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.

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.

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.
A New Level of Comfort

Ururu Sarara offers a unique, total comfort experience for any lifestyle. Powerful year-round air conditioning with humidity control is just the beginning.

Ururu Sarara 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.

Ururu Sarara 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 provides unrivaled energy efficiency3.

Notes:
1. Ururu Sarara 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 Ururu Sarara 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 Ururu Sarara

Benefit 1
Energy Savings
- Double Air Intake
- High-Density Heat Exchanger
- Sharp-Edged Cross Flow Fan

Benefit 2
Next-Generation Refrigerant
- World’s First Use of R-32

Benefit 3
Humidity Control
- World’s First Use of Humidity Control

Benefit 4
Airflow Control
- Circulation Airflow
- Coanda Mechanism
- Double Air Intake

Benefit 5
Designed in Japan
- Innovative Design

Benefit 6
Air Purification
- Streamer Technology
- Flesh Air Supply Ventilation

Benefit 7
Automatic Filter Cleaning
- Cleaning Filter Operation

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## Lineup

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity</th>
<th>Heating Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTXZ25NV1B / RXZ25NV1B</td>
<td>2.5 (0.6-3.9) kW</td>
<td>3.6 (0.6-7.5) kW</td>
</tr>
<tr>
<td></td>
<td>8,500 (2,000-13,100) Btu/h</td>
<td>9,600 (2,000-25,500) Btu/h</td>
</tr>
</tbody>
</table>

### 2.5 kW Class

### 3.5 kW Class

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity</th>
<th>Heating Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTXZ35NV1B / RXZ35NV1B</td>
<td>3.5 (0.6-5.3) kW</td>
<td>5.0 (0.6-9.0) kW</td>
</tr>
<tr>
<td></td>
<td>11,900 (2,000-18,100) Btu/h</td>
<td>17,100 (2,000-30,700) Btu/h</td>
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</table>

### 5.0 kW Class

<table>
<thead>
<tr>
<th>Model</th>
<th>Cooling Capacity</th>
<th>Heating Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTXZ50NV1B / RXZ50NV1B</td>
<td>5.0 (0.6-5.8) kW</td>
<td>6.3 (0.6-9.4) kW</td>
</tr>
<tr>
<td></td>
<td>17,100 (2,000-19,400) Btu/h</td>
<td>21,500 (2,000-32,000) Btu/h</td>
</tr>
</tbody>
</table>

*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 Ururu Sarara’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, Ururu Sarara delivers greater energy efficiency. In January 2013, Ururu Sarara’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.

First 7-Star Rating for Australia

Ururu Sarara achieves high COPs of 4.55 to 6.10 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 August 2015. The models for Europe have also received top ratings.

The Ururu Sarara models listed below have received Hongkong’s grade 1 Energy Label, which is the regional highest energy-efficiency rating for inverter type air conditioners.

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.

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.

Electricity Consumption after One Year of Operation

Note 1. Test method: In-house simulation based on the principles of JIS-C9612B.1.6.4 for inverter models and JIS-C9612B.1.6.5 for non-inverter models

Test inverter model: 3.5 kW class model of Ururu Sarara 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 Made in Japan**

**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. Ururu Sarara improves the operational efficiency of the indoor heat exchanger by also utilizing the back of the device.

**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.

**Benefit 1**

- **Energy Savings**
  - The new indoor cross flow fan features sharp-edged impellers. This innovative shape increases airflow volume as well as energy efficiency.

- **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. Ururu Sarara improves the operational efficiency of the indoor heat exchanger by also utilizing the back of the device.

- **High-Density Heat Exchanger**
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**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.

**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.

**Ururu Sarara**

- **Conventional Daikin inverter models**
  - The back part of the heat exchanger is only partially used.

- **Ururu Sarara**
  - 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.

**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.

**DC Inverter Power Control**

DC Inverter Power Control

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.

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**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 approximately 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.

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

Intelligent Eye sensors detect an area where there is a person and adjust the horizontal airflow to send air directly to the person.
R-32 Refrigerant: A Better Choice for Climate Change

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 Ururu Sarara’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 three million units in cumulative sales as of 2015.

