DAIKIN
AIR CONDITIONING

UKEPLE05-23

Daikin air conditioners for shops, restaurants and offices **ceiling suspended unit**

Daikin Airconditioning UK Ltd

www.daikin.co.uk

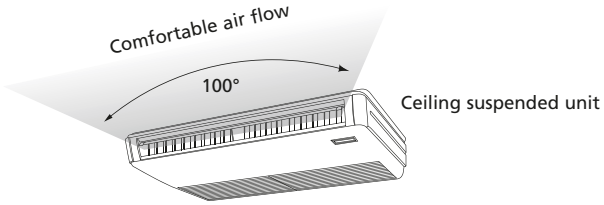
FHQ-BU

OPTIMISED DESIGN R-410A

Ceiling suspended units are the ideal solution for rooms, shops or offices without false ceilings. Since they are installed directly against the ceiling they do not take up any floor or wall space.
These indoor units are ideal for uniform air distribution in large spaces because of their long air throw.

COMFORT

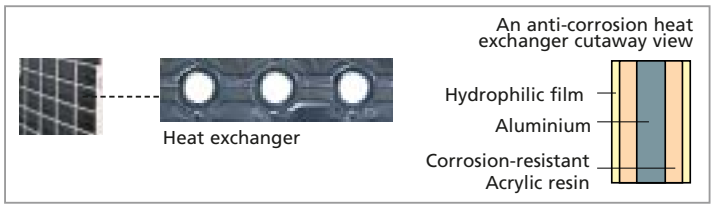
- Air flow distribution for **ceiling heights** up to 3.8m without loss of capacity.
- The ceiling suspended unit ensures you a **comfortable air flow** in all directions thanks to an air flow pattern of 100°.



- 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 drafts.
- 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

- The reduced lateral servicing space enables the unit to be **easily installed** in corners and narrow spaces on walls and ceilings.
- 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.
- 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

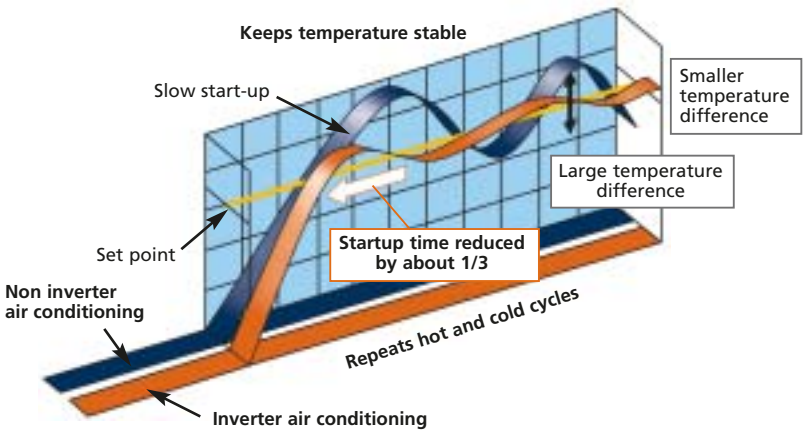
Infrared remote control (Optional)

Wired remote control (Optional)

ENERGY EFFICIENT

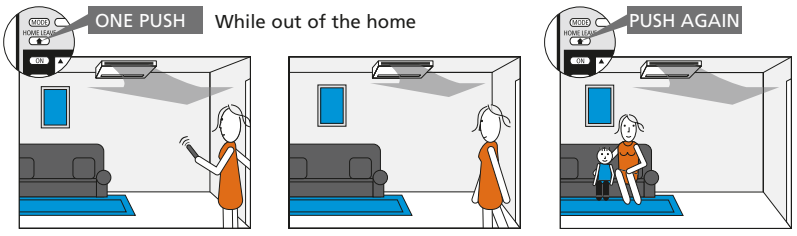
- Energy label: up to class B

- **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 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)				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B
				RKS35DVMB	RKS50BVMB9	RKS60BVMB9
Cooling capacity		min~nom~max	kW	1.4~3.4~3.7	0.90~5.00~5.60	0.90~5.70~6.00
Nominal input		min~nom~max	kW	0.30~1.21~1.50	0.45~1.83~2.02	0.44~2.15~2.23
EER				2.81	2.73	2.65
Energy label				C	D	D
Annual energy consumption	cooling		kWh	605	915	1,075

COOLING ONLY - NON INVERTER (air cooled)				FHQ50BUV1B	FHQ60BUV1B	FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
				RS50BVMB	RS60BVMB	RR71B7V3B/W1B	RR100B7V3B/W1B	RR125B7W1B
Cooling capacity		nominal	kW	5.00	5.70	7.10	9.80	12.20
Nominal input		nominal	kW	1.83	2.15	2.70/2.65	3.75/3.68	4.50
EER				2.73	2.65	2.63/2.68	2.61/2.66	2.71
Energy label				D	D	D/D	D/D	D
Annual energy consumption	cooling		kWh	915	1,075	1,350/1,325	1,875/1,840	2,250

