ENVi Series

Cooling Only


FTKJ25/ 35/ 42 (white)


FTKJ25/ 35/ 42 (Silver)

Model name	Indoor unit		FTKJ25NVM	FTKJ35NVM	FTKJ42NVM
	Outdoor unit		RKJ25NVMG	RKJ35NVMG	RKJ42NVMG
Capacity		kW	2.5	3.5	4.2
		Btu/h	8,500	11,900	14,300
Power Supply			1 phase, 230 V,50 Hz		
Running Current		A	2.9	4.2	4.4
Power Consumption		W	520	855	1,000
COP		W/W	4.81	4.09	4.2
Indoor Unit			FTKJ25NVM	FTKJ35NVM	FTKJ42NVM
Front panel Colour			White/Silver		
Airflow rate	H	m3/min (cfm)	8.9 (313)	10.9 (385)	
Fan Speed			5 Steps, Quiet, Automatic		
Sound pressure level	H/SL	dB(A)	38/19	45/20	46/32
Dimensions	H x W x D	mm	303 x 998 x 212		
Machine weight		kg	12		
Outdoor Unit			RKJ25NVMG	RKJ35NVMG	RKJ42NVMG
Casing Colour			Ivory White		
Compressor	Type		Hermetically Sealed Swing type		
	Motor Output	W	800		1,300
Refrigerant	Type		R-32		
	Charge	kg	0.9		1.1
Sound pressure level	H/SL	dB(A)	46/43	47/44	48/44
Dimensions	H x W x D	mm	550 x 765 x 285		735 x 825 x 300
Machine weight		kg	34(36)		43(48)
Operation range		CDB	19.4-46		
Piping connection	Liquid	mm	ø6.4		
	Gas		ø9.5		ø12.7
	Drain		ø18.0		
Max. piping length		m	20		30
Max. level difference			15		20

Measurement conditions
1. Capacity is based on : indoor temp. 27 °CDB, 19 °CWB; outdoor temp 35 °CDB; piping length 7.5m.
2. Sound pressure levels are measured in an anechoic chamber based on temperature condition 1 above. These values are normally somewhat higher during actual operation as a result of ambient conditions.
3. The above values are based on operation with a 220 V, 50 Hz power supply

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DAIKIN

ENVi Series

FORM
FUNCTION
REDESIGNED


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winner
Stylish Cool
& Comfort

DISCOVER A NEW WORLD OF INTERIOR DESIGN /

Daikin
ENVi Series
Form Function Redesign

IT'S ALL ABOUT DESIGN

Daikin, not only is the leader of advance energy-saving technologies for air conditioning but also highly focus on the product design that will cater to the changing lifestyle of consumers. Then the perfect combination of the best technologies and the best design becomes ENVi Series.

Daikin ENVi Series has developed from the concept of Design is everything, this is why Daikin ENVi Series is outstanding from other air conditioners no matter when it turns on or off, with the working sound level as quiet as a whisper only 19dB.

When combined with energy saving technology Inverter, and newly adopted R32 refrigerant which can reduce the global warming better, it makes the Daikin ENVi Series innovative solutions worthy for your home.

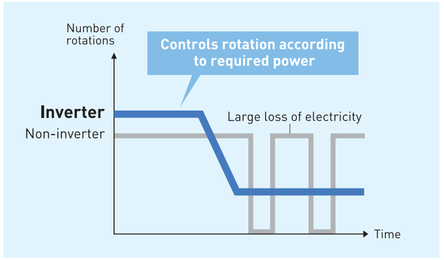
CONTENTS

Inverter Technology

Inverter system can make you feel cool faster with more energy saving (compared to Non Inverter system). Moreover, it also helps maintain a constant temperature in the room where you need it, makes you feel comfortable all the time especially while you are sleeping.

More Energy-Saving than Non-Inverter

Inverters are devices which are able to vary their capacity by adjusting operating frequency. Inverter air conditioners do this by altering the power supply frequency of their compressors. In contrast, non-inverter air conditioners have a fixed capacity and can only control the indoor temperature by starting or stopping their compressors.



