



AIR CONDITIONERS, HEATING & COOLING

*for shops, restaurants and offices*

CEILING SUSPENDED UNIT

air to air heat pumps



[www.daikin.eu](http://www.daikin.eu)



FHQ-B

# PERFECT CONTROL OVER INDOOR CLIMATE AND AIR FLOW

In a healthy indoor climate, with a comfortable temperature and air humidity, your staff and customers feel comfortable in their skin. In other words, employees who are more productive and who have fewer health problems. And customers who spend more time in your business and gladly come back.

In addition, there is the benefit that the Daikin heat pump air conditioners - that heat and cool - can provide for a comfortable heat immediately. This type of air conditioner is an affordable alternative to the traditional heating systems fueled by gas or oil. As a leading manufacturer of air conditioning systems for the retail market, Daikin can meet all your specific requirements when it comes to temperature and air quality.

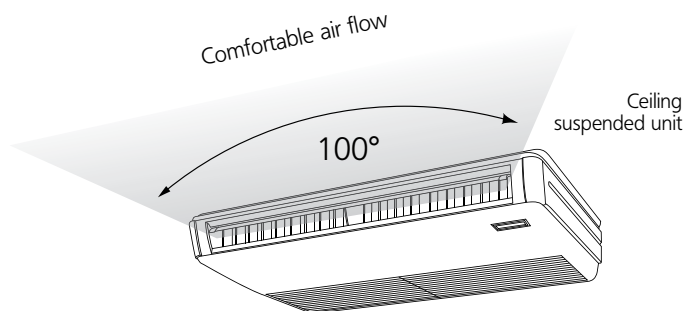
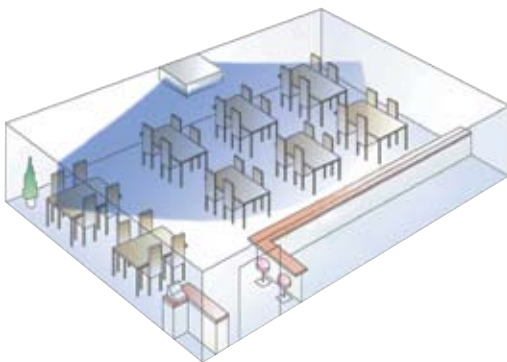
## LARGE RANGE FOR LARGE SPACES

- » **The efficient solution for larger, busy rooms.**
- » **Wider air discharge thanks to Coanda effect: up to 100°**

The ceiling suspended units by Daikin are the perfect solution for office, shop, restaurant and hotel spaces without false ceilings. Since the units are mounted on the ceiling, they do not take up any space on the wall or floor. The FHQ-B indoor units are the obvious choice for large spaces thank to their great range.

## ALL COMFORT FUNCTIONS FOR A HEALTHY INDOOR CLIMATE

- » **Ceiling heights up to 3.8m:**  
Air flow distribution for ceiling heights up to 3.8m without loss of capacity.



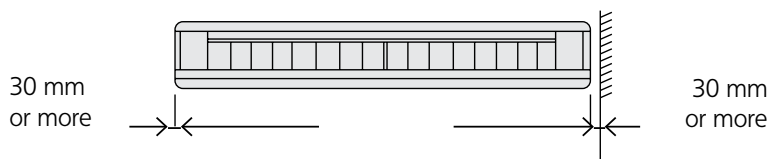
- » **Air flow configuration of 100°**  
The ceiling suspended unit ensures you a **comfortable air flow** in all directions thanks to an air flow pattern of 100°.

- > **Air filter**  
A built-in filter permanently clears the air of microscopically small dust particles.



## FLEXIBLE INSTALLATION, SIMPLE MAINTENANCE

- > Thanks to the small maintenance room on the side, the FHQ-B ceiling suspended unit can also be installed in corners and small spaces on ceilings and walls.



- > The **outdoor unit** can be installed on the roof, terrace or against an outside wall.

## SUPER COMPLETE REMOTE CONTROL

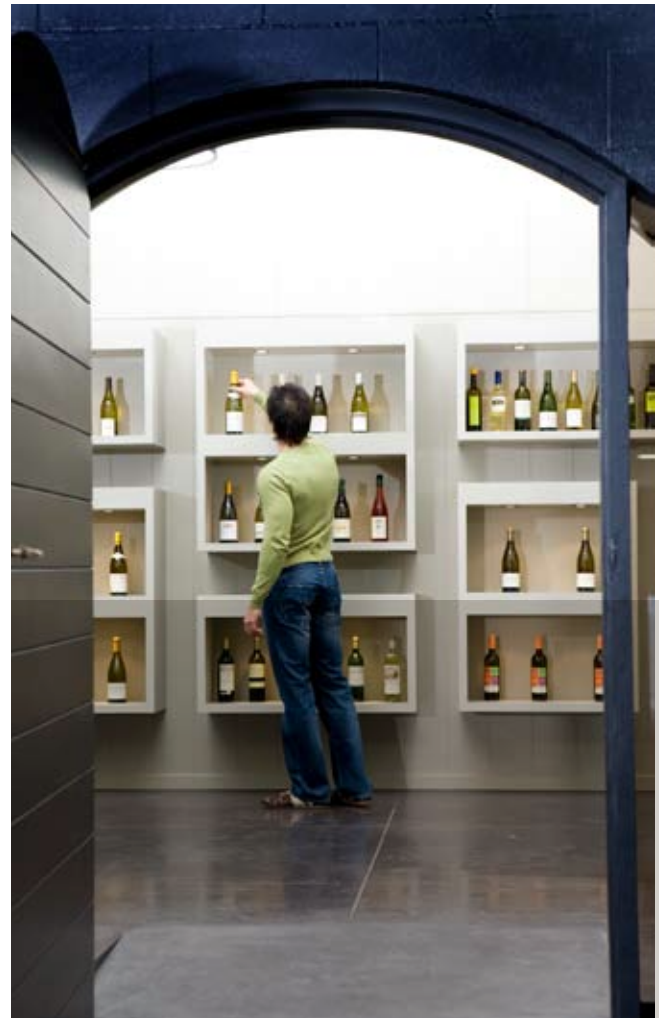
- > With the **infrared remote control** the simple operation of your Daikin air conditioner is always at your fingertips.
- > The **wired remote control (optional)** has a programmable timer for daytime or weekly programmer of the air conditioner.
- > With the **optional ON/OFF function**, the air conditioner can be switched on and off remotely with a mobile phone. With this function you can also make the unit switch off automatically, e.g. when someone opens a window.



Infrared remote control (Optional)



Wired remote control (Optional)



Balanced air treatment has an undeniable effect on the condition of body and mind.

A Daikin air conditioner is more than a sound investment, that is also earned back through better work performance and low energy costs.

Depending on your needs, the appropriate outdoor unit is combined with indoor units of choice.

# ENERGY EFFICIENT

> **A** Energy label: Up to class A

## > Inverter technology

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:

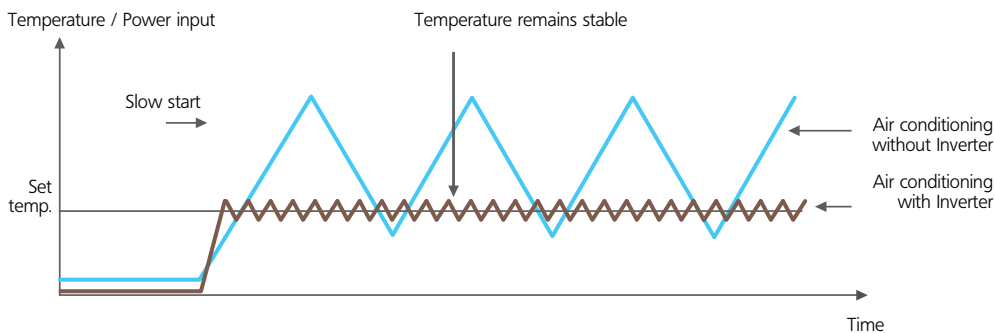
### 1. Comfort

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!

