



Perfecting the Air

SkyAir

PLXDSHK2423A

SUPERSEDE PLXDSHK2423

R32 Non Inverter Ceiling Cassette FCC-A Series

Cool Efficiency, All Day Long



Introducing the **World's First R32 Air Conditioner**

Experience the ground-breaking R32 refrigerant, that perfectly balances energy efficiency, user-friendliness, and environmental sustainability. This innovative technology offers distinct advantages, providing you with comfort and peace of mind.





Ozone Layer Protection

1. Unlike R22, R32 does not contribute to ozone layer depletion.
2. R32 has one-third the global warming potential of R410A.



Life Cycle Climate Performance (LCCP)

1. LCCP measures the total global warming impact of refrigerants.
2. Factors considered in LCCP include emissions during:
 - Refrigerant manufacturing
 - Air conditioner manufacturing
 - Air conditioner operation, servicing, and disposal
3. R32 has the lowest LCCP, making it a superior choice for future refrigerants.



Economic Feasibility

1. R32 refrigerant is widely available worldwide, as it constitutes 50% of the composition of R410A.
2. With 9% lower liquid density compared to R410A, R32 requires less refrigerant charge for the same system.



Safety

R32 is a stable refrigerant with a minimal risk of ignition due to the low amount of refrigerant charge in the unit.



Energy Efficiency

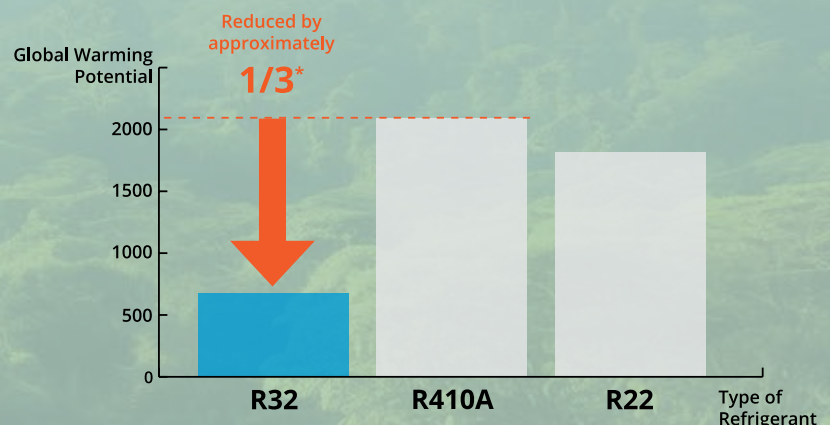
Several features enhance the efficiency of the R32 system:

- **Lower Vapor Density & System Mass Flow Rate:** This results in approximately 50% lower pressure drop.
- **Higher Latent Heat:** R32 offers 43-50% higher latent heat compared to R410A.
- **Higher Liquid Thermal Conductivity:** R32 has 41% better liquid thermal conductivity, allowing seamless and efficient heat transfer at the same mass flux.

Reducing Global Warming Impact

Our advanced R32 refrigerant system significantly decreases environmental impact by reducing the refrigerant charge by 10-30%. This not only lowers the overall global warming potential but also enhances system efficiency, making it a smart and responsible choice for a greener future.

*Source: Values for 100-year global warming potential(GWP) from IPCC Fourth Assessment Report. 100-year GWP: comparison of 2090 (HFC410A) and 675 (HFC32).



CEILING CASSETTE 3X3

Daikin's Ceiling Cassette air conditioning units combine powerful cooling with a discreet design, ensuring efficient and uniform air distribution for enhanced comfort in any environment.



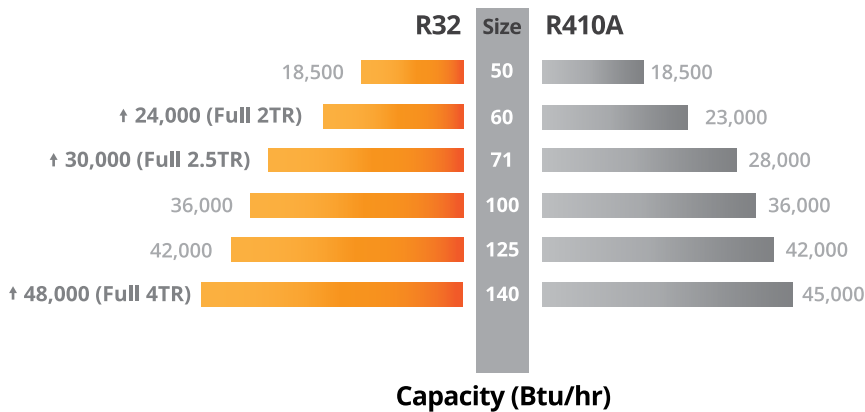
Wireless Remote Controller

Supplied together with panel for user convenience.

