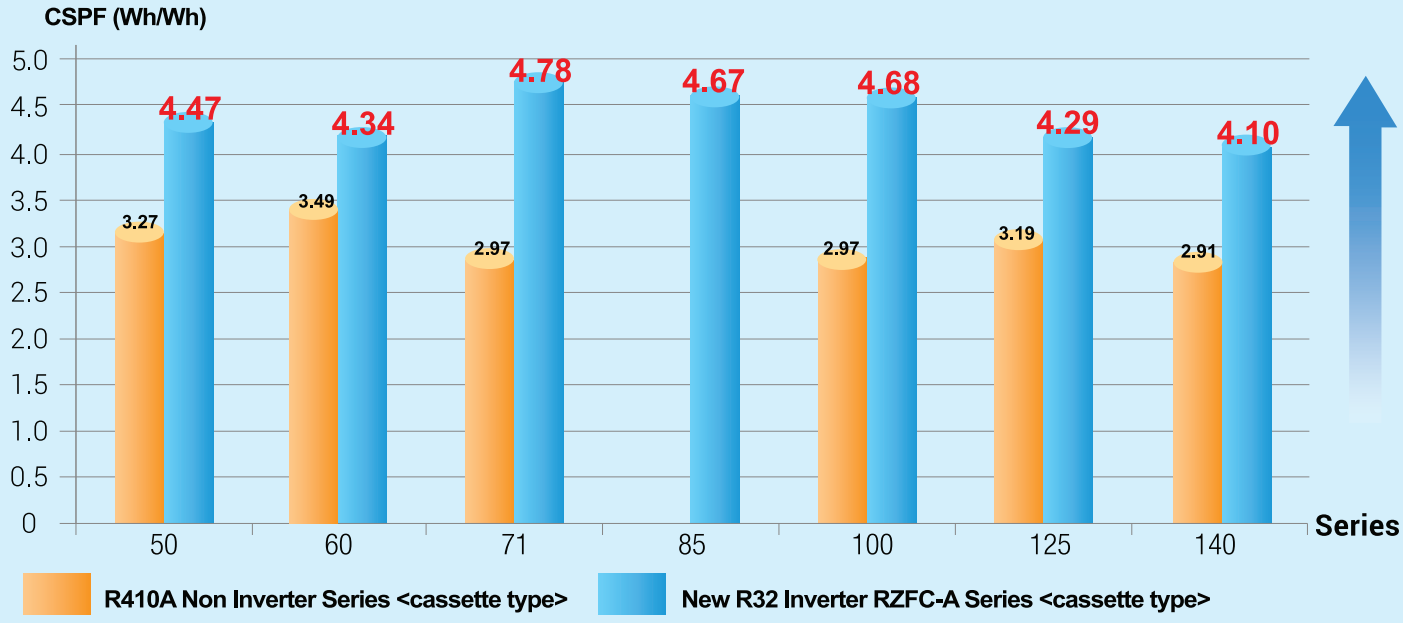
Compared with previous R410A non-inverter series, the new RZFC-A series provides 43% better efficiency for quick and effective cooling.

Comparison based on average CSPF value





R32 inverter RZFC-A series achieved higher efficiency!



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.

What is **Inverter** technology?

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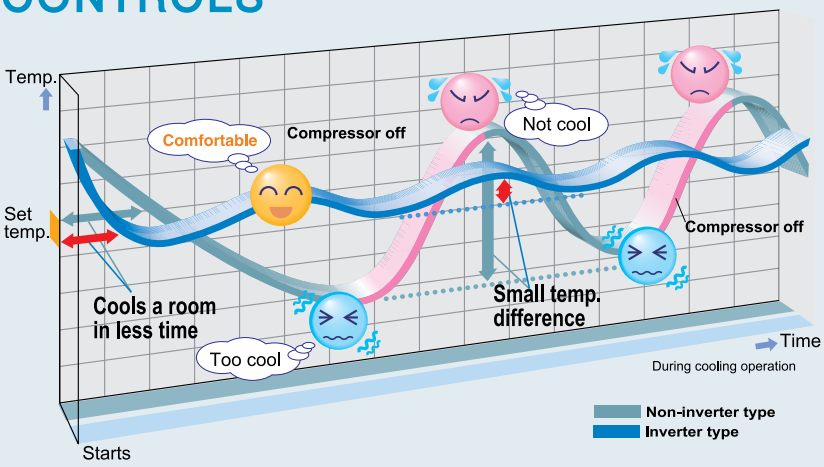
BETTER TEMPERATURE CONTROLS



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Inverter air conditioners finely adjust the cooling capacity according to changes in the air-conditioning load and the difference between the indoor temperature and set temperature; These provide better comfort compared to non-inverter air conditioners.

High Performance

R32 refrigerant properties boost the capacity of units for selected model to achieve full tonnage.

Capacity (Btu/hr)

Size	R32
50	18,500
60	20,500
71	**24,200**
85	30,000
100	**36,000**
125	42,000
140	**48,000**

The Daikin R32 Next-Generation Refrigerant

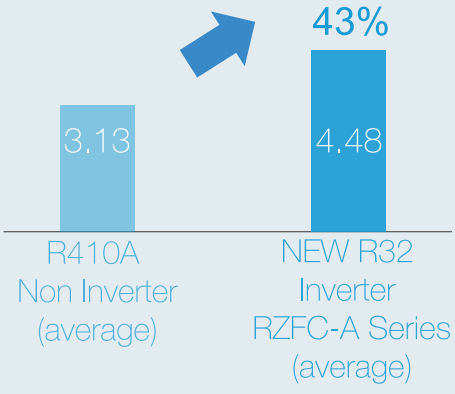
Ceiling Cassette 3x3

WiFi Control Enabling

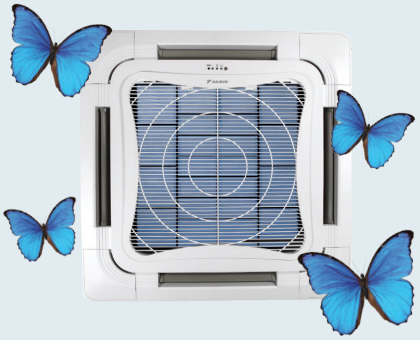
Network adaptor together with mobile app equipped with Aircond usage monitoring, in home control and out of control, timer setting and OTA Upgrading.

Energy Saving

R32 refrigerant properties provide better heat transfer compared to R410A refrigerant. Combining with higher efficiency of an Inverter Technology, the efficiency is tremendously improved by 43% from previous R410A Non Inverter models for better energy saving. Average CSPF increases as shown.



Ceiling Cassette 3x3



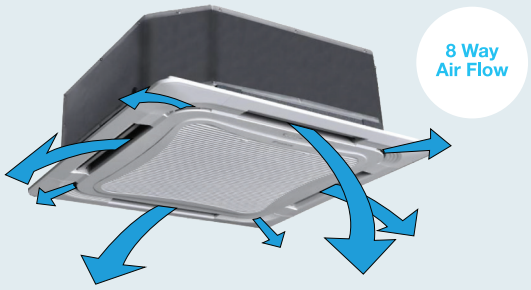


Slim Unit Design

Low height of 246mm designed to fit into tight ceiling as well as saving space.

Inspired by Nature

This series is derived from a clean and bright revolutionary concept and its intake grille is designed based on the wings of a butterfly to create the nature element.



8 – Way Air Flow Discharge

The unit delivers even and comfortable air-conditioning to all areas, covering to every corner of the room by combining 8-ways air discharge. Air flow direction can be fixed at your designated angle by the remote controller with auto swing mode.

