

FTKM with R32 60 Hz

 Patented Streamer Discharge Technology

 Anti-Corrosion Treatment

 Patented Swing Compressor

 R32 Eco Friendly Green Technology



Defy your limits



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JAPANESE
TECHNOLOGY

What Daikin stands for

Daikin is a leading innovator and provider of advanced, high-quality air-conditioning solutions for residential, commercial and industrial applications. As World's Leading Air-conditioning Company, Daikin is committed to delivering air-conditioning solutions that enhance the quality of life all around the world.

A diverse multinational company, Daikin Industries Ltd., active in air-conditioning, chemicals and oil hydraulics, was established in 1924. With headquarters at Osaka, Japan, the Daikin family has more than 84,870 members, working across 100+ production base units and 316 consolidated subsidiaries worldwide. As the world's sole manufacturer that develops a long line of products, from refrigerants to air-conditioners, Daikin advocates comfortable living on the strength of advanced technologies.

Daikin is present in the USA, Canada, Europe, Russia, Middle East, Africa, Central Asia, Southeast Asia, Oceania and Latin America. We aim to serve our customers in each of these markets by providing optimal air-conditioning products.



Transcending Boundaries with Innovation

Daikin is present in over 160 countries

EUROPE AFRICA & MIDDLE EAST		JAPAN		AMERICAS		CHINA		ASIA AND OCEANIA		DAIKIN GROUP	
12,128	91	13,318	31	22,697	107	19,360	33	17,367	54	84,870	316
Employees	Subsidiaries	Employees	Subsidiaries	Employees	Subsidiaries	Employees	Subsidiaries	Employees	Subsidiaries	Employees	Subsidiaries





Patented Streamer Discharge Technology

“Streamer Discharge” is a type of plasma discharge which generates high speed electrons that combine with oxygen and nitrogen in the air and turn into active species with strong oxidative decomposition power and thereby eliminate allergens such as mould, mites (droppings and dead mites), pollen and hazardous chemical substances such as formaldehyde. Compared to standard plasma discharge (glow discharge), its speed of oxidative decomposition is over 1000 times greater with the same electrical power. The decomposition power is comparable to thermal energy of about 100,000°C.*

1: This result was obtained by using a Streamer discharge device for testing in lab conditions. The effects of products equipped with Streamer technology or results in actual use environments may differ.

2: It does not prove the effect against all viruses and bacteria.

*Comparison of oxidation decomposition. This does not mean temperature will become high.

Befriending the Environment

Air is something that surrounds us 24 hours a day. In fact, our existence, as well as earth’s depends on it. At Daikin, the future of the world’s air is our greatest concern. We, the manufacturer of world’s best air-conditioners, are always paving the path to save our environment for next generation.

We phased out all R-22 model and shifted to the green refrigerant R-32. Now, whole world is coming together to find and work on way to address global warming issue. We are also offering worldwide free access to patents for equipment using next generation refrigerant, R-32. Refrigerant choice is a key in saving the ozone layer and reducing global warming.



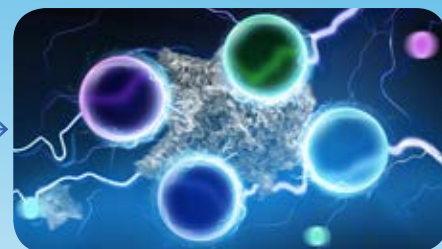
Our all Residential Air Conditioners models manufactured in India use the next-generation refrigerant, R-32.



Streamer emits high-speed electrons.



The electrons collide and combine with nitrogen and oxygen in the air to form four kinds of decomposing elements with decomposition power.



The decomposing elements provide decomposition power.



Taking control of the future with Inverter Technology



WHAT IS INVERTER TECHNOLOGY AND HOW IS IT DIFFERENT FROM NON-INVERTER TECHNOLOGY?

