



Cutting-edge technology,
inspired by local needs



FCA Series

INVERTER

Preliminary



 DRIVING OUR
GREEN VISION



Daikin **INVERTER** Cassette Units



DAIKIN. Everything you ever wanted in air conditioning

Daikin operates under the belief that customers are buying quality. With this in mind, Daikin strives to stay ahead of consumer needs by providing high-quality products with superior performance, energy efficiency, and comfort and by designing stylish solutions that conform to all interior spaces and lifestyles..

At the forefront of energy efficiency, Daikin has designed a new inverter cassette unit, using the low GWP* and Zero ODP** refrigerant R-32, which allows owners to reduce their energy bill all year round. This new series combines the most advanced technologies.

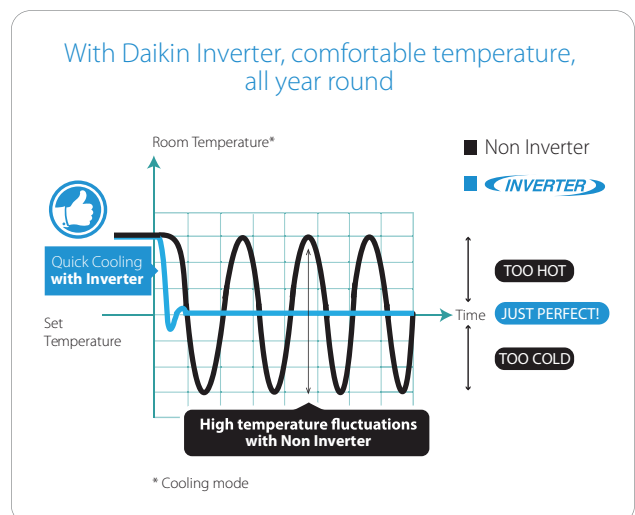
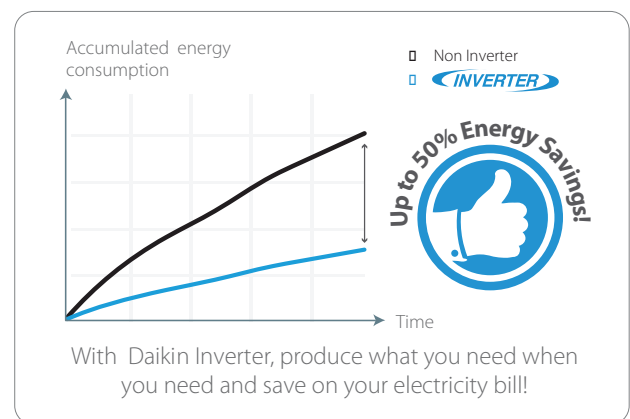
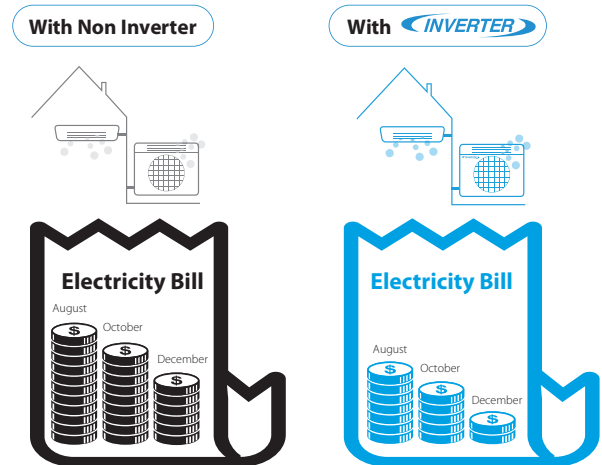
Inverter technology helps to reduce energy bill substantially, while maintaining the highest level of comfort. Start-up time is reduced and temperature is maintained stable at all times, unlike non inverter air conditioners.

Using efficient systems will result in lower electricity bills, but also in lesser load to be applied on the generator as power input is being minimized.

Think Smart; Think Green; Think Daikin Inverter

Benefits of INVERTER at a glance

- » Energy saving all the year round, for a lower electricity bill and lower carbon footprint
- » Lower starting current and less load to be applied on the generator
- » Powerful cooling
- » Quieter operation
- » Longer lifetime





Main Features

Daikin's FCA series, by combining the best available technologies, runs quieter, cools faster and saves more than conventional air conditioner. It is designed to deliver a comfortable living environment for longer periods of time. This new series incorporates a lot of exceptional features for an unrivaled, efficient, and reliable comfort.

Powerful and Efficient Cooling



R-32

R-32 Refrigerant

Unlike R-22, R-32 has no ozone depletion potential for a reduced impact on the environment. This next generation refrigerant has a heat transfer 1.5 times higher than R-410A and a GWP* 675 CO₂ eq., which is about one third of R-410A. It can contribute to reduce eq. CO₂ emissions up to 72% against R-410A.



Inverter Technology

Daikin units are conceived to offer powerful cooling to quickly cool down the room. The system has been designed for optimum nominal efficiency, with EER reaching up to 3.15 W/W, and seasonal energy efficiency, in line with real life operating conditions in Africa. Using efficient systems will result in lower electricity bills, but also in lesser load to be applied on generator as power input is minimized.



Certified Performance

Daikin units offer excellent nominal and peak efficiency, exceeding the most stringent regulations. Its performances are certified for capacity and efficiency at 35/46/48 CDB!

The excellent cooling performance is the outcome of the combination of the extremely efficient Daikin-patented inverter swing compressor with the optimal heat transfer from the heat exchanger using R-32 refrigerant.

Inverter technology helps to substantially reduce energy bill, while maintaining the highest level of comfort, with a reduced start-up time, and the ability of maintaining a stable temperature at all times. It makes the comfort delivered which makes the comfort delivered by the inverter unrivaled.

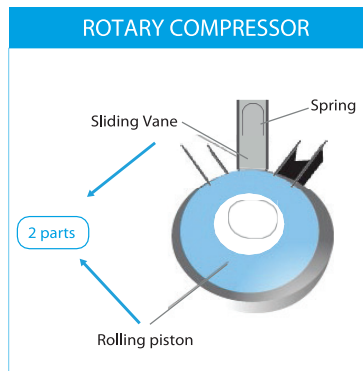
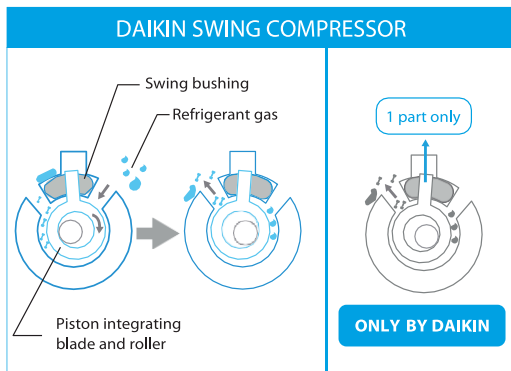
With Daikin inverter, you will experience **a new era of smart comfort.**

Main Features



Exclusive Daikin Inverter Swing Compressor

On small capacity units, most manufacturers use a standard rotary compressor but Daikin improved this technology system operates. The unique Daikin swing compressor prevents the leakage of gas refrigerant from the high pressure to the low pressure side, and effectively improves the compression efficiency. It will ensure less noise, less wear and tear, and above all, high energy efficiency.



Main benefits at a glance

- Less refrigerant leakage
- Less noise
- Less wear and tear for longer lifetime
- Higher efficiency

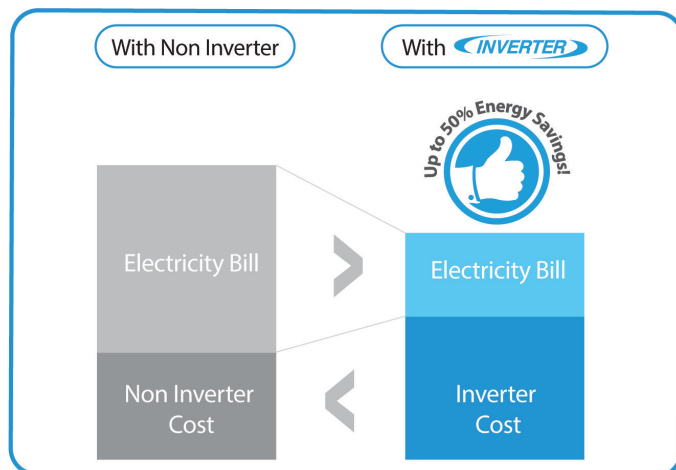
A real economical and sustainable solution

The inverter technology will lower the energy consumption of the air conditioner down to 50% compared with traditional systems. Using efficient systems will result in lower consumption; therefore, lower electricity bills!

