

Daikin air conditioners
for shops, restaurants and offices
4-way blow ceiling mounted cassette (950x950mm)

Daikin Airconditioning UK Ltd



NEW

www.daikin.co.uk

FCQ-D





The ceiling mounted 4-way blow cassette is specially designed for use in false ceilings. The greater part of the unit integrates perfectly with the ceiling. Only the slim decoration panel remains visible. As their name suggests, these units can discharge air in any of 4 directions.

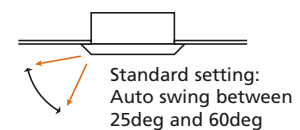
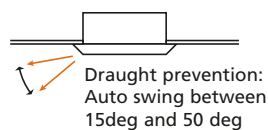
These cassettes are the most energy efficient cassettes Daikin has ever developed moreover they are equipped with a special draught prevention technology

COMFORT

- You have the choice of 3 **auto-swing** positions for maximum comfort: standard, draught prevention or ceiling soiling prevention.

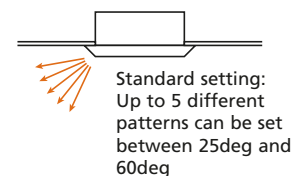
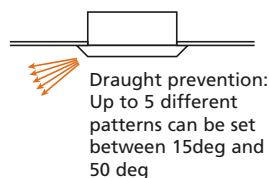
Auto swing:

Vertical auto swing automatically moves the flaps up and down to distribute air effectively throughout the whole room.



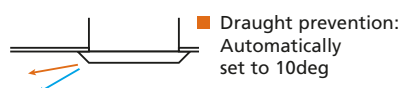
5 different air flow patterns:

Any one of five different air flow patterns can be freely selected between 0deg and 65deg. This air flow pattern will then be maintained during the operation of the air conditioner.



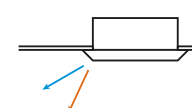
Draught prevention (heating mode):

Prevents draughts by automatically changing to horizontal air flow discharge when the heater is started up and the thermostat is switched off.



Auto blow air flow control:

The last air flow pattern is memorised and automatically reset the next time the unit is turned ON.

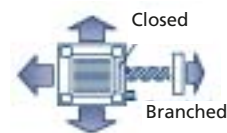
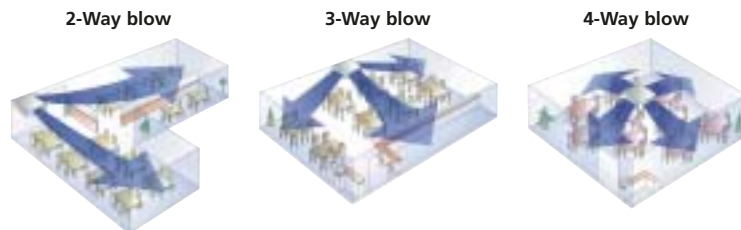




- Air flow distribution for **ceiling heights** up to 4.2m without loss of capacity.
- You have the choice out of 2 **fan speeds** to select: high or low. A high fan speed provides maximum reach while a low fan speed minimizes drafts.
- These indoor units are very **quiet in operation**. The sound levels are as low as 28dB (A), comparable to rustling leaves.
- Daikin's special **dry programme** reduces humidity in the room without variations in room temperature.
- The indoor unit contains an air **filter** which removes microscopic particles and dust.

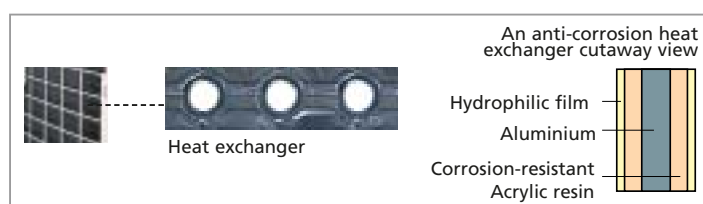
FLEXIBLE INSTALLATION AND EASY TO USE

- Since the unit has a **low height** it fits flush into false ceilings (minimum height of 256mm).
- When the ceiling void is too small, a **panel spacer** can be used to cover the space between the ceiling and decoration panel.
- The **air** is discharged in 4 directions.
- It is possible to **shut off one or 2 flaps** enabling the unit to be installed in the middle of the room, in a corner or in a small room.



An optional **branch duct** can be connected to the air conditioning. In this way, it is possible to provide additional air flow for crowded spaces.

- 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.



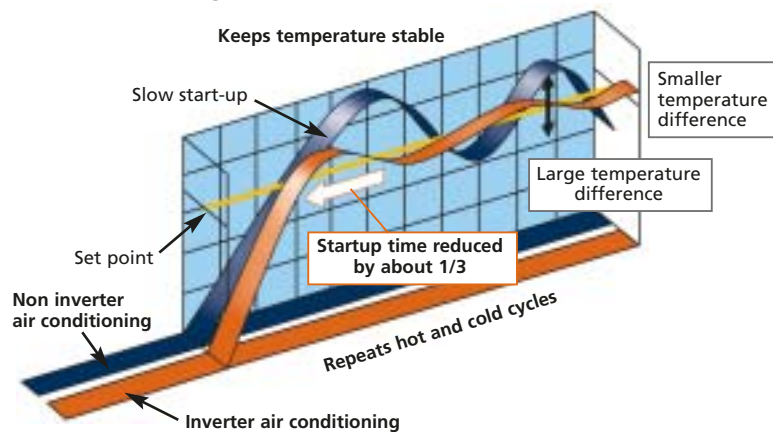
Infrared remote control (Optional)



Wired remote control (Optional)

ENERGY EFFICIENT

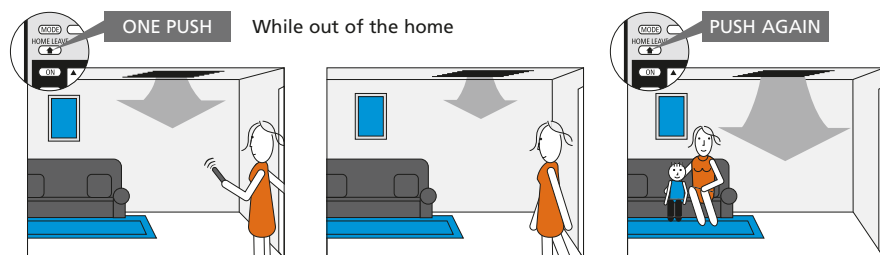
- Energy label: up to class A
- The internal layout of the indoor unit is specially designed to improve its operating efficiency, enabling the 4-way blow ceiling mounted cassette to achieve **higher energy efficiency** levels than contemporary cassette models.
- **Inverter technology**
Improved energy 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.

APPLICATION OPTIONS

- This model can be used for **cooling only or heating**.
- It is possible to use the indoor unit in **pair** (connecting one indoor to one outdoor).

Capacity and power input

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B
				RZQ71B8V3B	RZQ100B8V3/B7W1B	RZQ125B8V3/B7W1B	RZQ140B7W1B
Cooling capacity	min ~ nom ~ max	kW	3.2~7.1~8.0	5.0~10.0~11.2	5.7~12.5~14.0	6.2~14.0~15.4	
Heating capacity	min ~ nom ~ max	kW	3.5~8.0~9.0	5.1~11.2~12.8	6.0~14.0~16.2	6.2~16.0~18.0	
Nominal input	cooling	nom	1.98	2.44	3.54	4.56	
	heating	nom	1.97	2.56	3.59	4.52	
EER			3.59	4.10	3.53	-	
COP			4.06	4.375	3.90	-	
Energy label	cooling		A	A	A	-	
	heating		A	A	A	-	
Annual energy consumption	cooling	kWh	990	1,220	1,770	-	

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

HEAT PUMP				FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B
Dimensions	HxWxD	unit	mm	246x840x840	288x840x840		
		decoration panel	mm	45x950x950			
Weight		unit	kg	24	28		
		decoration panel	kg	5.5			
Colour		decoration panel		White			
Air flow rate	H/L	m ³ /min	19/14	30/21	30/24	30/25	
Fan speed			2 steps				
Sound pressure level	H/L	dB(A)	34/28	43/33	43/36	43/38	
Sound power level	H/L	dB(A)	50/44	58/48	58/51	58/53	
Piping connections		liquid	mm	ø9.5 (flare)			
		gas	mm	ø15.9 (flare)			
		drain	ID mm	ø25			
			OD mm	ø32			
Heat insulation			Both liquid and gas pipes				

Indoor units:



FCQ71,100,125,140D

Specifications outdoor units

HEAT PUMP - INVERTER CONTROLLED				RZQ71B8V3B	RZQ100B8V3/B7W1B	RZQ125B8V3/B7W1B	RZQ140B7W1B
Dimensions	HxWxD		mm	770x900x320	1,345x900x320		
Weight			kg	68	106		
Casing colour				Ivory white			
Sound pressure level (night quiet mode)	cooling	H	dB(A)	47(43)	49(45)	50(45)	50(45)
	heating	H	dB(A)	49	51	52	52
Sound power level	cooling	H	dB(A)	63	65	66	66
Compressor				Hermetically sealed swing	Hermetically sealed scroll		
Refrigerant type				R-410A			
Refrigerant charge			kg/m	2.8	4.3		
Maximum piping length			m	50 (equivalent length 70)	75 (equivalent length 95)		
Maximum level difference			m	5 (3m by field setting)			
Operation range	cooling	from ~ to	°CDB	-15 ~ 50			
	heating	from ~ to	°CWB	-20 ~ 15.5			



Accessories: control systems

INDOOR UNITS	FCQ71D	FCQ100D	FCQ125D	FCQ140D
Wired remote control			BRC1D527	
Infrared remote control			BRC7E51W	
Centralised remote control			DCS302C51	
Unified ON/OFF control			DCS301B51	
Schedule timer			DST301B51	
Adapter for external ON/OFF and monitoring *1			KRP1B59	
Adapter for external ON/OFF and monitoring *1			KRP4A53	
Installation box for adapter PCB			KRP1D98	

*1 Installation box for adapter PCB (KRP1D98) is necessary.

Accessories

INDOOR UNITS	FCQ71D	FCQ100D	FCQ125D	FCQ140D
Decoration panel			BYCP125DJW1	
Panel spacer			KDBP55H160WA	
High-efficiency filter 65% (colorimetric method)	KAFP556D80		KAFP556D160	
High-efficiency filter 90% (colorimetric method)	KAFP557D80		KAFP557D160	
Replacement high-efficiency filter 65% (colorimetric method)	KAFP552H80		KAFP552H160	
Replacement high-efficiency filter 90% (colorimetric method)	KAFP553H80		KAFP553H160	
Filter chamber			KDDFP55D160	
Long-life filter			KAFJ551C160	
Ultra long-life filter			KAFP55D160	
Replacement long-life filter			KAFJ55K160H	
Fresh air intake	Chamber type	without T-shape & fan	KDDP55D160	
		with T-shape, without fan	KDDP55D160K	
	Direct installation type		KDDJ55X160	
Insulation kit for high humidity	KDT-55D80		KDT-55D160	
Branch duct chamber	KDP55D80		KDP55D160	
Chamber connection kit			KKSJ55K160	

Accessories

OUTDOOR UNITS	RZQ71B	RZQ100B	RZQ125B	RZQ140B
Central drain plug			KKPJ5F180	
Refrigerant branch piping	for twin		KHRQ22M20TA7	
	for triple	-	KHRQ127H7	
	for double twin	-	KHRQ22M20TA7 (x3)	
Demand adapter kit	remote control of sound reduction and power input		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 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 N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

Head office

Daikin Airconditioning UK limited
1 River Court, Albert Drive, Woking, Surrey GU21 5RP
Tel 01483 711810 Fax 01483 711890

Administration centres

4 Wells Place, Merstham, Redhill, Surrey RH1 3DR
Tel 01737 732345 Fax 01737 644054

Airways, Midland Way, Thornbury, Bristol BS35 2JX
Tel 01454 281000 Fax 01454 415199

1 Wellington Road, Bishopbriggs, Glasgow G64 2SA
Tel 0845 6021122 Fax 0845 6052233

Daikin products are distributed by:

