DAIKIN

AIR CONDITIONING

Daikin air conditioners for shops, restaurants and offices

CEILING SUSPENDED UNIT

R-410A

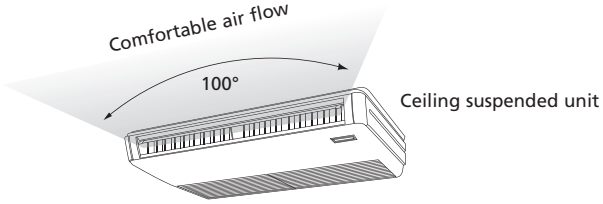
www.daikin.eu

FHQ-B

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

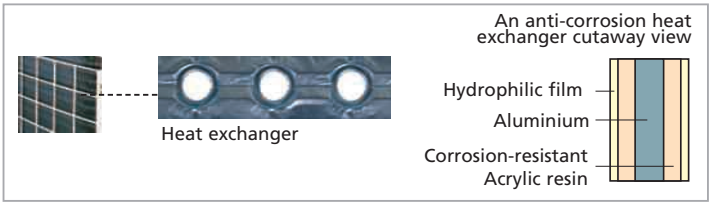
- Air flow distribution for **ceiling heights** up to 3.8m without loss of capacity.
- The ceiling suspended unit ensures you a **comfortable air flow** in all directions thanks to an air flow pattern of 100°.



- 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

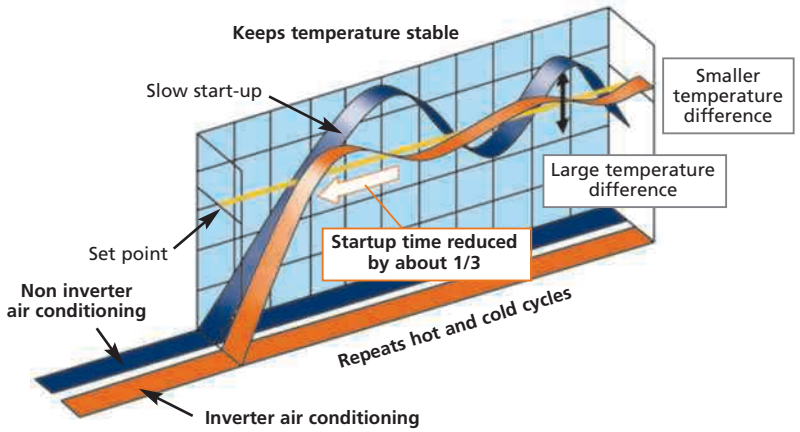
Infrared remote control (Optional)

Wired remote control (Optional)

ENERGY EFFICIENT

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

- **Inverter technology** :
  1. 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.



  2. Improved comfort:
     The rapid start up time provided by the inverter increases **comfort** by reducing the lead time in obtaining the required indoor temperature. Once 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)				FHQ35B RKS35E	FHQ50B RKS50F	FHQ60B RKS60F
Cooling capacity		min~nom~max	kW	1.4~3.4~3.7	1.7~5.0~5.6	1.7~5.7~6.0
Nominal input		min~nom~max	kW	1.05(nom)	1.83(nom)	2.15(nom)
EER				3.24	2.73	2.65
Energy label				A	D	E
Annual energy consumption	cooling		kWh	525	915	1,075

COOLING ONLY - NON INVERTER (air cooled)				FHQ50B RN50E	FHQ60B RN60E	FHQ71B RR71BV3/W1	FHQ100B RR100BV3/W1	FHQ125B RR125BW1
Cooling capacity		nominal	kW	5.0	5.7	7.1	9.8	12.2
Nominal input		nominal	kW	1.83	2.15	2.7/2.65	3.75/3.68	4.51
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	2,255

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FHQ35B RXS35E	FHQ50B RXS50F	FHQ60B RXS60F
Cooling capacity		min~nom~max	kW	1.4~3.4~3.7	1.7~5.0~5.6	1.7~5.7~6.0
Heating capacity		min~nom~max	kW	1.4~4.0~5.0	0.9~1.7~7.0	1.7~7.2~8.0
Nominal input	cooling	min~nom~max	kW	1.05	1.83	2.15
	heating	min~nom~max	kW	1.11	2.05	2.49
EER				3.24	2.73	2.65
COP				3.60	2.93	2.89
Energy label	cooling			A	D	D
	heating			B	D	D
Annual energy consumption	cooling		kWh	525	915	1,075