An inverter is a device for converting frequency. The technology is used in many home appliances and controls electric voltage, current and frequency. Inverter air-conditioners vary their cooling/heating capacity by adjusting the power supply frequency of their compressors.

BENEFITS



Powerful

Inverter air-conditioners operate at maximum capacity as soon as they start up. As a result, the set temperature can be reached more quickly.



Energy Saving

After the indoor temperature approaches the set temperature, inverter control adjusts to low capacity operation to maintain this temperature. This makes inverter models more energy saving than non-inverter models, which must repeatedly start or stop their compressors to maintain the room temperature.



Comfortable

Inverter air-conditioners finely adjust capacity according to changes in the air-conditioning load and the difference between the indoor temperature and set temperature is small. This gives higher comfort level than the non-inverter air-conditioners.

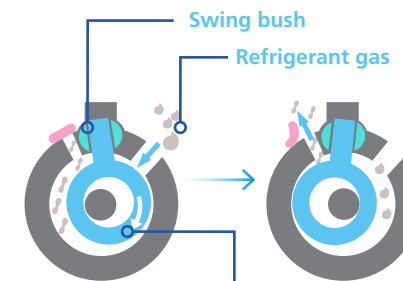


Swing compressor

Daikin Air conditioners come with a Patented Swing Compressor which decreases friction and vibration. This helps in a smooth rotation of the swing compressor which provides a quiet and efficient operation. It saves electricity because of low pressure return during compression. The Swing Compressor also prevents leakage of refrigerant gas during compression. Quiet and efficient operation of the Swing Compressor due to low friction and vibration is better than conventional rotary compressor.



Daikin was presented 32nd Chairman's Award by the Japan society for the promotion of the machine industry for swing compressor.



Integral piston of blade and roller

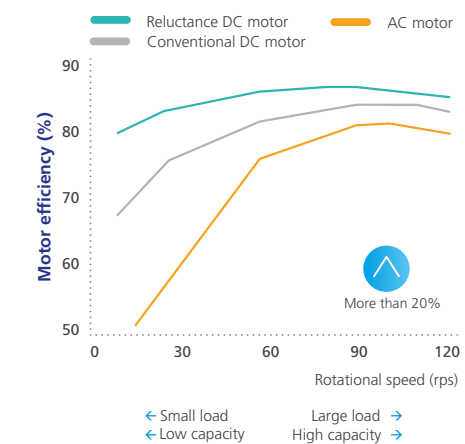
The swing compressor can reduce operational vibration and sound because its piston moves smoothly inside the compressor.



Reluctance DC motor for compressor

Daikin DC inverter models are equipped with the reluctance DC motor for compressor. The reluctance DC motor uses two different types of torque, neodymium magnet and reluctance torque. This motor saves energy by generating more power with a smaller electric current than AC or conventional DC motors. Daikin's internally embedded neodymium magnet generates strong magnetic field and high torque resulting in high operational efficiency with less electricity consumption. It is more efficient at low frequencies most commonly used by air-conditioners improving efficiency by approximately 20%.

Efficiency of Reluctance DC motor

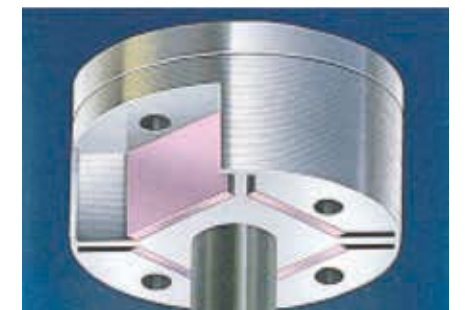


DC inverter

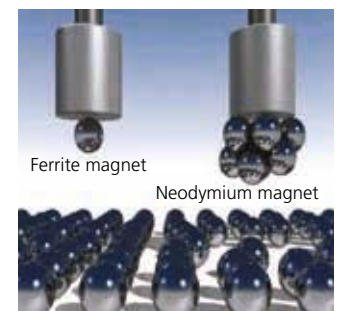
Daikin calls an inverter model that is equipped with a DC motor as DC inverter. A DC motor offers higher efficiency than an AC motor. A DC motor uses the power of magnets to attract and repel to generate rotation. A DC motor that is equipped with powerful neodymium magnets, which enable even greater efficiency, is called a reluctance DC motor.



