DAIKIN

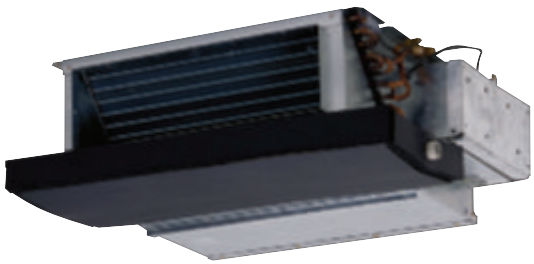
AIR CONDITIONING

Daikin air conditioners for small rooms in multi application

CONCEALED CEILING UNIT

www.daikineurope.com

FDBQ-B7



OPTIMISED DESIGN R-410A

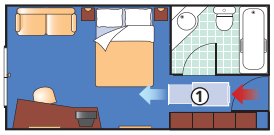
Concealed ceiling units are ideal for use in small rooms such as hotel bedrooms. They are built into the false ceiling, leaving only the suction and discharge grilles visible. The grilles can be placed wherever you want and blend with any interior décor. Not only are concealed ceiling units visually unobtrusive, they are also among the quietest types of air conditioning.

COMFORT

- You have the choice of 2 **fan speeds** to select: high or low. A high fan speed provides maximum reach while a low fan speed minimizes draughts.
- The indoor unit is very **quiet in operation**. The sound levels are as low as 29dB (A), comparable to rustling leaves.
- The indoor unit contains an air **filter** which removes microscopic particles and dust.

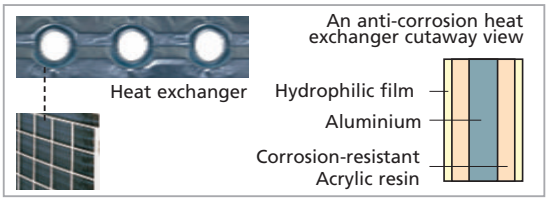
FLEXIBLE INSTALLATION AND EASY TO MAINTAIN

- 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



① Can be 0.5 m long

- The **outdoor unit** can be installed on a roof or terrace or placed against an outside wall.
- Special **anti-corrosion treatment** of the outdoor unit's heat exchanger fin, gives greater resistance against acid rain and salt corrosion. Additional resistance is provided by a rust proof steel sheet on the underside of the unit.



- Daikin **remote controls** give you easy control at your fingertips.
- The **wired remote control** provides you with a schedule timer, enabling to program the air conditioning daily or weekly.
- For **hotel applications** the indoor unit can be switched off at reception when a guest checks out and restarted when one checks in. It can also be operated by remote control to switch off if a window is opened and restart on its closure and similarly, to switch off when a guest leaves the room and restart when one enters.

Capacity and power input

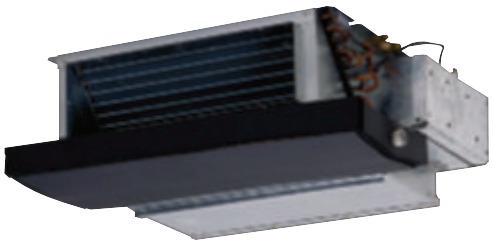
MULTI - COOLING ONLY	Max. n° of indoor units	Max. cooling capacities (kW)	Max. PI cooling (kW)		
4MKS58D	4	6.60	2.47		
4MKS75D	4	9.27	3.71		
4MKS90D	4	9.86	3.52		
MULTI - HEAT PUMP	**Max. n° of indoor units**	**Max. cooling capacities (kW)**	**Max. PI cooling (kW)**	**Max. heating capacities (kW)**	**Max. PI heating (kW)**
2MXS52D*	2	6.50	2.69	7.34	2.42
3MXS52D*	3	6.50	2.69	7.34	2.42
4MXS68D*	4	8.68	3.69	10.64	3.41
4MXS80D*	4	9.49	3.34	11.00	3.52
SUPER MULTI PLUS - HEAT PUMP	**Max. n° of indoor units**	**Max. cooling capacities (kW)**	**Max. PI cooling (kW)**	**Max. heating capacities (kW)**	**Max. PI heating (kW)**
RMXS112D*	7	11.2	3.57	12.5	4.01
RMXS140D*	8	14.0	5.23	16.0	5.31
RMXS160D*	9	15.5	5.55	17.5	5.56

Notes: - For more detailed information about specifications, capacities, power input, energy labelling and annual energy consumption, please refer to our Multi Model catalogue or check with your local dealer.
* At least 2 indoor units should be connected to a Multi outdoor unit.