HEAT PUMP - INVERTER CONTROLLED (air cooled)				FHQ71B RZQS71BV3	FHQ100B RZQS100BV3	FHQ125B RZQS125CV1	FHQ71B RZQ71B8V3	FHQ100B RZQ100CV1/BW1	FHQ125B RZQ125CV1/BW1
Cooling capacity		nominal	kW	7.1	10.0	12.5	7.1	10.0	12.5
Heating capacity		nominal	kW	8.0	11.2	14.0	8.0	11.2	14.0
Nominal input	cooling	nominal	kW	2.53	4.15	4.58	2.46	3.30/3.15	4.45/4.45
	heating	nominal	kW	2.84	3.99	4.96	2.67	3.49/3.60	4.36/4.50
EER				2.81	2.41	2.73	2.89	3.03/3.17	2.81/2.81
COP				2.82	2.81	2.82	3.00	3.21/3.11	3.21/3.11
Energy label	cooling			C	E	D	A	B/B	C/C
	heating			D	D	D	D	C/D	C/D
Annual energy consumption	cooling		kWh	1,265	2,075	2,290	1,230	1,650/1,575	2,225/2,225

HEAT PUMP - NON INVERTER (air cooled)				FHQ71B RQ71BV3/W1	FHQ100B RQ100BV3/W1	FHQ125B RQ125BW1
Cooling capacity		nominal	kW	7.1	9.8	12.2
Heating capacity		nominal	kW	8.0	11.2	14.5
Nominal input	cooling	nominal	kW	2.7/2.65	3.75/3.68	4.51
	heating	nominal	kW	2.85/2.8	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	2,255

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).

POSSIBLE COMBINATIONS MULTI - COOLING ONLY			4MKS58E (1)	4MKS75F (1)	5MKS90E (1)
Max. n° of indoor units			4	4	5
Cooling only		FHQ35B	●	●	●
		FHQ50B	●	●	●
		FHQ60B		●	●
Max. cooling capacity		kW	7.30	9.33	10.50
Max. PI cooling		kW	2.24	3.06	3.98

POSSIBLE COMBINATIONS MULTI - HEAT PUMP			3MXS52E* (1)	4MXS68F* (1)	4MXS80E* (1)	5MXS90E* (1)	RMXS112E*	RMXS140E*	RMXS160E*
Max. n° of indoor units			3	4	4	5	7	8	9
Heat pump		FHQ35B	●	●	●	●	●	●	●
		FHQ50B	●	●	●	●	●	●	●
		FHQ60B		●	●	●	●	●	●
Max. cooling capacity		kW	7.30	8.73	9.60	10.50	11.2	14.0	15.5
Max. heating capacity		kW	8.30	10.68	11.00	11.50	12.5	16.0	17.5
Max. PI cooling		kW	2.25	2.95	3.56	4.01	3.50	5.09	5.40
Max PI heating		kW	2.51	2.58	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 (35 class) /E (50, 60 class) series.
*At least two indoor units should be connected to these multi outdoor units.
(2) For more detailed information, please consult our multi model/combination tables catalogue or your local dealer.

TWIN/TRIPLE/DOUBLE TWIN APPLICATION	FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
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			
RZQ(S)140	4	3		2		
RZQ200		4	3	3	2	
RZQ250			4			2

Specifications indoor units

COOLING ONLY/HEAT PUMP				FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
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
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-B

FHQ35,50B

FHQ60,71B

Specifications outdoor units

COOLING ONLY - INVERTER CONTROLLED			RKS35E	RKS50F	RKS60F
Dimensions	HxWxD	mm	550x765x285	735x825x300	
Weight		kg	32	48	
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		type	Hermetically sealed swing		
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	-10~46	

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		Daikin white		
Sound pressure level	H	dB(A)	47	49	50	53	53
Sound power level	H	dB(A)	61	63	63	66	67
Compressor		type	Swing compressor		Hermetically sealed scroll compessor		
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		

Specifications outdoor units

HEAT PUMP - INVERTER CONTROLLED				RXS35E	RXS50F	RXS60F
Dimensions		HxWxD	mm	550x765x285	735x825x300	
Weight			kg	32	48	
Casing colour				Ivory white		
Sound pressure level (night quiet mode)	cooling	H/L	dB(A)	47/44	47/44	49/46
	heating	H/L	dB(A)	48/45	48/45	49/46
Sound power level	cooling	H	dB(A)	62	61	63
Compressor			type	Hermetically sealed swing		
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	cooling	from ~ to	°CDB	-10~46		
	heating	from ~ to	°CWB	-15~20	-15~18	

HEAT PUMP - INVERTER CONTROLLED				RZQS71BV3	RZQS100BV3	RZQS125CV1
Dimensions		HxWxD	mm	770x900x320		1,170x900x320
Weight			kg	68		103
Casing colour				Ivory white		
Sound pressure level (night quiet mode)	cooling	H	dB(A)	49 (43)	51 (45)	51(49)
	heating	H	dB(A)	51	55	53
Sound power level	cooling	H	dB(A)	65	67	67
Compressor			type	Hermetically sealed swing		Herm. sealed scroll
Refrigerant type				R-410A		
Refrigerant charge			kg/m	2.8		3.7
Maximum piping length			m	30 (equivalent length 40)	50 (equivalent length 70)	50 (equivalent length 95)
Maximum level difference			m	15	30	
Operation range	cooling	from ~ to	°CDB	-5~46		
	heating	from ~ to	°CWB	-15~15.5		

HEAT PUMP - NON INVERTER				RZQ71B8V3	RZQ100CV1	RZQ100BW1	RZQ125CV1	RZQ125BW1
Dimensions		HxWxD	mm	770x900x320	1,170x900x320	1,345x900x320	1,170x900x320	1,345x900x320
Weight			kg	68	103	106	103	106
Casing colour				Ivory white				
Sound pressure level (night quiet mode)	cooling	H	dB(A)	47(43)	49(45)	49(45)	50(45)	50(45)
	heating	H	dB(A)	49	51	51	52	52
Sound power level	cooling	H	dB(A)	63	65	65	66	66
Compressor			type	Herm. sealed swing	Hermetically sealed scroll			
Refrigerant type				R-410A				
Refrigerant charge			kg/m	2.8	3.7	4.3	3.7	4.3
Maximum piping length			m	50 (equivalent length 70)	75 (equivalent length 70)	75 (equivalent length 95)		
Maximum level difference			m	30				
Operation range	cooling	from ~ to	°CDB	-15~50		-5~46		
	heating	from ~ to	°CWB	-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				Daikin white		
Sound pressure level	cooling	H	dB(A)	50	53	53
Sound power level	cooling	H	dB(A)	63	66	67
Compressor			type	Hermetically sealed scroll		
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		

Accessories: control systems

INDOOR UNITS		FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
Wired remote control		BRC1D52					
Infrared remote control	cooling only	BRC7E66					
	heat pump	BRC7E63					
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

INDOOR UNITS	FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
Replacement long-life filter	KAF501DA56		KAFJ501DA80		KAF501DA112	KAF501DA160
Drain-up kit	KDU50M60			KDU50M125		
L-type piping kit (upward direction)	KHFP5M35	KHFP5M63		KHFP5MA160		

Accessories: outdoor units

OUTDOOR UNITS	RKS/RXS35E	RN50E-RKS/RXS50F	RN60E-RKS/RXS60F
Air direction adjustment grille	KRW937A4	KPW945A4	
Central drain plug	KKP937A4	-	-

OUTDOOR UNITS		RR/RQ71B	RR/RQ100B	RR/RQ125B	RZQ(S)71B	RZQ(S)100B/C	RZQ(S)125B/C
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 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 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. Multi units are Eurovent certified for combinations up to 2 indoor units.

Daikin products are distributed by:

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