Inverter systems can cut energy consumption compared to non-inverter models. This helps to reduce household power bills and also lowers CO_2 emissions caused by electricity generation.

Powerful

Inverter air conditioners operate at maximum capacity as soon as they start up. This burst of increased power allows them to reach the set temperature more quickly.

Energy-Saving

As the set temperature is reached, inverter operation adjusts to low capacity to maintain the room temperature. This precise control makes inverter models more energy-efficient than non-inverters, which must repeatedly start or stop their compressors.

Comfortable

Inverter systems finely adjust their capacity according to the air conditioning load, minimising the difference between the set temperature and room temperature. This ensures higher comfort levels than with non-inverter systems.

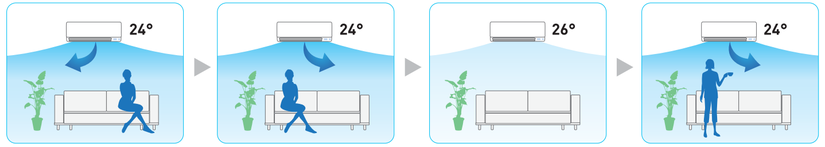
Efficient & Smart

Comfort
YEAR ROUND

DAIKIN ENVi SERIES IS A HIGHLY INTELLIGENT SYSTEM WITH INNOVATIVE FEATURES

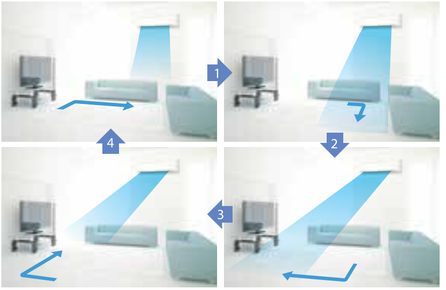
2-area intelligent eye

The two-area intelligent eye sensor controls comfort in two ways. If the room is empty for 20 minutes, it changes the set point to start saving energy. As soon as someone enters the room, it immediately returns to the original setting. The intelligent eye also directs air flow away from people in the room to avoid cold draughts.



3D air flow

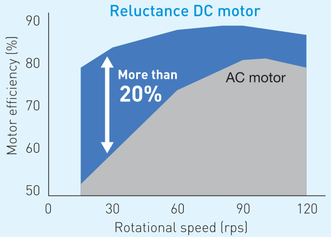
To ensure a harmonised temperature throughout the room, the Daikin ENVi Series 3D air flow system combines vertical and horizontal auto-swing creating an even distribution of air throughout the room to the corners of even large spaces.



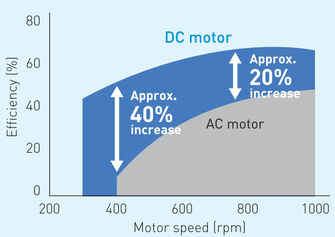
The flaps and louvers swing in turn, expanding the comfort zone.

DC Inverter Control

DC Inverter is Daikin's term for an inverter air conditioner equipped with a DC motor. These motors use magnets to generate rotation, making them more efficient than AC motors. Daikin has fitted its advanced DC motors for compressors and fan motors with powerful neodymium magnets to achieve even greater efficiency. It calls these devices Reluctance DC motors.



Reluctance DC motors are more efficient in the low frequency range commonly used by air conditioner compressors. They are capable of improving efficiency by approximately 20%[1].



DC motors are more efficient in the low speed range usually used by air conditioner fans. They provide improvements in efficiency of up to 40%[1].

Swing Compressor

With its smooth rotation, the swing compressor significantly decreases friction and vibration. It also eliminates the leakage of refrigerant gas during compression. These advantages provide quiet and efficient operation.

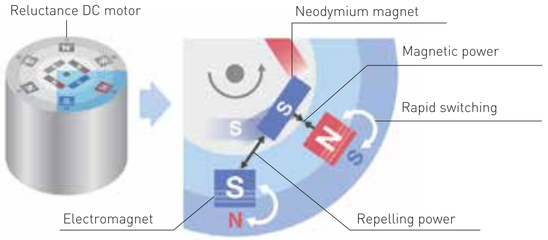
High COP

FTKJ25NVM	FTKJ35NVM	FTKJ42NVM
COP	COP	COP
4.81	4.09	4.2

ENVi series realizes superior design and high efficiency at the same time using the new refrigerant R32 and Daikin's energy saving technology.