Three Million Units in Cumulative Sales

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.

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

In industrialised countries, the changeover from R-22 (HCFC) to R-410A (HFC) is well underway. Through replacement with R-410A, ozone depletion potential has been reduced to zero. However, R-410A still has a high global warming potential.

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.

Energy Efficiency

Air conditioners are major consumers of electricity but about half of the energy 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.

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; HCFC22, 675.
Humidity Control: A New Level of Comfort

Two Dehumidifying Choices

Daikin launched the world’s first first residential-use air conditioner to control both humidity and temperature in 1999. By controlling humidity as well as temperature, Ururu Sarara 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 Ururu Sarara, you can control the indoor humidity directly from the wireless remote controller.

Two dehumidifying operation modes 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.

Sarara Dry Operation

Ururu Sarara 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.

Ururu Sarara 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

Uses too much electricity

Electricity Consumption Compared with Conventional Daikin Dehumidifying

200 W

105 W

Conventional dehumidifying with heaters of Daikin models

Dry Cooling Operation

Selecting this operation mode 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.
3. Test conditions: Continuous operation with discharged airflow temp. 26°C, dehumidifying volume 300 cc/h in a thermostat chamber with indoor temp. 28°C, indoor humidity 60%, outdoor temp. 28°C.
4. To lower the humidity, Dry Cooling uses a lower airflow rate than standard cooling.

Benefit 3

Humidity Control

Control of Both Humidity and Temperature

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.

Even if the indoor temperature is the same, you usually feel cooler with lower humidity. Even if the indoor temperature is the same, you usually feel cooler with lower humidity.

Conventional dehumidifying with heaters

Sarara dry operation

Adjacks cooling capacity by steplessly changing the activated area of the heat exchanger based on the dehumidifying volume.

You can experience the same comfort with an indoor humidity of 40 to 60% even at 2°C above the set 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.
3. Test conditions: Continuous operation with discharged airflow temp. 26°C, dehumidifying volume 300 cc/h in a thermostat chamber with indoor temp. 28°C, indoor humidity 60%, outdoor temp. 28°C.
4. To lower the humidity, Dry Cooling uses a lower airflow rate than standard cooling.
As the room temperature increases, humidity decreases.

Indoor temp.: 10˚C
Indoor humidity: 50%

Indoor temp.: 22˚C
Indoor humidity: 25%

Heating using air conditioners

No-Water Supply Humidifying
Heating a room with an air conditioner can dry out the air, also leaving your eyes, throat and skin feeling dry. To prevent this, Ururu Sarara gently humidifies the air using an exclusive Daikin technology that does not require any water.

Ururu Sarara takes in water vapour from outside via the humidifying element in the outdoor unit. This means no additional water supply is required. Even at a relatively low set temperature, Daikin humidification helps you to feel warmer and save power.

Moisturising Operation
Moisturising Operation is a special operation mode for people with sensitive skin. During heating operation, the indoor unit automatically increases humidification while preventing air from blowing directly on to people. During cooling operation, it also raises humidification without changing the airflow volume.

Three Humidifying Choices
Ururu Sarara offers three unique humidifying modes. The first, humidifying heating operation, combines various functions that allow it to simultaneously circulate both water vapour and warm air throughout a room.

Moisturising Operation automatically switches to a high humidity setting during both heating and cooling operation. Ururu humidifying operation works independently and can be activated without using either heating or cooling.

<table>
<thead>
<tr>
<th>Operation mode</th>
<th>Cooling</th>
<th>Heating</th>
<th>Humidifying</th>
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</thead>
<tbody>
<tr>
<td>Humidifying heating operation</td>
<td>—</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Moisturising Operation</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
</tr>
<tr>
<td>Ururu humidifying operation</td>
<td>—</td>
<td>—</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Notes: 1. Ururu Sarara became the world’s first residential-use air conditioner to control both humidity and temperature when it launched in Japan in 1998. Based on a Daikin survey, Daikin is the only company offering advanced no-water supply humidifying technology in the residential-use air conditioners as of 2015. 2. This mode is not designed for personal beautification or the treatment of medical conditions associated with dry skin. 3. The fan speed can not be changed.
Circulation Airflow Rapidly Cools a Large Room

Ururu Sarara circulates airflow and prevents temperature fluctuations even in large spaces. Daikin’s original Coanda mechanism and Double Air Intake provide greater airflow along the ceiling.

