



PCRM1409

urusara 7

Daikin Air Conditioner Made in Japan

Split Type Air Conditioners

DC Inverter Power Control Heat Pump [50/60 Hz]

R-32





A New Level of Comfort

Urusara 7 offers a unique, total comfort experience for any lifestyle. Powerful year-round cooling and dehumidifying is just the beginning.

Urusara 7 puts the latest advances in Japanese air-conditioning technology at your fingertips. Features like the new circulation airflow wrap you in a cloud of effortless comfort while advanced streamer technology effectively purifies air. This design excellence extends to the sleek, award-winning indoor unit¹.

Urusara 7 is also the world's first air conditioner to use next-generation R-32 refrigerant². Along with its many energy-saving features, this higher performance refrigerant gives Urusara 7 unrivaled energy efficiency³.



urusara 7

Daikin Air Conditioner Made in Japan

- Notes: 1. Urusara 7 received a prestigious Red Dot Award: Product Design 2013 from the Design Zentrum Nordrhein Westfalen in Germany.
2. For residential-use wall-mounted type air conditioners as of November 2012, when Daikin launched Urusara 7 in the Japanese market.
3. In January 2013, the 4.0 to 7.1 kW class models for the Japanese market received the Minister's Prize from Japan's Ministry of Economy, Trade and Industry in the Fiscal 2012 Grand Prizes for Excellence in Energy Efficiency and Conservation.

Seven Benefits of Urusara 7

Benefit 1

Energy Savings

- Double Air Intake
- High-Density Heat Exchanger
- Sharp-Edged Cross Flow Fan

Benefit 7

Automatic Filter Cleaning

- Cleaning Filter Operation

Benefit 6

Air Purification

- Streamer Technology

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Benefit 2

Next-Generation Refrigerant

- World's First Use of R-32

Benefit 3

Humidity Control

- World's First Use of Humidity Control



Benefit 5

Designed in Japan

- Innovative Design

Benefit 4

Airflow Control

- Circulation Airflow
- Coanda Mechanism
- Double Air Intake

Lineup



FTXZ25/35/50NVM



RXZ25/35/50NVM

2.5 kW Class

FTXZ25NVM / RXZ25NVM

Cooling Capacity Rated (Min.-Max.)	2.45 (0.6-3.9) kW
	8,400 (2,000-13,300) Btu/h
Heating Capacity Rated (Min.-Max.)	3.6 (0.6-7.5) kW
	12,300 (2,000-25,600) Btu/h

3.5 kW Class

FTXZ35NVM / RXZ35NVM

Cooling Capacity Rated (Min.-Max.)	3.45 (0.6-5.3) kW
	11,800 (2,000-18,100) Btu/h
Heating Capacity Rated (Min.-Max.)	5.0 (0.6-9.0) kW
	17,100 (2,000-30,700) Btu/h

5.0 kW Class

FTXZ50NVM / RXZ50NVM

Cooling Capacity Rated (Min.-Max.)	4.95 (0.6-5.8) kW
	16,900 (2,000-19,800) Btu/h
Heating Capacity Rated (Min.-Max.)	6.3 (0.6-9.4) kW
	21,500 (2,000-32,100) Btu/h



reddot design award
winner 2013

Category: Product Design 2013



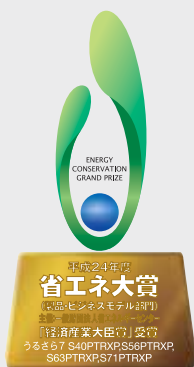


A New Era for Energy Efficiency

2012 Grand Prize for Excellence in Energy Efficiency and Conservation

Daikin has always pushed to achieve higher levels of energy efficiency. After reviewing Urusara’s performance, Daikin engineers decided to use next-generation R-32 refrigerant due to its superior energy efficiency. They also developed a new indoor heat exchanger, double air intake and revised DC Inverter Power Control.

Thanks to these efforts, Urusara 7 delivers greater energy efficiency. In January 2013, Urusara 7’s 4.0 to 7.1 kW class models for the Japanese market received the Minister’s Prize from Japan’s Ministry of Economy, Trade and Industry in the Fiscal 2012 Grand Prizes for Excellence in Energy Efficiency and Conservation.



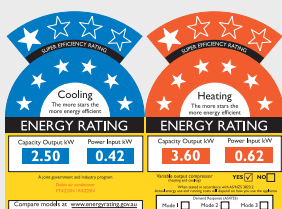
Product: Urusara 7 (S40PTRXP, S56PTRXP, S63PTRXP, S71PTRXP), Minister’s Prize, Ministry of Economy, Trade and Industry, Fiscal 2012 Grand Prize for Excellence in Energy Efficiency and Conservation (Product Category and Business Model Category), Sponsor: Energy Conservation Center, Japan

First 7-Star Rating for Australia

Urusara 7 achieves high COPs of 4.30 to 5.70 during cooling operation thanks to Daikin’s combined energy-saving technologies and DC Inverter Power Control. The 2.5 kW model for the Australian market is the first split-type air conditioner to receive the country’s top 7-Star Super Efficiency rating. No other air conditioner has obtained this rating as of February 2014. The models for Europe have also received top ratings.

The Urusara 7 models listed below have received Singapore’s 4 Tick Energy Label, which is the country’s highest energy-efficiency rating for inverter type air conditioners.

Australia’s 7-Star Efficiency rating



Singapore’s 4 Tick rating



Europe’s A+++ rating



What Is COP?

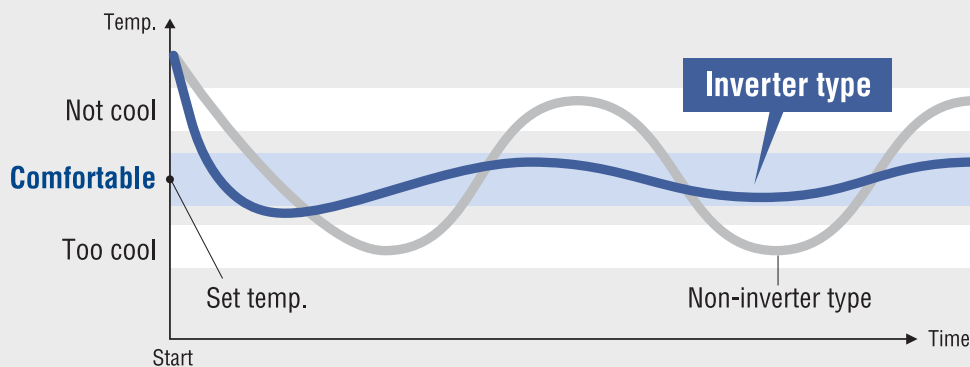
An air conditioner’s COP (Coefficient of Performance) indicates how efficiently the unit uses energy. A higher COP means greater energy efficiency. It also means lower electricity consumption, so you save money.

$$\text{COP} = \frac{\text{Capacity (W)}}{\text{Power consumption (W)}}$$

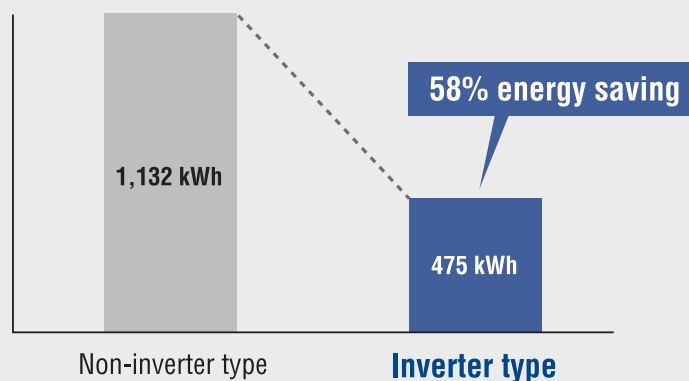
Inverter Advantages Compared to Non-Inverter

Inverters are devices which are able to vary their operating capacity by adjusting frequency. Inverter air conditioners can vary their capacity by adjusting 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 air conditioners are more powerful, energy-efficient and comfortable than non-inverter models.

Comfortable Temperature Control



Electricity Consumption after One Year of Operation¹



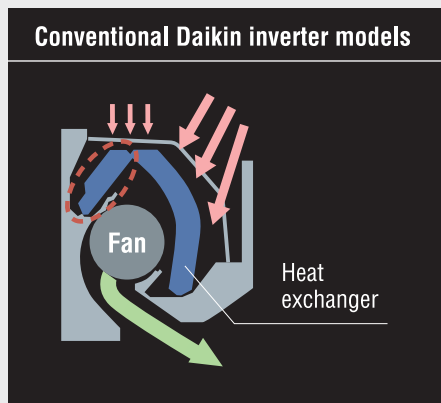
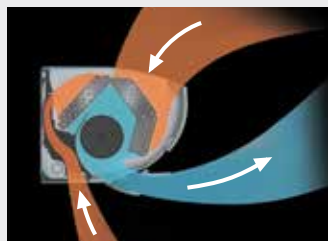
Compared to non-inverter models, Urusara 7 cuts power consumption by up to 58%. This helps to reduce electricity bills for the user and also decreases CO₂ emissions caused by power generation.

Note: 1. Test method: In-house simulation based on the principles of JIS-C9612B.1.6.5 for inverter models and JIS-C9612B.1.6.4 for non-inverter models
 Test inverter model: 3.5 kW class model of Urusara 7 for the Thailand market, rated COP 5.00, COP in the partial load region 6.39
 Test non-inverter model: 3.5 kW class Daikin non-inverter model for the Thailand market, COP 3.45
 Test location: Bedroom of 24 m²
 Test conditions: Annual average outdoor temperature in Bangkok
 Test period: 9 hours of operation from 10:00 p.m. to 7:00 a.m.

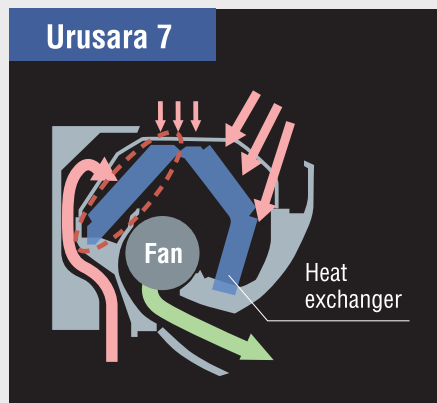
Advanced Daikin Technologies Ma

Double Air Intake

The indoor unit features air intakes on both the top and bottom. The double intakes maintain a large airflow volume by drawing in additional air from the bottom intake. Urusara 7 improves the operational efficiency of the indoor heat exchanger by also utilizing the back of the device.



The back part of the heat exchanger is only partially used.