Reluctance DC Motor for Compressors

The compressor is one of an air conditioner's core components and its performance is directly linked to the motor. Daikin was the first to successfully use a Reluctance DC motor with a scroll compressor in commercial-use air conditioners. It has now adapted this high-efficiency motor for the swing compressors in its residential-use systems.



Embedding high-strength neodymium magnets in the shaft turns the entire centre of the motor into a powerful magnet. By rapidly switching the poles of this electromagnet, the Reluctance DC motor is able to produce even greater speed and power.

Stylish Appearance and Operation

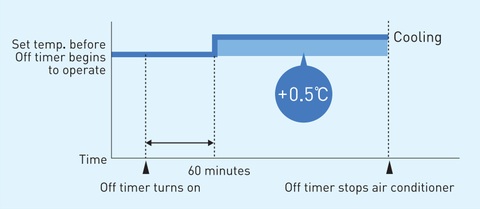
With a curved front panel design that is compatible with any style of interior decor. Including the new way of starting function enable you to install spaced from the ceiling as low as 30 mm.

Comfort mode

Draught-free operation improves comfort. When cooling,
the flap positions itself horizontally to prevent cold airflow from being blown directly onto the body.
When heating, the flap turns vertically downwards to drive warm air tothe bottom of the room.

Night set mode

Rapid changes in room temperature can disturb your sleep. To avoid this, Daikin ENVi Series prevents overheating or overcooling during the night. If the timer is switched on, the unit will automatically set the temperature to 0.5°C warmer when cooling and to 2°C cooler when warming.



Cooling operation: Room temperature is raised by 0.5˚C after 60 minutes.

Photocatalytic Air Purifying

Clean air

A sophisticated titanium apatite photo-catalytic air purification filter traps even microscopic airborne dust particles, absorbs organic contaminants such as bacteria and viruses and even breaks down odours.

Titanium Apatite Photocatalytic Air-Purifying Filter

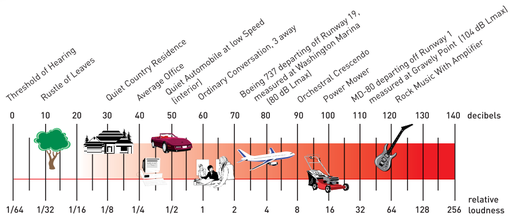
Photocatalytic air purifying is a deodorising and antibacterial technology. Daikin was the first to apply this advance to the air-purifying filters used in air conditioners1. Daikin's success has led manufacturers in various industries to adopt the technology for antibacterial products.

Titanium apatite is an advanced photocatalytic material with great adsorption power. While a filter's micron-level fibres trap dust, titanium apatite effectively adsorbs and decomposes bacteria.
The photocatalyst is activated simply by exposure to light. This filter delivers consistent performance for approximately three years if it is washed with water once every six months.

Whisper Sound Level

Experience a new dimension of relaxation, you can have a sound sleep more than ever, Daikin ENVi Series works at the sound level as only 19 decibels* which is just like a whisper*. You will not even notice any noise from the air conditioner and get fully relaxation.

TYPICAL SOUND LEVELS



The decibel (dB) is a unit for describing sound pressure levels. A-weighted sound measurements (dBA) are filtered to reduce the effect of very low and very high frequencies, better representing human hearing. With A-wighting, sound monitoring equipment approximates the human ear's sensitivities to the different sounds of frequencies.

R32

Daikin is the world's first to use R-32 refrigerant for Residential Aircon which will not destroy the ozone layer and also reduce the global warming by up to 3x from the current refrigerant (compare with the R410A), more energy-saving with the efficiency and better features in cooling conduction that using 30%* less refrigerant. You can be a part in helping to save this planet by choosing Daikin ENVi Series which uses R32 refrigerant and also help saving money for your family as well.