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B	FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
				RXS35DVMB	RXS50BVMB	RXS60BVMB	RZQ71B8V3B	RZQ100B8V3B/B7W1B	RZQ125B8V3B/B7W1B
Cooling capacity		min~nom~max	kW	1.4~3.4~3.7	0.90~5.00~5.60	0.90~5.70~6.00	7.10 (nom)	10.00 (nom)	12.50 (nom)
Heating capacity		min~nom~max	kW	1.4~4.1~5.0	0.90~6.00~7.00	0.90~7.20~8.00	8.00 (nom)	11.20 (nom)	14.00 (nom)
Nominal input	cooling	min~nom~max	kW	0.30~1.21~1.50	0.45~1.83~2.02	0.44~2.15~2.23	2.46 (nom)	3.15 (nom)	4.45 (nom.)
	heating	min~nom~max	kW	0.29~1.18~1.62	0.36~2.05~2.45	0.40~2.49~2.75	2.67 (nom)	3.60 (nom.)	4.50 (nom.)
EER				2.81	2.73	2.65	2.89	3.17	2.81
COP				3.47	2.93	2.89	3.00	3.11	3.11
Energy label	cooling			C	D	D	C	B	C
	heating			B	D	D	D	D	D
Annual energy consumption	cooling		kWh	605	915	1,075	1,230	1,575	2,225

HEAT PUMP - NON INVERTER (air cooled)				FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
				RQ71B7V3B/W1B	RQ100B7V3B/W1B	RQ125B7W1B
Cooling capacity		nominal	kW	7.10	9.80	12.20
Heating capacity		nominal	kW	8.00	11.20	14.50
Nominal input	cooling	nominal	kW	2.70/2.65	3.75/3.68	4.50
	heating	nominal	kW	2.85/2.80	4.13/4.01	5.16
EER				2.63/2.68	2.61/2.66	2.71
COP				2.81/2.86	2.71/2.79	2.81
Energy label	cooling			D/D	D/D	D
	heating			D/D	E/E	D
Annual energy consumption	cooling		kWh	1,350/1,325	1,875/1,840	2,250

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 full load (= nominal capacity).

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	11.20	3.57	12.50	4.01
RMXS140D*	8	14.00	5.23	16.00	5.31
RMXS160D*	9	15.50	5.55	17.50	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.

TWIN/TRIPLE/DOUBLE TWIN APPLICATION	FHQ35BUV1B	FHQ50BUV1B	FHQ60BUV1B	FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
RR/RQ71	2					
RR/RQ100	3	2				
RR/RQ125		3	2			
RZQ71	2					
RZQ100	3	2				
RZQ125	4	3	2			
RZQ140	4	3		2		
RZQ200		4	3	3	2	
RZQ250			4			2

Specifications indoor units

COOLING ONLY/HEAT PUMP				FHQ35BUV1	FHQ50BUV1	FHQ60BUV1	FHQ71BUV1B	FHQ100BUV1B	FHQ125BUV1B
Dimensions		HxWxD	mm	195x960x680		195x1,160x680		195x1,400x680	195x1,590x680
Weight			kg	24	25	27		32	35
Casing colour				White					
Air flow rate	cooling	H/L	m^3/min	13/10	13/10	17/13	17/14	24/20	30/25
	heating	H/L	m^3/min	13/10	13/10	16/13	17/14	24/20	30/25
Fan speed				2 steps					
Sound pressure level	cooling	H/L	dB(A)	37/32	38/33	39/33	39/35	42/37	44/39
	heating	H/L	dB(A)	37/32	38/33	39/33	39/35	42/37	44/39
Sound power level	cooling	H/L	dB(A)	53/48	54/49	55/49	55/51	58/53	60/55
	heating	H/L	dB(A)	53/48	54/49	55/49	55/51	58/53	60/55
Piping connections		liquid	mm	ø6.4			ø9.5		
		gas	mm	ø9.5	ø12.7		ø15.9		
		drain (VP20)	ID mm	ø20					
			OD mm	ø26					
Heat insulation				Both liquid and gas pipes					