Recipient of Electric Science Promotion Award (Reluctance DC motor for compressor)



Neodymium magnets are used in the pink-coloured area.



Neodymium magnets are approximately 10 times stronger than standard magnets. The use of neodymium magnets in Daikin compressors enhances their performance. Besides, it helps to improve the frequency range used by air-conditioners during periods of stable operation in which air-conditioners operate for the longest periods.

Innovating to Lead

Daikin's constant quest to lead is a philosophy that has been with the company since its inception. Every product that carries the Daikin seal of approval automatically gives the user an unmatched experience.



-  High SEER
-  Patented Streamer Discharge Technology
-  Dew Clean Technology
-  Triple Display
-  Anti-Corrosion Treatment
-  Powerful Air Throw



High SEER/EER

Daikin's Integrated Power Module Printed Circuit Board and Patented Swing Compressor Technology are a unique engineering design where the PCB (Controllers) is designed in such a way that it optimizes the cooling effect & also result in higher efficiency. Based on this engineering design we are able to achieve higher SEER of 22, which is 24% more than current 5 star SEER requirements.



With Daikin's highest SEER models, you get a product with a rating of 22 SEER, which is best in the 5 star category and is extremely energy efficient.

BENEFITS

-  It saves power; ideal for long usage
-  It helps in saving more electricity
-  24% more energy efficiency as compared to 5 star AC with ISEER 5
-  Cools even at 56°C



BENEFITS



It deactivates viruses and bacteria to make the air clean to deliver peace of mind



It removes pollen and allergens, enabling you to breathe easy



It gets rid of the foul smells and mold to let you breathe purer air



Dew Clean Technology

Dirt, which cannot be removed by the filter, accumulates on the heat exchanger. It becomes a breeding ground for bacteria and moulds and generates a foul odour. The Dew Clean Technology in Daikin ACs auto cleans the heat exchanger, helping get rid of bacteria, moulds and other unwanted particles.

BENEFITS



Better cleaning of Indoor Unit Heat Exchanger ensures better airflow throughout the year



Ensure odor-free fresh air all the time



Consistent cooling performance of air conditioners



It suppresses mold formation and helps get rid of bacteria



About 65 min.



STEP-1

Dew clean Function Start
(in Cooling Mode)

About 30 min.



STEP-2

Dry Mode

Total time: 95 min approx.



Factory Fresh Indoor Unit

Patented Streamer Discharge Technology

It is a type of plasma discharge which generates high-speed electrons that combine with oxygen and nitrogen in the air. It then turns into active species with strong oxidative decomposition power, thereby eliminating viruses, bacteria, allergens such as mold, mites (droppings & dead mites), pollen and hazardous chemical substances such as formaldehyde.



Patented Streamer Discharge Technology eliminates viruses, bacteria, mold as well as hazardous chemical substances and allergens inside the room which cleans the inside air.

The Dew Clean Technology in Air Conditioners auto cleans the coil of Indoor unit heat exchanger. In this function, condensate water volume is used to clean the indoor unit heat exchanger. After cleaning of indoor unit heat exchanger, the condensed water drains out the dust particles, bacteria, mold from the indoor unit coil. After completion, unit will automatically switch to drying operation to dry the heat exchanger. It is recommended to perform this function once in a month for better result.



You can operate Dew Clean Technology function by simply pressing button on remote.

Triple Display

The Triple Display Function shows percentage estimation of the power consumed which is done on a real-time basis by our air conditioners unit. It helps the user to track and check the power consumed at that particular time by our AC's. In this function we can also see the set temperature and room temperature of Air Conditioners along with error code.