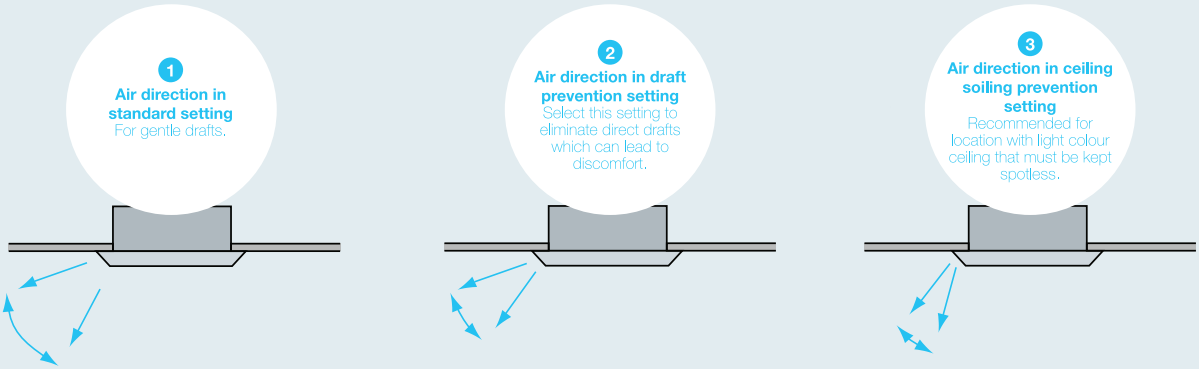


Unified Square Panels

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.

Stronger Air Draft

Motors are designed to boost higher airflow.



Optimal Comfort and Convenience Assured by Air Discharge Modes

To increase the comfort level of the air conditioned area, the system is built-in with 3 different types of air flow pattern to suit different requirements. Note: The default setting for air swing pattern is 1. The air swing pattern can be selected through the wireless remote control.



Comes with Network Adaptor

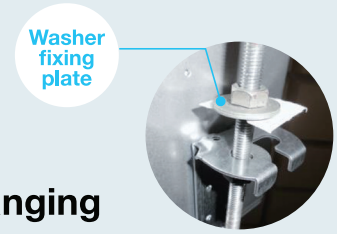
This equipped network adaptor together with mobile app turns a smartphone into a remote controller that can be used inside or outside the home. Together, they help to not only save energy and maintain comfort but also eliminate any worries of forgetting to turn off your air conditioner!

Easy Installation and Serviceability



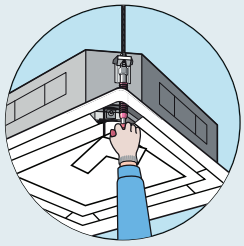
Lightweight

All models can be installed without using a lifter.



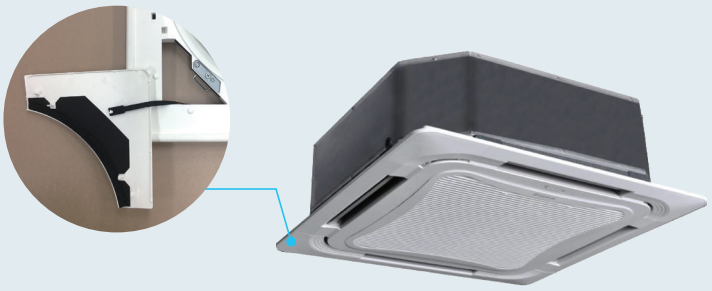
Easy Hanging

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



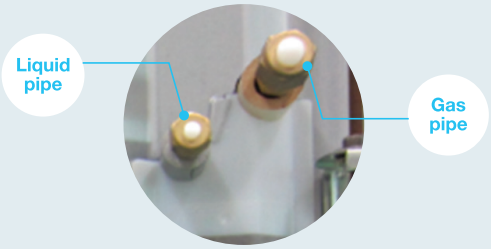
Easy Height Adjustment

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



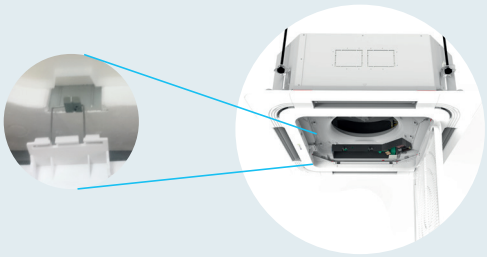
Easy Removal of Corner Cover

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



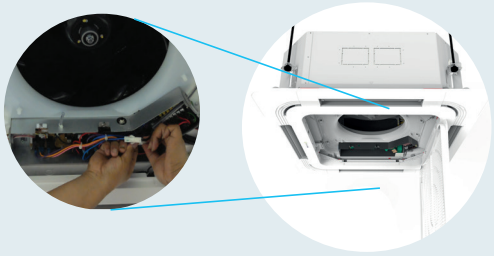
Position of Connecting Pipe and Drain Hose