BRC52A62

Powerful Performance

Leveraging the superior properties of the R32 refrigerant, our air conditioners enhance the cooling capacity of selected models, achieving full tonnage for optimal performance.



12% ⚡
Improvement
from previous R410A
Non Inverter models

Enhanced Energy Savings

R32 refrigerant properties provide better heat transfer compared to R410A refrigerant. Therefore, the efficiency is tremendously improved by 12%.

CLASS	EER	
	R32	R410A
50	3.23	3.08
60	3.30	3.29
71 (1 PH)	3.24	2.80
71 (3 PH)	3.26	2.83
100	3.28	2.88
125	3.40	3.00
140	3.43	2.74

8-Way Air Flow & Powerful Air Draft

Enjoy consistent and comfortable cooling throughout your space with our innovative 8-way air discharge system. Easily adjust the airflow direction to your preferred angle using the remote controller's auto swing mode. Our advanced motor design enhances airflow, delivering strong air drafts for superior cooling efficiency.



Slim Unit Design

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

Sleep Mode

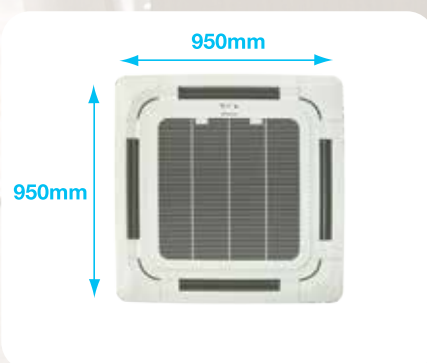
Once activated, sleep mode ensures a comfortable environment for restful sleep. Create extra saving for commercial application especially for low activity during night operation.

Indoor Unit ON/OFF Switch

Enables to operate the unit even if the remote controller is misplaced or the remote's battery is weak. Pre-set at 24°C cool mode, just press the ON/OFF switch for instant cooling comfort.

ON/OFF Timer

Operation starts when the pre-set time of the ON timer elapses and stops when the pre-set time of the OFF timer elapses. This setting can be set from wireless LCD remote controller or wired LCD remote controller. Based on real time clock.



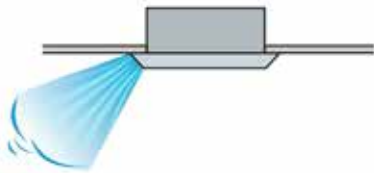
Unified Square Panels

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.

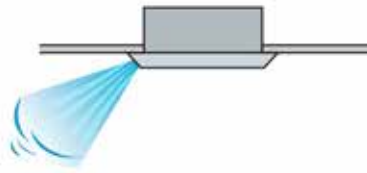
Optimal Comfort and Convenience Assured by Air Discharge Modes

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.

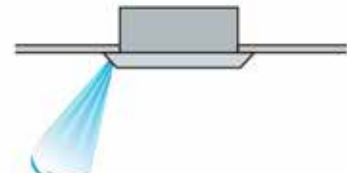
Note: The default setting for air swing pattern is 1. The air swing pattern can be selected through the wireless remote control.



**1.
Air Direction In Standard
Setting**
For gentle drafts.



**2.
Air Direction In Draft
Prevention Setting**
Select this setting to eliminate
direct drafts which can lead to
discomfort.

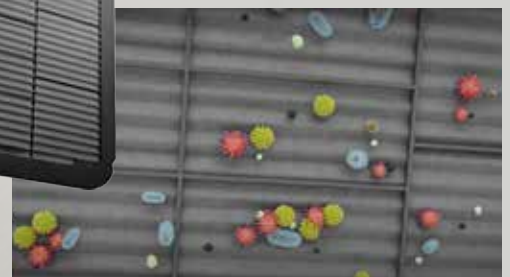


**3.
Air Direction In Ceiling Soiling
Prevention Setting**
Recommended for location with
light colour ceiling that must be
kept spotless.

Saranet Filters

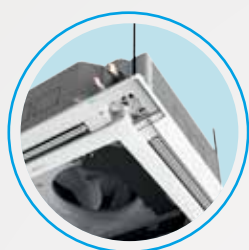
Functions as standard dust filtration with 55% efficiency. Supplied as standard with Cassette 3x3 panel.