Each press of the display button on remote will enable the user to see estimated Power Consumption percentage on a real time basis, Indoor Temperature Display and Set Temperature Display Respectively, this function allows users to see and monitor the approx. power saving and also to maintain the comfortable room temperature as per their requirement.



The Benzotriazole Oil prevents the heat exchanger from corrosion thus ensuring it lasts longer to deliver optimum cooling for long time. With this, the corrosion of copper is delayed by up to 2.8 times.

Anti-Corrosion Treatment

In Anti-Corrosion Treatment Function, a special coating of Benzotriazole oil is added to the copper coil to prevent corrosion. The treatment reduces the effect of nitric and acidic acid reaction on the copper coil of indoor & outdoor units. It is especially effective against the Latin American climate conditions – rainy season, high humid area, coastal area and industrial smokes & pollutants areas.



With this Feature , the Consumer can monitor the estimated power consumption percentage of your AC at any given point in time, on a real time basis.



Daikin Inverter Technology ensures & outdoor coil corrosion resistant your ac runs at optimum capacity as desired.



It monitors the running capacity of the AC unit. For example, if a 1.5 TR machine's power consumption display is showing 50%, it means that it is consuming approx. half of the power of the given unit, which reflects the monetary benefit on electrical saving to you.



With this feature consumer can see indoor temperature and set temperature along with error code

BENEFITS



Longer life of copper coil and air conditioners due to lowering corrosion impact



Durability of copper coil indoor & outdoor unit extends the lifetime of air conditioners by making the indoor & outdoor coil corrosion resistant.



DISPLAY



Power Consumption Display in %



Set/Room Temperature Display



Automatic Error Code Display



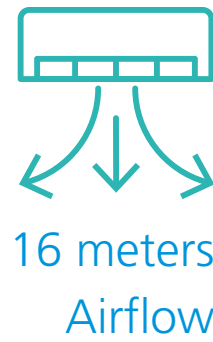
Powerful Air Throw

CROSS FLOW EVAPORATOR FANS

With the Cross Flow Evaporator Fans, Daikin Air Conditioners ensure uniform cooling and a powerful air-flow that allows one to receive the cool air up to 16 meters* (52 Feet) away from the unit.

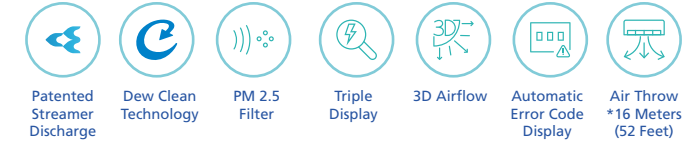
The unique Cross Flow Evaporator Fans and Power-air flow Dual Flaps help in cooling down all sorts of spaces, big and small. Moreover, they help ensure uniform cooling delivering peace of mind.

*Above given value is for 5kW (1.5 TR Capacity models) Inverter & Non Inverter model, air flow may vary model to model.



Air throw

52 ft / 16 m



*: Air throw given for 5.0kW (1.5 TR) capacity, may vary model to model.

