



R32

The Next-Generation Refrigerant

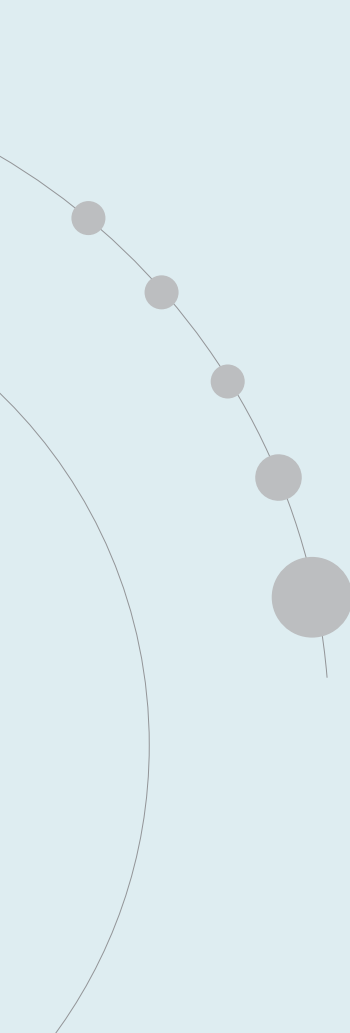
Inverter SkyAir Series



Air
is our EL



There's more to
feel good about



ement

R32

Pentagon of Benefits

Ozone layer protection

1. R32 does not deplete the ozone layer unlike R22.
2. It is 1/3 lower in global warming potential comparing with R410A.

Economic feasibility

1. R32 refrigerant is now available in high volume globally since it is 50% of R410A composition.
2. R32 has 9 % lower liquid density compared to R410A. In a same system, R32 charge is lesser than R410A.

R32

0

Ozone Depletion Potential

675

Global Warming Potential

R410A

0

Ozone Depletion Potential

2,090

Global Warming Potential

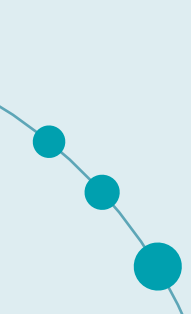
R22

0.05

Ozone Depletion Potential

1,810

Global Warming Potential



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	71	85
Floor Standing Indoor Unit (Wireless Handset)	 FVFC71AV14	 FVFC85AV14
Condensing Unit Outdoor Unit (Gold Fin / MCHE) Power supply	 RZFC71AGV14 Gold Fin 200-240/1/50 (POD)	 RZFC85AV14 MCHE 220-240/1/50 (POD)

Remark :
 POD : Power from Outdoor

100

125

140



FVFC100AV14



FVFC125AV14



FVFC140AV14



RZFC100AV14
MCHE
220-240/1/50 (POD)



RZFC125AY14
MCHE
380-415/3/50 (POD)



RZFC140AY14
MCHE
380-415/3/50 (POD)

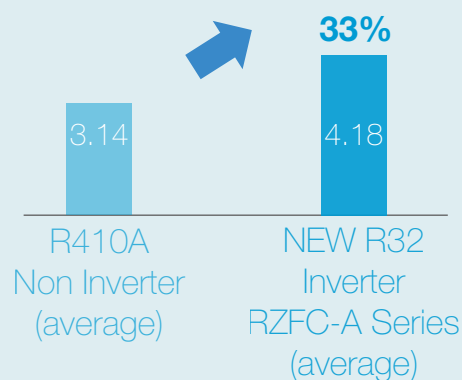
The Daikin **R32** Next-Generation Refrigerant

Floor Standing



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 33% from previous R410A Non Inverter models for better energy saving. Average CSPF increases as shown.

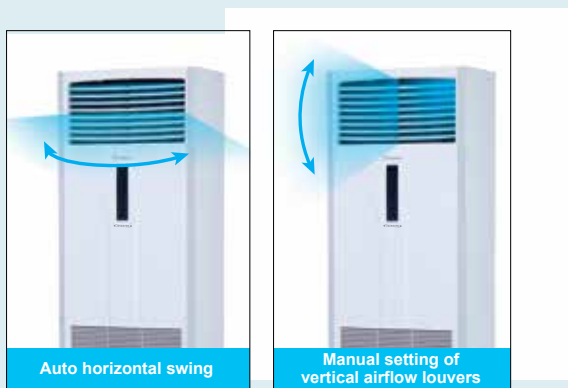


High Air Flow

High air flow ensures the spaces of the room to be cooled down rapidly to the set temperature.

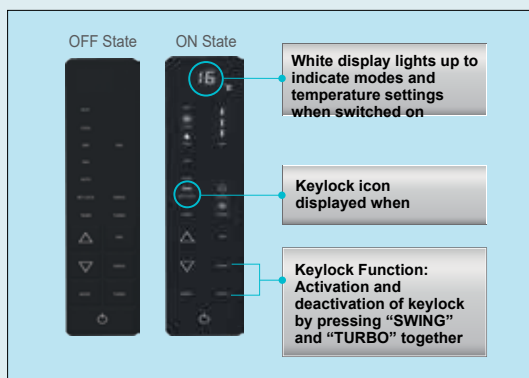
Auto-Swing Mode

This unit uses its automatic horizontal swing louver to spread comfortable air flow to cool every corner of the room. Its vertical louvers are adjusted manually to match different interior spaces and partition as well as to avoid direct airflow.



User-Friendly Controls

The unit comes with a stylish black control panel with white LED light for clear display. It comes with a keylock function to prevent setting change from unauthorised personnel.



Additionally, this unit is incorporated with infrared sensor for usage with wireless controller (BRC52A62) which comes with the unit as the standard package. Thus, it can also be controlled using wireless controller for the flexibility in controls.



Two Selectable Temperature Sensors

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

*Temperature-sensor on indoor unit must be used when the air conditioner is controlled from another room.

**Wireless remote controller does not have a temperature-sensor

Switchable Fan Speed

High → Medium → Low

High setting provides maximum reach while low setting minimizes drafts.

Timer Selector

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

Powerful/Turbo Operation

New powerful/turbo operation boosts airflow to maximum volume for a 20-minute period with highest fan speed. After this, the unit automatically returns to its previous settings.

Indoor Unit ON/OFF Switch

The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.

Easy Maintenance

Safety Clip

The safety clip feature allows the users to remove the washable saranet filter with ease during maintenance. At the same time, it also acts as a safety feature to prevent the users from reaching into the electrical and mechanical components.



Space for Water Drain Pump

There is a space in the unit below the fan that allows users to install an external condensate water pump.

* The condensate water drain pump is separately purchased and field installed.



Outdoor



RZFC71A



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.
Remark: Gold fins heat exchanger for RZFC71A 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.
Remark: For RZFC125/140A only.

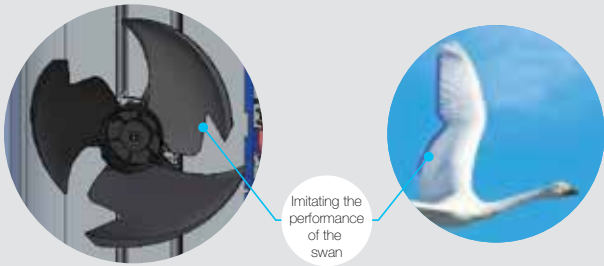
Coated Printed Circuit Boards (PCB)

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



V-Cut Propeller Fan

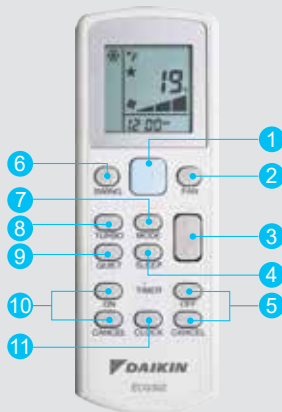
Through the use of a V-cut propeller fan that imitates the efficiency of the swan, a migratory bird, airflow becomes smooth as friction loss is reduced. Therefore, performance increases tremendously. Furthermore, it reduces the sound pressure level as shown below.

Quiet Operation

Sound Pressure Level (dBA)	71	85	100	125	140
R32 Inverter	52	53	54	54	56
R410A Non Inverter	58	N/A	58	60	65

Controllers

Wireless Controller



BRC52A62

- | | |
|--|-----------------------------------|
| 1 "Glow-in-the-dark" ON/OFF switch | 6 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 (Optional Accessory)



BRC51D61

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

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.

Product Features

Cooling Comfort



Powerful/Turbo Mode

Once activated, this feature will engage the indoor fan motor to run at maximum speed for 20 minutes. The powerful/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 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.

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.

Centralized Control



Intelligent Touch Manager (iTM) Connectivity (option)

Connectivity to a centralized control system is available (requires optional adaptor).

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.



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 fiber traps airborne dust particles in the air. The filters can be easily accessed or replaced via the detachable front panel.

