



AIR CONDITIONERS, HEATING & COOLING

*for the retailmarket and offices*

FLOOR STANDING UNIT

air to air heat pumps



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



FVQ-B

## MAXIMUM RELIABILITY, MINIMUM ENERGY USE

Advanced climate systems in modern office buildings and shops are not a luxury anymore. On the one hand, the increase in electrical equipment - and the heat they put off - has caused a sharp increase in demand for cooling. On the other hand, given our climate, there is still a need for comfortable heating.

The current Daikin air conditioning systems can barely be heard and are energy efficient. Systems with a heat pump even render central heating superfluous and ensure lower heating costs.



## EFFICIENCY FOR ROOMS WITH A HIGH CEILING

- » **Flexible and easy installation**
- » **Standard wired remote control**

The Sky Air FVQ models by Daikin were especially designed for flexible, easy installation in shops and offices with high ceilings. They work particularly efficiently and quietly. They also are fitted with a durable, low-maintenance filter system.

GIVEN THE RISING PRICES OF ENERGY

BECAUSE OF THE ENVIRONMENT AND

THE LEGAL REQUIREMENTS,

THE DEMAND FOR ENERGY-EFFICIENT

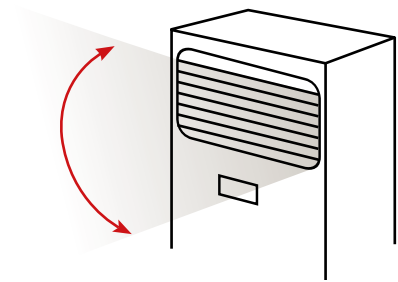
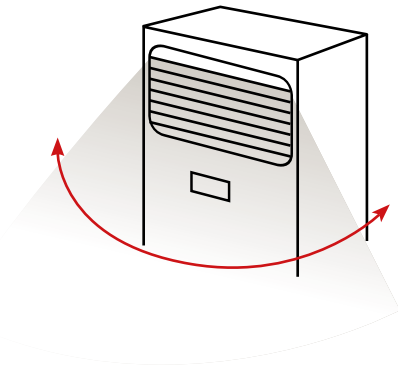
HEATING SYSTEMS SUCH AS THE

DAIKIN HEAT PUMP AIR CONDITIONERS.

# HIGH COMFORT PERFORMANCE FOR A HEALTHY INDOOR CLIMATE

## › **Auto swing**

The horizontal autoswing moves the streamlined flaps automatically left and right to supply the entire room with cool or warm air. The flaps move relatively slowly, at a speed of 2 to 3 full strokes per minute. The vertical autoswing can be set manually depending on the cooling or heating needs in irregularly shaped rooms



## › **Quiet in operation**

These units are quiet in operation with sound levels as low as 36dB(A), comparable to a quiet room.

## › **Year-round cooling**

It is possible, even in winter, for cooling to be provided **efficiently**, even when the indoor temperature is higher than the outdoor temperature – for example in an office having many computers.

# FLEXIBLE AND EASY INSTALLATION

- › The **indoor unit** has a durable filter system. A 'filter symbol' on the remote control automatically indicates when the filter needs to be replaced.
- › The **outdoor unit** can be installed on the roof, terrace or against an outside wall.



RZQS125

## SUPER COMPLETE REMOTE CONTROL

- › Daikin **remote controls** give you easy control at your fingertips.
- › The front of the indoor unit has a wired remote control, standard. The LCD control panel can be removed and used as a remote control, so the indoor unit can be operated from a different room or from behind the counter (a remote control cable is optional).
- › There are two thermo sensors available: one for the indoor unit and one for the wired remote control. The temperature detection can thereby happen closer to the specific room.  
(The thermo-sensor on the indoor unit must be used if the indoor unit is controlled from a different room. An optional remote control must be connected.)
- › The unit can be controlled via two remote controls and can be controlled locally or from a remote location.



Wired remote control (standard)

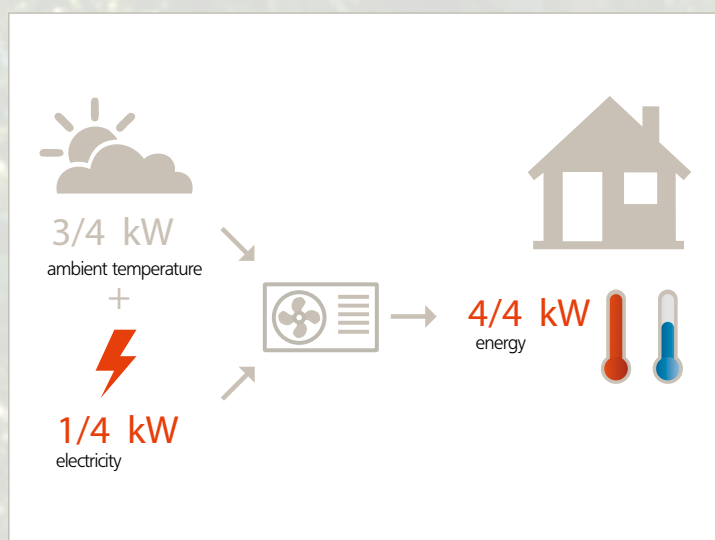
### DID YOU KNOW

*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



# ENERGY EFFICIENT

>  Class C

## > 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:

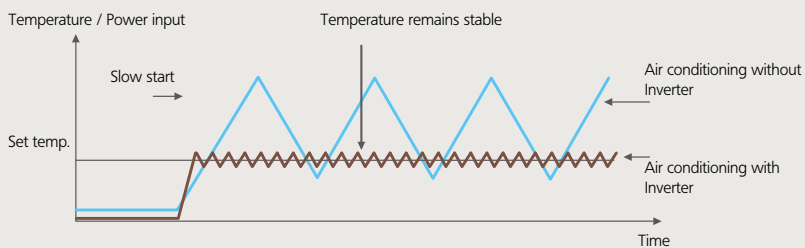
### 1. Comfort

The inverter repays its investment many times over by improving comfort. An air conditioning system fitted with an inverter continuously adjusts its cooling and heating output to suit the temperature requirement in the room. It also 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 efficiency

Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption is reduced by 30% compared to a traditional on/off system!

#### Heating operation:



## APPLICATION OPTIONS

- > Depending on your air conditioning need, you can have your unit either **heat or cool (heat pump)**.
- > The indoor unit can be used in **pair** combination (connecting one indoor to one outdoor unit).





Indoor unit  
FVQ-B

Height	1,850 mm
Width	600 mm
Depth	350 mm



Outdoor unit  
RZQS-DV1

Height	1,170 mm
Width	900 mm
Depth	320 mm

## CAPACITY AND POWER INPUT

HEATING & COOLING - INVERTER CONTROLLED (air cooled)				FVQ71B	FVQ100B	FVQ125B
				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	2.53	3.56	4.45	
	heating	nominal	2.49	3.49	4.36	
EER			3.11	3.11	2.81	
COP			3.41	3.41	3.21	
Energy label	cooling		C	C	C	
	heating		C	C	C	
Annual energy consumption	cooling	kWh	1,265	1,779	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 at full load (=nominal conditions)

## SPECIFICATIONS INDOOR UNITS

HEATING & COOLING				FVQ71B	FVQ100B	FVQ125B
Dimensions	HxWxD	mm		1,850x600x270	1,850x600x350	
Weight		kg		39	46	47
Casing colour					White	
Air flow rate	cooling	H/L	m <sup>3</sup> /min	18/14	28/22	32/25
	heating	H/L	m <sup>3</sup> /min	18/14	28/22	32/25
Sound pressure level	cooling	H/L	dB(A)	42/36	48/42	50/44
	heating	H/L	dB(A)	42/36	48/42	50/44
Sound power level	cooling	H/L	dB(A)	54/48	60/54	62/56
Piping connections	liquid		mm	Ø 9.52		
	gas		mm	Ø 15.9		
	drain		OD mm	I.D.20 / O.D.26		
Heat insulation				Foamed polystyrene / foamed polyethylene		



## SPECIFICATIONS OUTDOOR UNITS

HEAT PUMP - INVERTER CONTROLLED				RZQS71DV1	RZQS100DV1	RZQS125DV1
Dimensions	HxWxD	mm		770x900x320	1,170x900x320	1,170x900x320
Weight		kg		68	103	103
Casing colour				Ivory white		
Sound pressure level (night quiet mode)	cooling	H	dB(A)	49 (47)	51 (49)	51 (49)
	heating	H	dB(A)	51	55	53
Sound power level	cooling	H	dB(A)	65	67	67
Compressor			type	Hermetically sealed scroll		
Refrigerant type				R-410A		
Refrigerant charge			kg/m	2.75	3.7	3.7
Maximum piping length			m	30 (equiv. length 40)	50 (equiv. length 70)	50 (equiv. length 70)
Maximum level difference			m	15	30	30
Operation range	cooling	from ~ to	°CDB	-5 ~ 46		
	heating	from ~ to	°CWB	-15 ~ 15.5		

## ACCESSORIES: INDOOR UNITS

INDOOR UNITS	FVQ71B	FVQ100B	FVQ125B
Replacement long-life filter		KAFJ95L160	
Set back time clock		BRC15A51	
Central remote control		DCS302CA51	
Unified ON/OFF controller		DCS301BA51	
Schedule timer *1		DST301BA51	
Intelligent touch controller *1		DCS601C51	
Remote control for 2 remote control system		BRC1C61	
Adapter for wiring *2		KRP1BA57	
Group control adapter *2		KRP4AA52	
Interface adapter for Sky Air series		DTA112BA51	
Installation box for adapter PCB		KRP4A95	

\*1: Interface adapter for Sky Air series (DTA112BA51) is necessary.

\*2: Installation box for adapter PCB (KRP4A95) is necessary.

## ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS	RZQS71DV1	RZQS100DV1	RZQS125DV1
Central drain plug		EKDK04	
Demand adapter kit		KRP58M51	

1) V1 = 1~, 230V, 50Hz; 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/ 19°CWB • 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.

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