#### Heating operation:



## > Home leave operation

In case of extended absence, this function helps to save energy. If there is no one in the area for an extended period, e.g. during holidays or closing days, this function automatically sets the room temperature to a minimum of 10°C. At this point, all connected indoor units will switch over to heating mode. The function will be deactivated as soon as the room temperature reaches 15°C, and it will also have to be switched off when the room is in use again.

# APPLICATION OPTIONS

> Depending on your air conditioning need, you can have your unit either **heat or cool (heat pump)**.

> 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

HEATING & COOLING - INVERTER CONTROLLED				FHQ35B	FHQ50B	FHQ60B
				RXS35G	RXS50G	RXS60F
Cooling capacity	nominal		kW	1.4~3.4~3.7	1.7~5.0~5.6	1.7~5.7~6.0
Heating capacity		nominal	kW	1.2~4.0~5.0	1.7~6.0~7.0	1.7~7.2~8.0
Nominal input	cooling	nominal	kW	1.05	0.44~1.83~2.02	2.15
	heating	nominal	kW	1.11	0.40~2.05~2.45	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

HEATING & COOLING - INVERTER CONTROLLED				FHQ71B	FHQ100B	FHQ125B
				RZQS71DV1	RZQS100DV1	RZQS125DV1
Cooling capacity	nominal		kW	7.1	10.0	12.5
Heating capacity		nominal	kW	8.0	11.2	14.0
Nominal input	cooling	nominal	kW	2.51	3.56	4.55
	heating	nominal	kW	2.75	3.85	4.86
EER				2.83	2.81	2.75
COP				2.91	2.91	2.88
Energy label	cooling			C	C	D
	heating			D	D	D
Annual energy consumption	cooling		kWh	1,254	1,779	2,273

HEATING & COOLING - INVERTER CONTROLLED				FHQ71B	FHQ100B	FHQ100B	FHQ125B	FHQ125B
				RZQ71DV1	RZQ100DV1	RZQ100BW1	RZQ125DV1	RZQ125BW1
Cooling capacity	nominal		kW	7.1	10.0	10.0	12.5	12.5
Heating capacity		nominal	kW	8.0	11.2	11.2	14.0	14.0
Nominal input	cooling	nominal	kW	2.34	3.14	3.15	4.24	4.45
	heating	nominal	kW	2.58	3.43	3.60	4.28	4.50
EER				3.03	3.18	3.17	2.95	2.81
COP				3.10	3.27	3.11	3.27	3.11
Energy label	cooling			B	B	B	C	C
	heating			D	B	D	C	D
Annual energy consumption	cooling		kWh	1,172	1,572	1,575	2,119	2,225

Notes:

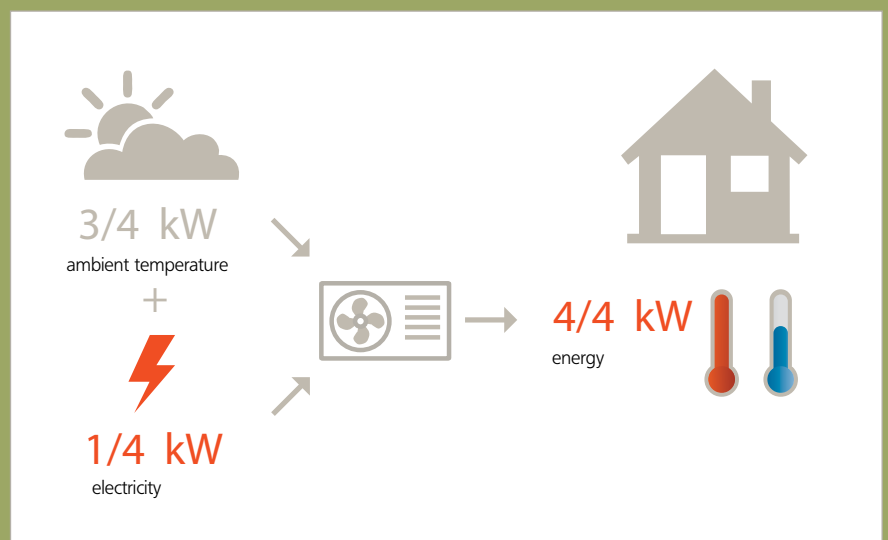
1) Energy label: scale from A (most efficient) to G (less efficient).

2) Annual energy consumption: based on average use of 500 running hours per year full load (= nominal capacity).

## DID YOU KNOW *that ...*



Air to air heat pumps use 3/4th of energy from renewable sources: the ambient air. This energy source is renewable and inexhaustible\*. Of course, heat pumps also use 1/4th of electricity to transform the ambient air into comfort heat, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass). \* EU objective COM (2008)/30



Height	195 mm
Width	960 mm
Depth	680 mm

Height	1,345 mm
Width	900 mm
Depth	320 mm



Indoor unit  
FHQ-B



Outdoor unit  
RZQ125-DV1

POSSIBLE COMBINATIONS MULTI		3MXS52E* (2)	3MXS68G*(1)	4MXS68F* (3)	4MXS80E* (4)	5MXS90E* (4)	RMXS112E*	RMXS140E*	RMXS160E*
Max. n° of indoor units		3	3	4	4	5	7	8	9
Heating & cooling	FHQ35B								
	FHQ50B	•	•	•	•	•	•	•	•
	FHQ60B		•	•	•	•	•	•	•
Max. cooling capacity	kW	7.30	8.73	8.73	9.50	10.50	11.2	14.0	15.5
Max. heating capacity	kW	8.30	10.63	10.68	11.00	11.50	12.5	16.0	17.5
Max. PI cooling	kW	2.25	3.33	2.95	3.56	4.01	3.50	5.09	5.40
Max PI heating	kW	2.51	3.30	2.58	3.11	3.46	3.93	5.21	5.43

- For more detailed information, please consult our multi model/combination tables catalogue or your local dealer
  - (1) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted G (20,25,35,42,50 class) / F (60 class) series
  - (2) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (20,25,35 class) / E (50 class) series
  - (3) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (20,25,35,50 class) / F (60,71 class) series
  - (4) The indicated cooling, heating capacities and power input are indicative and are those connected to wall mounted D (20,25,35,50 class) / E (60,71 class) series
- \* At least two indoor units should be connected to these multi outdoor units

TWIN/TRIPLE/DOUBLE TWIN APPLICATION	FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
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

HEATING & COOLING			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 <sup>3</sup> /min	13/10	13/10	17/13	17/14	24/20	30/25
	heating	H/L	m <sup>3</sup> /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			Foamed polystyrene/foamed polyethylene						



## SPECIFICATIONS OUTDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED				RXS35G	RXS50G	RXS60F		
Dimensions		HxWxD	mm	550x765x285	735x825x300			
Weight			kg	34	48	48		
Casing colour		Ivory white						
Sound pressure level (night quiet mode)	cooling	H/L	dB(A)	48 / 44	48 / 44	49 / 46		
	heating	H/L	dB(A)	48 / 45	48 / 45	49 / 46		
Sound power level	cooling	H	dB(A)	63	62	63		
Compressor		type						
Refrigerant type		Hermetically sealed swing						
Refrigerant charge		kg/m						
Maximum piping length		m						
Maximum level difference		m						
Operation range	cooling	from ~ to	°CDB	-10~46				
	heating	from ~ to	°CWB	-15~20	-15~18			
HEATING & COOLING - INVERTER CONTROLLED				RZQS71DV1	RZQS100DV1	RZQS125DV1		
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 (47)	51 (49)			
	heating	H	dB(A)	51	55	53		
Sound power level	cooling	H	dB(A)	65	67			
Compressor		type						
Refrigerant type		Hermetically sealed swing						
Refrigerant charge		kg/m						
Maximum piping length		m						
Maximum level difference		m						
Operation range	cooling	from ~ to	°CDB	-5~46				
	heating	from ~ to	°CWB	-15~15.5				
HEATING & COOLING - INVERTER CONTROLLED				RZQ71DV1	RZQ100DV1	RZQ100BW1	RZQ125DV1	RZQ125BW1
Dimensions		HxWxD	mm	770x900x320	1,345x900x320	1,345x900x320	1,345x900x340	1,345x900x320
Weight			kg	67	109	106	109	106
Casing colour		Ivory white						
Sound pressure level (night quiet mode)	cooling	H	dB(A)	48 (43)	50 (45)	49 (45)	51 (45)	50 (45)
	heating	H	dB(A)	50	52	51	53	52
Sound power level	cooling	H	dB(A)	64	65	65	67	66
Compressor		type						
Refrigerant type		Herm. sealed swing						
Refrigerant charge		kg/m						
Maximum piping length		m						
Maximum level difference		m						
Operation range	cooling	from ~ to	°CDB	-15~50				
	heating	from ~ to	°CWB	-20~15.5				

## ACCESSORIES: CONTROL SYSTEMS

INDOOR UNITS	FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
Wired remote control				BRC1D52		
Infrared remote control				BRC7EA63		
Centralised remote control				DCS302CA51		
Unified ON/OFF control				DCS301BA51		
Schedule timer				DST301BA51		
Adapter for wiring				KRP1BA51		
Adapter for external ON/OFF and monitoring (1)				KRP4AA52		
Interface adapter for Sky Air				DTA112BA51		
Installation box for adapter PCB				KRP1CA93		
Remote sensor		-			KRCS01-1A	
Remote on/ODD, forced OFF		-			EKROROA	
Electrical box with earth terminal (3 blocks)		-			KJB311AA	
Electrical box with earth terminal (2 blocks)		-			KJB212AA	

Note: 1) Installation box for adapter PCB (KRP1CA93) is necessary.

## ACCESSORIES: INDOOR UNITS

INDOOR UNITS	FHQ35B	FHQ50B	FHQ60B	FHQ71B	FHQ100B	FHQ125B
Replacement long-life filter		KAF501DA56		KAF501DA80	KAF501DA112	KAF501DA160
Drain-up kit				KDU50N60VE		KDU50N125VE
L-type piping kit (upward direction)	KHFP5MA35		KHFP5MA63			KHFP5MA160

## ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS	RXS35G	RXS50G	RXS60F
Air direction adjustment grille	KRW937AA4		KPW945AA4
Central drain plug	KKP937A4	-	-
OUTDOOR UNITS	RZQ(S)71D	RZQ(S)100B/D	RZQ(S)125B/D
Central drain plug		EKDK04	
Refrigerant branch piping	for twin	KHRQ22M20TA8	
	for triple	-	KHRQ127H8
	for double twin	-	KHRQ22M20TA8 (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.



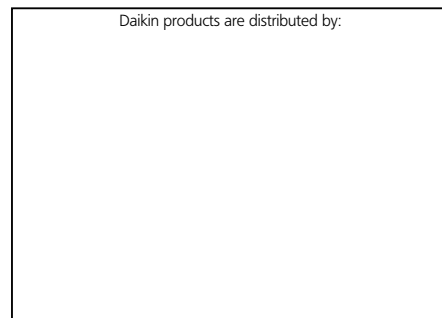
Daikin units comply with the European regulations that guarantee the safety of the product.



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.

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