Environment

Saving (R32)

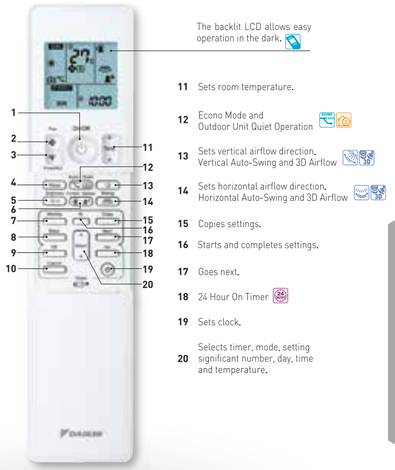
Function List of ENVi Series

Indoor Unit / Functions	Models	FTKJ25/35/42
	DC Inverter Control	●
Comfortable Airflow	Power-Airflow Dual Flaps	●
Comfortable Airflow	Wide-Angle Louvers	●
Comfortable Airflow	Vertical Auto-Swing (up and down)	●
Comfortable Airflow	Horizontal Auto-Swing (left and right)	●
Comfortable Airflow	3D Airflow	●
Comfortable Airflow	Comfort Airflow Mode	●
Comfort Control	Indoor Unit Quiet Operation	●
Comfort Control	Two-Area Intelligent Eye	●
Comfort Control	Programme Dry Function	●
Comfort Control	Auto Fan Speed	●
Lifestyle Convenience	Standby Electricity Saving	●
Lifestyle Convenience	Econo Mode	●
Lifestyle Convenience	Inverter Powerful Operation	●
Lifestyle Convenience	Wireless Remote Controller with Backlight	●
Lifestyle Convenience	Indoor Unit On/Off Switch	●
Cleanliness	Titanium Apatite Photocatalytic Air-Purifying Filter	●
Cleanliness	Wipe-Clean Flat Panel	●
Timers	24 Hour On/Off Timer	●
Timers	Weekly Timer	●
Timers	Night Set Mode	●
Worry Free	Auto-Restart after Power Failure	●
Worry Free	Self-Diagnosis with Digital Display	●

Outdoor Unit / Functions	Models	RKJ25/35	RKJ42
Comfort Control	Outdoor Unit Quiet Operation	●	●
Worry Free	Anti-Corrosion Treatment of Outdoor Heat Exchanger Fins	●	●

Wireless Remote Controller

ENVi Series



1 On and Off switch

2 Selects fan speed, Auto Fan Speed and Indoor Unit Quiet Operation

3 Inverter Powerful Operation

4 Selects operation mode: Cooling, Dry and Fan Only.

5 Sets brightness of the multi monitor and timer indicators on the indoor unit.

A view from the bottom of the indoor unit

6 Comfort Airflow Mode and Two-Area Intelligent Eye

7 Deactivates, reactivates or deletes Weekly Timer settings.

8 Goes back.

9 24 Hour Off Timer and Night Set Mode

10 Cancels timers.

The backlit LCD allows easy operation in the dark.

11 Sets room temperature.

12 Econo Mode and Outdoor Unit Quiet Operation

13 Sets vertical airflow direction. Vertical Auto-Swing and 3D Airflow

14 Sets horizontal airflow direction. Horizontal Auto-Swing and 3D Airflow

15 Copies settings.

16 Starts and completes settings.

17 Goes next.

18 24 Hour On Timer

19 Sets clock.

20 Selects timer, mode, setting significant number, day, time and temperature.

Absolute Control

EASY CONTROL FROM EVERYWHERE

The easy-to-use remote unit gives you absolute control of the room temperature from wherever you are. Sit back, check the large display and put all of Daikin ENVi Series's built-in intelligence to work through user-friendly buttons.

SMART WLAN CONTROL/ SMART ENERGY SAVING

Online controller

The plug-and-play extra WLAN device (see note on page 10) allows you to set and even schedule the temperature from anywhere, using Apple or Android systems. So you can manage the unit when away from home, offering optimal climate control while saving energy.

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