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



Flexible Installation for Design Freedom

Daikin air conditioning units are engineered for simple installation and maintenance, offering a seamless setup experience and easy servicing to ensure top-tier performance.



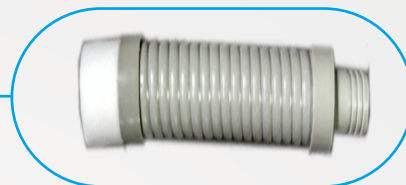
Easy Height Adjustment

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



Easy Hanging

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



Easy and 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 $\leq 700\text{mm}$ to prevent water leak.

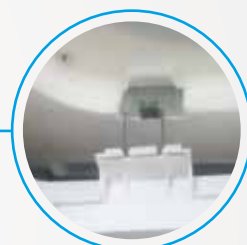


Drain plug

Drain outlet (with rubber plug)

Easy Drain Water Checking

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



Easy Panel Installation

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



Easy Piping Connection

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).



Easy Removal of Corner Cover

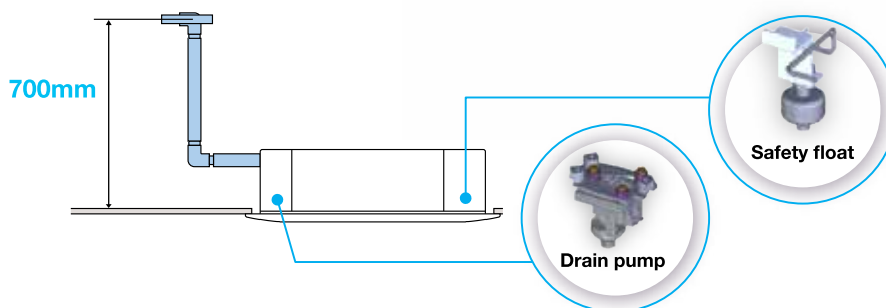
It is possible to easily remove without use of screws or tools.

**Pictures in the visual diagram above is for illustration purposes only*



Easy Access to Control Box Location

The control box is now positioned in a more easily reachable location. Without the need to adjust the panel, it can be accessed directly from the intake grille, saving valuable time during installation or servicing.



Drain Pump is Equipped as Standard

The air-conditioning unit features a high-capacity drain pump with a standard 700mm* pressure head. Drainage protection is enhanced by a safety float in the pump, that monitors water levels and activates the pump when necessary to prevent overflow.

**700mm calculated from the ceiling outlet to highest elevation point*

OUTDOOR UNITS

Achieve superior cooling performance with our high performance R32 Compressor, designed for optimal energy efficiency and environmental friendliness. Enjoy dependable comfort while reducing energy expenses.



RC50/60A



RC71A



RC100/125/140A

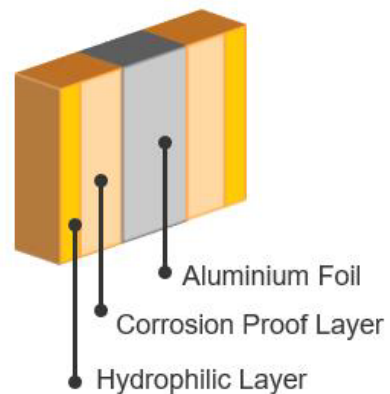
High Performance R32 Compressor

R32 Non-Inverter SkyAir is utilizing high performance compressors to achieve higher EER.



Outdoor Heat Exchanger

The Anti-Corrosion Gold Fin is supplied as standard from the factory. It provides a longer lifespan for the heat exchanger compared to a normal bare aluminum fin.

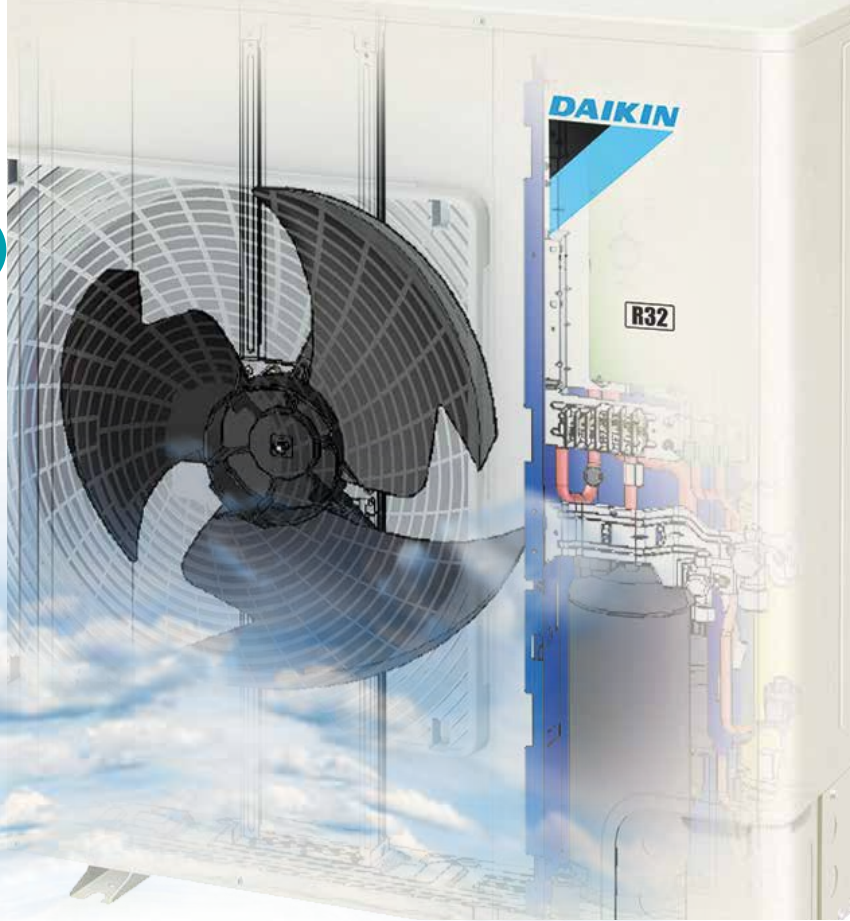
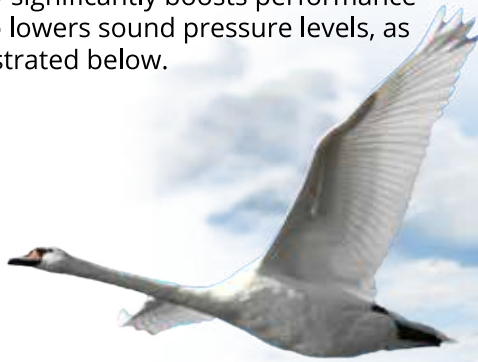


Enhanced Durability

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.

V-Cut Propeller Fan

Utilizing a V-cut propeller fan inspired by the graceful efficiency of migratory swans, our design guarantees smooth airflow by minimizing friction loss. This innovation not only significantly boosts performance but also lowers sound pressure levels, as demonstrated below.



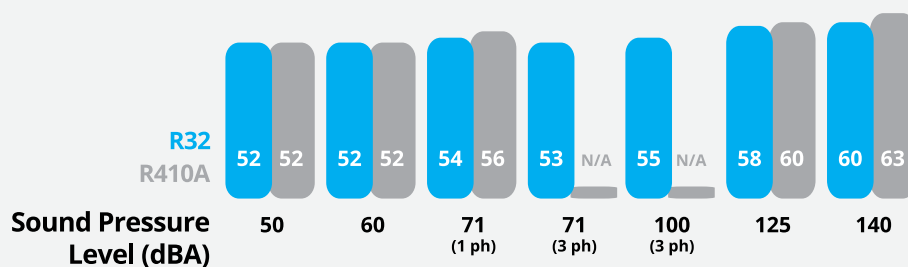
Long Piping Length

Improved piping length to provide installation flexibility.

Size	35	50	71	100	125	140
Max Piping Length (m)	35	35	50	50	50	50
Max Piping Elevation (m)	20	20	30	30	30	30

Quiet Operation

Enjoy the comfort of exceptional calmness with advanced sound reduction technology.





CEILING CASSETTE

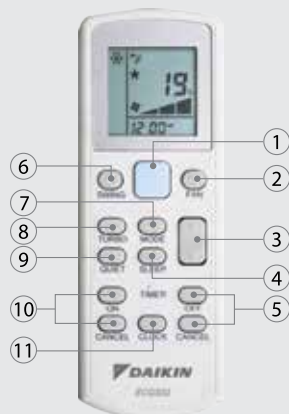
EASY TO MAINTAIN

Flocking Flaps

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

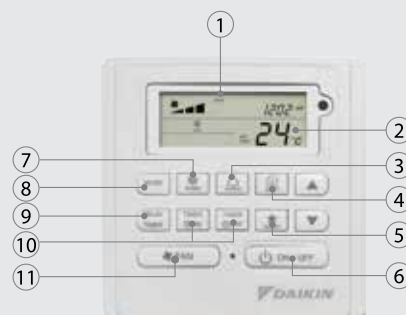


Wireless Controller BRC52A62



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

Wired Controller BRC51A62 (Optional Accessory)



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

Wired Controller (SHIRO), BRC51D61 (Optional Accessory)



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

Remark : The remote controllers are supplied differently. Wireless controller is supplied as a standard. Kindly refer to the Function Overview for applicable models.

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.

FUNCTIONS OVERVIEW



Ceiling Cassette

Category	Functions	FCC50/60/71A RC50/60/71A (1 phase)	FCC71/100/125A RC71/100/125A	FCC140A RC140A
Basic Function	Inverter	-	-	-
	Operation Limit for Cooling (°CDB)(O/D)	19 ~ 46	19 ~ 46	19 ~ 46
	Operation Limit for Cooling (°FDB)(O/D)	66.2 ~ 114.8	66.2 ~ 114.8	66.2 ~ 114.8
	Operation Limit for Heating (°CWB)(O/D)	-	-	-
	Operation Limit for Heating (°FWB)(O/D)	-	-	-
Compressor	Scroll Compressor	-	-	●
	Rotary Compressor	●	●	-
	Swing Compressor	-	-	-
Comfortable Airflow	4-Way Airflow Operation	-	-	-
	8-Way Airflow Operation	●	●	●
	Surround Airflow Operation	-	-	-
Comfort Control	Auto Fan Speed	●	●	●
	Switchable Fan Speed	●	●	●
	Auto Swing	●	●	●
	Indoor Unit Quiet Operation	●	●	●
Operation	Programme Dry Function	●	●	●
	ECO+	-	-	-
	Powerful Mode	●	●	●
	Sleep	●	●	●
	Fan Only	●	●	●
Lifestyle Convenience	Indoor Unit ON/OFF Button	●	●	●
	Signal Receiving Sign * ¹	●	●	●
	R/C with Backlight * ²	●*	●*	●*
	LED Display ON/OFF Button	-	-	-
	Room Temperature Display * ²	●*	●*	●*
	Streamer ON/OFF Button * ¹	-	-	-
Health & Clean	Saranet Filter	●	●	●
	GIN-ION Filter	-	-	-
	PM 2.5	-	-	-
	Titanium Apatite	-	-	-
	Streamer	-	-	-
	Ionizer	-	-	-
	Fresh Air Intake Kit	-	-	-
	Washable Grille	●	●	●
Timer	Weekly Timer Operation * ³	●*	●*	●*
	24-hour ON/OFF Timer (R/C) * ¹	●	●	●
	24-Hour RTC	●	●	●



Ceiling Cassette

Category	Functions	FCC50/60/71A RC50/60/71A (1 phase)	FCC71/100/125A RC71/100/125A	FCC140A RC140A
Worry Free (Reliability & Durability)	Auto Restart (After Power Failure)	●	●	●
	Self-diagnosis	●	●	●
	Wiring Error Check Function	-	●	●
	Anti-corrosion Treatment of Outdoor Heat Exchanger	Gold Fin	Gold Fin	Gold Fin
	Low/High Voltage Shield (PCB Level / Unit Level)	-	-	-
	R32 Refrigerant Gas Leak Sensor	-	-	-
Flexibility	ESP Selection	-	-	-
	Water Pump (Water Drainage Pipe Flexibility)	●	●	●
	°F/°C Changeover R/C Temperature Display (Factory setting: °C)	●	●	●
	Pre-charged Piping Length	7.5m	7.5m	7.5m
Remote Control	Wireless LAN Connectivity	-	-	-
	BAG Connectivity	●*	●*	●*
	iTM Connectivity	_*	_*	_*
Remote Controller	Wireless (BRC52A62)	●	●	●
	Wired (Optional) (BRC51A62)	●*	●*	●*
	Wired (SHIRO) (Optional) (BRC51D61)	●*	●*	●*

Notes:-

● : Available

- : Not Available

* : Optional (Refer to DAMA Spare Part team for more details on optional items.)

*1: Applicable when wireless (BRC52A62) remote controller is used for selected models.

*2: Applicable when wired (BRC51D61) (SHIRO) remote controller is used.

*3: Applicable when wired (BRC51A62 / BRC51D61) remote controller is used.

SPECIFICATIONS



R32 Non-Inverter Ceiling Cassette Specifications

Model Name			Indoor Unit	FCC50A	FCC60A	FCC71A	FCC71A
			Outdoor Unit	RC50A	RC60A	RC71A (1 ph)	RC71A (3 ph)
			Panel	BC50F	BC50F	BC50F	BC50F
Operating Limit			°C	19~46	19~46	19~46	19~46
Cooling Capacity			Btu/h	18500	24000	30000	30000
			kW	5.42	7.03	8.79	8.79
EER			W/W	3.23	3.30	3.24	3.26
Total Power Input			W	1680	2130	2710	2700
Total Current			A	7.46	9.45	11.9	4.48
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380/415-3/50
				Power from Outdoor			
Indoor	Airflow (H/M/L/Q)		CFM	840/700/560/440	890/760/620/490	890/760/620/490	890/760/620/490
	Sound Pressure Level (H/M/L/Q)		dBA	42/39/37/35	44/40/37/35	44/40/37/35	44/40/37/35
	Unit Dimension (H x W x D)	Unit	mm	246 X 840 X 840			
		Packaging	mm	324 X 922 X 922			
	Panel Dimension (H x W x D)	Panel	kg	69 X 950 X 950			
		Packaging	kg	147 X 1008 X 970			
	Unit Weight		kg	22	22	22	22
	Panel Weight		kg	5	5	5	5
Outdoor	Sound Pressure Level		dBA	52	52	53	53
	Dimension (H x W x D)	Unit	mm	615 X 845 X 300	615 X 845 X 300	695 X 930 X 350	695 X 930 X 350
		Packaging	mm	679 X 992 X 414	679 X 992 X 414	760 X 1084 X 473	760 X 1084 X 473
	Unit Weight		kg	40	46	56	57
Piping Connection Size		Liquid	mm	6.4	6.4	9.5	9.5
		Gas	mm	12.7	12.7	15.9	15.9
Maximum Piping Length			m	35	35	50	50
Maximum Piping Elevation			m	20	20	30	30

Model Name			Indoor Unit	FCC100A	FCC125A	FCC140A
			Outdoor Unit	RC100A	RC125A	RC140A
			Panel	BC50F	BC50F	BC50F
Operating Limit			℃	19~46	19~46	19~46
Cooling Capacity			Btu/h	36000	42000	48000
			kW	10.55	12.31	14.07
EER			W/W	3.28	3.40	3.43
Total Power Input			W	3220	3620	4100
Total Current			A	5.97	6.78	7.59
Power Supply			V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
				Power from Outdoor		
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
	Unit Dimension (H x W x D)	Unit	mm	288 X 840 X 840		
		Packaging	mm	370 X 922 X 922		
	Panel Dimension (H x W x D)	Panel	kg	69 X 950 X 950		
		Packaging	kg	147 X 1008 X 970		
	Unit Weight		kg	25	25	25
	Panel Weight		kg	5	5	5
Outdoor	Sound Pressure Level		dBA	55	58	60
	Dimension (H x W x D)	Unit	mm	852 X 1030 X 400	852 X 1030 X 400	852 X 1030 X 400
		Packaging	mm	995 x 1136 x 516	995 X 1136 X 516	995 x 1136 x 516
	Unit Weight		kg	64	79	84
Pipe Connection Size		Liquid	mm	9.5	9.5	9.5
		Gas	mm	15.9	15.9	15.9
Maximum Piping Length			m	50	50	50
Maximum Piping Elevation			m	30	30	30

Remarks:

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.

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.

Remark: The fan speed will not increase if the unit is already set to high.

Lifestyle Comfort



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.



Quite Mode

Reduce background noise with Quiet Mode, which decreases the sound pressure level to as low as 35dBA.

Remark: Only applicable to FCC-A series



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.

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.



Automatic Power Recovery with Surge Protection

If there is a sudden power failure, the unit will automatically restart with 64 different recovery patterns according to its last settings. This also prevents a sudden surge of electricity to your power source.

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 without tools via the detachable front panel.

Service-Friendly Design



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.

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*Note: 1) Specifications, design and other content
appearing in this brochure are current as of July
2025 by subject to change without prior notice.
2) All pictures shown are for illustration purpose
only. Actual product may vary due to product
enhancement.*