



AIR CONDITIONERS, HEATING & COOLING

*for the retail market,
hotels, restaurants and offices*

INVERTER DRIVEN CONCEALED CEILING UNIT

air to air heat pumps



www.daikin.eu




FBQ-C



INTELLIGENT UNIT, NEATLY CONCEALED IN THE CEILING

- » Reduction in power consumption thanks to DC inverter fans
- » Improved comfort thanks to 3 step air flow control
- » Blends unobtrusively with any interior décor

ENERGY EFFICIENT

- »  **Energy label:** up to class A

The **inverter technology**, developed by Daikin, is a true innovation in the area of climate control. Not only the outdoor unit, but also the indoor FBQ-C is equipped with the inverter technology.

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! Moreover, as the FBQ-C indoor unit is equipped with DC inverter fans, an additional decrease in energy consumption of 11% for cooling and 7% for heating* is realised.

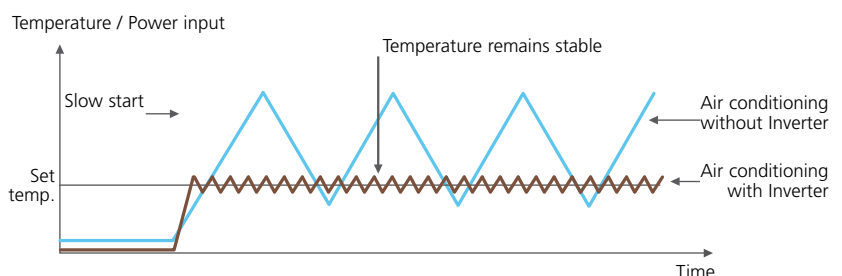
* Average EER/COP of FBQ-C – RXS-G/F, RZQ(S)-D compared with average EER/COP of FBQ-B - RXS-G/F, RZQ(S)-C

COOL IN SUMMER, COSY IN WINTER, AND ALWAYS FRESH AIR

Today, air conditioning unmistakably forms part of the hospitality package that you want to offer your customers. A healthy indoor climate at a pleasant temperature and air humidity, with neither draught nor noise, is just as important as good staff or an attractive range of products.

With Daikin air conditioning, you provide a climate in which your employees and customers feel good, every day of the year. You can rest assured that everyone will heave a sigh of relief when you have an air conditioner installed. A Daikin concealed system that cools, heats, dehumidifies, circulates, ventilates and filters dust, a system which excels in ease of operation and reliability. It was developed with a flair for design and an eye for detail. Whisper quiet, state-of-the-art technology in which Daikin is the leader both on the retail market and in the business world.

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.

INVISIBLE AND FUNCTIONAL

- › The concealed ceiling units belong to the **most aesthetically-pleasing and quietest systems for your climate comfort**. The slim FBQ model is **installed in the ceiling**, leaving only the suction and discharge grilles visible.
- › These grilles provide optimum circulation of the conditioned air - **without creating a draught** - and even temperature distribution in large or subdivided areas.
- » The limited dimensions enable our concealed ceiling units to blend in beautifully with any interior décor. They are ideal solutions for locations where there is a need for unobtrusive cooling or heating, such as in restaurants, shops, showrooms, museums, offices, sports centres, educational facilities...
- › The indoor unit is suited to **single-split applications** (one indoor unit to one outdoor unit), **twin, triple or double twin-split applications** (a maximum of four indoor units in the same room to one outdoor unit) and **multi-split application** (a maximum of nine indoor units in different rooms to one outdoor unit).
- › Depending on your air conditioning need, you can choose between **heating and cooling (heat pump)**.



3/4 kW
ambient temperature

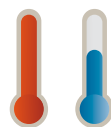
+



1/4 kW
electricity



4/4 kW
energy



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).

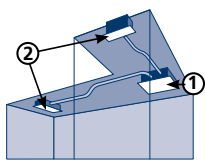
* EU objective COM (2008)/30

COMFORTABLE AIR FLOW: QUIET AND RELIABLE

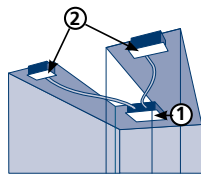
- » The FBQ concealed ceiling unit provides pleasant and comfortable air flow, thanks to 3 steps air flow control.
- > Moreover, a built-in **filter** permanently clears the air of microscopically small dust particles.
- > To enjoy greater comfort, there are various settings from which you can choose that can be simply selected with the **remote control**. You can, for example, choose between **two fan speeds**: high or low. The high fan speed makes it possible to cover a very wide angle and the low fan speed keeps air movement down to a minimum.
- > Another unique benefit is that the indoor unit works almost **silently**: only 29 dB(A), which corresponds to rustling leaves.

