

Air Conditioners

# Heating & Cooling

**SkyAir**<sup>®</sup>

- » Heat pump system
- » Inverter technology
- » Flexible and easy installation
- » Efficiency for rooms with a high ceiling
- » High comfort performance for a healthy indoor climate



FVQ-B

Floor Standing Unit



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

## Maximum reliability, minimum energy use

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

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 rises.



## Combining highest efficiency and year-round comfort with a heat pump system



### Did you know that ...

Air-to-air heat pumps obtain 75% of their output energy from renewable sources: the ambient air, which is both renewable and inexhaustible\*. Of course, heat pumps also require electricity to run the system, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass). A heat pump's efficiency is measured in COP (Coefficient Of Performance) for heating and EER (Energy Efficiency Ratio) for cooling.

\* EU objective COM (2008)/30

## Inverter technology

Daikin's inverter technology is a true innovation in the field 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:

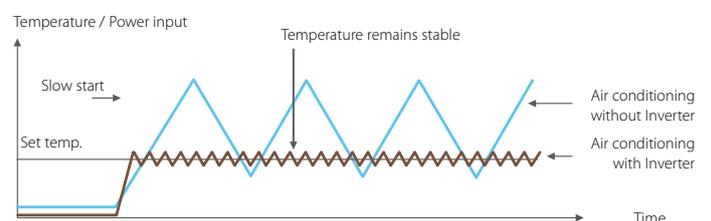
### ► Comfort

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 thus improving comfort levels. The inverter reduces system start-up time enabling the required room temperature to be reached more quickly. As soon as the correct temperature is reached, the inverter ensures that it is constantly maintained.

### ► Energy efficient

Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption drops by 30% compared to a traditional on/off system! (non-inverter).

### Heating operation:



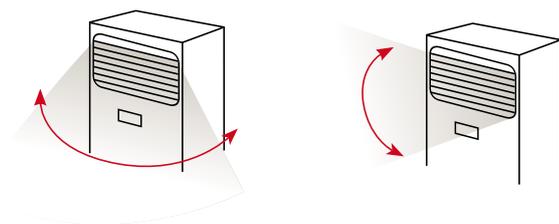
## Efficiency for rooms with a high ceiling

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.

## High comfort performance for a healthy indoor climate

### > **Auto swing**

The horizontal auto swing 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 auto swing can be set manually depending on the cooling or heating needs in irregularly shaped rooms.



## 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.

### > **Quiet in operation**

These units are quiet in operation with sound levels as low as 36dBA, comparable to a quiet room.

### > **Year-round cooling**

- > It is possible to provide **efficient** cooling, even in winter, when the indoor temperature is higher than the outdoor temperature – for example in an office having many computers.

## 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).



Wired remote control (standard)

- > 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.

## 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).

# Heating & Cooling



INDOOR UNIT				FVQ71B	FVQ100B	FVQ125B
Cooling capacity	Nom.		kW	7.1 <sup>3</sup>	10.0 <sup>3</sup>	12.5 <sup>3</sup>
Heating capacity	Nom.		kW	8.0 <sup>4</sup>	11.2 <sup>4</sup>	14.0 <sup>4</sup>
Power input	Cooling	Nom.	kW	2.53	3.56	4.45
	Heating	Nom.	kW	2.49	3.49	4.36
EER				2.81		
COP				3.21		
Annual energy consumption	kWh			1,265	1,779	2,225
Energy label	Cooling/Heating			C/C		
Casing	Colour			White		
Dimensions	Unit	HeightxWidthxDepth	mm	1,850x600x270	1,850x600x350	
Weight	Unit			39	46	47
Fan - Air flow rate	Cooling	High/Low	m <sup>3</sup> /min	18/14	28/22	32/25
	Heating	High/Low	m <sup>3</sup> /min	18/14	28/22	32/25
Sound power level	Cooling	High/Low	dBA	54/48	60/54	62/56
	Heating	High/Low	dBA	54/48	60/54	62/56
Sound pressure level	Cooling	High/Low	dBA	42/36	48/42	50/44
	Heating	High/Low	dBA	42/36	48/42	50/44
Refrigerant	Type			R-410A		
Piping connections	Liquid	OD	mm	9.52		
	Gas	OD	mm	15.9		
	Drain	OD	mm	26		
Power supply	Phase / Frequency / Voltage			1~ / 50 / 220-240		

(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) (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

OUTDOOR UNIT				RZQS71D7V1	RZQS100D7V1	RZQS125D7V1
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320	1,170x900x320	
Weight	Unit			68	103	
Fan - Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	52	96	100
	Heating	Nom.	m <sup>3</sup> /min	48		90
Sound power level	Cooling	Nom.	dBA	65		67
Sound pressure level	Cooling	Nom.	dBA	49		51
	Heating	Nom.	dBA	51	55	53
	Night quiet mode	Level 1	dBA	47		49
Operation range	Cooling	Ambient	Min.~Max. °CDB	-5.0~46		
	Heating	Ambient	Min.~Max. °CWB	-15~-15.5		
Refrigerant	Type			R-410A		
Piping connections	Piping length	Max.	OU - IU	m	30	50
	Level difference	IU - OU	Max.	m	15	30
		IU - IU	Max.	m	0.5	
	Heat insulation	Both liquid and gas pipes				
Total piping length	System	Actual	m		-	
				1~ / 50 / 220-240		



Indoor unit  
FVQ-B



Outdoor unit  
RZQS125DV1



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.



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.



Daikin Europe N.V. participates in the Eurovent Certification programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FCU); 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: