

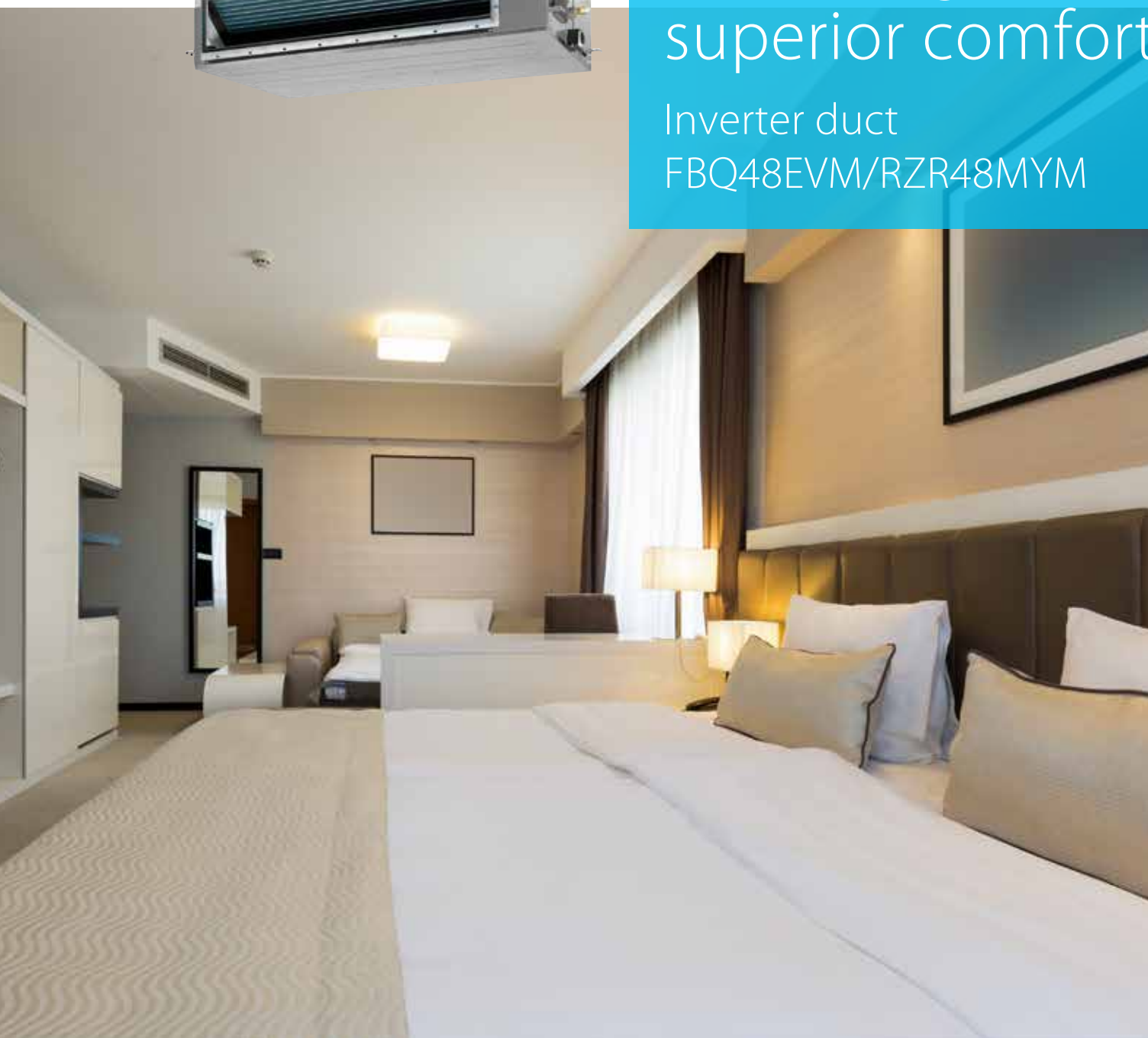


Innovative and Efficient Solutions for You



Advanced
technologies for
superior comfort

Inverter duct
FBQ48EVM/RZR48MYM



New Residential Range



R-410A

High Ambient

Daikin **INVERTER** Concealed Ceiling Units

An invisible improvement for any space to reduce energy use

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 performances, energy efficiency, and comfort in stylish solutions conforming to all interior spaces and lifestyles

At the forefront of energy efficiency, Daikin has designed a new inverter ducted split unit which allows owners to reduce their energy bill. Thanks to the advanced Daikin inverter technology on both compressor and indoor fan motor, exceptional energy efficiency is achieved all year round.

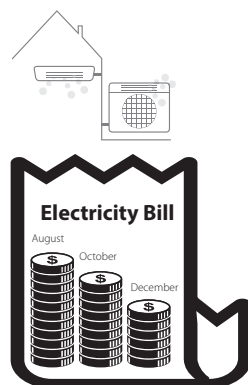
Think Smart, think Green
think Daikin Inverter!

Inverter technology helps substantially reduce energy bill, 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.

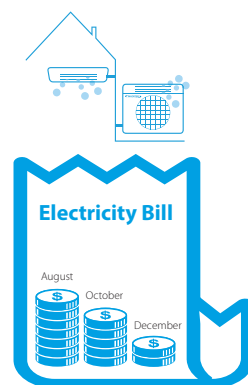
Benefits of INVERTER at a glance

- » Energy saving all the year round, for a lower electricity bill and lower carbon footprint
- » Powerful cooling
- » Quieter operation
- » Longer lifetime

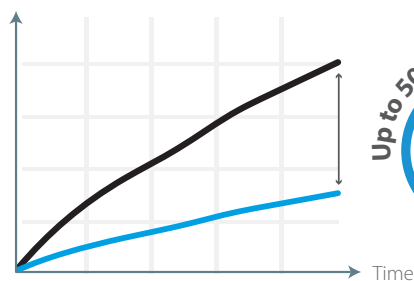
With Non Inverter



With **INVERTER**

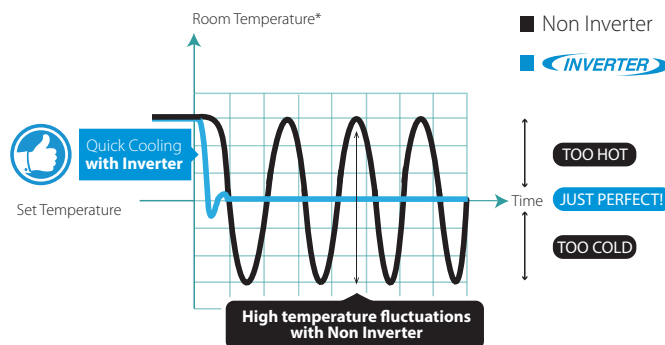


Accumulated energy consumption



Up to 50% Energy Savings!

With Daikin Inverter, produce what you need when you need and save on your electricity bill!



* Cooling mode

Main Features

Exceptional cooling performance, all year long

The units are designed to highly perform, even under high ambient conditions, with an EER reaching up to 12.1 Btu/hr/W. This is the result of the combination of high efficiency inverter scroll compressor, and optimal heat transfer. Thanks to the inverter technology, Daikin units offer excellent seasonal efficiency, in line with real life operating conditions, to reduce effectively the energy consumption and bill while keeping comfort optimal.



R-410A refrigerant

Zero ozone depletion potential for a reduced impact on the environment.

Greatest flexibility for installation

- » Wide range of available static pressures, 50 to 200 Pa, in a compact design casing allows high flexibility in design, such as long ducting or multi-zones applications.
- » Extended piping lengths allow high flexibility in design by covering long piping runs applications; up to 30 meters height difference!
- » Bottom & rear suction allow installation both at low depth and low height ceiling voids.
- » Compact yet powerful casing: unit height is only 300mm and can be installed in any location

Unique Auto Airflow Adjustment

This unique Daikin feature simplifies the commissioning as the fan curve will adjust automatically to suit the duct design; balancing of dampers is no more required!*



This function will compare the actual duct resistance to the calculated resistance at time of design, check the actual airflow and then set a point close to the rated airflow (+/- 10%).

* Please follow the instructions in the installation and operation manual.

Whisper quiet operation

The Daikin indoor units are designed to operate quietly, with a noise level down to 36 dB(A)!

High indoor air quality

Optional Hi-efficiency and Long-life filters are available to allow high indoor air quality applications.

Standard anticorrosion protection

Daikin outdoors are protected against corrosion. This protection will ensure a longer lifetime with optimal cooling performance, compared to other non protected equipment.

Integration to Daikin centralized control systems

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

Easy Installation

Daikin outdoor units allow flexible installation. They can easily be mounted on a roof, thanks to the long piping runs, or simply placed against an outside wall.

Daikin FBQ duct makes installation shorter and easier



Design

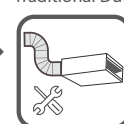


Installation



Run test

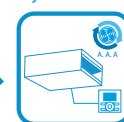
Traditional Duct



FIELD ADJUSTMENTS:
» Duct reconstruction
» Changing motor
» Damper adjustment

Manual correction to try reaching design airflow

Automatic Airflow Adjustment Duct



NO FIELD ADJUSTMENTS:
» Air flow rate automatic adjustment through service setting with remote controller on site

Technical Specifications

Indoor Unit				FBQ48EVM
Outdoor Unit				RZR48MYM
indoor	Cooling Capacity	Minimum	Btu/h	21,200
		Nominal	Btu/h	38,000 (1) / 32,000 (2) / 29,000 (3)
	Power Input	Nominal	kW	3.15 (1) / 3.50 (2) / 3.70 (3)
	EER		Btu/h/W	12.1 (1) / 9.14 (2) / 7.84 (3)
	Air Flow	High	CFM	1377
		Low	CFM	989
	ESP	Standard	Pa	50
		Maximum	Pa	200
	Sound Pressure Level	High	dB(A)	40
		Low	dB(A)	36
Outdoor	Dimensions	Height x Width x Depth	mm	300 x 1,400 x 700
	Weight		kg	46
	Sound Pressure Level	Cooling	dB(A)	50
	Dimensions	Height x Width x Depth	mm	1,170 x 900 x 700
	Weight		Kg	101
	Pipe Connection	Liquid (Flare)	mm	9.52
			in	3/8
		Gas (Flare)	mm	15.9
			in	5/8
	Compressor	Type		Hermetically sealed scroll type
	Piping Lengths	Total	m	70
		Height difference	m	30
	Operating Range	Ambient	°C DB	-5~52
	Power Supply	Voltage / Frequency / Ph		380-415 / 50 / 3
	Min. Circuits Amps.		A	14.9
	Max. Fuse Amps.		A	16

(*1): Cooling capacity: Indoor 27°C DB / 19°C WB; Outdoor 35°C DB, 24°C WB; equivalent piping length: 7.5m (horizontal)

(*2): Cooling capacity: Indoor 29°C DB / 19°C WB; Outdoor 46°C DB, ; equivalent piping length: 7.5m (horizontal)

(*3): Heating capacity: T2: Indoor 26.6°C DB, 19.4°C DB; Outdoor 48°C DB



Energy Saving

Higher energy efficiency all year round with inverter technology, for a lower electricity bill and lower carbon footprint: up to 50% energy savings!



R-410A

Zero ozone depletion potential for a reduced impact on the environment.



Powerful Cooling

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



Automatic Airflow Adjustment

This unique Daikin function selects the most appropriate fan curve to achieve the best comfort. Compared to traditional duct, it will make the installation shorter and easier as balancing of dampers is required.*



Silence

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



Indoor air quality

Standard air filter removes airborne, dust particles to ensure a steady supply of clean air.



Tropical Compressor

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

* Please follow the instructions in the installation and operation manual.

DAIKIN MIDDLE EAST AND AFRICA FZE

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