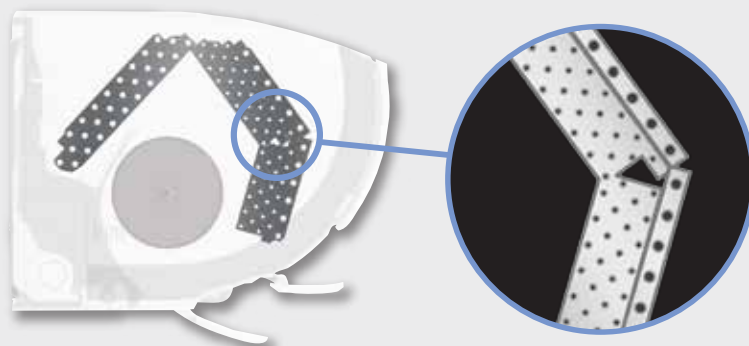


Air intake from both the top and bottom allows the back part of the heat exchanger to be used fully, resulting in higher energy efficiency.



High-Density Heat Exchanger

An improved indoor heat exchanger design significantly increases cooling/heating performance. The new structure uses thin copper piping densely packed in five layers, allowing it to exchange heat more effectively.

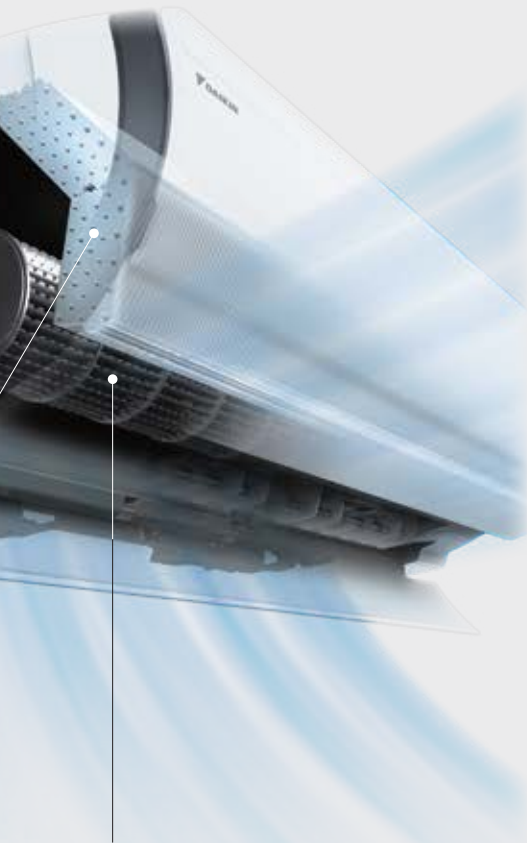


Sharp-

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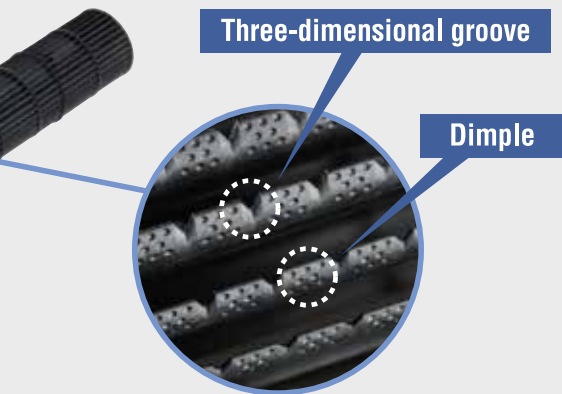


de in Japan



Edged Cross Flow Fan

Our cross flow fan features sharp-edged impellers. This innovative shape increases airflow volume as well as efficiency.



DC Inverter Power Control

DC Inverter is Daikin's term for an inverter air conditioner equipped with a DC motor. These motors use the power of magnets to generate rotation, making them more efficient than AC motors. Advanced DC motors for compressors and fan motors equipped with high-power neodymium magnets are capable of even greater efficiency. These motors are called Reluctance DC motors.



Swing Compressor

Thanks to its smooth rotation, the swing compressor decreases friction and vibration. It also prevents the leakage of refrigerant gas during compression. These advantages provide quiet and efficient compression.



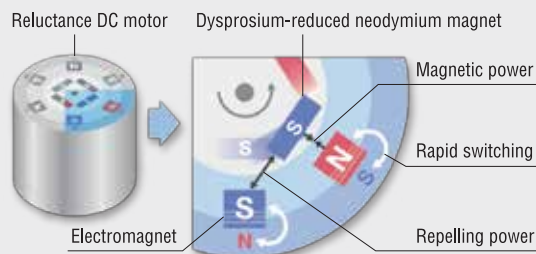
Interleaved PAM Control

PAM (pulse amplitude modulation) control reduces energy loss by specifying how often the converter switches on and off. Urusara 7 is equipped with twin interleaved PAM circuits. This ensures efficiency for both high and low output.



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 the Reluctance DC motor with a scroll compressor in commercial-use air conditioners¹. This motor has now been installed in the swing compressors used for residential-use air conditioners.



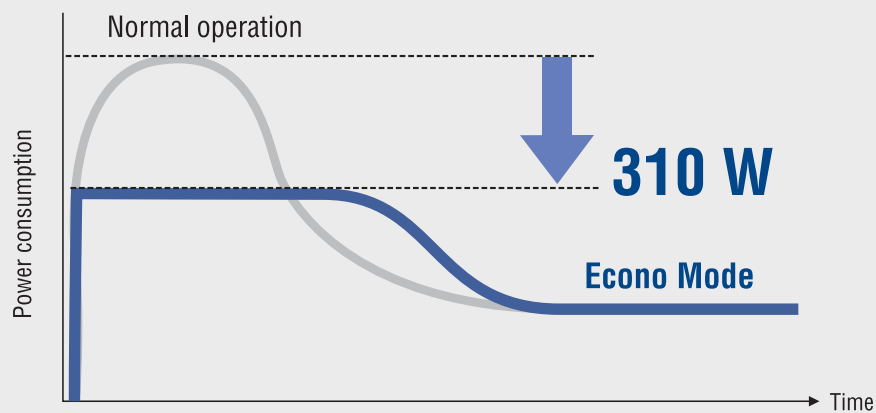
Embedding a high-strength neodymium magnet in the rotating shaft turns the entire centre of the motor into a powerful magnet. By rapidly switching the electromagnet from the N to S-pole, the Reluctance DC motor is able to produce greater speed and power. Urusara 7 uses a new dysprosium-reduced neodymium magnet.

Note: 1. Daikin's achievement was recognised by the Institute of Electrical Engineers of Japan at the 54th Academic Promotion and Technical Development Awards in 1998.

A Variety of Energy-Saving Functions

Econo Mode

This function limits the maximum power consumption to 310 W during cooling operation and 470 W during heating operation for the 2.5 kW model. It is particularly effective if the cooling load is high, for example, at startup or during large gatherings and periods of direct sunshine. (Maximum capacity decreases during Econo Mode, requiring more time to reach the set temperature.)



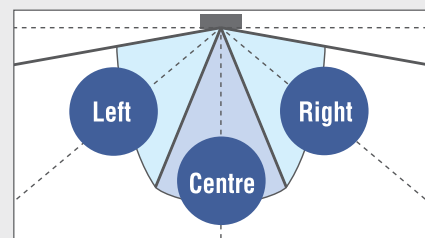
Standby Electricity Saving

Even when the air conditioner is not operating, it requires standby power. However, thanks to the Standby Electricity Saving function, the required standby power can be reduced.

3-Area Intelligent Eye

3-Area Intelligent Eye prevents energy wastage by using its infrared sensors to detect human movement in a room. It has two infrared sensors and detects the location of a person in an area divided into left, right and centre zones.

When there is no movement, Intelligent Eye automatically adjusts the set temperature by 2°C to achieve energy savings. It can also be set to automatically stop operation. Airflow can either be directed toward or away from people to increase comfort.



Auto Off Operation

3-Area Intelligent Eye can be set to automatically stop operation after one or three hours if there is no movement in a room. With Auto Off Operation, you never have to worry about forgetting to turn off the air conditioner again.

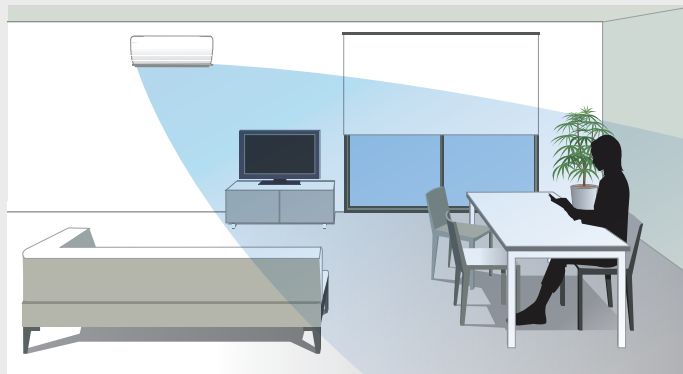


When there is no movement, Intelligent Eye automatically adjusts the set temperature by 2°C.

It automatically stops operation after one or three hours.

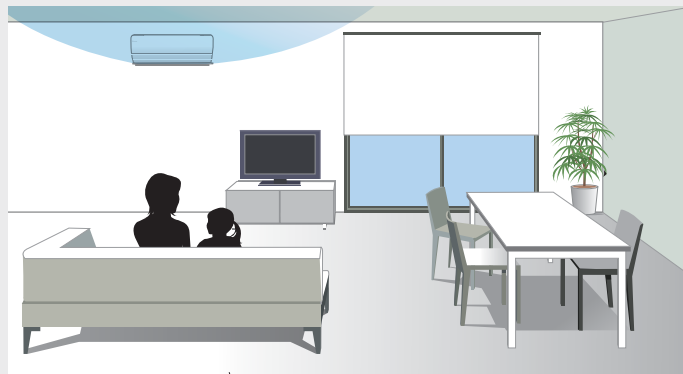
3-Area Intelligent Eye (Focus)

Intelligent Eye sensors detect an area where there is a person and adjust the horizontal airflow to send air directly to the person.



3-Area Intelligent Eye (Comfort)

Intelligent Eye sensors detect an area where there is a person and adjust the horizontal airflow to avoid blowing air directly onto the person.



R-32 Refrigerant: A Better Choice

One Million Units in Cumulative Sales

1,000,000 Units in Cumulative Sales
 For R-32 residential-use split-type air conditioners in the Japanese market

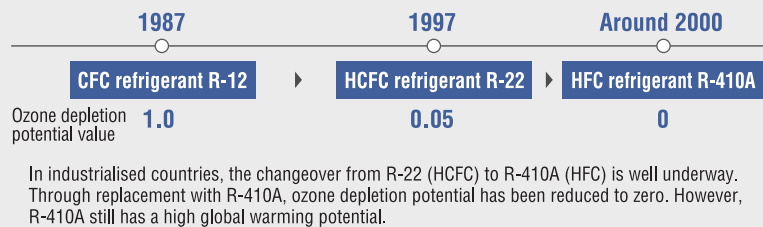
Daikin is the sole manufacturer to produce both air conditioning equipment and refrigerants around the world. As a refrigerant manufacturer, Daikin believes it has a responsibility to expand the use of substances with zero ozone-layer depletion and to reduce greenhouse gas emissions.

As an equipment manufacturer, Daikin believes it must work to reduce these greenhouse emissions throughout the entire product lifecycle. By combining R-32 refrigerant and Urusara 7's operational efficiency, Daikin has taken the next step in reducing environmental impact.

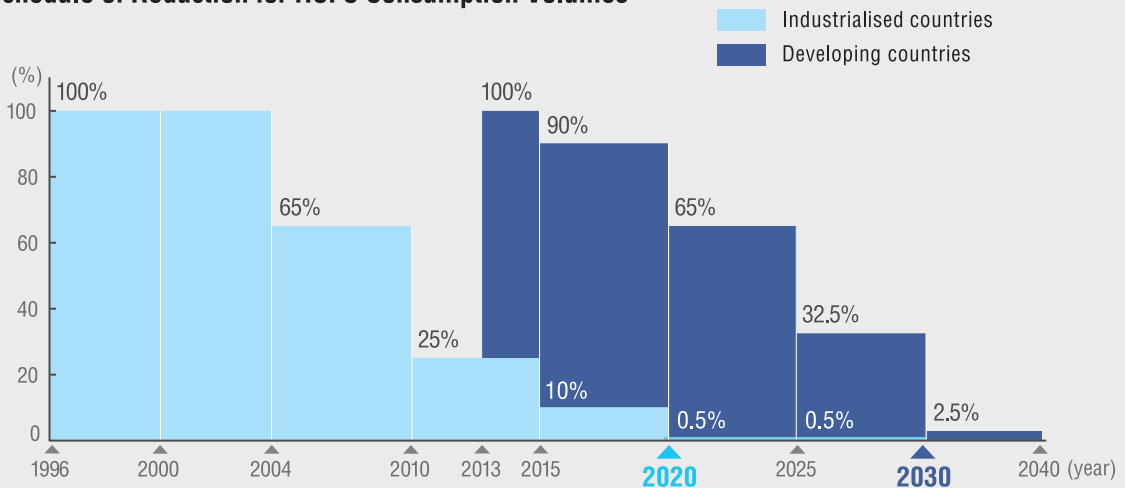
Daikin has adopted R-32 for all models of its residential-use wall-mounted split-type air conditioners in the Japanese market. These systems achieved one million units in cumulative sales as of November 2013¹.

No Impact on Ozone-Layer Depletion

The Montreal Protocol was adopted in 1987 to specify substances which are potentially harmful to the ozone layer and to restrict the production, consumption and trade of relevant substances. Based on the adoption of this protocol, industrialised countries are required to eliminate alternative fluorocarbons including R-22 (HCFC) by 2020, while developing countries are obliged to gradually reduce their use from 2013, and to eliminate them by 2030.



Schedule of Reduction for HCFC Consumption Volumes

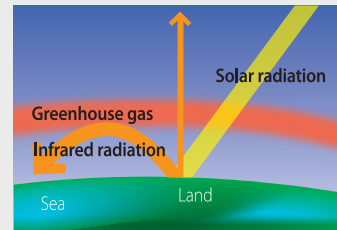


for Climate Change

Lower Global Warming Potential

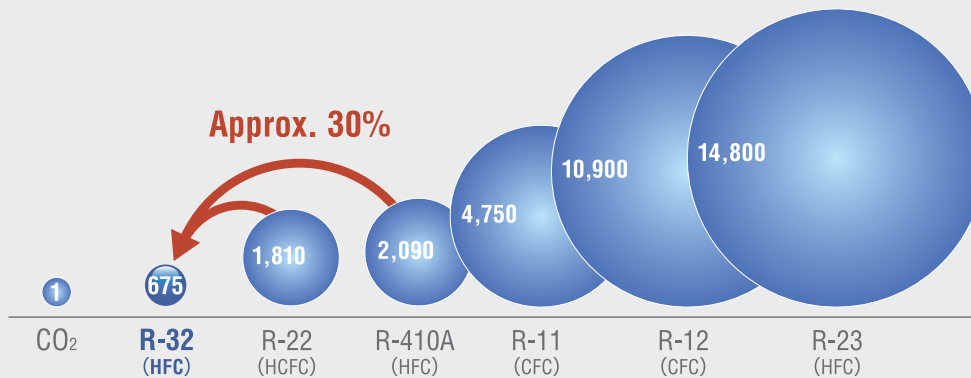
The Kyoto Protocol was adopted in 1997 to reduce greenhouse gases which cause climate change. Greenhouse gases include carbon dioxide (CO₂), hydrofluorocarbons (HFCs), hydrochlorofluorocarbons (HCFCs), chlorofluorocarbons (CFCs) and various other substances.

To reduce greenhouse gases, manufacturers of air conditioning equipment are urgently required to find refrigerants with a lower global warming potential than R-410A (HFC). At the same time, they must also reduce energy consumption, enabling CO₂ emissions to be decreased.



Greenhouse gases trap heat (infrared wavelengths) in sunlight which enters the Earth's atmosphere from space. This thermal energy warms the atmosphere.

100 Year Global Warming Potential of Different Refrigerants²



Energy Efficiency

Air conditioners are major consumers of electricity but about half of the energy³ they use is still generated by fossil fuel power plants. The CO₂ discharged in this process is a known greenhouse gas. Air conditioning manufacturers must be responsible for providing energy efficient equipment.

Daikin has redesigned its residential-use air conditioners to use R-32. This enables its systems to achieve new levels of energy efficiency while reducing environmental impact.

Refrigerant Refrigerant is changed from gas to liquid in the outdoor unit, after which it is evaporated in the indoor unit. During cooling operation, cool air is discharged from the indoor unit while heat is removed from the air taken in from inside the room. This heat is delivered to the outdoor unit and released.

Notes: 1. This value is based on in-house research.
 2. Source: Values for 100 year global warming potential (GWP) from IPCC Fourth Assessment Report. Comparative 100 year GWP: HFC410A, 2,090; HFC32, 675.
 3. Global energy production in 2008. Source: IEA, World Energy Outlook 2010

Dehumidifying: A New Level in Co

Two Dehumidifying Choices

Daikin launched the world's first¹ residential-use air conditioner to control both humidity and temperature in 1999. By controlling humidity as well as temperature, Urusara 7 provides dehumidifying choices like you have never experienced before.



Even at a relatively high set temperature, selecting dehumidifying allows you to feel cool, helping to save power. With Urusara 7, you can control the indoor humidity directly from the wireless remote controller.

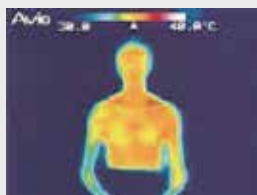
Two dehumidifying functions are available: Sarara Dry Operation and Dry Cooling Operation. Sarara Dry prevents any decrease in indoor temperature while Dry Cooling activates both cooling and dehumidifying functions at the same time.

Control of Both Humidity and Temperature

Even if the indoor temperature is the same, you usually feel cooler with lower humidity. This is because people release body heat by evaporating sweat on their skin. When the air is relatively dry, sweat evaporates quickly, releasing a large amount of heat.

However, when the air is humid, heat is not released and people feel hot and uncomfortable. With this in mind, Daikin has developed technologies that create a more comfortable balance between indoor temperature and humidity.

Temp.: 25°C
Humidity: 80%

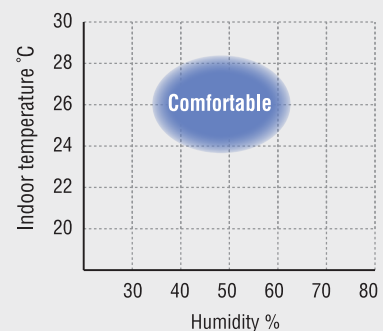


Hot and humid

Temp.: 25°C
Humidity: 50%



Comfortable



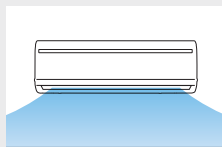
You can experience the same comfort with an indoor humidity of 40 to 60% even at 2°C above the set temperature.

Sarara Dry Operation

Ururara 7 lets you adjust the dehumidifying volume from low to high to achieve consistent comfort. At night on rainy days, the humidity can leave you feeling hot even though the temperature is relatively low. However, using the air conditioner with conventional dry mode leads to overcooling.

Ururara 7 maintains comfort levels by premixing the dehumidified air with room air to stabilise the temperature. This prevents overcooling, even for people who are sensitive to cold such as children, older people and women.

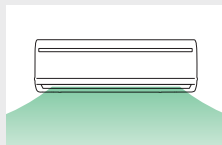
Conventional dry mode of Daikin models



Feels too cool



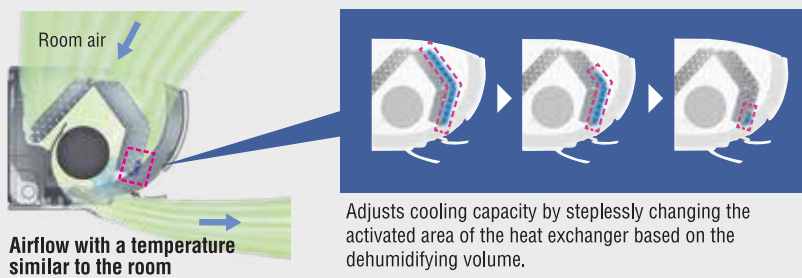
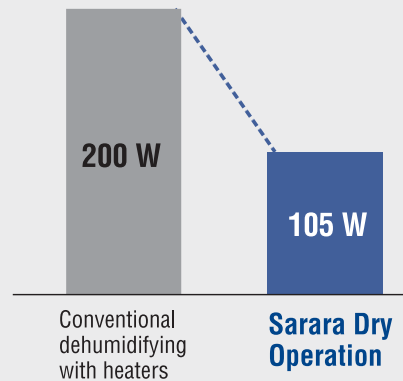
Conventional dehumidifying with heaters of Daikin models



Uses too much electricity



Electricity Consumption Compared with Conventional Daikin Dehumidifying²



Dry Cooling Operation³

Selecting this function starts dehumidifying operation during cooling operation. It dehumidifies by cooling at a low airflow rate, resulting in a lower room temperature.

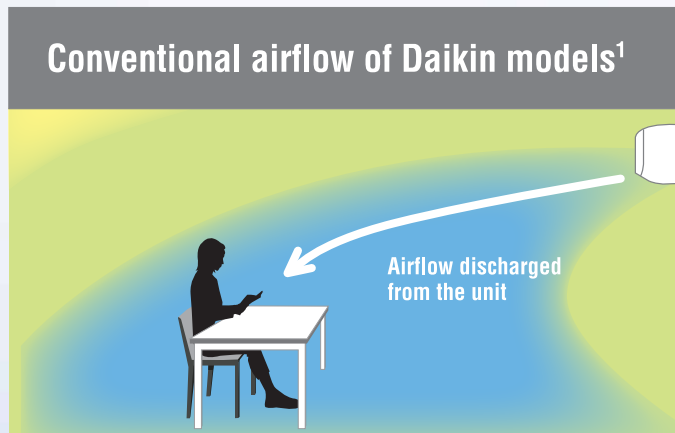
Notes: 1. As of 1999, when Daikin launched Ururu Sarara in the Japanese market.
 2. This is an in-house test using models for the Japanese market.
 Test conditions: Continuous operation with discharged airflow temp. 26°C, dehumidifying volume 300 cc/h in a thermostatic chamber with indoor temp. 28°C, indoor humidity 60%, outdoor temp. 28°C.
 3. To lower the humidity, Dry Cooling uses a lower airflow rate than standard cooling.

Guides the airflow along the ceiling to avoid people and furniture.

Delivers airflow far from the indoor unit.

Circulation Airflow Rapi

Urusara 7 circulates airflow and prevents temperature fluctuations. Coanda mechanism and Double Air Intake rapidly ma



It takes a long time to achieve a similar temperature in all corners of the room.

Circulation Airflow

A new air discharge pattern using the Coanda effect provides a longer airflow, rapidly achieving the set temperature throughout a room. The double air intakes and sharp-edged cross flow fan also increase airflow volume. This helps to circulate air around a room, preventing temperature fluctuations.

Temperature distribution when cooling for seven minutes



For the 5.0 kW model, the airflow distance is 12 metres². The time required to reach the set temperature is only half of that for a conventional Daikin inverter model³ for the Japanese market.

Cooling⁴

Delivers airflow further along the ceiling.

Circulates cool air with a large airflow volume.

Heating⁵

Warms with a downward airflow to the floor level.

Circulates warm air with a large airflow volume.

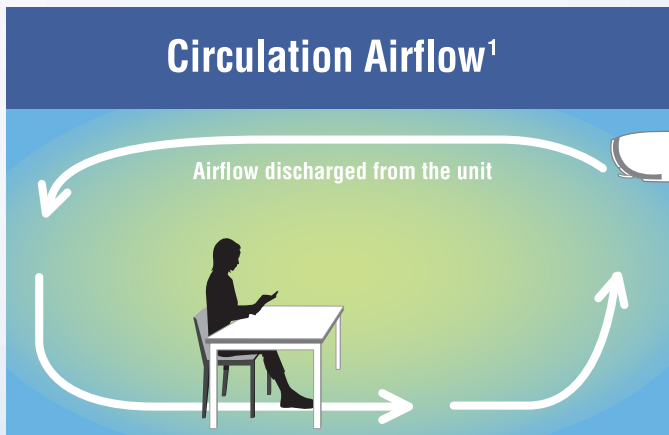
Discharges a large air volume with the Coanda mechanism.



Efficiently Cools a Large Room

Reduces temperature fluctuations even in large spaces. Daikin's original Circulation Airflow makes even the corners of a large room feel comfortable.

Circulates airflow by taking in air from the bottom as well as the top.



Circulation Airflow rapidly achieves a uniform temperature in each corner of the room.

Coanda Mechanism

This natural phenomenon was discovered by Henri Coanda, developer of the jet engine. The mechanism causes the airflow direction to alter along the surface of an object. Daikin has used it in Urusara 7 to provide greater airflow along the ceiling.

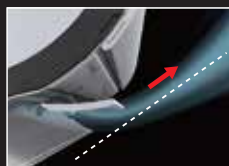


Coanda effect

The airflow direction alters along the surface of an object.



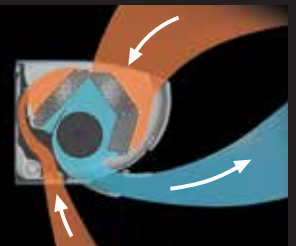
Without the Coanda mechanism



With the Coanda mechanism

Double Air Intake

The indoor unit features air intakes on both the top and bottom. The double intakes maintain a large airflow volume by drawing in additional air from the bottom intake. The Coanda mechanism also directs increased airflow toward the ceiling. This helps air to circulate fully, even if the unit is installed near the ceiling.



Notes: 1. Temperature distribution after seven minutes of Circulation Airflow operation
 [Temperature distribution measurement conditions]
 Test models: 4.0 kW class model of Urusara 7 for the Japanese market
 4.0 kW class Daikin inverter model for the Japanese market without Circulation Airflow
 Test location: Daikin laboratory (room of approx. 23 m³)
 Test conditions: Preset temperature 26°C, fan speed H, room temperature 35°C, outdoor temperature 35°C

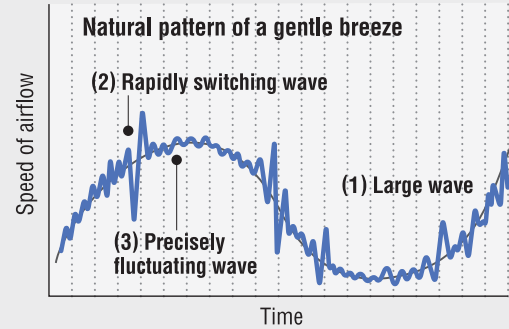
2. [Measurement conditions]
 Test model: 4.0 kW class model of Urusara 7 for the Japanese market
 Test location: Daikin laboratory
 Test condition: Airflow of wind speed 0.4 m/s at a position of 12 metres from the unit and 30 millimetres from the ceiling when setting Automatic for vertical airflow direction during cooling

3. It takes seven minutes with Circulation Airflow and 15 minutes without Circulation Airflow to reach 26°C at a position six metres from the unit during cooling operation.
 [Temperature distribution measurement conditions]
 Test models: 4.0 kW class model of Urusara 7 for the Japanese market
 4.0 kW class Daikin inverter model for the Japanese market without Circulation Airflow
 Test location: Daikin laboratory
 Test conditions: Preset temperature 26°C, fan speed H, room temperature 35°C, outdoor temperature 35°C

4. It indicates when setting Circulation Airflow during cooling, Dry Cooling or dehumidifying. It also includes when setting Automatic for vertical airflow direction during cooling, Dry Cooling or dehumidifying.
 5. It includes when setting Automatic for vertical airflow direction during heating.

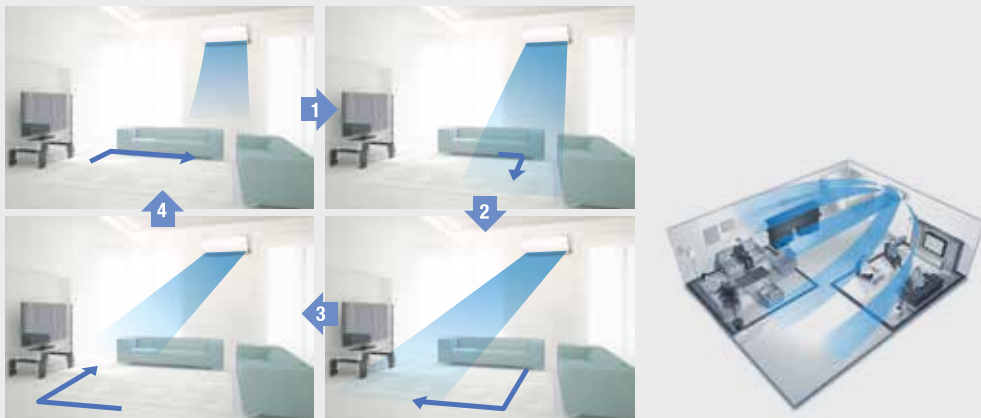
Breeze Airflow

Urusara 7 recreates the natural pattern of a gentle breeze, providing a cool airflow without direct draft. Based on research by Daikin and the Prefectural University of Kumamoto in Japan, natural breeze actually has three components: large waves, rapidly switching waves and precisely fluctuating waves¹. Daikin has recreated this variable rhythm using its advanced airflow control technology and coanda air direction system.



3-D Airflow

Vertical Auto-Swing automatically moves the flaps up and down and Horizontal Auto-Swing automatically moves the louvers to the left and right. 3-D Airflow combines Vertical and Horizontal Auto-Swing to circulate air to every part of a room for uniform cooling/heating of even large spaces.



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

Installation Position Setting

A pattern for the room shape and installation position can be selected with the wireless remote controller. This enables control of the horizontal airflow direction to be optimised.



Six patterns can be selected.

Note: 1. Based on a report issued by the Prefectural University of Kumamoto on August 31, 2012.

Test model: 4.0 kW class Daikin inverter model for the Japanese market

Test conditions: In an environment with a temperature of 27°C and relative humidity of 50%, subjects evaluated their comfort levels while seated at rest in a chair 2 m in front of the air conditioner and 850 mm above the floor. Valid responses were gathered from 16 Japanese male and female subjects in their twenties. The evaluations of comfort/discomfort levels and airflow patterns were made over an extended period.

Innovative Design Wins Red Dot



Inspired by Japanese “Ogi”

In 2013, Urusara 7 received a prestigious Red Dot Award: Product Design 2013 from the Design Zentrum Nordrhein Westfalen in Essen, Germany. The internationally recognised Red Dot has been awarded to products of outstanding quality since 1954.

Urusara 7 was praised for its innovative design, inspired by the Japanese “ogi” folding fan. This is exemplified by the Coanda flap mechanism, which modifies the airflow to create a pleasant indoor environment. Daikin’s use of R-32 refrigerant and other advanced technologies also reduces energy consumption and environmental impact.

Daikin believes with Urusara 7 it has created a leading air conditioner integrating a new shape and cutting-edge technologies developed in Japan.



reddot design award
winner 2013

Category: Product Design 2013

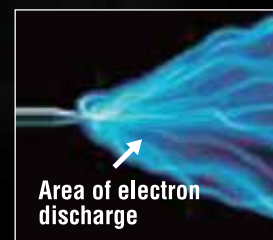
Better Indoor Air Quality Using Streamer Technology

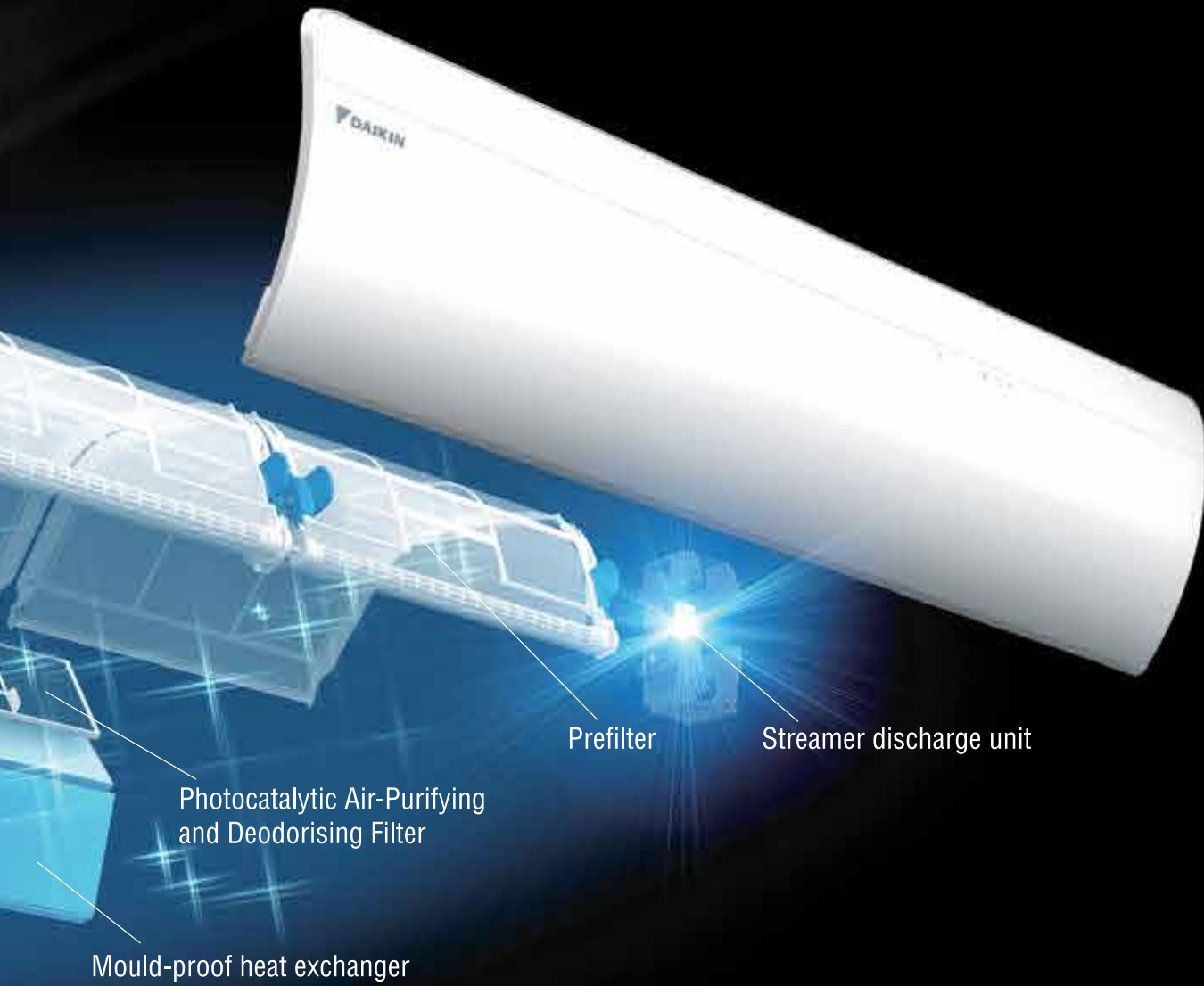


Streamer Technology

Streamer discharge decomposes bacteria and mould adsorbed on the filter by irradiating them with an advanced plasma electric discharge. It provides highly effective oxidative decomposition. Streamer discharge is one of the methods of plasma electric discharge. With the same electrical power, the oxidative decomposition speed is over 1,000 times faster than ordinary plasma electric discharge (glow discharge). To achieve this performance, Daikin developed original technologies which successfully stabilise the flow of electrons.

1,000 Times Faster
than ordinary plasma electric discharge



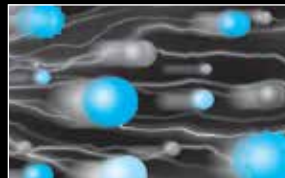


Decomposition Processes with Streamer Discharge

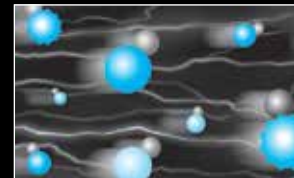
Step 1 Generates Decomposition Elements



The streamer discharge generates high-speed electrons.

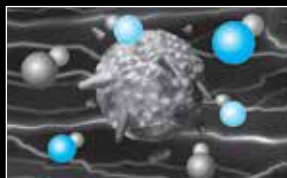


The high-speed electrons hit and combine with nitrogen and oxygen in the air.

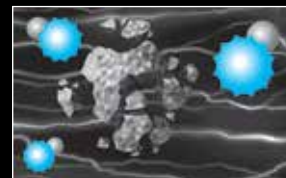
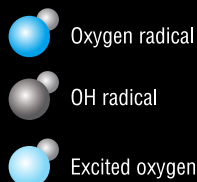


This generates high-strength decomposition elements.

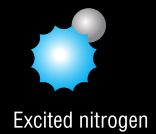
Step 2 Decomposes Allergic Substances



Primary decomposition (decomposes surface)



Secondary decomposition (decomposes centre)



Excited nitrogen

Streamer Discharge Air Purifying

Mould and pollen are trapped and adsorbed on the Photocatalytic Air-Purifying and Deodorising Filter. The streamer discharge then irradiates and decomposes the trapped particles¹. It powerfully removes mould, viruses, allergic substances and harmful chemical substances. The following tests are individual simulations which use Daikin's streamer device².

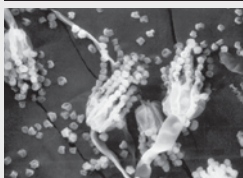


Photocatalytic Air-Purifying and Deodorising Filter

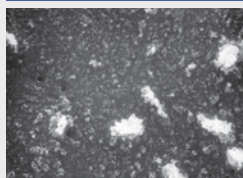
Mould and Viruses³

The streamer discharge has a powerful effect on particles captured by the filter.

Before irradiation

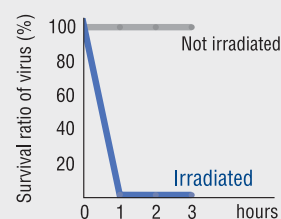


After 15 minutes of irradiation



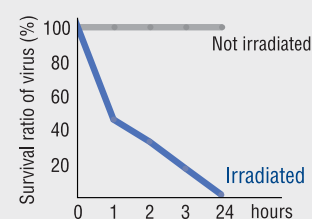
Cladosporium was placed on an electrode of the streamer discharge unit and a picture was taken using an electron microscope after 15 minutes of discharge.

Virus Decomposition



Test virus: Influenza virus (type A, H1N1)
 Test method: Virus inactivation test
 Test organisation: Japan Food Research Laboratories
 Result certificate: 10029107001-01
 Results: The streamer unit removed 99% of the virus in one hour. A single type of virus was used in the simulation. The test showed the unit has a powerful effect on virus particles captured by the filter.

Mould Decomposition and Removal

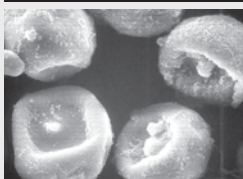


Test mould: Cladosporium
 Test method: Antibacterial test, mould removal test
 Test organisation: Japan Food Research Laboratories
 Result certificate: 204041635-001
 Results: The streamer unit removed 99% of the bacteria and mould. It has a powerful effect on particles captured by the filter.

Allergic Substances

The streamer discharge decomposes the centre of pollen and dead mites.

Before irradiation



After 15 minutes of irradiation



Cedar pollen was placed on an electrode of the streamer discharge unit and a picture was taken using an electron microscope after 15 minutes of discharge.

Odour

Odour-causing particles are adsorbed by the filter and decomposed by the streamer. There is little loss of deodorising effect due to the automatic regeneration of adsorption power.

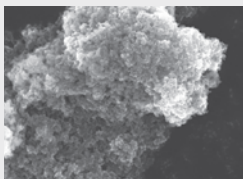
Cause of odour

Rubbish Pets Toilets
 Mould Cooking Tobacco

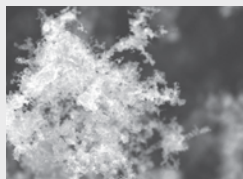
Exhaust Gas and Diesel Particles

The streamer discharge decomposes exhaust gas and diesel particles.

Before irradiation



After 15 minutes of irradiation



Diesel particles were placed on an electrode of the streamer discharge unit and a picture was taken using an electron microscope after 15 minutes of discharge.

Removable allergic substances

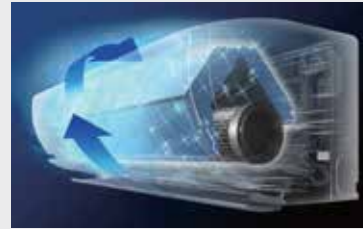
- Mould: Alternaria, aspergillus, eurotium, cladosporium, fusarium, penicillium
- Pollen: Cedar, alder, birch, Japanese cypress, pencil cedar, bald cypress, mugwort, orchard grass, ragweed, sweet vernal grass, timothy grass, plantain, beech tree
- Biological: House dust mite (dermatophagoides pteronyssinus) (droppings and dead mites), house dust mite (dermatophagoides farunae) (droppings and dead mites), American cockroach (droppings), German cockroach (droppings), dog epitherium (dander), cat epitherium (dander), flea (droppings), hamster epitherium (dander)
- Other: Wheat flour dust [30 allergic substances in total]

Removable harmful chemical substances

- Diesel particles (DEP)
- VOC (volatile organic compound)-type harmful chemical substances: Acetone, 2-propanol, dichloromethane, ethyl acetate, hexane, 2,4-dimethylpentane, benzene, 1,2-dichloropropane, trichloroethylene, methyl isobutyl ketone, butyl acetate, octane [12 substances in total]

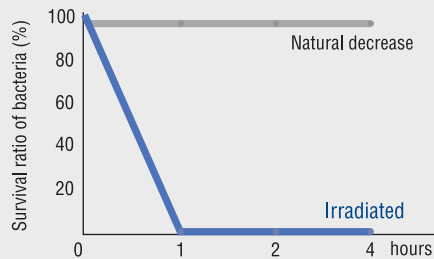
Mould-Proof Operation

The streamer discharge irradiates and dries the inside of the indoor unit, heat exchanger and airflow routes. Conventional Mould-Proof Operation prevents the growth of mould, but it still cannot eliminate odour-causing bacteria. The new Mould-Proof Operation can do both thanks to streamer discharge and a higher operation frequency.



Odour-Causing Bacteria

Removal of Odour-Causing Bacteria



Test method: Filters were compared on a testing device with and without the streamer discharge to check their ability to adsorb mould and odour-causing bacteria.
 Test organisation: Japan Food Research Laboratories
 Test location: Japan
 Result certificate: 10072482001-01
 Results: The streamer discharge decomposed and removed 99.9% of mould in 24 hours and 99.7% of odour-causing bacteria in one hour. The test was conducted using only one type of bacterium.

Mould inside Indoor Unit

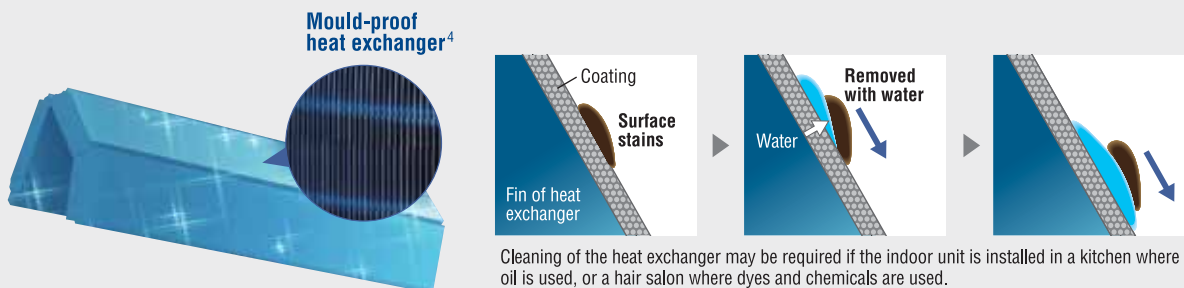
Mould-Proof Operation prevents the growth of mould. The pictures below show the mould growth after three days of cooling operation.



Test room: Chamber of approx. 10 m³ in a laboratory at the Institute of Environmental Biology in Japan
 Test method: Two indoor units were fitted with mould sensors owned by the Institute of Environmental Biology. One unit was run using Mould-Proof Operation during cooling operation while the other was run using only cooling operation. After two weeks of use (8 hours per day), the lengths of hyphae on the sensors were compared.
 Test conditions: Temperature: 27°C, humidity: 70%, mould attached to the sensors: Eurotium herbariorum J-183
 Test organisation: Institute of Environmental Biology
 Result certificate: 100805, 100806, 100807
 Test machine: Model for the Japanese market similar to the 2.5 kW class Urusara 7 model

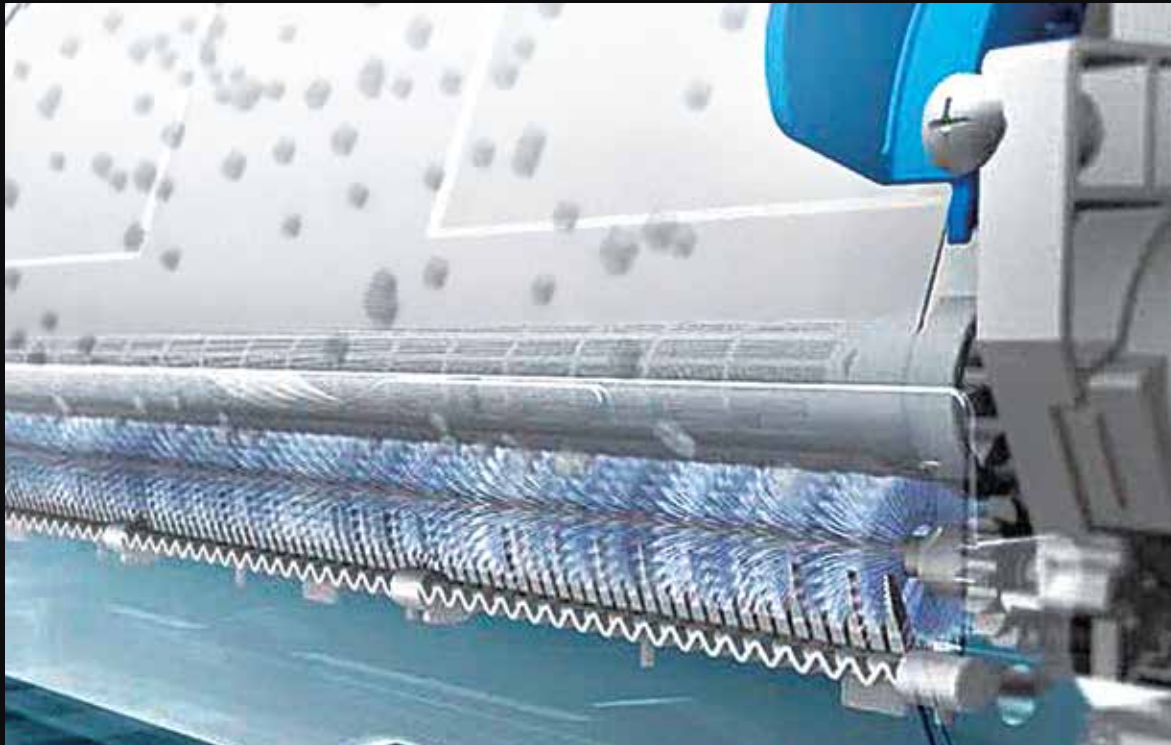
Mould-Proof Heat Exchanger

Surface stains are washed off the indoor heat exchanger using water generated by the cooling or dry operations. The surface is protected with a mould-proof coating.



- Notes: 1. The decomposition is effective only for substances adsorbed on the Photocatalytic Air-Purifying and Deodorising Filter. This product is not designed as a medical device and should not be used for medical applications.
 2. The results may differ slightly from actual conditions as they are based on simulations using a testing device equipped with a streamer unit. They do not use an actual air conditioner.
 3. Virus particles with the same characteristics as those adsorbed on a filter were irradiated in a testing device. The test used both the same type of discharge unit and same action as those in an actual product. The distance and installation position were also the same. This in-house simulation was conducted in Japan.
 4. Testing method: Harrow method based on the standards of the Home Electric Appliances Fair Trade Conference; Testing organisation: Kyoto Biseibutu Kenkyusho; Result certificate: 09217433-1

Clean Air, Every Day



Cleaning Filter Operation

You no longer have to clean the prefilter. After operation stops, this function automatically brushes dust off the prefilter and collects it in the installed dust box. Cleaning automatically starts after 18 hours or more of cumulative operation. The cleaning lasts a maximum of 11 minutes and once the Mould-Proof/Cleaning Filter lamp starts blinking, you only need to discard the dust collected in the box. This helps to maintain filter performance and prevent energy loss.

Electricity Consumption after One Year of Operation

Without Cleaning Filter Operation	125%
With Cleaning Filter Operation	100%

This function prevents reduced operational performance caused by dust collecting on the prefilter. It decreases annual electricity consumption by 25%¹.

How Is the Filter Cleaned?



The prefilter is automatically moved downwards.



The brush removes dust attached to the prefilter.



The removed dust is collected in the dust box.

Note: 1. Test method: In-house simulation based on JRA4046-2004

Test conditions: Approx. 2 g of material was attached to the filter to represent one year of use.

Test model: Model for the Japanese market similar to Urusara 7

Annual electricity consumption: 1,145 kWh when the Cleaning Filter Operation was used; 1,432 kWh when the Cleaning Filter Operation was not used.


Quiet Operating Sound of 19 dB (A)

Indoor Unit Quiet Operation






This series gives you a choice of 5-step, Quiet or Automatic settings for the fan speed. The Quiet setting selects Indoor Unit Quiet Operation, which decreases the sound pressure level by 7 to 10 dB (A) below the Low setting.

This wide range of settings allows you to precisely control the fan speed according to your needs. For example, the Quiet function will help you to sleep comfortably at night. The sound pressure level for the FTXZ25N and FTXZ35N is 19 dB (A).

FTXZ35N during cooling operation

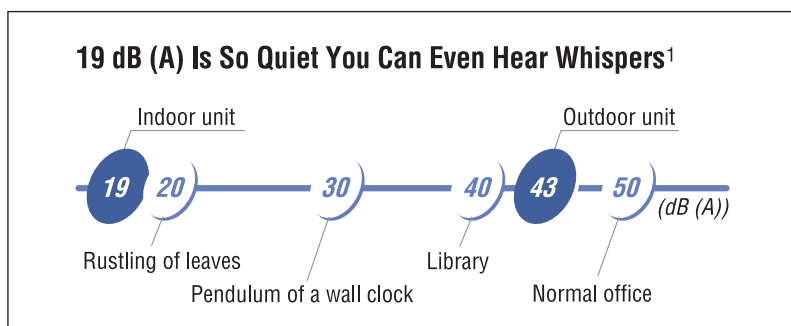
Fan speeds	Sound pressure levels
High (H)	42 dB (A)
Low (L)	27 dB (A)
 Quiet (SL)	19 dB (A)

8 dB (A)

	Auto	SL	L	M	H
					
Fan speed		Low ←	→ High		
Sound pressure level		Each decrease in airflow volume reduces the sound pressure level.			

Outdoor Unit Quiet Operation

This function decreases the sound pressure level from the rated operation (H). It can be started easily from the wireless remote controller. (Capacity may decrease during Outdoor Unit Quiet Operation.)



Note: 1. Based on "Examples of Sound Pressure Levels", Ministry of the Environment, Japan, November 12, 2002

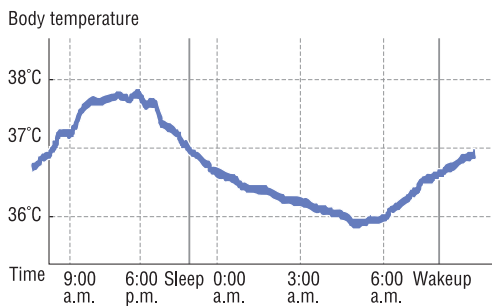
Promising You a Good Night's Sleep

Comfort Sleep Timer

This function controls the indoor temperature while you are asleep, helping to produce body temperature patterns which promote restful sleep. The programme controls the temperature using a V-shaped pattern which is similar to the human body's normal temperature fluctuation pattern. You only need to set your wakeup time.

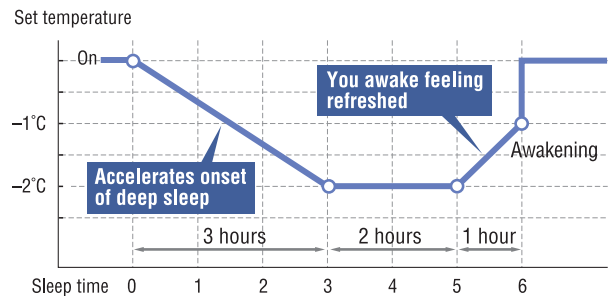


Body temperature fluctuation pattern



Body temperatures drop slowly as people begin to sleep and rise as their wakeup time approaches.

V-shaped pattern programme



Accelerates onset of deep sleep

The room temperature drops slowly as you begin to sleep, lowering your body temperature while you are asleep.

You awake feeling refreshed

The room temperature rises as your wakeup time approaches, causing your body temperature to rise just before you awake.

Daily On/Off Timer

Both the operation start and stop time can be preset. With this timer, the air conditioner starts and stops at the same time every day. Using the Daily On Timer ensures your living room and bedroom are cool when you come home and go to sleep.

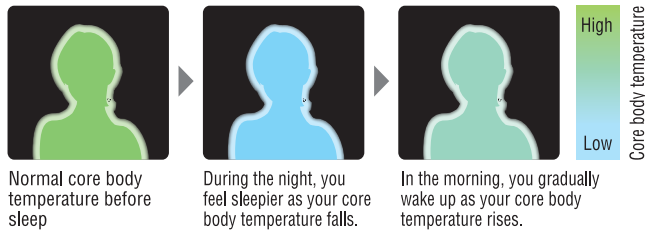
Countdown Off Timer

The operation stop time can be set with the touch of a single button and preset for a period of 0.5 to 9.5 hours in 30 minute increments. Set 4 and the unit will stop after four hours. This is convenient if you want to maintain cooling or dry operation during the night even if you do not use the Daily Off Timer.

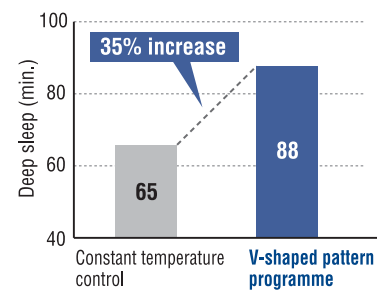
Daily On/Off Timer	Starts and/or stops daily operation at the same time.
Countdown Off Timer	Stops operation in 30 minute increments.

Mechanism of Good Sleep

More than 50% of people claim to have disturbed sleep¹. Daikin has developed the new Comfort Sleep Timer specifically to address this problem. The timer utilises the core body temperature concept, in which a lower temperature is thought to deepen sleep while a higher temperature makes it easier to wake up. Restful sleep is achieved by gradually changing the body temperature during the night.

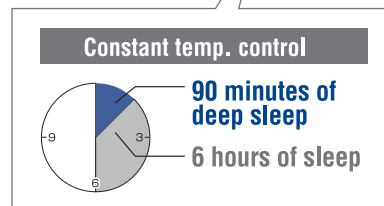
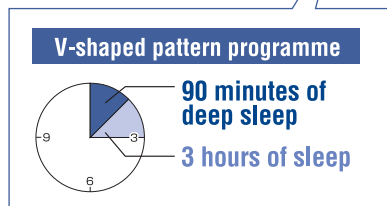
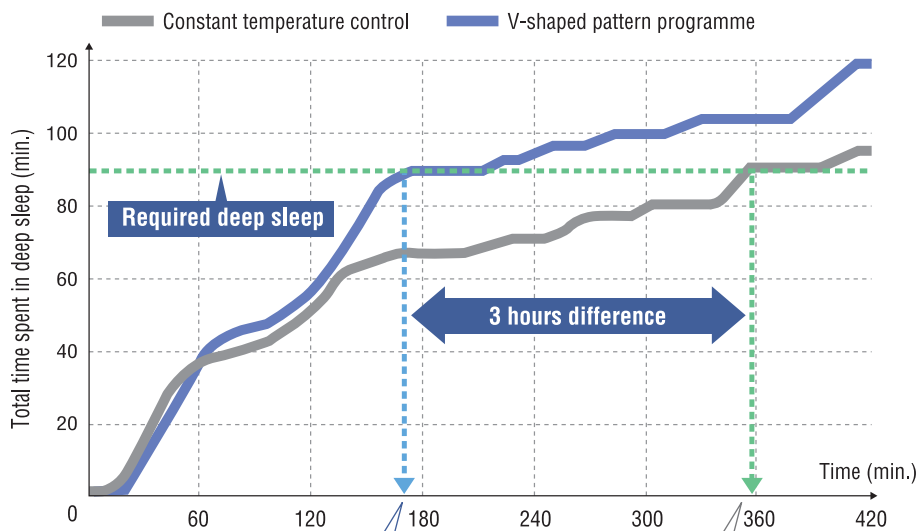


Increase in Deep Sleep



The increase in deep sleep was tested by Daikin Environmental Laboratory, Ltd. The V-shaped pattern programme increased deep sleep by 35%² (Data for 5 hours of sleep).

Total Time Spent in Deep Sleep (Experiment Results)



To experience satisfying sleep, you need 90 minutes of deep sleep. Three hours of sleep is necessary with the V-shaped pattern programme and six with the constant temperature control.

Notes: 1. Japanese Society of Sleep Research, "Comfort Sleep Experiment Research 2002"
2. This result was obtained through research. There are wide differences between individuals.

Easy to See during the Night

Humidity and Energy Indications

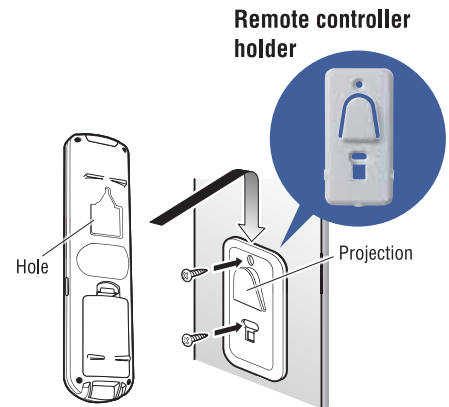
Frequently used functions are located on the front of the wireless remote controller for quick access. A large liquid crystal display and backlit buttons also allow easy operation in the dark. The LCD provides a range of information, including indoor and outdoor temperatures, humidity and power consumption.



Backlit buttons are easy to see in the dark.



The rounded controller is easy to operate even for elderly people.

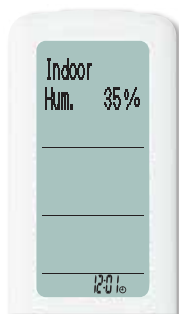


The remote controller holder is a standard accessory.

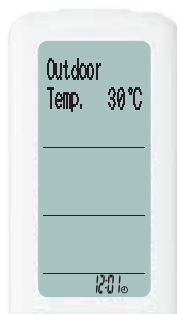
Pushing the Information Display button allows you to check the humidity and power consumption.



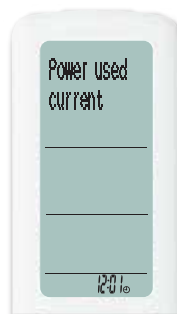
Indoor temperature



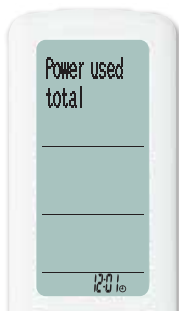
Indoor humidity



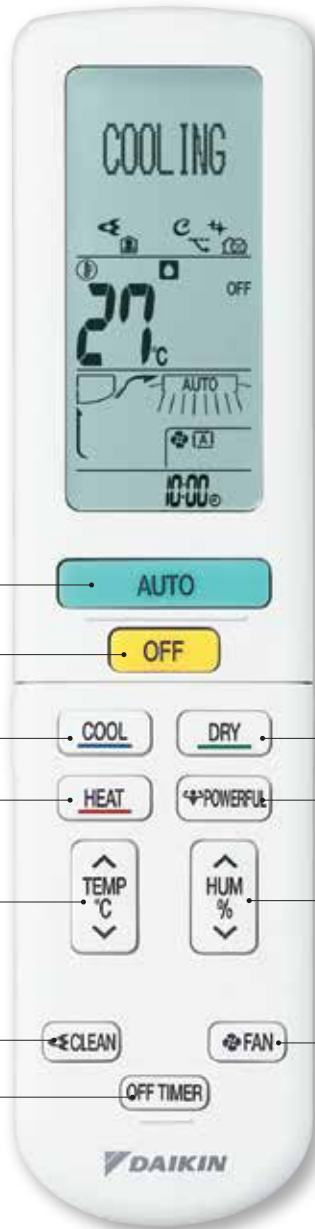
Outdoor temperature




Current power consumption



Total power consumption



 Starts operation.
Automatic Operation

Off switch

Starts cooling operation.

Starts heating operation.

Sets room temperature.

 Streamer Discharge Air Purifying



 Countdown Off Timer

Starts dehumidifying operation.
Sarara Dry Operation 

Inverter Powerful Operation 

Selects dehumidifying power:
Continuous, High, Standard, Low, Off.
Dry Cooling Operation 

Selects fan speed.
Indoor Unit Quiet Operation 

  Sets vertical airflow direction.
Circulation Airflow, Breeze Airflow,
Vertical Auto-Swing and
3-D Airflow

  3-Area Intelligent Eye
(Focus and Comfort) and
Auto Off Operation


Starts fan only operation.

 Child-Proof Lock

 Information Display

  Sets timers.

Resets dust box and
streamer unit cleaning indicators.

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

Econo Mode and
Outdoor Unit Quiet Operation 

Mould-Proof Operation 

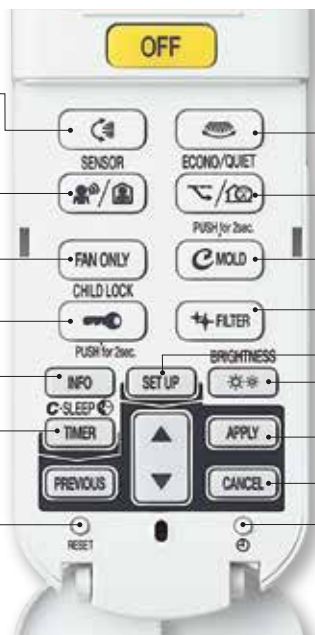
Cleaning Filter Operation 

Installation Position Setting 

Indoor Unit Lamp Brightness Setting
Completes controller setting. 

Cancels timers.

Sets clock.



Buttons for detailed settings such as timers and airflow direction are gathered under the cover.

Functions

Comfortable Airflow



3-Area Intelligent Eye (Focus)

Intelligent Eye has infrared sensors which detect human movement in left, right and centre zones. Intelligent Eye Focus automatically adjusts horizontal airflow to send air directly to a person.

► See page 11



3-Area Intelligent Eye (Comfort)

Intelligent Eye has infrared sensors which detect human movement in left, right and centre zones. Intelligent Eye Comfort automatically adjusts horizontal airflow to avoid blowing air onto a person.

► See page 11



Circulation Airflow

This function uses the Coanda effect to rapidly achieve the set temperature. The double air intakes and cross flow fan increase airflow to circulate air around a room.

► See page 17



Breeze Airflow

This function recreates the natural rhythm of a gentle breeze. With this airflow pattern, even people who are sensitive to drafts feel comfortable when air is directed towards them.

► See page 19



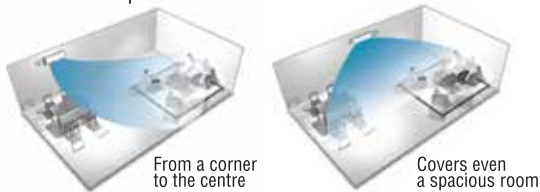
Power-Airflow Flap

The Power-Airflow Flap can flatten out during cooling operation to deliver cool air to the corners of a room. The flap can direct warm air straight down to the floor during heating operation.



Wide-Angle Louvers

The smoothly curved Wide-Angle Louvers provide wide airflow coverage for effective operation no matter where the indoor unit is placed in a room.



From a corner to the centre

Covers even a spacious room



Installation Position Setting

The room shape and installation position can be set on the wireless remote controller. This enables optimal control of the horizontal airflow direction.

► See page 19



Vertical Auto-Swing (up and down)

This function automatically moves the flaps up and down to distribute air across a room.



Horizontal Auto-Swing (left and right)

Horizontal Auto-Swing automatically moves the louvers to the left and right to cover a room with cool/warm air.



3-D Airflow

This function combines Vertical and Horizontal Auto-Swing to circulate a cloud of cool/warm air right to the corners of even large spaces. The flaps and louvers swing in turn.

► See page 19

Lifestyle Convenience



Auto Off Operation

Auto Off Operation uses 3-Area Intelligent Eye to automatically stop operation if no movement is detected in a room. A detection period of one or three hours can be set.

► See page 12



Standby Electricity Saving

Even when an air conditioner is not operating, it requires standby power. However, thanks to this function, the required standby power can be reduced.

► See page 11



Econo Mode

This mode limits maximum running current and power consumption. This improves operating efficiency and also prevents circuit breakers from being overloaded.

► See page 11



Inverter Powerful Operation

This function is convenient for boosting cooling/heating performance for a 20 minute period both when the air conditioner is first turned on or it is necessary to change the room temperature quickly.



Information Display

The LCD provides various details on current operation, including temperature and humidity. It also displays information such as total energy use over several days.

► See page 29



Wireless Remote Controller with Backlight

The large LCD and backlit buttons allow easy operation in the dark. Frequently used functions are conveniently located on the front of the controller.

► See page 29



Indoor Unit Lamp Brightness Setting

The indoor unit is equipped with an operation lamp, timer lamp and various other indicators. The brightness of these lamps can be adjusted to High, Low or Off.



Indoor Unit On/Off Switch

The unit can be conveniently started manually in the event the wireless remote controller is misplaced or the wireless remote controller batteries are not charged.

Comfort Control



Sarara Dry Operation

This dehumidifying function stabilises the room temperature and prevents overcooling, even for people who are particularly sensitive to cold.

► See page 16



Dry Cooling Operation

This combined dehumidifying and cooling operation dehumidifies by cooling at a low airflow rate, resulting in a lower room temperature.

► See page 16



Indoor Unit Quiet Operation

Indoor unit operating sound pressure levels are decreased by 7 to 10 dB (A) from the Low setting fan speed using the wireless remote controller.

► See page 26



Outdoor Unit Quiet Operation

Outdoor unit operating sound pressure levels are decreased from the rated operation sound using the wireless remote controller.

► See page 26



Automatic Operation

This function automatically selects cooling or heating operation mode based on the room temperature at start-up.



Auto Fan Speed

The microprocessor automatically controls fan speed to adjust the room temperature to the set temperature.



Hot-Start Function

After defrosting or when starting heating operation, air is pre-heated before discharge to prevent uncomfortable cold drafts.

Timers



Comfort Sleep Timer

This function controls the indoor temperature using a V-shaped pattern based on sleep science, helping to promote restful sleep. It is only necessary to set a wakeup time.

► See page 27



Daily On/Off Timer

This timer allows users to set the operation start and stop times so the air conditioner turns on and off at the same time every day.

► See page 27



Countdown Off Timer

The operation stop time can be preset for a period of 0.5 to 9.5 hours in 30 minute increments.

► See page 27



24-Hour On/Off Timer

This timer can start or stop the air conditioner within a 24-hour period. It can be preset in 10-minute steps by pressing the On/Off timer button on the wireless remote controller. The On timer and Off timer can be used in combination.



Quick Heating Timer

Heating operation can be preset to turn on one minute after the set wakeup time. Warm airflow starts just one minute later.

Cleanliness



Streamer Discharge Air Purifying

The streamer discharge decomposes bacteria and mould adsorbed by the indoor unit's photocatalytic filter. After the particles are trapped, they are irradiated by the streamer device.

► See pages 21 to 23



Mould-Proof Operation

The streamer discharge dries the inside of the indoor unit, heat exchanger and airflow routes. It effectively prevents the growth of both mould and odour-causing bacteria.

► See page 24



Cleaning Filter Operation

After operation stops, this function automatically brushes dust off the prefilter and collects it in a box. This helps to maintain filter performance and energy efficiency.

► See page 25



Photocatalytic Air-Purifying and Deodorising Filter

While the filter's micron-level fibres are able to effectively trap dust, its photocatalyst has the ability to adsorb odours.

► See page 23



Wipe-Clean Flat Panel

The flat panel design can be cleaned with only the single pass of a cloth across its smooth surface. The flat panel can also be easily removed for more thorough cleaning.

Worry Free



Child-Proof Lock

This function allows users to lock operation using the wireless remote controller. It is useful for preventing setting changes if children play with the controller.



Auto-Restart after Power Failure

The air conditioner memorises the settings for mode, airflow, temperature, etc., and automatically returns to them when power is restored after a power failure.



Self-Diagnosis with Digital Display

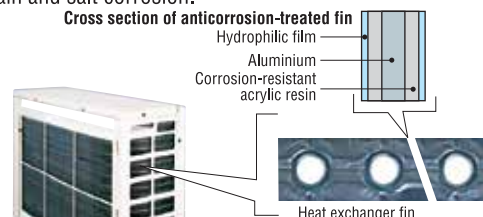
Malfunction codes are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.



Anticorrosion Treatment of Outdoor Heat Exchanger Fins

The outdoor unit's heat exchanger fins are processed using a special anticorrosion treatment. The surface is covered with a thin acrylic resin layer to enhance the fins' resistance to acid rain and salt corrosion.

Cross section of anticorrosion-treated fin



Automatic Defrosting

Before starting heating operation, a sensor checks for frost in the outdoor unit and performs automatic defrosting if necessary so that only warm air is discharged.

Specifications

Model name	Indoor unit			FTXZ25NVMM	FTXZ35NVMM	FTXZ50NVMM
	Outdoor unit			RXZ25NVM	RXZ35NVM	RXZ50NVM
Capacity	Cooling	Rated (Min.-Max.)	kW	2.45 (0.6-3.9)	3.45 (0.6-5.3)	4.95 (0.6-5.8)
			Btu/h	8,400 (2,000-13,300)	11,800 (2,000-18,100)	16,900 (2,000-19,800)
	Heating	Rated (Min.-Max.)	kW	3.6 (0.6-7.5)	5.0 (0.6-9.0)	6.3 (0.6-9.4)
			Btu/h	12,300 (2,000-25,600)	17,100 (2,000-30,700)	21,500 (2,000-32,100)
Power supply	1 phase, 220-240 V/220-230 V, 50/60 Hz					
Running current (220-230-240 V, 50 Hz/ 220-230 V, 60 Hz)	Cooling	Rated	A	2.1-2.0-2.0/2.1-2.0	3.2-3.0-2.9/3.2-3.0	5.3-5.1-4.8/5.3-5.1
Heating				2.9-2.8-2.7/2.9-2.8	4.6-4.4-4.3/4.6-4.4	6.5-6.2-6.0/6.5-6.2
Power consumption	Cooling	Rated (Min.-Max.)	W	430 (110-880)	680 (110-1,330)	1,150 (110-1,600)
				Heating	620 (100-2,010)	1,000 (100-2,530)
COP	Cooling	Rated (Min.-Max.)	W/W	5.70 (5.45-4.43)	5.07 (5.45-3.98)	4.30 (5.45-3.63)
				Heating	5.81 (6.00-3.73)	5.00 (6.00-3.56)
Indoor unit				FTXZ25NVMM	FTXZ35NVMM	FTXZ50NVMM
Front panel colour	White					
Airflow rate (H)	Cooling	m ³ /min (cfm)		10.7 (379)	12.1 (428)	15.0 (545)
	Heating			11.7 (415)	13.3 (469)	14.4 (517)
Fan speed	5 steps, quiet and automatic					
Sound pressure levels (H/L/SL)	Cooling	dB (A)		38/26/19	42/27/19	47/30/23
	Heating			39/28/19	42/29/19	44/31/24
Dimensions (H x W x D)				295 x 798 x 370		
Machine weight				15		
Outdoor unit				RXZ25NVM	RXZ35NVM	RXZ50NVM
Casing colour	Ivory white					
Compressor type	Hermetically sealed swing type					
Refrigerant charge (R-32)	kg			1.34		
Sound pressure levels (H)	Cooling	dB (A)		46	48	49
	Heating			46	48	50
Dimensions (H x W x D)				595 x 795 x 300		
Machine weight				43		
Operation range	Cooling			-10 to 43		
	Heating			-20 to 18		
Piping connection	Liquid	mm	ø6.4			
	Gas		ø9.5			
	Drain		Indoor unit: I.D. ø16.0, O.D. ø18.0 Outdoor unit: I.D. ø15.9			
Max. piping length				30		
Max. height difference				12		

Measurement conditions

- Cooling capacity is based on: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; piping length 7.5 m.
- Heating capacity is based on: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; piping length 7.5 m.
- Sound pressure levels are based on the temperature conditions 1 and 2 above. These are anechoic conversion values. These values are normally somewhat higher during actual operation as a result of ambient conditions.

Options

Indoor Unit

No.	Item	FTXZ25/35/50N
1	5-room centralised controller *1	KRC72A
2	Wiring adaptor for time clock/remote controller (Normal open pulse contact/normal open contact) *2	KRP413AB1S
3	Photocatalytic air-purifying and deodorising filter set *3	KAF046A41
4	Remote controller loss prevention with chain	KKF936A4

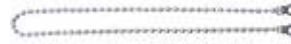
Notes: *1. A wiring adaptor (KRP413AB1S) is also required for each indoor unit.
 *2. The time clock and other devices should be obtained locally.
 *3. The filter is a standard accessory.



5-room centralised controller
KRC72A



Photocatalytic air-purifying and
deodorising filter
KAF046A41



Remote controller loss
prevention with chain
KKF936A4

Outdoor Unit

No.	Item	RXZ25/35/50N
1	Air direction adjustment grille	KPW937D4
2	Drain plug *1	KKP937A4

Note: *1. One set includes 5 pieces for 5 units.



Air direction adjustment grille
KPW937D4



Drain plug
KKP937A4

Control System

No.	Item	FTXZ25/35/50N
1	Central remote controller *1	DCS302CA61
2	Unified On/Off controller *1	DCS301BA61
3	Schedule timer *1	DST301BA61
4	Interface adaptor for DIII-NET use	KRP928BB2S

Note: *1. Interface adaptor for DIII-NET use (KRP928BB2S) is also required for each indoor unit.



Central remote controller
DCS302CA61



Unified On/Off controller
DCS301BA61



Schedule timer
DST301BA61



Warning



- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.



JMI-0107

Organization:
DAIKIN INDUSTRIES, LTD.
AIR CONDITIONING MANUFACTURING DIVISION

Scope of Registration:
THE DESIGN/DEVELOPMENT AND MANUFACTURE OF COMMERCIAL AIR CONDITIONING, HEATING, COOLING, REFRIGERATING EQUIPMENT, COMMERCIAL HEATING EQUIPMENT, RESIDENTIAL AIR CONDITIONING EQUIPMENT, HEAT RECLAIM VENTILATION, AIR CLEANING EQUIPMENT, MARINE TYPE CONTAINER REFRIGERATION UNITS, COMPRESSORS AND VALVES.



JQA-1452

Organization:
DAIKIN INDUSTRIES
(THAILAND) LTD.
Scope of Registration:
THE DESIGN/DEVELOPMENT
AND MANUFACTURE OF AIR
CONDITIONERS AND THE
COMPONENTS INCLUDING
COMPRESSORS USED FOR THEM

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