DAIKIN

Air Conditioners

Heating & Cooling

Sky Air®

Floor Standing Unit

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

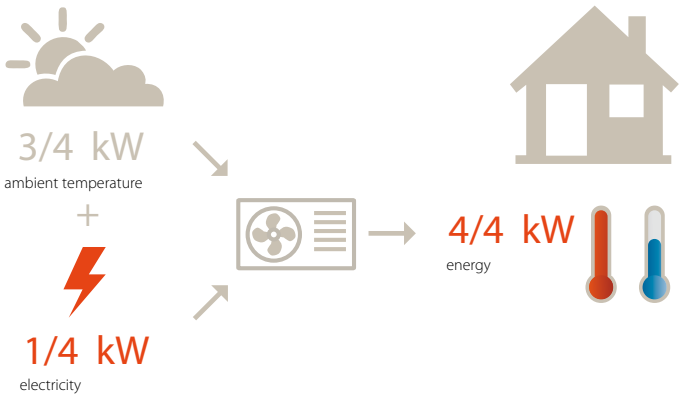
FVQ-B

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 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 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

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:

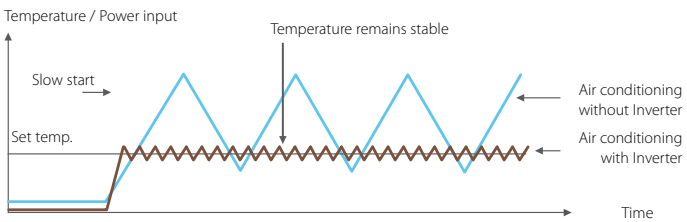
Comfort

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.

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.

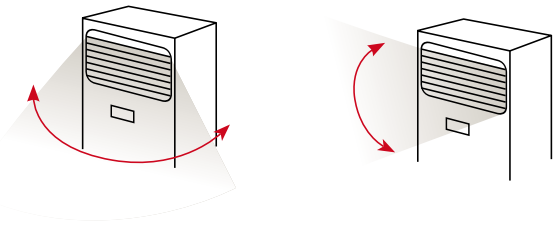
Flexible and Easy installation

> 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.

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 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 36dBA, 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.

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).

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 UNITS					FVQ71B	FVQ100B	FVQ125B
Capacity	cooling	nom.		kW	7.1 [3]	10.0 [3]	12.5 [3]
	heating	nom.		kW	8.0 [4]	11.2 [4]	14.0 [4]
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		
Energy label	cooling/heating				C/C		
Annual energy consumption				kWh	1,265	1,779	2,225
Dimensions	unit	heightxwidthxdepth		mm	1,850x600x270	1,850x600x350	
Weight	unit			kg	39	46	47
Casing	colour				White		
Fan - Air flow rate	cooling	high/low		m^3/min	18/14	28/22	32/25
	heating	high/low		m^3/min	18/14	28/22	32/25
Sound pressure level	cooling	high/low		dBA	42/36	48/42	50/44
	heating	high/low		dBA	42/36	48/42	50/44
Sound power level	cooling	high/low		dBA	54/48	60/54	62/56
	heating	high/low		dBA	54/48	60/54	62/56
Power supply	phase/frequency/voltage			Hz/V	1~/ 50/ 220-240		
Piping connections	liquid	OD		mm	ø 9.52		
	gas	OD		mm	ø15.9		
	drain	OD		mm	ø 26		

(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: 0

OUTDOOR UNITS						RZQS71DV1	RZQS100DV1	RZQS125DV1
Dimensions	unit	heightxwidthxdepth			mm	770x900x320	1,170x900x320	
Weight	unit				kg	68	103	
Operation range	cooling	ambient	min.~max.		°CDB	-5.0~46		
	heating	ambient	min.~max.		°CWB	-15~15.5		
Sound pressure level	cooling	nom.			dBA	49	51	
	heating	nom.			dBA	51	55	53
	night quiet mode	level 1			dBA	47	49	
Sound power level	cooling	nom.			dBA	65	67	
Compressor					model	Hermetically sealed swing	Hermetically sealed scroll	
Refrigerant					type	R-410A		
Power supply	phase/frequency/voltage				Hz/V	1~/50/220-240V		
Piping connections	additional refrigerant charge				kg/m	See installation manual		
	level difference	IU - OU	max.		m	15	30	
		IU - IU	max.		m	0.5		
	piping length	OU - IU	max.		m	30	50	

Indoor unit
FVQ-B

Outdoor unit
RZQS125DV1

In all of us, a green heart

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.

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