In order to create more space for installer to work on connection pipe of indoor unit, the connection pipe of gas and liquid are located further from each other and purposely not aligned to hanging hook. To enhance the convenience of installation by relocating drain hose location to another side of cassette unit (not same side with connection pipe).



Panel Hook Mechanism

This feature enables the installer to work with both hands as the panel can be hung on the unit.



Easy Accessible to Control Box Location

The control box is now located in a more convenient and accessible space. Without adjusting the panel, control box can be directly accessed from the intake grille. Extra time saving on installation or servicing.



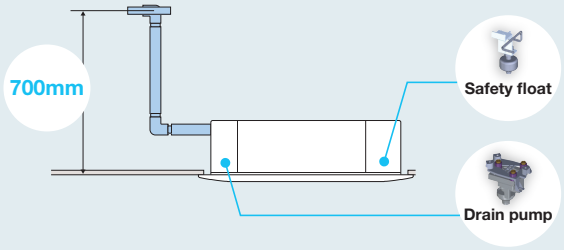
Condition of the Drain Pan and Drain Water

Can be checked by removing the suction grille and drain plug.



Flexible Drain Hose
(Supplied together with cassette indoor unit)

Flexible drain hose of 200mm is provided as standard. Ensure the height of drain pipe from ceiling is ≤700mm to prevent water leak.

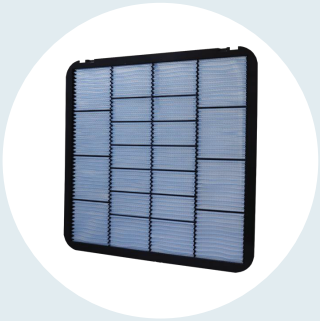


Drain Pump is Equipped as Standard

The unit comes with high head drain pump of 700mm* pressure head as standard. Drainage Protection: Safety Float incorporated in drain pump. Its function is to monitor water level and trigger drain pump to cut in when drainage water reached certain level.

*700mm calculated from drain pipe outlet to highest elevation point

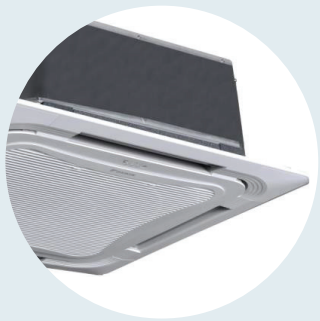
Cleanliness



Gin-ION Filter

This filter is treated with positively charged silver ion which effectively attract virus and bacteria onto its surface then decompose. On top of that, this filter can also prevent any fungal growth on its surface to provide better indoor air quality for healthier life. Supplied as standard with Cassette 3x3 panel.

Image disclaimer: The picture of filter is for illustration purpose only. Actual filter may vary due to product enhancement.



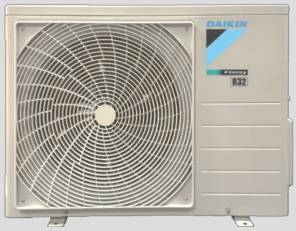
Non-Flocking Flaps

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

Outdoor



RZFC50/60/71A



RZFC85/100A



RZFC125/140A

High Performance Inverter R32 Compressor

Swing compressor providing high efficiency during partial load operation.

Anti-Corrosion Outdoor Heat Exchanger

The outdoor units come with anti-corrosion properties with it's gold fin heat exchanger and new corrosion resistant aluminium alloy microchannel heat exchanger.
Note: Gold fins heat exchanger for RZFC50-71A and microchannel heat exchanger for RZFC85-140A.

High Durability

Outdoor Casing : Adopted zinc coated heavy gauge galvanized steel, with exterior surfaces finished with a weather resistant polyester powder casing, painted with ivory white colour to increase durability.

Refrigerant Cooling

Daikin's unique refrigerant cooling system helps to protect the printed circuit board and maintains high cooling capacity even during high outdoor temperatures.
Note: For RZFC125/140A only.

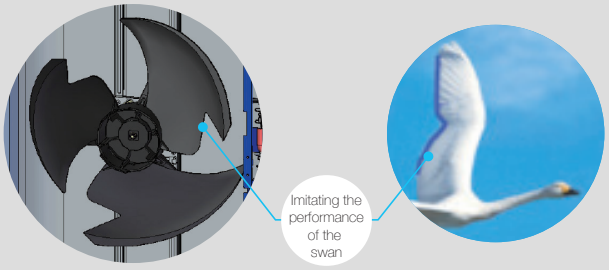
Coated Printed Circuit Boards (PCB)

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

Long Piping Length

Improved piping length to provide installation flexibility.

Size	50	60	71	85	100	125	140
Max Piping Length (m)	30	30	30	50	50	50	50
Max Piping Elevation (m)	15	15	15	30	30	30	30



V-Cut Propeller Fan

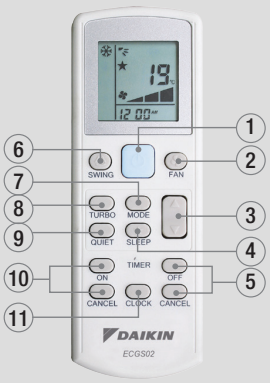
Through the use of a V-cut propeller fan that imitates the efficiency of the swan, a migratory bird, airflow becomes smooth as friction loss is reduced. Therefore, performance increases tremendously. Furthermore, it reduces the sound pressure level as shown below.

Quiet Operation

Sound Pressure Level (dBA)	50	60	71	85	100	125	140
R32 Inverter	52	52	52	53	54	54	56

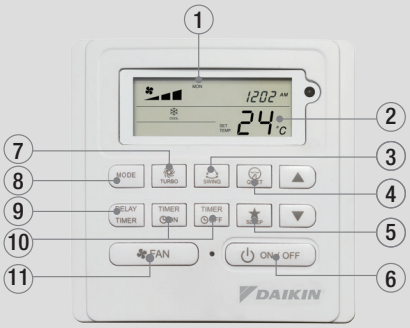
Remote Controllers

Wireless Controller BRC52A62 (Cooling Only)



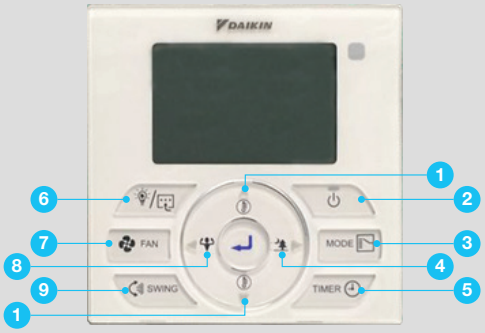
1. "Glow-in-the-dark" ON/OFF switch
2. Fan speed selection: Low, Medium, High, Auto
3. Temperature setting: Up & down
4. Sleep mode function
5. Off timer setting
6. Vertical auto-swing
7. Selectable mode: Cool, Dry, Fan
8. Turbo function
9. Quiet function
10. On timer setting
11. Real time clock

Wired Controller BRC51A62 (Cooling Only)



1. Real time clock and day display
2. Temperature operate in ℃ and ℉
3. Swing function
4. Quiet function
5. Sleep function
6. ON/OFF switch
7. Turbo function
8. Cool, Dry, Fan mode
9. Delay timer (1 or 2 hours)
10. 7-days programmable timer
11. Low, Medium, High, Auto fan speed

Wired Controller BRC51D61 (Optional Accessory)



1. Temperature Setting
2. ON/OFF Button
3. Mode: Press to select operating mode: COOL, DRY or FAN
4. Quiet Operation
5. Timer
6. Features Selection (Sleep, Quiet and Powerful)
7. Fan Operation
8. Powerful Operation
9. Swing