Specifications indoor units

COOLING ONLY/HEAT PUMP				FDBQ25B7V1
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
Heat insulation				Both liquid and gas pipes

Indoor unit : FDBQ-B7



FDBQ25B7V1

Specifications outdoor units

COOLING ONLY				4MKS58D2VMB	4MKS75D2VMB	4MKS90DVMB
Dimensions		HxWxD	mm	735x936x300		908x900x320
Weight			kg	55	58	66
Casing colour				ivory white		
Sound pressure level		H	dB(A)	46	48	48
Sound power level		H	dB(A)	59	61	61
Compressor				hermetically sealed swing		
Refrigerant type				R-410A		
Amount of additinal charge			kg/m	chargeless		
Maximum piping length	for total of each room		m	45	60	70
	for one room		m	25		
Maximum level difference	between ind. and outd. unit		m	15		
	between indoor units		m	7.5		
Operation range	cooling	from ~ to	°CDB	-10~46		

HEAT PUMP				3MXS52D2VMB	4MXS68D2VMB	4MXS80DVMB	RMXS112D7V3B	RMXS140D7V3B	RMXS160D7V3B
Dimensions		HxWxD	mm	735x936x300		908x900x320	1,345x900x320		
Weight			kg	55	59	73	127		
Casing colour				ivory white			Ivory white		
Sound pressure level	cooling	H	dB(A)	46	48	48	51	52	54
	heating	H	dB(A)	47	49	49	53	54	56
Sound power level	cooling	H	dB(A)	59	61	61	67	68	70
	heating	H	dB(A)	60	62	62	-	-	-
Compressor				hermetically sealed swing			Hermetically sealed scroll		
Refrigerant type				R-410A			R-410A		
Amount of additinal charge			kg/m	0.02 (30m or more)	0.02(30m or more)	0.02(40m or more)	-		
Maximum piping length	for total of each room		m	45	60	70	115 (system total)	135 (system total)	145 (system total)
	for one room		m	25			55 (total outdoor unit - BP)		
Maximum level difference	between ind. and outd. unit		m	15			30		
	between indoor units		m	7.5			30 (outdoor - BP)		
	BP - BP		m	-			15		
	indoor - indoor		m	-			15		
Operation range	cooling	from ~ to	°CDB	-10~46			-5~46		
	heating	from ~ to	°CWB	-15~15.5			-15~15.5		

- Information is not available

Accessories: control systems

INDOOR UNITS	FDBQ25B7
Wired remote control	BRC1D528
Adapter for wiring (hour meter)*	EKRP1B2A
Remote ON/OFF, forced OFF	EKROROA

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

Accessories

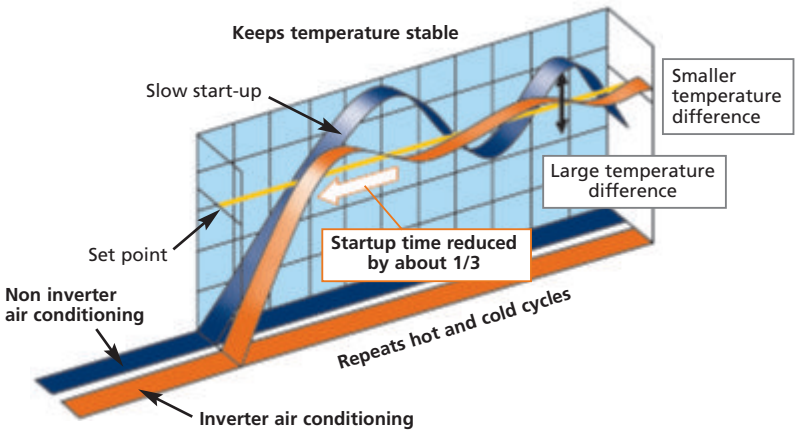
OUTDOOR UNITS	2MXS/3MXS/4MKS/4MXS-D	RMXS-D
Air direction adjustment grille	KPW945AA4	KPW945AA4
Drain plug	-	KKPJF180
Refnet joint	-	KHRQ22M20TA8
Branch provider (2 rooms)	-	BPMKS967A2B
Branch provider (3 rooms)	-	BPMKS967A3B

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.

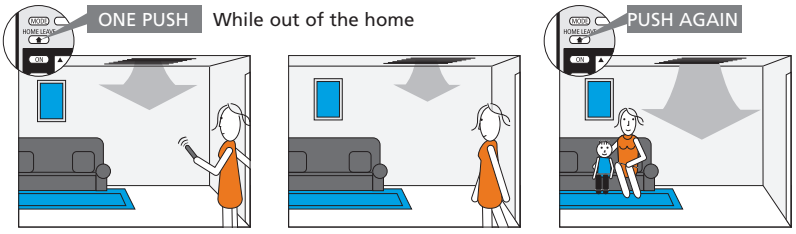
ENERGY EFFICIENT

- **Inverter technology**
  Improved energy efficiency:
  The use of integrated inverter control ensures maximum **energy efficiency** by supplying only the required heating or cooling load where a standard non inverter unit would supply maximum load in an on/off regime.



Improved comfort:
The rapid start up time provided by the inverter increases **comfort** by reducing the lead time in obtaining the required indoor temperature. As soon as the required temperature is reached, the inverter unit continuously scans the room for small changes and adjusts the room temperature in seconds, thereby increasing comfort once again.

- The **'home leave' operation** button prevents large temperature differences by continuously operating at a minimum (heating mode) or maximum (cooling mode) preset level while you're out or sleeping. It also allows the indoor temperature to return quickly to your favourite comfort level.



When you go out push the "Home leave operation" button, and the air conditioner will adjust capacity to reach the preset temperature for "Home leave operation".

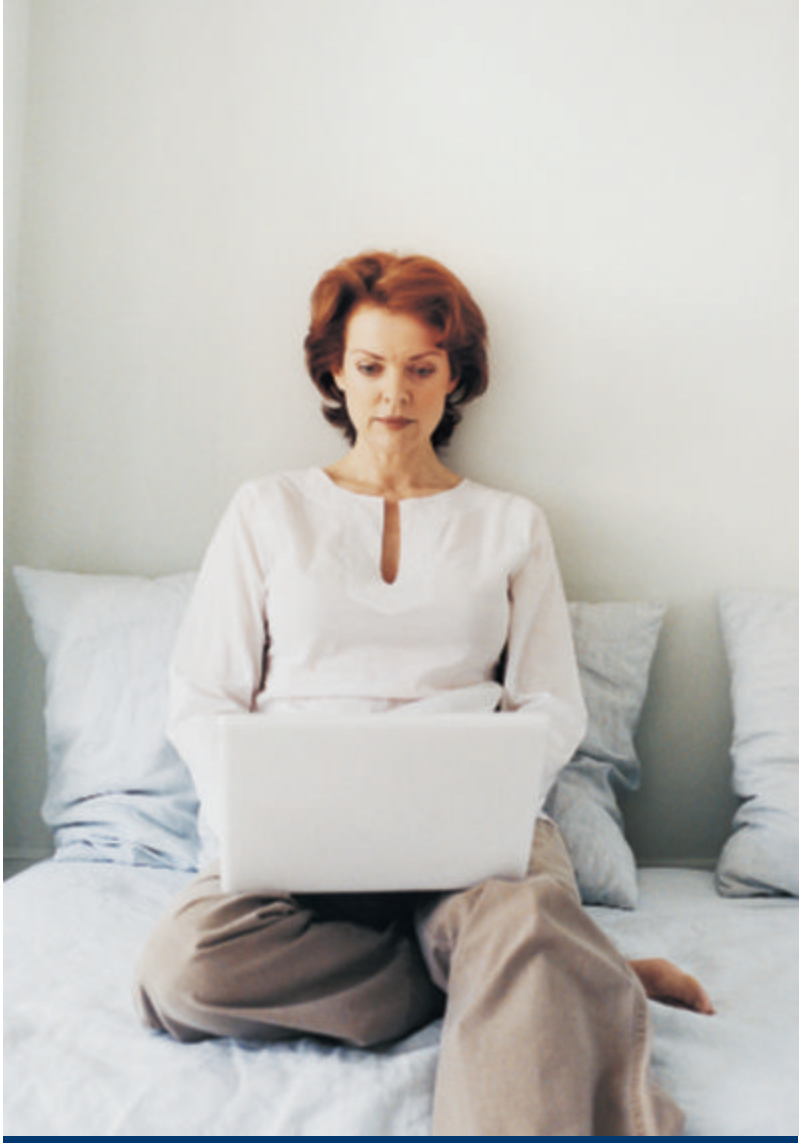
When you return, you will be welcomed by a comfortable air-conditioned room.

Push the "Home leave operation" button again, and the air conditioner will adjust capacity to the set temperature for normal operation.

Wired remote control (Optional)

APPLICATION OPTIONS

- This model can be used both in **cooling only or heating**.
- It is possible to use the indoor unit in **multi** application. This system allows you to have air conditioning in several rooms. In fact, up to 9 different indoor units can be connected to 1 outdoor unit operating individually.



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 environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and 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 NV 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.

Daikin products are distributed by:

DAIKIN EUROPE N.V.

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