STRAIGHTFORWARD INSTALLATION MEANS LOW COSTS

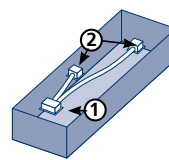
- > The FBQ concealed ceiling unit can easily be installed flush into shallow, **lowered ceilings**. If a suction panel is fitted, you will only require a concealing space of 350 mm.
- > The air discharge grilles can be installed separately from the indoor unit for use in long and "L" or "U" shaped rooms. A flexible duct system connects the grilles to the indoor unit and guarantees a pleasant climate, even in **irregularly shaped areas**.



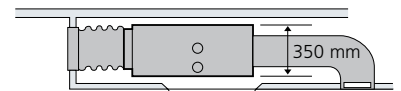
L-shaped room



U-shaped room



Long room



Suction panel

- ① suction grille
- ② discharge grille (field supply) of the flexible ducts

- > The **outdoor unit** can be installed on the roof, terrace or against an outside wall.
- > The indoor unit is easy to control with the **wired remote control**, which has a programmable timer, enabling you to programme the system per day or per week.
- > With the optional **ON/OFF function**, the air conditioner can be switched on and off remotely with a mobile phone. With this function you can also make the unit switch off automatically, e.g. when someone opens a window.

Wired remote control (Optional)



CAPACITY AND POWER INPUT

HEATING & COOLING - INVERTER CONTROLLED				FBQ35C	FBQ50C	FBQ60C
				RXS35G	RXS50G	RXS60F
Cooling capacity		nominal	kW	3.4	5.0	5.7
Heating capacity		nominal	kW	4.0	5.50	7.0
Nominal input	cooling	nominal	kW	1.06	1.65	1.75
	heating	nominal	kW	1.14	1.61	2.05
EER				3.21	3.03	3.26
COP				3.51	3.42	3.41
Energy label	cooling			A	B	A
	heating			B	B	B
Annual energy consumption	cooling		kWh	530	825	875

HEATING & COOLING - INVERTER CONTROLLED				FBQ71C	FBQ100C	FBQ125C	FBQ140C
				RZQS71DV1	RZQS100DV1	RZQS125DV1	RZQS140DV1
Cooling capacity		nominal	kW	7.1	10.0	12.5	14.0
Heating capacity		nominal	kW	8.0	11.2	14.0	16.0
Nominal input	cooling	nominal	kW	2.18	3.03	3.98	4.77
	heating	nominal	kW	2.25	3.07	4.11	4.67
EER				3.26	3.30	3.14	2.81
COP				3.55	3.65	3.41	3.21
Energy label	cooling			A	A	B	C
	heating			B	A	B	C
Annual energy consumption	cooling		kWh	1,089	1,515	1,990	2,384

HEATING & COOLING - INVERTER CONTROLLED				FBQ71C	FBQ100C	FBQ125C	FBQ140C
				RZQ71DV1/BW1	RZQ100DV1/BW1	RZQ125DV1/BW1	RZQ140DV1/BW1
Cooling capacity		nominal	kW	7.1	10.0	12.5	14.0
Heating capacity		nominal	kW	8.0	11.2	14.0	16.0
Nominal input	cooling	nominal	kW	2.09	2.70 / 2.78	3.59 / 3.91	4.45 / 4.70
	heating	nominal	kW	2.08	2.69 / 2.79	3.87 / 3.69	4.40
EER				3.39	3.70 / 3.60	3.48 / 3.20	3.01 / 2.98
COP				3.85	4.16 / 4.01	3.62 / 3.79	3.41 / 3.64
Energy label	cooling			A	A	A / B	B / C
	heating			A	A	A	B / A
Annual energy consumption	cooling		kWh	1,047	1,351 / 1,390	1,796 / 1,955	2,226 / 2,350

Notes:

- 1) Energy label: scale from A (most efficient) to G (less efficient).
- 2) Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions).