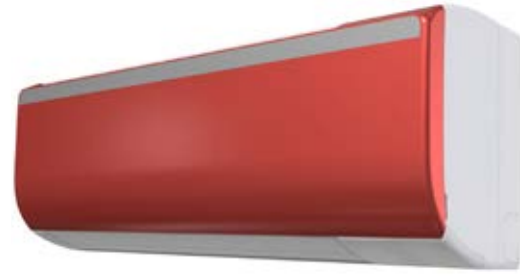
Model	Interior Unit		FTKM12UUVLWZ		FTKM18UUVLWZ		FTKM24UUVLWZ																			
	Exterior Unit		RKMG12UUVLWZ		RKMG18UUVLWZ		RKMG24UUVLWZ																			
Power Supply			1φ, 220 V, 60 Hz																							
Nominal Capacity	(Min. ~ Max.)		3.52 kW (1.09 ~ 4.0) 11,900 BTUh (3,720 ~ 13,650) 3,030 kcal/h (940 ~ 3,440)		5.0 kW (1.75 ~ 5.4) 17,100 BTUh (6,000 ~ 18,400) 4,300 kcal/h (1,500 ~ 4,640)		6.6 kW (1.75 ~ 7.0) 22,500 BTUh (6,000 ~ 23,900) 5,680 kcal/h (1,500 ~ 6,020)																			
Elimination of Humidity			1.0 L/h		1.8 L/h		3.2 L/h																			
Operating Current (Nominal)			4.50 A		6.77 A		10.45 A																			
Consumption of Nominal Energy	(Min. ~ Max.)		940 W (196 ~ 1,150)		1,415 W (375 ~ 1,650)		2,185 W (210 ~ 2,250)																			
Yearly Energy Consumption (Nominal)			523.54 kWh		824.08 kWh		957 kWh																			
Power Factor (Nominal)			95 %		98 %		97 %																			
SEER (Nominal)			22.00 BTU/Wh		21.00 BTU/Wh		21.00 BTU/Wh																			
Piping and plumbing fittings	Liquid / Gas / Drain		φ 6.4 / φ 9.5 / φ 18 mm		φ 6.4 / φ 12.7 / φ 18 mm		φ 6.4 / φ 12.7 / φ 18 mm																			
Thermal Insulation			Tubes for Liquids and Gases																							
Max. Length of Pipeline between Units			15 m		20 m		30 m																			
Max. Height Difference between Units			12 m		16 m		20 m																			
Maximum distance without additional charge required			10 m		10 m		10 m																			
Amount of Additional Refrigerant Charge			20 g/m		20 g/m		20 g/m																			
Interior Unit			FTKM12UUVLWZ		FTKM18UUVLWZ		FTKM24UUVLWZ																			
Color of Frontal Panel			White																							
Air Flow Rate	m³/min (cfm)		A	N	B	SB	A	N	B	SB	A	N	B	SB												
Sound Pressure Level			11.1 (392)	9.3 (328)	6.8 (240)	5.6 (198)	14.9 (526)	13.2 (466)	10.5 (371)	9.4 (332)	15.3 (540)	11.9 (420)	9.2 (325)	6.0 (212)												
Ventilator			41 dB(A)		36 dB(A)		29 dB(A)		26 dB(A)		45 dB(A)		40 dB(A)		35 dB(A)		33 dB(A)		49 dB(A)		43 dB(A)		39 dB(A)		35 dB(A)	
Type			Cross Flow Fan																							
Engine Power			39 W		38 W		38 W																			
Velocity			5 steps, silent, automatic																							
Air Direction Control			Right, Left, Horizontal, Down																							
Air Filter			Removable, Washable, Mildew Proof																							
Operating Current (Nominal)			0.21 A		0.29 A		0.38 A																			
Consumption of Energy (Nominal)			20.2 W		64 W		83 W																			
Power Factor (Nominal)			41.6 %		99.1 %		99.2 %																			
Temperature Control			Microcomputer control																							
Dimensions	(H x W x L)		298 x 800 x 229 mm		375 x 895 x 325 mm (With packaging)		298 x 885 x 229 mm		390 x 1,010 x 355 mm (With packaging)		298 x 885 x 229 mm		390 x 1,010 x 355 mm (With packaging)													
Weight			9.5 Kg		12.5 Kg (Gross)		10.5 Kg		13.5 Kg (Gross)		11.5 Kg		14.5 Kg (Gross)													
Exterior Unit			RKMG12UUVLWZ		RKMG18UUVLWZ		RKMG24UUVLWZ																			
Cover color			Ivory white																							
Heat Exchanger	Cooling Fins / Specific Tube		Grid Fin (PE) / Tube Hi-XD 7φ																							
Type			Hermetic swing type																							
Compressor	Model		1YC20HXD		1Y097BKAX1N		2YC40AXD																			
Engine Power			650 W		920 W		1,300 W																			
Refrigerant Oil			Type: FW50DA, Charge: 0.275 L		Type: FW50DA, Charge: 0.350 L		Type: FW50DA, Charge: 0.395 L																			
Refrigerant			R-32, 0.68 kg		R-32, 0.850 kg		R-32, 1.04 kg																			
Air Flow Rate	m³/min(cfm)		A: 33.3 (1,176)		SB: 46 (1,624)		A: 46 (1,624)		SB: 46 (1,624)		A: 46 (1,624)		SB: 46 (1,624)													
Ventilator			Type		Type		Type																			
Engine Power			28 W		68 W		68 W																			
Operating Current (Nominal)			4.57 A		6.48 A		4.29 A																			
Energy Consumption(Nominal)			919.8 W		1,351 W		919.8 W																			
Power Factor (Nominal)			98 %		95 %		41.6 %																			
Starting Current			4.29 A		6.77 A		4.29 A																			
Dimensions	(H x W x L)		550 x 675 x 284 mm		620 x 825 x 400 mm (With packaging)		595 x 845 x 300 mm		680 x 1,035 x 410 mm (With packaging)		298 x 800 x 229 mm		375 x 895 x 325 mm (With packaging)													
Weight			24 Kg		30 Kg (Gross)		31.5 Kg		38.5 Kg (Gross)		39 Kg		12.5 Kg (Gross)													
Sound Pressure Level			51 dB(A)		54 dB(A)		41 dB(A)																			
Conditions that are based on			Interior: 27°CDB / 19°CWB, Exterior: 35°CDB, Pipe Length: 5 m																							
Note(s)			Airflow rate (m³/min) during fan operation																							
			H: 11.9, M: 10.0, L: 7.2, SL: 6.0		H: 16.2, M: 15.0, L: 11.9, SL: 10.6																					