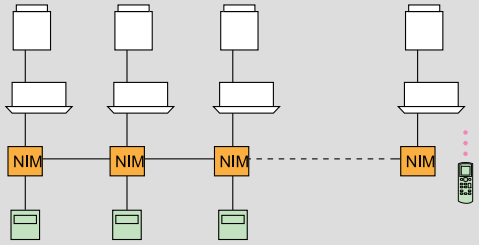
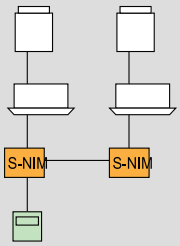
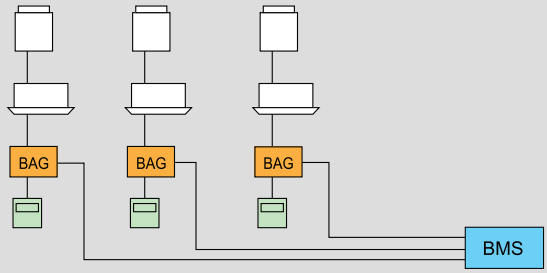
Remark : Refer Function Overview for applicable model

Built-in Temperature Sensor in Wired Controllers

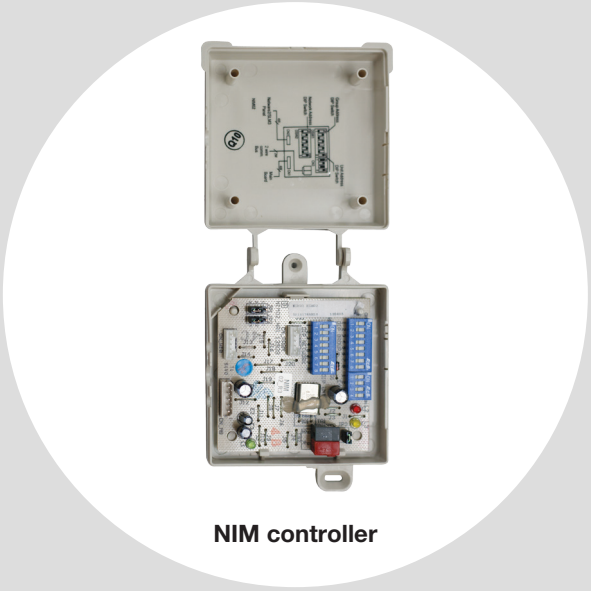
All wired controllers has a built-in temperature sensor that enables temperature sensing closer to target area for improved comfort. It can be connected directly to the unit's main board to start operating without extra settings or modifications. This feature can be set by installers during the commissioning.

Network Controls

Simple System that Provides Flexibility of Controls

	Control Pattern	Remote Controls
Group control by Network Interface module (NIM)	For simultaneous control of up to 16 indoor units	
Sequential control by Sequential Network Interface Module (S-NIM)	For sequential control of 2 indoor units at alternate sequence of pre-set hour	
Control by external command using BAG	Operation and surveillance is carried out using the contact signal from the operation control box in the building surveillance (security) room.	

Group Control by Network Interface Module (NIM)



NIM controller

The NIM group controls consist of:
- Mainboard
- Control panel (BRC51A62/BRC51D61/BRC51D62)
- NIM controller
- Communication bus

NIM utilizes master-slave configurations. One master can control up to 15 slave units in a group. The master unit operates in conjunction with a control panel. Any settings done via the control panel connected to the master overwrite the settings of its slave units. Slave units can be operated with or without control panel. If a slave unit is operating with a control panel, its settings can be changed without following its master's.

- DIP switch setting for group and unit address
- Automatic detection of control panel
- Error codes and error unit's ID indication on control panel

Supported configurations of NIM:

	Master	Slave
BRC51A62/BRC51D61 /BRC51D62	•	•
BRC52A62		•

Product Features

Cooling Comfort

Powerful Mode
Once activated, this feature will engage the indoor fan motor to run at maximum speed for 20 minutes. The turbo airflow enables the desired temperature to be achieved faster, especially in larger spaces.