POSSIBLE COMBINATIONS MULTI - HEAT PUMP		3MXS52E* (2)	3MXS68G* (1)	4MXS68F* (3)	4MXS80E* (4)	5MXS90E* (4)	RMXS 112EV*	RMXS 140EV*	RMXS 160EV*
Max n° of indoor units		3	3	4	4	5	6	8	9
Heat pump	FBQ35C	.	.	.	.	.	.	.	.
	FBQ50C	.	.	.	.	.	.	.	.
	FBQ60C	.	.	.	.	.	.	.	.
Max. cooling capacity	kW	7,30	8,42	8,73	9,60	10,50	11,2	14,0	15,5
Max. heating capacity	kW	8,30	10,63	10,68	11,00	11,50	12,5	16,0	17,5
Max. PI cooling	kW	2,25	3,33	2,95	3,56	4,01	3,50	5,09	5,40
Max. PI heating	kW	2,51	3,30	2,58	3,11	3,46	3,93	5,21	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

TWIN / TRIPLE / DOUBLE TWIN APPLICATION	FBQ35C	FBQ50C	FBQ60C	FBQ71C	FBQ100C	FBQ125C
RZQ(s)71	2					
RZQ(s)100	3	2				
RZQ(s)125	4	3	2			
RZQ(s)140	4	3		2		
RZQ200		4	3	3	2	
RZQ250			4			2



SPECIFICATIONS INDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED			FBQ35C	FBQ50C	FBQ60C	FBQ71C	FBQ100C	FBQ125C	FBQ140C
Dimensions (HxWxD)	unit	mm	300x700x700		300x1,000x700		300x1,400x700		
Weight	unit	kg	25		34		45		
Air flow rate (Max/Min)	cooling	m ³ /min	16/11	16/11	18/15	18/15	32/23	39/28	39/28
	heating	m ³ /min	16/11	16/11	18/15	18/15	32/23	39/28	41/29
Sound pressure level (Max/Min)	cooling	db(A)	37/29	37/29	37/29	37/29	38/32	40/33	40/33
	heating	db(A)	37/29	37/29	37/29	37/29	38/32	40/33	41/34
Sound power level	cooling	db(A)	63	63	57	57	61	66	66
Piping connections	liquid	mm	ø6.35			ø9.52			
	gas	VE	ø9.52	ø12.70			ø15.9		
	drain	ID mm	ø25			ø32			
Heat insulation			Both liquid and gas pipes						
DECORATION PANEL			BYBS45DJW1		BYBS71DJW1		BYBS125DJW1		
Dimensions (HxWxD)		mm	55x800x500		55x1,100x500		55x1,500x500		
Weight		kg	3.5		4.5		6.5		
Colour			White (10Y9/0.5)						

SPECIFICATIONS OUTDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED				RXS35G	RXS50G	RXS60F
Dimensions	HxWxD	mm	550x765x285	735x825x300		
Weight		kg	34	48	48	
Casing colour			Ivory white			
Sound pressure level (night quiet mode)	cooling	H/L	dB(A)	48/44	48/44	49/46
	heating	H/L	dB(A)	48/45	48/45	49/46
Sound power level	cooling	H	dB(A)	63	61	63
Compressor		type	Hermetically sealed swing			
Refrigerant type			R-410A		R-410A	
Refrigerant charge		kg/m	0.02 (for piping length >10m)			
Maximum piping length		m	20	30	30	
Maximum level difference		m	15	20	20	
Operation range	cooling	from ~ to	°CDB	-10~46		-10~46
	heating	from ~ to	°CWB	-15~20		-15~18

HEATING & COOLING - INVERTER CONTROLLED				RZQ571DV1	RZQ100DV1	RZQ5125DV1	RZQ5140DV1
Dimensions	HxWxD	mm	770x900x320	1,170x900x320			
Weight		kg	68	103			
Casing colour			Ivory white				
Sound pressure level (night quiet mode)	cooling	H	db(A)	49 (47)	51 (49)		52 (50)
	heating	H	db(A)	51	55	53	54
Sound power level	cooling	H	db(A)	65	67		68
Compressor		type	Hermetically sealed swing	Hermetically sealed scroll			
Refrigerant type			R-410A				
Refrigerant charge		kg/m	2.75	3.7			
Max. piping length		m	30 (equivalent length 40)	50 (equivalent length 70)			
Max. level difference		m	15	30			
Operation range	cooling	from ~ to	°CDB	-5~46			
	heating	from ~ to	°CDB	-15~15.5			