Indoor units: FHQ-BU

FHQ35,50BUV1

FHQ60,71BUV1

Specifications outdoor units

COOLING ONLY - INVERTER CONTROLLED				RKS35DVMB	RKS50BVMB9	RKS60BVMB9
Dimensions		HxWxD	mm	550x765x285	735x825x300	
Weight			kg	32	49	53
Casing colour				Ivory white		
Sound pressure level		H/L	dB(A)	47/44	47/-	49/-
Sound power level		H	dB(A)	62	63	64
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				RS50BVMB	RS60BVMB	RR71B7V3B/W1B	RR100B7V3B/W1B	RR125B7W1B
Dimensions		HxWxD	mm	735x825x300		770x900x320	1,170x900x320	
Weight			kg	49	53	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)	63	64	63	66	67
Compressor				Swing compressor		hermetically sealed scroll type		
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 length 90)		
Maximum level difference			m	20		30		
Operation range		from ~ to	°CDB	+10~46		-15~46		

HEAT PUMP - INVERTER CONTROLLED				RXS35DVMB	RXS50BVMB	RXS60BVMB	RZQ71B8V3B	RZQ100B8V3B/B7W1B	RZQ125B8V3B/B7W1B
Dimensions		HxWxD	mm	550x765x285	735x825x300		770x900x320	1,345x900x320	
Weight			kg	32	49	53	68	106	
Casing colour				Ivory white			Ivory white		
Sound pressure level	cooling	H/L	dB(A)	47/44	47/-	49/-	47(43)	49(45)	50(45)
(night quiet mode)	heating	H/L	dB(A)	48/45	48/-	49/-	49/-	51/-	52/-
Sound power level	cooling	H	dB(A)	62	63	64	63	65	66
	heating	H	dB(A)	63	64	64	-	-	-
Compressor				Hermetically sealed swing			Herm. sealed swing	hermetically sealed scroll type	
Refrigerant type				R-410A			R-410A		
Refrigerant charge			kg/m	0.02 (for piping length > 10m)			2.8 (for 30m)	4.3 (for 30m)	
Maximum piping length			m	20	30		50 (equiv. length 70)	75 (equivalent length 95)	
Maximum level difference			m	15	20		5		
Operation range	cooling	from ~ to	°CDB	-10~46			-15~50		
	heating	from ~ to	°CWB	-15~20			-20~15.5		

HEAT PUMP - NON INVERTER				RQ71B7V3B/W1B	RQ100B7V3B/W1B	RQ125B7W1B
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 sealed scroll type		
Refrigerant type				R-410A		
Refrigerant charge			kg/m	2.70	3.70	3.70
Maximum piping length			m	70 (equivalent length 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		FHQ35BU	FHQ50BU	FHQ60BU	FHQ71BU	FHQ100BU	FHQ125BU
Wired remote control		BRC1D527					
Infrared remote control	cooling only	BRC7E66					
	heat pump	BRC7E63W					
Centralised remote control		DCS302C51					
Unified ON/OFF control		DCS301B51					
Schedule timer		DST301B51					
Adapter for wiring		KRP1B54					
Adapter for external ON/OFF and monitoring (1)		KRP4A52					
Adapter for wiring (hour meter) (2)		EKRP1B2			-		
Interface adapter for Sky Air		DTA112B51					
Installation box for adapter PCB		KRP1C93					
Remote ON/OFF, forced OFF		EKRORO					

(1) Installation box for adapter PCB (KRP1C93) is necesarry
(2) Possibility to connect an hour meter (field supply). This part should not be installed inside the equipment

Accessories

INDOOR UNITS	FHQ35BU	FHQ50BU	FHQ60BU	FHQ71BU	FHQ100BU	FHQ125BU
Replacement long-life filter	KAFJ501D56		KAFJ501D80		KAFJ501D112	KAFJ501D160
Drain-up kit	KDU50M60VE			KDU50M125VE		
L-type piping kit (upward direction)	KHFP5M35	KHFP5M63		KHFP5M160		

Accessories

OUTDOOR UNITS		RKS/RXS35D	RS/RKS/RXS50B	RS/RKS/RXS60B			
Air direction adjustment grille		KRW937A4	KPW945A4				
Central drain plug		KKP937A4	-	-			
OUTDOOR UNITS		**RR/RQ71B7**	**RR/RQ100B7**	**RR/RQ125B7**	**RZQ71B**	**RZQ100B**	**RZQ125B**
Central drain plug		KKPJ5F180			KKPJ5F180		
Refrigerant branch piping	for twin	KHRQ22M20TA7			KHRQ22M20TA7		
	for triple	-	KHRQ127H7		-	KHRQ127H7	
	for double twin				-	-	KHRQ22M20TA7 (x3)
Demand adapter kit	remote control of sound reduction and power input	-	-	-	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 via a microphone at a certain distance from the unit (for measuring conditions: please refer to the technical data books).
7) The sound power level is an absolute value indicating the "power" which a sound source generated.

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. Multi units are Eurovent certified for combinations up to 2 indoor units.

Specifications are subject to change without prior notice.

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