Reliability

Flexible Piping
Designed for your convenience, this series come with piping lengths up to 30m & 50m, for high flexibility in system design and installation.

Auto-Restart After Power Failure
The air conditioner memorizes the setting for operation mode, fan speed and temperature setting and automatically returns to them when power is restored after a power failure.

Serviceability Friendly

Self-Diagnosis Function
This intelligent feature helps to detect faults of malfunctioning in the system.

Warning can be found through display error code in wired LCD remote controller. This information can be found in Installation Manual.

Lifestyle Convenience

Sleep Mode
Unwind at the end of the day with Sleep Mode, which gradually increases set temperature according to regular sleeping temperature patterns for an effortlessly personalised sleeping environment.

Quiet Mode
Reduce background noise with Quiet Mode, which decreases the sound pressure level to as low as 34dBA.

Timer
This timer can start or stop the air conditioner within a 24-hour period and can be preset in 30 minute steps using the wireless remote controller. The On Timer and Off Timer can be used in combination.

Cleaner Environment

Clean Air
The Saranet Air Filter and Micron-level fiber traps airborne dust particles in the air. The filters can be easily accessed or replaced.

Gin-ION Filter
This filter is treated with positively charged silver ion which effectively attracts virus and bacteria onto its surface then decompose. On top of that, this filter can also prevent any fungal growth on its surface to provide better indoor air quality for healthier life. Supplied as standard with Cassette 3x3.

Functions Overview



Ceiling Cassette 3x3

Comes with Network Adaptor

Comfort Airflow	8-way Airflow Operation	•
	Auto Fan Speed	•
	Indoor Unit Quiet Operation	•
	Auto Swing	•
Operation	Program Dry Function	•
	Fan Only	•
Lifestyle Convenience	Indoor Unit ON/OFF Button	•
	Signal Receiving Sign	•
	R/C With Back Light	•*
Cleanliness	Saranet Filter	-
	Gin-ION Filter	•
	Washable Grille	•
Worry Free (Reliability & Durability)	Auto-Restart After Power Failure	•
	Self-Diagnosis	•
	Wiring Error Check Function	•
	Anti-Corrosion treatment of outdoor heat exchanger	Gold Fin (class 50-71) MCHE (class 85-140)
Flexibility	ESP Selectio	-
	Water Pump (Water Drainage Pipe Flexibility)	•
	F/°C Changeover R/C Temperature Display (Factory Setting:°C)	•
	Pre-charged Piping Length	10m (class 50-71) 15m (class 85-140)
Remote Control (R/C)	WIFI Connectivity*2	•
	Weekly Timer (Wired Controller)	•*
	24-hour ON/OFF Timer	•
	NIM Adaptor	•*
	Sequential NIM Adaptor	•*
	Wireless (BRC52A62)	•
	Wired (BRC51A62)	•*
	Wired (BRC51D61) (Backlight)	•*
	Wired (BRC51D62) (Backlight)	-

- Not Available
- • Standard
- •* Optional
- *1 Optional (The use of wireless controller requires the connection of wired controller to receive signal)
- *2 Network Adaptor and Wired Handset cannot be use together, user to unplug Network Adaptor if want to use for Wired Handset and viceversa