Height	1,170 mm
Width	900 mm
Depth	320 mm



Outdoor unit RZQ-DV1

Height	300 mm
Width	700 mm
Depth	700 mm



indoor unit FBQ-C

HEATING & COOLING - INVERTER CONTROLLED				RZQ71DV1	RZQ100DV1	RZQ100BW1	RZQ125DV1	RZQ125BW1	RZQ140DV1	RZQ140BW1
Dimensions	HxWxD	mm		770x900x320	1,345x900x320	1,345x900x320	1,345x900x340	1,345x900x320	1,345x900x340	1,345x900x320
Weight		kg		67	109	106	109	106	109	106
Casing colour				Ivory white						
Sound pressure level (night quiet mode)	cooling	H	db(A)	48 (43)	50 (45)	49 (45)	51 (45)	50 (45)	51 (46)	50 (45)
	heating	H	db(A)	50	52	51	53	52	53	52
Sound power level	cooling	H	db(A)	64	65	65	67	66	68	66
Compressor		type		Hermetically sealed swing			Hermetically sealed scroll			
Refrigerant type				R-410A						
Refrigerant charge		kg/m		2.75	3.95	4.3	3.95	4.3	3.95	4.3
Max. piping length		m		50 (equivalent length 70)			75 (equivalent length 95)			
Max. level difference		m		30						
Operation range	cooling	from ~ to	°CDB	-15~50						
	heating	from ~ to	°CWB	-20~15.5						

CONTROL SYSTEMS : INDOOR UNITS

INDOOR UNITS	FBQ35C	FBQ50C	FBQ60C	FBQ71C	FBQ100C	FBQ125C	FBQ140C
Wired remote control				BRC1D528			
Centralised remote control				DCS302CA51			
Unified ON/OFF control				DCS301BA51			
Schedule timer				DST301BA51			
Adapter for wiring (2)				KRP1BA54			
Adapter for external ON / Off and monitoring (2)				KRP4A51			
Interface adapter for Sky Air				DTA112BA51			
Remote ON / OFF, forced OFF				EKROR03			
Options PCB for external electrical heater, humidifier and/or hour meter (1)(2)				EKRP1B2A			
Mounting plate for adapter PCB				KRP4A96			

(1) Electrical heater, humidifier and hour meter are field supply. These parts should not be installed inside the equipment.
(2) Mounting plate KRP4A96 is required for these options. Maximum 2 option PCBs can be mounted.

ACCESSORIES: INDOOR UNITS

INDOOR UNITS	FBQ35C	FBQ50C	FBQ60C	FBQ71C	FBQ100C	FBQ125C	FBQ140C
Decoration panel	BYBS45D		BYBS71D		BYBS125D		
Air discharge adapter for round duct	KDAJ25K56A		KDAJ25K71A		KDAJ25K140A		

ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS	RXS35G	RXS50G	RXS60F	
Air direction adjustment grille	KPW937AA4	KPW945AA4		
Central drain plug	KKP937A4	-	-	
OUTDOOR UNITS	RZQ(S)71C	RZQ(S)100B/C	RZQ(S)125B/C	RZQ(S)140B/C
Central drain plug		EKDK04		
Refrigerant branch piping	for twin		KHRQ22M20TA8	
	for triple	-	KHRQ127H8	
	for double twin	-	-	KHRQ22M20TA8 (3x)
Demand adapter kit		KRP58M51		

Notes:

- V1 = 1~, 230V, 50Hz; VM = 1~, 220-240V/220-230V, 50Hz/60Hz; V3 = 1~, 230V, 50Hz
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB • outdoor temperature 35°CDB • refrigerant piping length 7.5m • level difference 0m.
- Nominal heating capacities are based on: indoor temperature 20°CDB • outdoor temperature 7°CDB/6°CWB • refrigerant piping length 7.5m • level difference 0m.
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- Units should be selected on nominal capacity. Max. capacity is limited to peak periods.
- 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.
- 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.



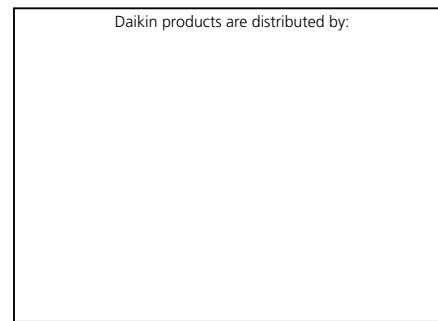
Daikin units comply with the European regulations that guarantee the safety of the product.



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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