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 in the corners of the room is half of that for a conventional Daikin inverter model for the Japanese market.

Notes: 1. Temperature distribution after seven minutes of Circulation Airflow operation.
2. The test models are 4.0 kW class model of Ururu Sarara for the Japanese market and 4.0 kW class Daikin inverter model for the Japanese market without Circulation Airflow.
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)
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.

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 Ururu Sarara to provide greater airflow along the ceiling.

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.
2. The test models are 4.0 kW class model of Ururu Sarara for the Japanese market and 4.0 kW class Daikin inverter model for the Japanese market without Circulation Airflow.
3. 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.
5. It includes when setting Automatic for vertical airflow direction during heating.

Benefits

1. Circulation Airflow rapidly achieves a uniform temperature in each corner of the room.
2. It takes a long time to achieve a similar temperature in all corners of the room.
3. For the 5.0 kW model, the airflow distance is 12 metres².
4. The time required to reach the set temperature is only half of that for a conventional Daikin inverter model for the Japanese market.

Conventional airflow of Daikin models

Airflow discharged from the unit

Circulation Airflow

Airflow discharged from the unit

Circulates cool air with a large airflow volume.

Circulates warm air with a large airflow volume.

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

Breeze Airflow
Ururu Sarara 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 waves. Daikin has recreated this variable rhythm using its advanced airflow control technology and coanda air direction system.

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

Inspired by Japanese “Ogi”
In 2013, Ururu Sarara 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.

Ururu Sarara 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 Ururu Sarara it has created a leading air conditioner integrating a new shape and cutting-edge technologies developed in Japan.
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)
- Excited oxygen
- 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 irritates and decomposes the trapped particles\(^1\). It powerfully removes mould, viruses, allergic substances and harmful chemical substances. The following tests are individual simulations which use Daikin’s streamer device\(^2\).

**Mould and Viruses\(^3\)**

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

**Allergic Substances**

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

**Exhaust Gas and Diesel Particles**

The streamer discharge decomposes exhaust gas and diesel particles.

**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.

**Odour-Causing Bacteria**

Odour-causing bacteria 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.

**Mould Decomposition and Removal**

Results: The streamer discharge decomposed and removed 99.9% of mould in 24 hours. The test was conducted using one type of bacterium.

Result certificate: 10072482001-01

Test location: Japan

Test method: Antibacterial test, mould removal test

Test mould: Cladosporium

Test conditions: Temperature 27˚C, humidity 70%, mould attached to the sensors: Eurotium herbariorum J-183

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 unit, and should not be used for medical applications.

**Notes: 1.** The decomposer is effective for substances adsorbed on the Photocatalytic Air-Purifying and Deodorising Filter. This product is not designed as a medical device and should not be the subject of medical applications.

**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.

**Mould inside Indoor Unit**

Mould-Proof Operation prevents the growth of mould. The pictures below show the mould growth after 3 days of cooling operation.

**Deodorising Filter**

Photocatalytic Air-Purifying and Deodorising Filter

**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. 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. This in-house simulation was conducted in Japan.

**Notes: 2.** Viruses and other substances 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.

**Notes: 3.** Tests were conducted in a simulated environment with laboratory conditions. They were not conducted under actual conditions.

**Notes: 4.** Testing method: Harrow method based on the standards of the Home Electric Appliances Fair Trade Conference; Testing organisation: Kyoto Biseibutu Kenkyusho; Testing certificates: 100805, 100806, 100807

**Images:**

- Before irradiation
- After 15 minutes of irradiation
Fresh Air Supply Ventilation
This function delivers a cloud of fresh outdoor air into a room. Before the air is supplied, unpleasant substances are removed by a thermal catalyst in the outdoor unit. They are also eliminated by an air supply filter in the indoor unit. With its powerful airflow, this mode can ventilate a large 29 m² room in two hours.¹
Ururu Sarara features air supply ventilation, which offers several advantages over exhaust type ventilation. The supply method is able to prevent drafts from entering, helping to reduce energy loss and temperature fluctuation.

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.

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: Models for the Japanese market similar to Ururu Sarara
Annual energy consumption: 1.45 kWh when the Cleaning Filter Operation was used; 1.43 kWh when the Cleaning Filter Operation was not used.

Electricity Consumption after One Year of Operation

<table>
<thead>
<tr>
<th>Without Cleaning Filter Operation</th>
<th>With Cleaning Filter Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity Consumption (kWh)</td>
<td>125%</td>
</tr>
<tr>
<td></td>
<td>100%</td>
</tr>
</tbody>
</table>

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

Air Purification

Air supply ventilation
This ventilation method supplies outdoor air into a room to keep the interior at a higher pressure than outdoors. It prevents drafts from entering and reduces energy loss and temperature fluctuation.

Air exhaust ventilation
This ventilation method discharges indoor air from a room to keep the interior at a lower pressure than outdoors. It continuously draws air into a room and increases energy loss and temperature fluctuation.

Note: 1. Simulation using 4.0 kW class Ururu Sarara models for the Japanese market. Conditions: ceiling height of 2.4 m, high airflow volumes.
Timers and Quiet Operation

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

Temperature programme with V-shaped pattern

Time 0:00 a.m. 3:00 a.m. 6:00 a.m. Sleep 9:00 a.m. 12:00 a.m. 3:00 a.m. 6:00 a.m. Wakeup

Humidity programme with V-shaped pattern

Comfort Sleep Timer with Humidity Control
Using the air conditioner while sleeping can leave you feeling uncomfortable and also dry your throat and skin. This function first lowers the humidity to support more restful sleep and then raises it during the four hours before you wake to stop drying.

Mechanism of Good Sleep
More than 50% of people claim to have disturbed sleep. 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.

Total Time Spent in Deep Sleep (Experiment Results)
The increase in deep sleep was tested by Daikin Environmental Laboratory, Ltd. The V-shaped pattern programme increased deep sleep by 35% (data for 5 hours of sleep).

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.
Quiet Operating Sound of 19 dB (A)

Timers and Quiet Operation

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.)

FTXZ35N during cooling operation

<table>
<thead>
<tr>
<th>Fan speeds</th>
<th>Sound pressure levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>High (H)</td>
<td>42 dB (A)</td>
</tr>
<tr>
<td>Low (L)</td>
<td>27 dB (A)</td>
</tr>
<tr>
<td>Quiet (SL)</td>
<td>19 dB (A)</td>
</tr>
</tbody>
</table>

Outdoor unit

A cloud of warm air is delivered to the floor one minute later. Defrosting operation uses heat left from the previous night.

Quick Heating Timer

On cold mornings, warm airflow can be slow to start due to low temperature outdoor air and defrosting of the outdoor unit. This function combines automatic defrosting and heating preparation operations to enable faster discharge of warm air.

Rapid spot heating is performed just one minute after pushing the heating operation start button and then warm airflow begins one minute later. A large volume of air quickly reaches the floor near the indoor unit. This function requires you to preset your wakeup time.

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 FTX22SN and FTXZ3SN is 19 dB (A).

Comfort Sleep Timer

Supports restful sleep.

Daily On/Off Timer

Starts and/or stops daily operation at the same time.

Countdown Off Timer

Adjusts the operation stop time each day according to the weather.

Quick Heating Timer

Performs rapid heating at the wakeup time.

Timer features

<table>
<thead>
<tr>
<th>Comfort Sleep Timer</th>
<th>Daily On/Off Timer</th>
<th>Countdown Off Timer</th>
<th>Quick Heating Timer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports restful sleep.</td>
<td>Starts and/or stops daily operation at the same time.</td>
<td>Adjusts the operation stop time each day according to the weather.</td>
<td>Performs rapid heating at the wakeup time.</td>
</tr>
</tbody>
</table>

19 dB (A) Is So Quiet You Can Even Hear Whispers

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

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 with backlight and luminous buttons also allow easy operation in the dark. The LCD provides a range of information, including indoor and outdoor temperatures, humidity and power consumption.