Functions Overview

Category	Functions	FVFC71A RZFC71A	FVFC85/100/125/140A RZFC85/100/125/140A
Basic Function	Inverter	•	•
	Operation Limit for Cooling (°CDB)(O/D)	21~46	21~46
	Operation Limit for Cooling (°FDB)(O/D)	69.8~114.8	69.8~114.8
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 (Left-right)	•	•
	Indoor Unit Quiet Operation	-	-
Operation	Programme Dry Function	•	•
	ECO+	-	-
	Powerful/Turbo 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	•	•
	Ionizer	-	-
	Fresh Air Intake Kit	-	-
	Washable Grille	•	•
Timer	Weekly Timer Operation * ²	•*	•*
	24-hour ON/OFF Timer (R/C) * ¹	•	•
	24-Hour RTC	-	-
Worry Free (Reliability & Durability)	Auto Restart (After Power Failure)	•	•
	Self-diagnosis	•	•
	Wiring Error Check Function	•	•
	Anti-corrosion Treatment of Outdoor Heat Exchanger	Gold Fin	MCHE
	Low/High Voltage Shield (PCB Level)	•	•
	R32 Refrigerant Gas Sensor	•	•
Flexibility	ESP Selection	-	-
	Water Pump (Water Drainage Pipe Flexibility)	•*	•*
	°F/°C Changeover R/C Temperature Display (Factory setting: °C)	•	•
	Pre-charged Piping Length	10m	15m
Remote Control	Wireless LAN Connectivity	-	-
	BAG Connectivity	-	-
	iTM Connectivity * ³	•*	•*
Remote Controller	Wireless	BRC52A62	BRC52A62
	Wired (Optional)	BRC51D61	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) is used.

*3: Additional adaptor KRP928BB2S is required to establish connectivity.

Specifications

R32 Inverter Floor Standing Specifications

Model			Indoor unit		FVFC71A	FVFC85A	FVFC100A	FVFC125A	FVFC140A
			Outdoor unit		RZFC71A	RZFC85A	RZFC100A	RZFC125A	RZFC140A
Operating Limit			C	21~ 46	21 ~ 46	21 ~ 46	21 ~ 46	21 ~ 46	
Cooling Capacity (Min-Max)			Btu/h	24200 (10900-27300)	29000 (14300-31000)	34100 (17100-38200)	42700 (18200-46500)	46500 (18200-49000)	
			kW	7.10 (3.20-8.00)	8.50 (4.20-9.10)	10.00 (5.00-11.20)	12.50 (5.30-13.60)	13.60 (5.30-14.40)	
EER			W/W	3.05	3.01	3.01	2.77	2.70	
CSPF			Wh/Wh	4.27	4.20	4.10	4.25	4.10	
Total Power Input			W	2330	2820	3320	4520	5045	
Total Current			A	10.20	12.60	14.60	7.00	7.77	
Power Supply			V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	380-415/3/50	380-415/3/50	
				Power from OUTDOOR	Power from OUTDOOR	Power from OUTDOOR	Power from OUTDOOR	Power from OUTDOOR	
Indoor	Airflow (H/M/L)		cfm	675/625/530	1000/835/650	1090/975/860	1240/1144/1040	1240/1144/1040	
	Sound Pressure Level (H/M/L)		dB(A)	44/42/39	47/44/41	49/47/44	53/51/49	53/51/49	
	Unit Dimensions (HxWxD)	Unit	mm	1850 X 600 X 270	1850 X 600 X 350	1850 X 600 X 350	1850 X 600 X 350	1850 X 600 X 350	
		Packaging	mm	760 X 1998 X 418	760 x 1998 x 498	760 x 1998 x 498	760 x 1998 x 498	760 x 1998 x 498	
	Machine Weight	Unit	kg	42	45	45	45	48	
		Gross	kg	54	58	58	58	61	
Outdoor	Sound Pressure Level		dB(A)	52	53	54	54	56	
	Dimension (H x W x D)	Unit	mm	615 X 845 x 300	695 X 930 X 350	695 X 930 X 350	990 x 940 x 320	990 x 940 x 320	
		Packaging	mm	679 X 992 X 414	760 X 1084 X 473	760 X 1084 X 473	1126 X 1003 X 396	1126 X 1003 X 396	
	Machine Weight	Unit	kg	37	40	40	62	62	
		Gross	kg	41	45	45	68	68	
			Pipe Connection		Liquid	mm	9.5	9.5	9.5
			Gas	mm	15.9	15.9	15.9	15.9	
Maximum Piping Length			m	30	50	50	50	50	
Maximum Piping Elevation			m	15	30	30	30	30	
Heat Insulation				Both Liquid and Gas Piping					

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.

Optional Accessories

Optional Accessories	Model Name / Part Number
Wired (SHIRO) Controller	BRC51D61
Intelligent Touch Manager (ITM) Controller	DCM601A51
Interface Adaptor for Intelligent Touch Manager (ITM)	KRP928BB2S

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DAIKIN MALAYSIA SDN. BHD.

Lot 60334, Persiaran Bukit Rahman Putra 3,
Taman Perindustrian Bukit Rahman Putra,
47000 Sungai Buloh, Selangor Darul Ehsan, Malaysia.
www.daikinmalaysia.com

DAIKIN INDUSTRIES, LTD.

Head office:
Umeda Center Bldg., 2-4-12, Nakazaki-Nishi,
Kita-Ku, Osaka, 530-8323 Japan.

Authorised Dealer: