



AIR CONDITIONERS, HEATING & COOLING

for small rooms IN MULTI APPLICATION

CONCEALED CEILING UNIT

air to air heat pumps



www.daikin.eu



FDBQ-B



HOSPITALITY STARTS WITH A STABLE AND DRAUGHT-FREE INDOOR CLIMATE

Spend the night in a stuffy hotel room? Or dine in a draughty restaurant? Today, air conditioning is an indispensable part of hospitality you want to offer your customers. With an air conditioner, you ensure a comfortable indoor climate the whole year through, without draughts and noise, where your guests and your staff feel comfortable.

The newest generation of inverter air conditioners by Daikin combines low energy use with advanced technology. This generation is also synonymous with exceptional energy-saving, highly simplified assembly and a complete control system. Whisper-quiet advanced technology Daikin is famous for.

SPACE-SAVING DESIGN

- » **Ideal for use in hotel rooms**
- » **Can be mounted in the ceiling simply and discretely**
- » **Extremely low-noise operation**

Built-in satellite units are perfect for smaller rooms like hotel rooms. The units are mounted in the space between the ceiling and the lowered ceiling, leaving only the intake and grills showing. Since these grills can be placed everywhere, they fit perfectly in any interior style. The built-in satellite units are the quietest air conditioners on the market.

Height	230 mm
Width	652 mm
Depth	502 mm



Indoor unit
FDBQ-B

Height	735 mm
Width	936 mm
Depth	300 mm



Outdoor unit
3MXS68G

DURABILITY AND EFFICIENCY IN ONE COMPACT UNIT

- » **Whisper quiet**
The indoor unit is **very quiet in operation**. The sound levels are as low as 28dB(A), comparable to rustling leaves.
- > **Air filter**
A built-in filter permanently **clears the air** of microscopically small dust particles.

FLEXIBLE INSTALLATION, EASY CONTROL

- » Since the indoor unit is low in height it fits flush into **narrow ceiling voids**. The air duct between the indoor unit and the discharge grille can be up to 0.5m.
- > The **outdoor unit** can be installed on the roof, terrace or against an outside wall.

SUPER-HANDY REMOTE CONTROL

- > With the **infrared remote control** (optional) the simple operation of your Daikin air conditioner is always at your fingertips.
- > The **wired remote control** (optional) provides you with a schedule timer, enabling the air conditioning to be programmed daily or weekly.
- » For hotels specifically, the indoor unit can be turned on and off by reception when a hotel guest checks in or out. The unit can also be switched off via remote control if a window is opened or if the guest leaves the room. It can be switched back on remotely as well.



Wired remote control
(Optional)

ENERGY EFFICIENT

> **A** Energy label: Up to class A

> Inverter technology

The inverter technology, developed by Daikin is a true innovation in the area of climate control. The principle is simple: inverters adjust the power used to suit the actual requirement. No more, no less. This technology provides you with two concrete benefits:

1. Comfort

The inverter repays its investment many times over by improving comfort. An air conditioning system with an inverter continuously adjusts its cooling and heating output to suit the temperature in the room.

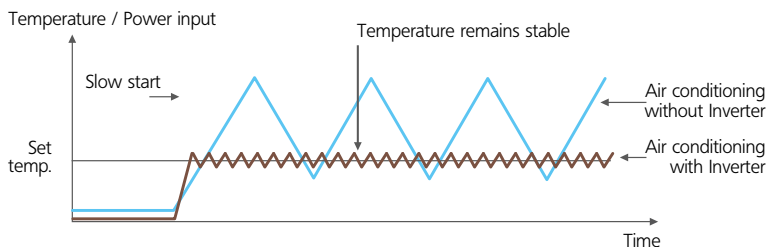
The inverter shortens system start-up time enabling the required room temperature to be reached more quickly.

As soon as that temperature is reached, the inverter ensures that it is constantly maintained.

2. Energy efficient

Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption drops by 30% compared to a traditional on/off system!

Heating operation:



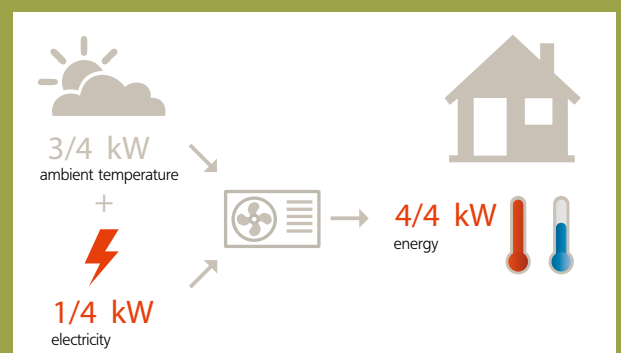
> Home leave operation

In case of extended absence, this function helps to save energy. If there is no one in the area for an extended period, e.g. during holidays or closing days, this function automatically sets the room temperature to a minimum of 10°C. At this point, all connected indoor units will switch over to heating mode. The function will be deactivated as soon as the room temperature reaches 15°C, and it will also have to be switched off when the room is in use again.

DID YOU KNOW *that ...*



Air to air heat pumps use 3/4th of energy from renewable sources: the ambient air. This energy source is renewable and inexhaustible*. Of course, heat pumps also use 1/4th of electricity to transform the ambient air into comfort heat, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass). * EU objective COM (2008)/30





APPLICATION OPTIONS

- > Depending on your air conditioning need, you can have your unit either **heat or cool (heat pump)**.
- > It is possible to use a **multi split** with the indoor unit. Up to nine indoor units in different rooms can be connected to one outdoor unit and each can be operated separately.

POSSIBLE COMBINATIONS MULTI - HEATING & COOLING		3MXS52E* (2)	3MXS68G* (1)	4MXS68F* (3)	4MXS80E* (4)	5MXS90E* (4)	RMXS112EV*	RMXS140EV*	RMXS160EV*
Max. n° of indoor units		3	3	4	4	5	6	8	9
Heating & cooling		FDBQ25B	•	•	•	•	•	•	•
Max. cooling capacity		kW	7.30	8.42	8.73	9.60	10.50	11.2	14.0
Max. heating capacity		kW	8.30	10.63	10.68	11.00	11.50	12.5	16.0
Max. PI cooling		kW	2.25	3.33	2.95	3.56	4.01	3.50	5.09
Max. PI heating		kW	2.51	3.30	2.58	3.11	3.46	3.93	5.43

1. For more detailed information, please consult our multi model/combination tables catalogue or your local dealer

2. (1) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted G (20,25,35,42,50 class) / F (60 class) series

(2) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (20,25,35 class) / E (50 class) series

(3) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (20,25,35,50 class) / F (60,71 class) series

(4) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (20,25,35,50 class) / E (60,71 class) series

* At least two indoor units should be connected to these multi outdoor units

SPECIFICATIONS INDOOR UNITS

HEATING & COOLING				FDBQ25B
Dimensions		HxWxD	mm	230x652x502
Weight			kg	17
Air flow rate	cooling	H/L	m ³ /min	6.5/5.2
	heating	H/L	m ³ /min	6.95/5.2
Fan speed				2 steps (direct drive)
Sound pressure level	cooling	H/L	dB(A)	35/28
	heating	H/L	dB(A)	35/29
Sound power level	cooling	H/L	dB(A)	55/49
	heating	H/L	dB(A)	55/49
Piping connections		liquid	mm	ø6.35
		gas	mm	ø9.52
		drain	ID mm	ø21.6
			OD mm	ø27.2



SPECIFICATIONS OUTDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED				3MXS52E (1)	3MXS68G (1)	4MXS68F (1)	4MXS80E (1)	5MXS90E (1)	RMXS112EV (1)	RMXS140EV (1)	RMXS160EV (1)	
Dimensions		HxBxD	mm	735x936x300			770x900x320			1,345x900x320		
Weight				49	58	58	72	73	120			
Casing colour				Ivory white			Ivory white			Daikin white		
Sound pressure level	cooling	H	dB(A)	46	48	48	48	52	51	52	54	
	heating	H	dB(A)	47	49	49	49	52	53	54	55	
Sound power level	cooling	H	dB(A)	59	61	61	62	66	67	68	70	
Compressor				Herm. sealed swing			Hermetically sealed swing			Hermetically sealed scroll		
Refrigerant type				R-410A			R-410A			R-410A		
Amount of additional charge		kg/m		0.02 (30m or more)			0.02 (for piping length exceeding 30m)			chargeless		
Maximum piping length	for total of each room		m	50	60	60	70	75	115 (total system) 135 (total system) 145 (total system)			
	for one room		m	25	25	25			55 (total outdoor unit - branch provider)			
Maximum level difference	between ind. and outd. unit		m	15			15			30		
	between indoor units		m	7.5			7.5			30 (outdoor - branch provider)		
Operation range	cooling	from ~ to	°CDB	-10~46			-10~46			-5~46		
	heating	from ~ to	°CWB	-15~15.5			-15~15.5			-15~20		

(1) At least 2 indoor units should be connected to a Multi outdoor unit.

ACCESSORIES: INDOOR UNITS

INDOOR UNITS	FDBQ25B
Wired remote control	BRC1D52
Adapter for wiring (hour meter)*	EKRP1B2
Remote ON/OFF, forced OFF	EKRORO

* Possibility to connect an hour meter (field supply). This part should not be installed inside the equipment.

ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS	3MXS/4MXS/5MXS	RMXS
Air direction adjustment grille	KPW945AA4	-
Drain plug	KKP937A4	KKPJF180
Refnet joint	-	KHRQ22M20TA
Branch provider (2 rooms)	-	BPMKS9672B
Branch provider (3 rooms)	-	BPMKS9673B

- Notes:
- 1) V1 = 1~, 230V/50Hz; VM = 1~, 220-240V/220-230V, 50Hz/60Hz
 - 2) Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB • outdoor temperature 35°CDB • refrigerant piping length 7.5m • level difference 0m.
 - 3) Nominal heating capacities are based on: indoor temperature 20°CDB • outdoor temperature 7°CDB/6°CWB • refrigerant piping length 7.5m • level difference 0m.
 - 4) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
 - 5) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.
 - 6) The sound pressure level is measured at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment.
 - 7) The sound power level is an absolute value indicating the "power" which a sound source generates.



**In all of us,
a green heart**



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.

For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Multi units are Eurovent certified for combinations up to 2 indoor units.

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DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BTW: BE 0412 120 336
RPR Oostende



Daikin products are distributed by:

