



AIR CONDITIONERS

for large spaces

CONCEALED CEILING UNIT

R-410A



www.daikin.eu

FDQ-B

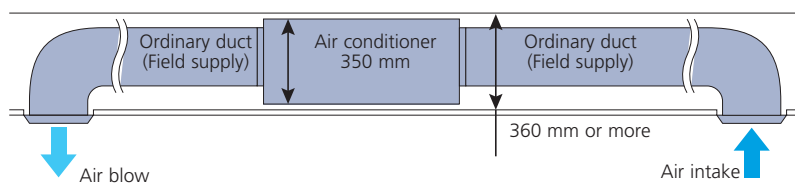
CONCEALED CEILING UNITS ARE BUILT INTO THE FALSE CEILING, LEAVING ONLY THE SUCTION AND DISCHARGE GRILLES VISIBLE. BECAUSE THE COMPACT SUCTION AND DISCHARGE GRILLES CAN BE PLACED WHEREVER YOU WANT, THEY ARE IDEAL FOR ACHIEVING UNIFORM TEMPERATURE DISTRIBUTION IN LARGE AND HEAVILY PARTITIONED AREAS. NOT ONLY ARE CONCEALED CEILING UNITS VISUALLY THE MOST UNOBTRUSIVE, THEY ARE ALSO AMONG THE QUIETEST TYPE OF AIR CONDITIONING.

COMFORT

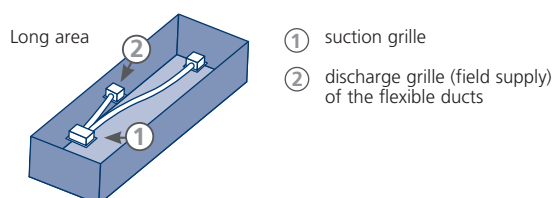
- › The indoor unit is **quiet in operation**. The sound levels are as low as 44dB(A), comparable to refrigerator humming or a quiet conversation.
- › You can select a **high fan speed**, providing you maximum reach.
- › The indoor unit contains an air **filter** which removes microscopic particles and dust.

FLEXIBLE INSTALLATION AND MAINTENANCE

- › Since the indoor unit has a low height it fits flush into a narrow ceiling void. The installation of the unit only requires a **false ceiling** of only 360mm.



- › The air discharge unit can be separated from the actual air conditioner for use in long or large areas by means of **flexible duct systems** (ESP up to 250Pa). In this way even very big areas can be kept comfortable.

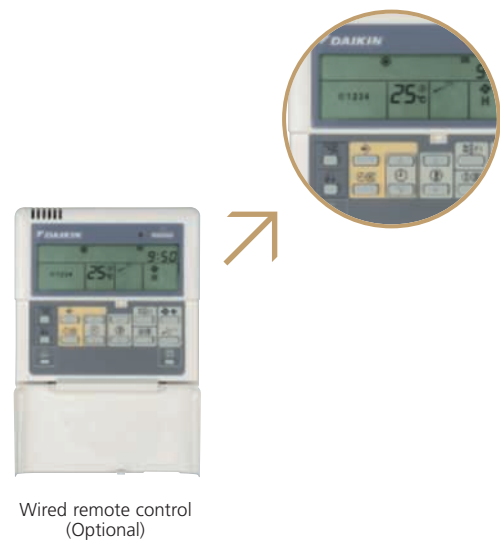




- › The **outdoor unit** can be installed on a roof or terrace or placed against an outside wall.
- › Special **anti-corrosion treatment** of the outdoor unit's heat exchanger fin, gives greater resistance against acid rain and salt corrosion. Additional resistance is provided by a rust proof steel sheet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



- › Daikin **remote controls** give you easy control at your fingertips.
- › The **wired remote control** (optional) provides you with a schedule timer, enabling the air conditioning to be programmed daily or weekly.
- › The optional **remote ON/OFF** enables you to start/stop the air conditioning from a mobile phone via a telephone remote control (field supply). The optional **forced OFF** enables you to switch off the unit automatically. E.g. when a window is opened, the unit switches off.



ENERGY EFFICIENT

- › **A** **Energy label:** up to class A.
- › 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.

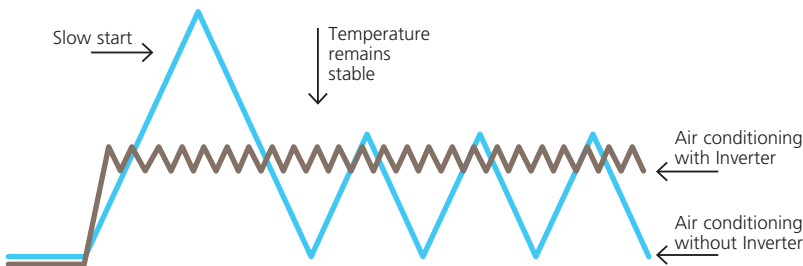
An air conditioning system with an inverter continuously adjusts its cooling and heating output to suit the temperature in the room.

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!



- › The 'home leave' function button should be set when the occupant leaves the room for a lengthy period of time, such as a holiday. When the function is activated, the room temperature is automatically set to a minimum of 10°C, at which point all connected indoor units will switch to heating mode. The function ceases to operate when the room temperature reaches 15°C and should also be switched off when the occupant returns home.

APPLICATION OPTIONS

- › This model can be used both in **cooling and heating (heat pump) or cooling only**.
- › It is possible to use the indoor unit in **pair** (connecting one indoor to one outdoor) and **twin**, (connecting up to 2 indoors in the same room to a single outdoor).

DID YOU KNOW *that ...*

energy savings are increased significantly when you choose an air conditioner that can heat as well as cool? Indeed, with a heat pump, warmth from outdoors is transported indoors for free, even with negative outside temperatures.



CAPACITY AND POWER INPUT

COOLING ONLY - NON INVERTER (air cooled)				FDQ125B				
				RR125BW1				
Cooling capacity	nominal	kW	12.50					
Nominal input	nominal	kW	4.79					
EER				2.61				
Energy label				D				
Annual energy consumption	cooling	kWh	2,395					
HEAT PUMP - NON INVERTER (air cooled)				FDQ125B				
				RQ125BW1				
Cooling capacity	nominal	kW	12.50					
Heating capacity	nominal	kW	14.60					
Nominal input	cooling	nominal	kW	4.79				
	heating	nominal	kW	4.51				
EER				2.61				
COP				3.24				
Energy label	cooling				D			
	heating				C			
Annual energy consumption	cooling	kWh	2,395					
HEAT PUMP - NVERTER CONTROLLED (air cooled)				FDQ125B	FDQ125B	FDQ125B	FDQ200B	FDQ250B
				RZQS125CV1	RZQ125CV1	RZQ125BW1	RZQ200C	RZQ250C
Cooling capacity	nominal	kW	12.5	12.5	12.5	20.0	24.0	
Heating capacity	nominal	kW	14.0	14.0	14.0	23.0	26.0	
Nominal input	cooling	nominal	kW	4.45	4.15	4.15	6.23	8.58
	heating	nominal	kW	4.08	3.67	3.69	6.74	8.22
EER			2.81	3.01	3.01	3.21	2.81	
COP			3.43	3.81	3.79	3.41	3.21	
Energy label	cooling			C	B	B	A	C
	heating			B	A	A	B	C
Annual energy consumption	cooling	kWh	2,225	2,075	2,075	3,115	4,290	

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)



SPECIFICATIONS INDOOR UNITS

COOLING ONLY / HEAT PUMP				FDQ125B	FDQ200B	FDQ250B
Dimensions	HxWxD		mm	350x1,400x662	450x1,400x900	
Weight			kg	59	93	93
Air flow rate	cooling	M	m ³ /min	43	69	89
	heating	M	m ³ /min	43	69	89
Fan speed				3 steps (direct drive)		2 steps (direct drive)
Sound pressure level	cooling	H	dB(A)	44	45	47
	heating	H	dB(A)	44	45	47
Sound power level	cooling	H	dB(A)	75	81	82
Piping connections	liquid		mm	ø9.52		ø12.7
	gas		mm	ø15.9	ø22.2	
	drain		mm	-	ø25	
Heat insulation				Both liquid and gas pipes		

Height	350 mm
Width	1,400 mm
Depth	662 mm



SPECIFICATIONS OUTDOOR UNITS

COOLING ONLY - NON INVERTER				RR125BW1
Dimensions	HxWxD		mm	1,170x900x320
Weight			kg	106
Casing colour				Daikin white
Sound pressure level		H	dB(A)	53
Sound power level		H	dB(A)	67
Compressor			type	Hermetically sealed scroll
Refrigerant type				R-410A
Refrigerant charge			kg/m	3.7
Max. piping length			m	70 (equivalent length 90)
Max. level difference			m	30
Operation range	from ~ to		°CWB	-15~46

HEAT PUMP - NON INVERTER				RQ125BW1
Dimensions	HxWxD		mm	1,170x900x320
Weight			kg	108
Casing colour				Daikin white
Sound pressure level	cooling	H	dB(A)	53
Sound power level	cooling	H	dB(A)	67
Compressor			type	Hermetically sealed scroll
Refrigerant type				R-410A
Refrigerant charge			kg/m	3.7
Max. piping length			m	70 (equivalent length 90)
Max. level difference			m	30
Operation range	cooling	from ~ to	°CDB	-5~46
	heating	from ~ to	°CWB	-10~15

HEAT PUMP - INVERTER CONTROLLED				RZQS125CV1	RZQ125CV1	RZQ125BW1	RZQ200C	RZQ250C
Dimensions	HxWxD		mm	1,170x900x320	1,170x900x320	1,345x900x320	1,680x930x765	
Weight			kg	103	103	106	183	184
Casing colour				Ivory white	Ivory white	Ivory white	Daikin white	Daikin white
Sound pressure level (night quiet mode)	cooling	H	dB(A)	51 (49)	50 (45)	50 (45)	57	57
	heating	H	dB(A)	53	52	52	-	-
Sound power level	cooling	H	dB(A)	67	66	66	78	78
Compressor			type	Hermetically sealed scroll	Hermetically sealed scroll	Hermetically sealed scroll	Hermetically sealed scroll	
Refrigerant type				R-410A	R-410A	R-410A	R-410A	R-410A
Refrigerant charge			kg/m	3.7	3.7	4.3	8.3	9.3
Max. piping length			m	70 (equivalent length 95)	70 (equivalent length 95)	70 (equivalent length 95)	100	100
Max. level difference			m	30	30	30	30	30
Operation range	cooling	from ~ to	°CDB	-5~46	-15~50	-15~50	-5~46	-5~46
	heating	from ~ to	°CWB	-15~15.5	-20~15.5	-20~15.5	-15~15	-15~15

Height	1,170 mm
Width	900 mm
Depth	320 mm





ACCESSORIES: CONTROL SYSTEMS

INDOOR UNITS	FDQ125B	FDQ200B	FDQ250B
Wired remote control		BRC1D52	
Central remote control		DCS302C51	
Unified ON/OFF control		DCS301B51	
Schedule timer		DST301B51	
Remote ON/OFF, forced OFF		EKRORO	

ACCESSORIES: INDOOR

INDOOR UNITS	FDQ125B	FDQ200B	FDQ250B
Wiring adapter for electrical appendices		KRP4A51	
Adapter for wiring (interlock for fresh air intake)		KRP1B54	
Interface adapter for Sky Air series		DTA112B51	
Option PCB for ext. electrical heater, humidifier and/or hour meter*		EKRP1B2	

* Electrical heater, humidifier and hour meter are field supplied. These parts should not be installed inside the unit.

ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS	RR/RQ125B	RZQ125C/RZQS125B/C	RZQ200C	RZQ250C
Central drain plug	KKPJ5F180	KKPJ5F180	KWC26B280	
Refrigerant branch piping	KHRQ22M20TA	KHRQ22M20TA		
Demand adapter kit	-	KRP58M51		

Notes:

- (1) V1 = 1~, 230V, 50Hz; V3 = 1~, 230V, 50Hz
- (2) Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB • outdoor temperature 35°CDB • equivalent 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 • equivalent 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) The external static pressure is changeable: change the connectors inside the electrical box, this pressure means "high static pressure - standard - low static pressure".
- (6) The external static pressure is changeable: change the connectors inside the electrical box, this pressure means "high static pressure - standard".
- (7) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.
- (8) The sound pressure level is measured via a microphone at a certain distance from the unit (for measuring conditions: please refer to the technical data books).
- (9) The sound power level is an absolute value indicating the "power" which a sound source generated.



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.

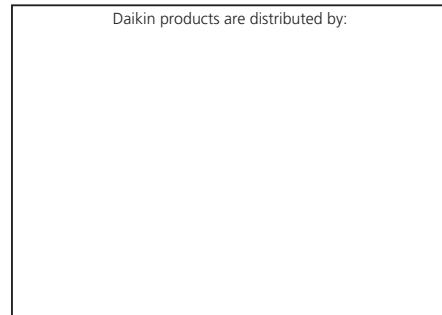


Mixed Sources

Product group from well-managed forests and other controlled sources
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