ELECTRICITY USAGE



To make real savings, you always need to compare the total cost, including operation cost. Inverter will help you to save money!



Main Features



Greatest flexibility for control

Individual or centralized control is possible on the new Daikin FCA series using the latest advanced technologies.

Perfect control over your individual climate with the elegant and award-winning Madoka controller.

A minimalistic touch button controller with Bluetooth Low Energy (BLE) connectivity, Madoka features three navigational buttons and a clutter-free display. Comfort is guaranteed in the most intuitive way imaginable. Advanced functions are available through the Madoka Assistant application. The controller comes with two color options designed to match any interior design.

Three Color Options

Madoka Assistant



BRC1H81K(7) (Black)



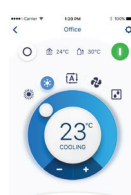
BRC1H81S(7) (Silver)



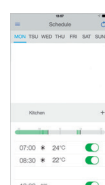
BRC1H81W(7) (White)



red dot design award



Easy setting of schedules



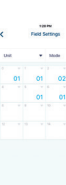
Advanced user settings



Installer settings



Field settings



Integration to Daikin centralized control systems

The new inverter range can be controlled with Daikin's centralized control system such as the i-Touch Manager, via option, allowing high flexibility in control.

Reliable Cooling



Standard Built-In Drain Pump

The unit has reinforced drainage protection thanks to the standard built-in drain pump wherein up to 1,125 mm of condensate water can be pumped.

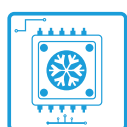


Reinforced Anti-Corrosion Protection

All the sensitive parts exposed to the environment are protected against corrosion:

- The condenser has a hydrophilic blue fin coating.
- The sensors of the electronic board (PCB) for both outdoor and indoor units have a special anti-corrosion coating.
- The outdoor bottom frame and stop valve mounting plate are powder-coated.

This will ensure a longer life span, even under corrosive environment, with cooling performance maintained optimal.



Refrigerant-Cooled PCB

Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature. This feature is available from 2.5TR and above.



BEST AVAILABLE TECHNOLOGY

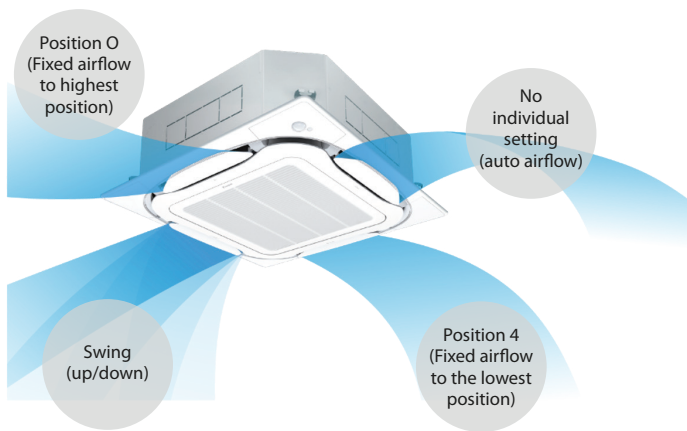
Indoor Unit



Roundflow cassette offers panel with and without sensing options

BYCQ125EAF9

BYCQ125EEF9 (with sensing)



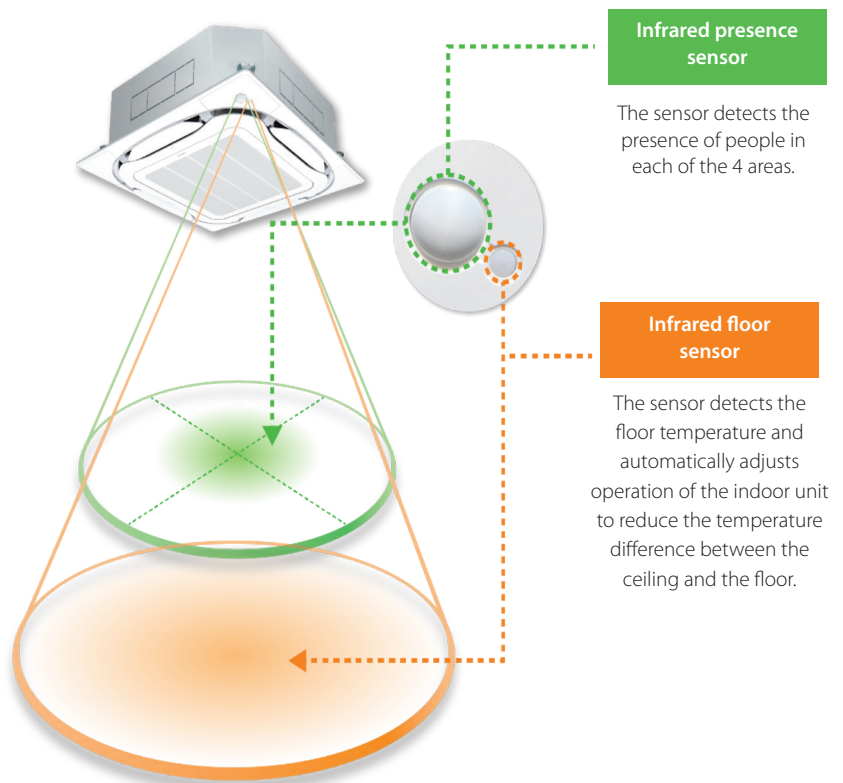
Comfortable air conditioning for all room layouts and conditions

Thanks to the individual airflow direction control function, airflow direction can be individually adjusted for each air discharge outlet. Five direction of air flow and auto-swing can be selected to deliver optimal air distribution.

Dual sensors

Dual sensors detects the presence of people and floor temperature to provide comfortable air-conditioning and Energy Saving.

1. Infrared Presence Sensor : This sensor detects human presence and adjusts the airflow direction automatically to prevent drafts. Energy saving control can be performed when no people are detected.
2. Infrared Floor Sensor : This sensor detects the floor temperature and automatically adjusts operation of the indoor unit to reduce the temperature difference between the ceiling and the floor.



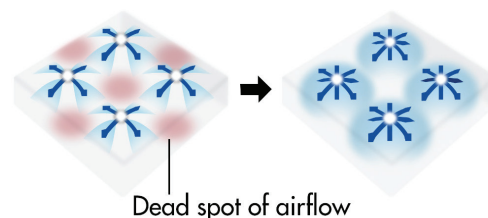


Main Features



360 Uniform Air Supply

360 airflow ensures uniform airflow and temperature distribution in all directions and offers a comfortable living environment. This will help to avoid creation of dead zones.



Auto-Restart

In case of sudden power failure during operation, this feature ensures that air conditioners installed in the same building will resume operation automatically. The operation will be based on the previous settings.

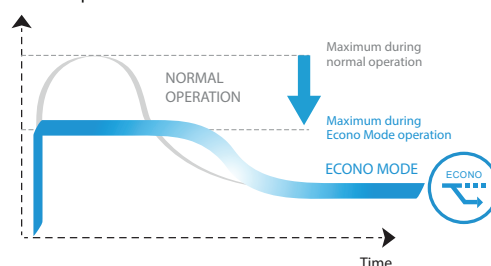


Self-Diagnosis Function

The machine auto-detects the errors and shows the related code on the remote controller screen. If an error occurs, you can easily self-diagnose it and report it to your Daikin authorized service provider for a quick resolution.

The Econo Mode allows a control of the peak consumption and current for a more reliable and efficient use.

Running current and power of consumption



R-32

R-32

Zero ODP for a reduced impact to the environment.

INVERTER

Inverter Technology

Inverter AC continuously adjusts the compressor speed, thus power input, to constantly meet the temperature requirements. So, energy is no longer wasted and considerable amount of money can be saved.

Auto-Restart

Auto-Restart

In case of sudden power failure, the unit will restart randomly with previous settings. This will help preventing power surge after blackout.

Tropical Compressor

Tropical Compressor

The tropical compressor is able to handle and operate fully under extreme weather conditions.



Drain Pump Kit

Facilitates condensation draining from the indoor unit.



Reinforced Anti Corrosion

All the sensitive parts such as condenser coil, PCB sensors, outdoor bottom frame or stop valve are protected against corrosion for a longer life span, even under corrosive environment, with cooling performance maintained optimal.



Silence

Daikin indoor units are whisper quiet. Outdoor units are also guaranteed not to disturb the quietness of the neighbourhood.



Powerful Cooling

Rapid cooling and powerful, even if outside temperature is very high

*GWP: Global Warming Potential

**ODP: Ozone Depletion Potential

INDOOR				FCA18AVMK	FCA24AVMK	FCA30AVMK	FCA36AVMK	FCA42AVMK	
OUTDOOR				RZCA18AVMK	RZCA24AVMK	RZCA30AVMK	RZCA36AVMK	RZA42AYMK	
SET	Technology			Inverter					
	Refrigerant			R-32					
	Power Supply	V/p/Hz		220-240V/1ph/50-60Hz					
	Cooling Capacity	T1(1)	Btu/h	18,000	24,000	30,000	36,000	42,000	
			kW	5.28	7.03	8.79	10.55	12.30	
		T3(2)	Btu/h	17100	22800	27000	30,800	35,600	
			kW	5.01	6.69	7.92	9.03	10.44	
		T4(3)	Btu/h	15300	19200	22500	25200	31500	
			kW	4.48	5.63	6.59	7.39	9.23	
	Heating Capacity	Nom	Btu/h	20700	27600	34500	41,400	48,300	
			kW	6.05	8.10	10.10	12.15	14.15	
	Efficiency (EER)	T1(1)	Btu/h/w	15.05	15.50	14.15	12.75	12.75	
		T3(2)	Btu/h/w	10.95	11.10	10.10	8.60	9.15	
T4(3)		Btu/h/w	9.56	10.00	9.49	8.66	8.95		
COP	Nom	Btu/h/w	4.6	4.7	4.20	2.90	3.20		
INDOOR	Airflow Rate (5 speed)		cfm	812/741/653/565/476	1218/1094/971/847/706		1288/1165/1024/882/741		
	Fan Speed		No	5					
	Sound Pressure Level		dB(A)	38/34.5/32/29.5/27.5	45/41.5/38/35/32.5		46/43/40/36/32.5		
	Dimensions	HxWxD	mm	256 x 840 x 840		298 x 840 x 840			
	Weight		kg	22	25				
	Panel	Model		BYCQ125EEF9 (Sensi Panel) / BYCQ125EAF9 (Basic Panel)					
		Color		Fresh White					
		Dimension	HxWxD	50 x 950 x 950					
Weight		kg	5.5						
OUTDOOR	Sound Pressure	H	dB(A)	49	51			53	
	Dimensions	HxWxD	mm	595 x 845 x 300		990 x 940 x 320		870 x 1100 x 460	
	Weight		kg	42.5	78			109	
	Compressor Type			Hermetically Sealed Swing Inverter Type					
	Pipe Connections	Liquid	mm	9.5					
			inch	3/8					
		Gas	mm	15.9					
			inch	5/8					
	Piping Lengths	Total	m	50					
		Elevation	m	30					
Operating Range ODU	Max (Cooling)	CDB	21~52						
	Max (Heating)	CDB	-15~24						

Temperature conditions:

(1) Outdoor: 35CDB - Indoor: 27CDB/19CWB

(2) Outdoor: 46CDB - Indoor: 29CDB/19CWB

(3) Outdoor: 48CDB - Indoor: 27CDB/19CWB



www.daikinmea.com

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