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

![Remote controller holder](image)

Luminous 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.
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 intake and cross flow fan increase airflow to circulate air around a room.  
See page 10

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 11

Power-Airflow Flap
The Power-Airflow Flap flattens out during cooling operation to deliver cool air to the corners of a room. The flap also directs warm air straight down to the floor during heating operation.  
See page 11

Wide-Angle Louvers
The Wide-Angle Louvers provide wide airflow coverage for effective operation no matter where the indoor unit is placed in a room.  
See page 11

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

Steady 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 power consumption. It improves operating efficiency and also prevents circuit breakers from being overloaded.  
See page 11

Powerful Operation
This function boosts cooling and heating performance for a 20 minute period. It is convenient when it is necessary to change the room temperature quickly.  
See page 11

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 31

Wireless Remote Controller with Backlight
The backlight LCD allows easy operation in the dark. Frequently used functions are conveniently located on the front of the controller.  
See page 33

Wireless Remote Controller with Luminous Button
The luminous button absorbs and saves light and then slowly releases it. This makes it easy to see in the dark.  
See page 33

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.  
See page 33

Comfort Control

Moisturising Operation
This is a special operation mode for people with sensitive skin. During heating operation, it automatically increases humidification while directing air away from people. During cooling operation, it raises humidification without changing the airflow volume.  
See page 18

Indoor Unit Quiet Operation
Indoor unit operating sound pressure levels are decreased from the Low setting fan speed using the wireless remote controller.  
See page 32

Outdoor Unit Quiet Operation
Outdoor unit operating sound pressure levels are decreased from the rated operating sound using the wireless remote controller.  
See page 32

Auto Fan Speed
The microprocessor automatically adjusts the fan speed to high to rapidly reach the set temperature. Once the temperature is achieved, this function reduces the fan speed to low.  
See page 33

Hot-Start Function
After defrosting or when starting heating operation, air is pre-heated before discharge to prevent uncomfortable cold drafts.  
See page 33

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 page 30

Mould-Proof Operation
The streamer discharge dries the inside of the indoor unit, heat exchanger and airflow routes. It prevents the growth of both mould and odour-causing bacteria.  
See page 30

Cleaning Filter Operation
After operation stops, this function automatically brushes dust off the filter and collects it in a box. This helps to maintain filter performance and energy efficiency.  
See page 20

Fresh Air Supply Ventilation
This mode delivers fresh outdoor air into a room. Before the air is supplied, odours are removed in the outdoor unit and then pollen and dust in the indoor units. With its powerful airflow, this mode can rapidly ventilate even large spaces.  
See page 27

Photocatalytic Air-Purifying and Deodorising Filter
While the filter’s micro-level fibres are able to effectively trap dust, its photocatalyst has the ability to adsorb odours.  
See page 25

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 thorough cleaning.  
See page 28

Timers

Comfort Sleep Timer
This function controls the indoor temperature and humidity 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 12

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 33

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 33

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.  
See page 33

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.  
See page 33

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.  
See page 33

Auto-Restart after Power Failure
The air conditioner remembers the settings for the operation mode (cooling, dry, heating, automatic and fan only), airflow, temperature, etc., and automatically returns to them when power is restored after a power failure.  
See page 33

Self-Diagnosis with Digital Display
Malfunction codes are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.  
See page 33

Anti-corrosion Treatment of Outdoor Heat Exchanger Fins
The outdoor unit’s heat exchanger fins are processed using a special anti-corrosion treatment. The surface is covered with a thin acrylic resin layer to enhance the fins’ resistance to acid rain and salt corrosion.  
See page 33

