DAIKIN
AIR CONDITIONING

Daikin air conditioners for shops, restaurants and offices

4-WAY BLOW CEILING MOUNTED CASSETTE

R-410A

www.daikineurope.com

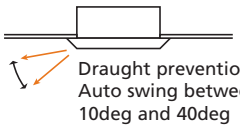
FCQ-B

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 equipped with a special draught prevention and anti-ceiling soiling technology.

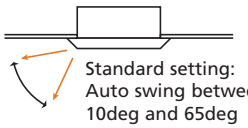
COMFORT

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

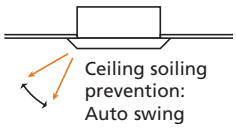
Auto swing:
Vertical auto swing automatically moves the flaps up and down to distribute air effectively throughout the whole room.



Draught prevention: Auto swing between 10deg and 40deg

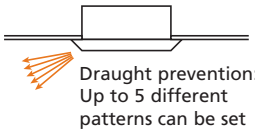


Standard setting: Auto swing between 10deg and 65deg

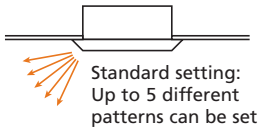


Ceiling soiling prevention: Auto swing between 30deg and 65deg

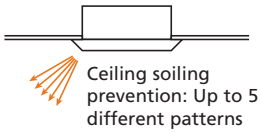
5 different air flow patterns:
Any one of five different air flow patterns can be freely selected between 0deg and 65deg. This air flow pattern will then be maintained during the operation of the air conditioner.



Draught prevention: Up to 5 different patterns can be set between 10deg and 40deg

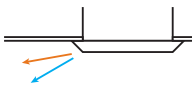


Standard setting: Up to 5 different patterns can be set between 10deg and 65deg



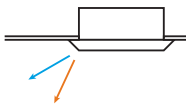
Ceiling soiling prevention: Up to 5 different patterns can be set between 30deg and 65deg

Draught prevention (heating mode):
Prevents draughts by automatically changing to horizontal air flow discharge when the heater is started up and thethermostat is switched off.



- Draught prevention: Automatically set to 10deg
- Ceiling soiling prevention: Automatically set to 30deg

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

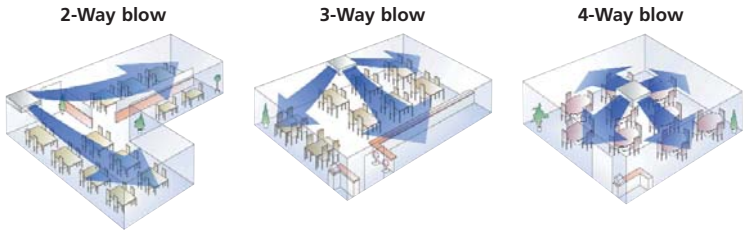


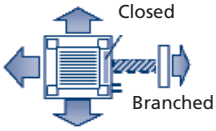
Draught prevention: Initial setting is 30deg for cooling and 65deg for heating

- 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 27dB (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 240mm).
- 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 one or 2 flaps off** 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.

Infrared remote control (Optional)

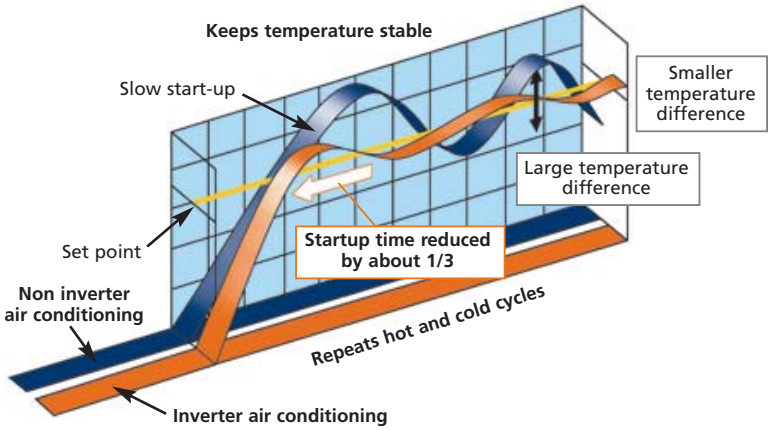
Wired remote control (Optional)

- 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.
- 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

- Energy label: up to class A

- **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**' 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 only or heating.**

- It is possible to use the indoor unit in **pair** (connecting one indoor to one outdoor), **twin, triple, double twin** (connecting up to 4 indoors in the same room to a single outdoor) and **multi** applications (connecting up to 9 units in several rooms to 1 outdoor unit).

Capacity and power input

COOLING ONLY - INVERTER CONTROLLED (air cooled)				FCQ35B	FCQ50B	FCQ60B
				RKS35D	RKS50E	RKS60E
Cooling capacity		min~nom~max	kW	3.4 (nom)	0.9~5~5.6	0.9~5.7~6
Nominal input		nominal	kW	1.21	1.92	2.19
EER				2.81	2.60	2.60
Energy label				C	E	E
Annual energy consumption	cooling		kWh	605	960	1,095

COOLING ONLY - NON INVERTER (air cooled)				FCQ50B	FCQ60B	FCQ71B	FCQ100B	FCQ125B
				RN50E	RN60E	RR71BV3/W1	RR100BV3/W1	RR125BW1
Cooling capacity		nominal	kW	5	5.7	7.1	10	12.5
Nominal input		nominal	kW	1.92	2.19	2.72/2.66	3.83/3.56	4.66
EER				2.60	2.60	2.61/2.67	2.61/2.81	2.68
Energy label				E	E	D/D	D/C	D
Annual energy consumption	cooling		kWh	960	1,095	1,360/1,330	1,915/1,780	2,330

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FCQ35B	FCQ50B	FCQ60B
				RXS35D	RXS50E	RXS60E
Cooling capacity		min~nom~max	kW	3.4 (nom)	0.9~5~5.6	0.9~5.7~6
Heating capacity		min~nom~max	kW	4.1 (nom)	0.9~6~7	0.9~7~8
Nominal input	cooling	nominal	kW	1.21	1.92	2.19
	heating	nominal	kW	1.28	1.87	2.19
EER				2.81	2.60	2.60
COP				3.20	3.21	3.20
Energy label	cooling			C	E	E
	heating			D	C	D
Annual energy consumption	cooling		kWh	605	960	1,095

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FCQ71B	FCQ100B	FCQ125B	FCQ71B	FCQ100B	FCQ125B
				RZQS71BV3	RZQS100BV3	RZQS125BV3	RZQ71B8V3	RZQ100B8V3/BW1	RZQ125B8V3/BW1
Cooling capacity		min~nom~max	kW	7.1 (nom)	10.0 (nom)	12.5 (nom)	7.1 (nom)	10 (nom)	12.5 (nom)
Heating capacity		min~nom~max	kW	8 (nom)	11.2 (nom)	14 (nom)	8 (nom)	11.2 (nom)	14 (nom)
Nominal input	cooling	nominal	kW	2.46	3.83	4.14	2.16	2.64	3.88
	heating	nominal	kW	2.61	3.47	4.52	2.56	3.14	4.36
EER				2.89	2.61	3.02	3.29	3.79	3.22
COP				3.07	3.23	3.10	3.13	3.57	3.21
Energy label	cooling			C	D	B	A	A	A
	heating			D	C	D	D	B	C
Annual energy consumption	cooling		kWh	1,230	1,915	2,270	1,080	1,320	1,940

HEAT PUMP - NON INVERTER (air cooled)				FCQ71B	FCQ100B	FCQ125B
				RQ71BV3/W1	RQ100BV3/W1	RQ125BW1
Cooling capacity		nominal	kW	7.1	10	12.5
Heating capacity		nominal	kW	8	11.2	14.6
Nominal input	cooling	nominal	kW	2.72/2.66	3.83/3.56	4.66
	heating	nominal	kW	2.85/2.80	3.75/3.66	5.06
EER				2.61/2.67	2.61/2.81	2.68
COP				2.81/2.86	2.99/3.06	2.89
Energy label	cooling			D/D	D/C	D
	heating			D/D	D/D	D
Annual energy consumption	cooling		kWh	1,360/1,330	1,915/1,780	2,330

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 - COOLING ONLY			4MKS58E (1)	4MKS75E (1)	5MKS90E (1)
Max. n° of indoor units			4	4	5
Cooling only	FCQ35B		●	●	●
	FCQ50B		●	●	●
	FCQ60B			●	●
Max. cooling capacity		kW	7.30	9.28	10.50
Max. PI cooling		kW	2.24	3.54	3.98

POSSIBLE COMBINATIONS MULTI - HEAT PUMP			2MXS52E* (1)	3MXS52E* (1)	4MXS68E* (1)	4MXS80E* (1)	5MXS90E* (1)	RMXS112E*	RMXS140E*	RMXS160E*
Max. n° of indoor units			2	3	4	4	5	7	8	9
Heat pump	FCQ35B		●	●	●	●	●	●	●	●
	FCQ50B		●	●	●	●	●	●	●	●
	FCQ60B				●	●	●	●	●	●
Max. cooling capacity		kW	6.92	7.30	8.68	9.60	10.50	11.2	14.0	15.5
Max. heating capacity		kW	7.98	8.30	10.64	11.00	11.50	12.5	16.0	17.5
Max. PI cooling		kW	2.25	2.25	3.69	3.56	4.01	3.50	5.09	5.40
Max PI heating		kW	2.51	2.51	3.41	3.11	3.46	3.93	5.21	5.43

Notes:
(1) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (25,35 class) /E (50, 60 class) series.
(2) For more detailed information, please consult our multi model/combination tables catalogue or your local dealer.
*At least two indoor units should be connected to these multi outdoor units.

TWIN/TRIPLE/DOUBLE TWIN APPLICATION	FCQ35B	FCQ50B	FCQ60B	FCQ71B	FCQ100B	FCQ125B
RR/RQ71	2					
RR/RQ100	3	2				
RR/RQ125		3	2			
RZQ(S)71	2					
RZQ(S)100	3	2				
RZQ(S)125	4	3	2			
RZQ140	4	3		2		
RZQ200		4	3	3	2	
RZQ250			4			2

Specifications indoor units

COOLING ONLY/HEAT PUMP				FCQ35B	FCQ50B	FCQ60B	FCQ71B	FCQ100B	FCQ125B
Dimensions	HxWxD	unit	mm	230x840x840				288x840x840	
		decoration panel	mm	40x950x950					
Weight		unit	kg	23				27	
		decoration panel	kg	5					
Colour		decoration panel		White					
Air flow rate	cooling	H/L	m^3/min	14/10	15/11	18/14	18/14	28/21	31/24
	heating	H/L	m^3/min	14/10	15/11	18/14	18/14	28/21	31/24
Fan speed				2 steps (direct drive)					
Sound pressure level	cooling	H/L	dB(A)	31/27	31/27	33/28	33/28	37/32	40/35
	heating	H/L	dB(A)	31/27	31/27	33/28	33/28	37/32	40/35
Sound power level	cooling	H	dB(A)	48	48	50	50	53	56
Piping connections		liquid	mm	ø6.4				ø9.52	
		gas	mm	ø9.5	ø12.7			ø15.9	
		drain (VP25)	ID mm	ø25					
			OD mm	ø32					
Heat insulation				Both liquid and gas pipes					

Indoor units: FCQ-B

FCQ35,50,60B, FCQ71B

FCQ100,125B

Specifications outdoor units

COOLING ONLY - INVERTER CONTROLLED			RKS35D	RKS50E	RKS60E
Dimensions	HxWxD	mm	550x765x285	735x825x300	
Weight		kg	32	47	47
Casing colour			Ivory white		
Sound pressure level	H/L	dB(A)	47/44	47/44	49/46
Sound power level	H	dB(A)	62	61	63
Compressor			hermetically sealed swing type		
Refrigerant type			R-410A		
Refrigerant charge		kg/m	0.02 (for piping length>10m)		
Maximum piping length		m	20	30	
Maximum level difference		m	15	20	
Operation range	from ~ to	°CDB	-10~46	-10(-15*)~46	

COOLING ONLY - NON INVERTER			RN50E	RN60E	RR71BV3/W1	RR100BV3/W1	RR125BW1
Dimensions	HxWxD	mm	735x825x300		770x900x320	1,170x900x320	
Weight		kg	47	47	83/81	102/99	106
Casing colour			Ivory white		Ivory white		
Sound pressure level	H	dB(A)	47	49	50	53	53
Sound power level	H	dB(A)	61	63	63	66	67
Compressor			Swing compressor		Hermetically sealed scroll compressor		
Refrigerant type			R-410A		R-410A		
Refrigerant charge		kg/m	0.02 (piping length>10m)		2.70	3.70	3.70
Maximum piping length		m	30		70 (equivalent lenght 90)		
Maximum level difference		m	20		30		
Operation range	from ~ to	°CDB	-10~46		-15~46		

* Possibility to extend the operaiton range down to -15°C by turning ON the switch on the outdoor unit PCB. In this case, the unit will stop operation at -20°C or lower and will recover when temperature rises again.

HEAT PUMP - INVERTER CONTROLLED				RXS35D	RXS50E	RXS60E
Dimensions		HxWxD	mm	550x765x285	735x825x300	
Weight			kg	32	48	48
Casing colour				Ivory white		
Sound pressure level	cooling	H/L	dB(A)	47/44	47/44	49/46
(night quiet mode)	heating	H/L	dB(A)	48/45	48/45	49/46
Sound power level	cooling	H	dB(A)	62	61	63
Compressor				Hermetically sealed swing		
Refrigerant type				R-410A		
Refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
Maximum piping length			m	20	30	30
Maximum level difference			m	15	20	20
Operation range	cooling	from ~ to	°CDB	-10~46		
	heating	from ~ to	°CWB	-15~20	-15~18	

HEAT PUMP - INVERTER CONTROLLED				RZQS71BV3	RZQS100BV3	RZQS125BV3	RZQ71B8V3	RZQ100B8V3/BW1	RZQ125B8V3/BW1
Dimensions		HxWxD	mm	770x900x320		1,345x900x320	770x900x320	1,345x900x320	
Weight			kg	68		106	68	106	
Casing colour				Ivory white			Ivory white		
Sound pressure level	cooling	H/L	dB(A)	49 (43)	51 (45)	51 (45)	47(43)	49(45)	50(45)
(night quiet mode)	heating	H/L	dB(A)	51	55	53	49/-	51/-	52/-
Sound power level	cooling	H	dB(A)	65	67	67	63	65	66
Compressor				Herm. sealed swing		Hermetically sealed scroll type	Herm. sealed swing	Hermetically sealed scroll type	
Refrigerant type				R-410A			R-410A		
Refrigerant charge			kg/m	2.8		4.3	2.8 (for 30m)	4.3 (for 30m)	
Maximum piping length			m	30 (equivalent length 40)	50 (equivalent length 70)		50 (equivalent length 70)	75 (equivalent length 95)	
Maximum level difference			m	15	30		30		
Operation range	cooling	from ~ to	°CDB	-5~46			-15~50		
	heating	from ~ to	°CWB	-15~15.5			-20~15.5		

HEAT PUMP - NON INVERTER				RQ71BV3/W1	RQ100BV3/W1	RQ125BW1
Dimensions		HxWxD	mm	770x900x320	1,170x900x320	
Weight			kg	84/83	103/101	108
Casing colour				Ivory white		
Sound pressure level	cooling	H	dB(A)	50	53	53
Sound power level	cooling	H	dB(A)	63	66	67
Compressor				Hermetically scaled scroll compressor		
Refrigerant type				R-410A		
Refrigerant charge			kg/m	2.70	3.70	3.70
Maximum piping length			m	70 (equivalent lenght 90)		
Maximum level difference			m	30		
Operation range	cooling	from ~ to	°CDB	-5~46		
	heating	from ~ to	°CWB	-10~15		

* Possibility to extend the operation range down to -15°C by turning ON the switch on the outdoor unit PCB. In this case, the unit will stop operation at -20°C or lower and will recover when temperature rises again.
- Information is not available

Accessories: control systems

INDOOR UNITS		FCQ35B	FCQ50B	FCQ60B	FCQ71B	FCQ100B	FCQ125B
Wired remote control		BRC1D52					
Infrared remote control	cooling only	BRC7C513					
	heat pump	BRC7C512					
Centralised remote control		DCS302C51					
Unified ON/OFF control		DCS301B51					
Schedule timer		DST301B51					
Electrical box with earth terminal (2 blocks)		KJB212A					
Electrical box with earth terminal (3 blocks)		KJB311A					
Adapter for external ON/OFF and monitoring		KRP1B57*					
Adapter for external ON/OFF and monitoring		KRP4A53*					
Adapter for wiring (hour meter) (1)		EKRP1B2*					
Interface adapter for Sky Air		DTA112B51					
Installation box for adapter PCB (2)		KRP1C98					
Remote ON/OFF, forced OFF		EKRORO					
Remote sensor		KRCS01-1					
Noise filter (for electromagnetic interface use only)		KEK26-1A					

(1) Possibility to connect an hour meter (field supply). This part should not be installed inside the equipment.
(2) Installation box is necessary for each adapter marked with*

Accessories

INDOOR UNITS		FCQ35B	FCQ50B	FCQ60B	FCQ71B	FCQ100B	FCQ125B
Decoration panel		BYC125K					
Replacement long-life filter (non-woven type)		KAF551KA160					
Fresh air intake kit	Direct installation type	KDDJ55XA160					
Sealing member of air discharge outlet		KDBHJ55B160					
Panel spacer		KDBP55X160W					

Accessories

OUTDOOR UNITS		RKS/RXS35D	RN/RKS/RXS50E	RN/RKS/RXS60E			
Air direction adjustment grille		KRW937A4	KPW945A4				
Central drain plug		KKP937A4	-	-			
OUTDOOR UNITS		**RR/RQ71B**	**RR/RQ100B**	**RR/RQ125B**	**RZQ(S)71B**	**RZQ(S)100B**	**RZQ(S)125B**
Central drain plug		KKPJ5F180			KKPJ5F180		
Refrigerant branch piping	for twin	KHRQ22M20TA			KHRQ22M20TA		
	for triple	-	KHRQ127H		-	KHRQ127H	
	for double twin	-	-	-	-	-	KHRQ22M20TA (x3)
Demand adapter kit		-	-	-	KRP58M51		

Notes:

1) V1 = 1~,230V,50Hz; VM = 1~, 220-240V/220-230V, 50Hz/60Hz; V3 = 1~, 230V, 50Hz

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 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. 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:

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EPLE05-20C / CD / 09/06 /La Movida