OPTIONAL

COLOR PANELS

Match your style

Our FTKM series models have the option of color variation which allows you to personalize your equipment with your color of preference, based on the moment and the design. Your color panels will allow you to have my devices in one and even change your air conditioner based on your home's decoration or mood. You can select from gray, black, pink, and Daikin blue to surprise everyone and give your space a unique touch.

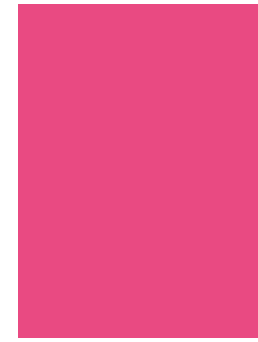


The panels will be sold as additional accessories that you can attach and detach.

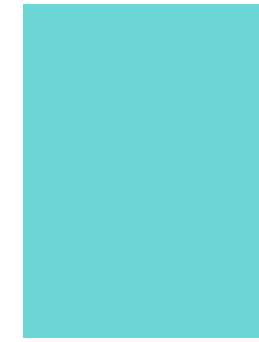
OPTIONAL Available colors:



Red Matte



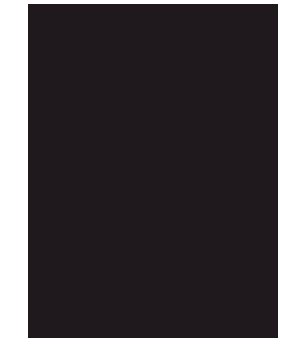
Pink Gloss



Key West Satin



Grey Gloss



Black Matte

*Available in: Dominican Republic, Central America, Aruba, Saint Martin, Trinidad and Tobago, Antigua, Colombia, Peru

*Panel color might vary without any previous notification.



Daikin is the world's leader
in Air Conditioning.
We are devoted to deliver
outstanding products and
innovative home, business,
and industrial solutions.



Defy your limits
www.daikinlatam.com