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.  
See page 33

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

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>RXZ25NV1B</th>
<th>RXZ35NV1B</th>
<th>RXZ50NV1B</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTXZ25NV1B</td>
<td>Capacity</td>
<td>kW</td>
<td>2.5 (0.6-3.9)</td>
<td>3.5 (0.6-3.9)</td>
<td>5.0 (0.6-5.3)</td>
</tr>
<tr>
<td></td>
<td>Cooling</td>
<td>Btu/h</td>
<td>6,500 (2,000-12,100)</td>
<td>11,900 (2,000-18,100)</td>
<td>17,100 (2,000-19,400)</td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td>Btu/h</td>
<td>3.6 (0.6-7.5)</td>
<td>5.0 (0.6-9.0)</td>
<td>6.3 (0.6-9.4)</td>
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<tr>
<td></td>
<td>Power supply</td>
<td>1 phase, 220-240 V, 50 Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Running current</td>
<td>3.1-2.9-2.8 A</td>
<td>4.6-4.4-4.3 A</td>
<td>6.5-6.2-6.0 A</td>
<td></td>
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<tr>
<td></td>
<td>Power consumption</td>
<td>11,900 (2,000-18,100)</td>
<td>17,100 (2,000-30,700)</td>
<td>21,500 (2,000-32,000)</td>
<td></td>
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<tr>
<td></td>
<td>COP</td>
<td>6.0 (1.5-4.4-3.3)</td>
<td>6.4 (2.8-3.9-3.6)</td>
<td>6.8 (2.4-3.9-3.6)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Indoor unit</td>
<td>Front panel colour</td>
<td>White</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td></td>
<td>Airflow rate (H)</td>
<td>Cooling m³/min</td>
<td>10.7 (379)</td>
<td>12.1 (428)</td>
<td>15.0 (545)</td>
</tr>
<tr>
<td></td>
<td>Fan speed</td>
<td>Heating (cfm)</td>
<td>11.7 (415)</td>
<td>13.3 (469)</td>
<td>14.4 (517)</td>
</tr>
<tr>
<td></td>
<td>Sound pressure levels</td>
<td>Cooling dB (A)</td>
<td>38/26/19</td>
<td>42/27/19</td>
<td>47/30/23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Heating</td>
<td>38/26/19</td>
<td>42/29/19</td>
<td>44/31/24</td>
</tr>
<tr>
<td></td>
<td>Dimensions (H x W x D)</td>
<td>mm</td>
<td>295 x 798 x 372</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Machine weight</td>
<td>kg</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Options

#### Indoor Unit

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>FTXZ25/35/50N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5-room centralised controller</td>
<td>KRC72A</td>
</tr>
<tr>
<td>2</td>
<td>Wiring adaptor for time clock/remote control</td>
<td>KRP413A1B1S</td>
</tr>
<tr>
<td>3</td>
<td>Photocatalytic air-purifying and deodorising filter set</td>
<td>KAF046A1</td>
</tr>
<tr>
<td>4</td>
<td>Remote controller loss prevention with chain</td>
<td>KKF936A4</td>
</tr>
</tbody>
</table>

### Outdoor Unit

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>RXZ25/35/50N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air direction adjustment grille</td>
<td>KPW937D4</td>
</tr>
<tr>
<td>2</td>
<td>Drain plug</td>
<td>KKP937A4</td>
</tr>
</tbody>
</table>

### Control System

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>FTXZ22/25/35/50N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Central remote controller</td>
<td>DCS302CA61</td>
</tr>
<tr>
<td>2</td>
<td>Unified On/Off controller</td>
<td>DCS301B61</td>
</tr>
<tr>
<td>3</td>
<td>Schedule timer</td>
<td>DTS301B61</td>
</tr>
<tr>
<td>4</td>
<td>Interface adaptor for DIII-NET use</td>
<td>KRP921B25S</td>
</tr>
</tbody>
</table>

---

Measurement conditions:
1. Cooling capacity is based on: indoor temp. 27 °CDB, 19 °CWB; outdoor temp. 35 °CDB; piping length 5 m.
2. Heating capacity is based on: indoor temp. 20 °CDB; outdoor temp. -2 °CDB, 6 °CWB; piping length 5 m.
3. 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.