Specifications



FCFE-A Series

Cassette 3x3 Specifications

Model			Indoor unit		FCFE50AV14	FCFE60AV14	FCFE71AV14	FCFE85AV14
			Outdoor unit		RZFC50AGV14	RZFC60AGV14	RZFC71AGV14	RZFC85AV14
			Decoration panel		BCR50F4	BCR50F4	BCR50F4	BCR50F4
Rated Cooling Capacity (Min-Max)				Btu/h	18,500 (7,800-19,100)	20,500 (8,900-21,500)	24,200 (10,900-27,300)	30,000 (14,300-34,100)
				kW	5.42 (2.30-5.60)	6.00 (2.60-6.30)	7.10 (3.20-8.00)	8.79 (4.20-10.00)
Total Power				W	1,680	1,960	2,070	2,710
Total Current				A	7.37	8.55	9.07	12.00
CSPF				Wh/Wh	4.47	4.34	4.78	4.67
Power supply				V/Ph/Hz	220-240/1/50 (POD)	220-240/1/50 (POD)	220-240/1/50 (POD)	220-240/1/50 (POD)
Indoor	Airflow (H/M/L/Q)			CFM	890/760/620/490	890/760/620/490	890/760/620/490	890/760/620/490
	Sound Pressure Level (H/M/L/Q)			dBA	44/40/37/34	44/40/37/34	44/40/37/35	44/40/37/35
	Dimension (H x W x D)		Unit	mm	246 X 840 X 840	246 X 840 X 840	246 X 840 X 840	246 X 840 X 840
			With decoration panel	mm	305 X 950 X 950	305 X 950 X 950	305 X 950 X 950	305 X 950 X 950
	Unit Weight		Unit	kg	22	22	22	22
			With decoration panel	kg	27	27	27	27
Outdoor	Sound Pressure Level			dBA	52	52	52	53
	Dimension (H x W x D)			mm	615 X 845 X 300	615 X 845 X 300	615 X 845 X 300	695 X 930 X 350
	Unit Weight			kg	37	37	37	40
Pipe Connection Size		Liquid		mm	6.4	6.4	9.5	9.5
Pipe Connection Size		Gas		mm	12.7	12.7	15.9	15.9
Maximum Piping Length				m	30	30	30	50
Maximum Piping Elevation				m	15	15	15	30

Model			Indoor unit		FCFE100AV14	FCFE125AV14	FCFE140AV14
			Outdoor unit		RZFC100AV14	RZFC125AY14	RZFC140AY14
			Decoration panel		BCR50F4	BCR50F4	BCR50F4
Rated Cooling Capacity (Min-Max)				Btu/h	36,000 (17,100-38,200)	42,000 (19,500-47,800)	48,000 (21,200-52,900)
				kW	10.55 (5.00-11.20)	12.31 (5.70-14.00)	14.07 (6.20-15.50)
Total Power				W	3,470	4,215	5,455
Total Current				A	15.30	6.48	8.38
CSPF				Wh/Wh	4.68	4.29	4.10
Power supply				V/Ph/Hz	220-240/1/50 (POD)	380-415/3/50 (POD)	380-415/3/50 (POD)
Indoor	Airflow (H/M/L/Q)			CFM	1120/1030/890/760	1120/1030/890/760	1120/1030/890/760
	Sound Pressure Level (H/M/L/Q)			dBA	48/46/43/40	48/46/43/40	48/46/43/40
	Dimension (H x W x D)		Unit	mm	288 X 840 X 840	288 X 840 X 840	288 X 840 X 840
			With decoration panel	mm	347 X 950 X 950	347 X 950 X 950	347 X 950 X 950
	Unit Weight		Unit	kg	25	25	25
			With decoration panel	kg	30	30	30
Outdoor	Sound Pressure Level			dBA	54	54	56
	Dimension (H x W x D)			mm	695 X 930 X 350	990 X 940 X 320	990 X 940 X 320
	Unit Weight			kg	40	62	62
Pipe Connection Size		Liquid		mm	9.5	9.5	9.5
Pipe Connection Size		Gas		mm	15.9	15.9	15.9
Maximum Piping Length				m	50	50	50
Maximum Piping Elevation				m	30	30	30

POD= Power from outdoor

Notes:
1. Due to product innovation, all specifications are subjected to change by the manufacturer without prior notice.
2. All units are being tested and comply to ISO5151.
3. Nominal cooling capacity are based on the conditions: 27°C DB / 19°C WB indoor and 35°C DB outdoor.
4. Sound pressure levels are measured in anechoic chamber. During actual operation, sound pressure level will be higher as a result of room specification condition.

NOT

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DAIKIN

Perfecting the Air

Kenyamanan Tanpa Batas

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

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

AUTHORIZED DEALER

Cautions on product corrosion

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

Specifications, designs and other content appearing in this brochure are current as of January 2026 but subject to change without notice.

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