

Daikin air conditioners
for your home

WALL MOUNTED UNIT

R-410A



www.daikineurope.com

FTXR-E



Ururu
Sarara



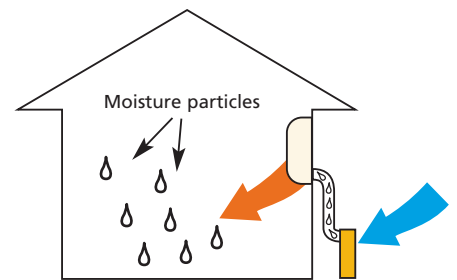
Heating a room in winter tends to dry the air, which can lead to sore throats, colds and other ailments. During summer a high degree of humidity, even with moderate temperatures, can be very uncomfortable. To enjoy year-round comfort, you need more than just temperature control. The ability to adjust both the level of humidity and a room's ventilation is also essential. However, this has not been possible with conventional air conditioners. Until now... Daikin's new Ururu Sarara, with its unique combination of humidification, dehumidification, ventilation and purification provides exactly the room comfort you want, any time of the year.

URURU HUMIDIFICATION

All the moisture in the outdoor air available inside

The Ururu humidification subsystem uses a special built-in humidification element in the outdoor unit to absorb the moisture present in the outdoor air and send it to the indoor unit.

Since moisture is not absorbed from the room's air, quick and effective humidification is possible even with the drier air of winter.



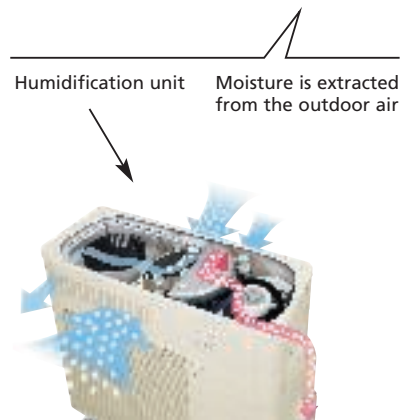
Humidification unit Moisture is extracted from the outdoor air

Ururu humidification evenly heats the entire room

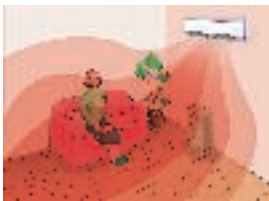
The unit incorporates both an air conditioner and a humidifier, making ideal heating possible. The URURU humidification subsystem effectively supplies the 450ml/h of water required to fully humidify an entire large living room.

Unlike a standard humidifier, this indoor unit has no water tank. Thus no need for a water supply and no time-consuming cleaning.

This feature also eliminates the worrisome growth of bacteria and other micro-organisms.

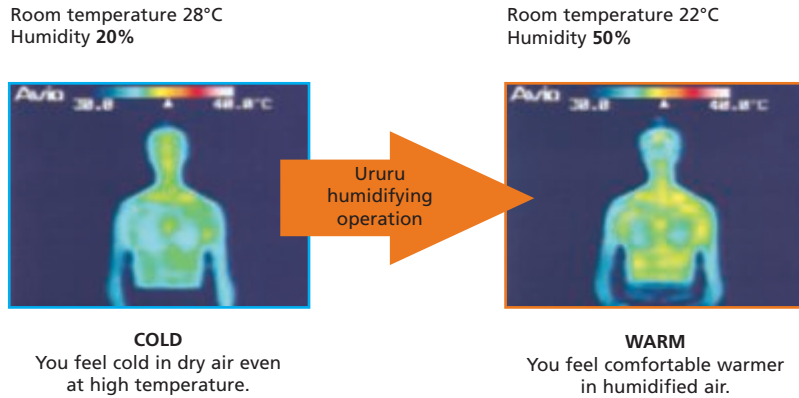


Fully humidified air is delivered to the room.



Humidified air feels warmer

Dry air actually makes your body feel cooler. Ururu humidification at moderate levels and a relatively low temperature will probably leave you feeling warmer. This also prevents dry skin and sore throats, and maintains a humidity level in which viruses cannot survive.

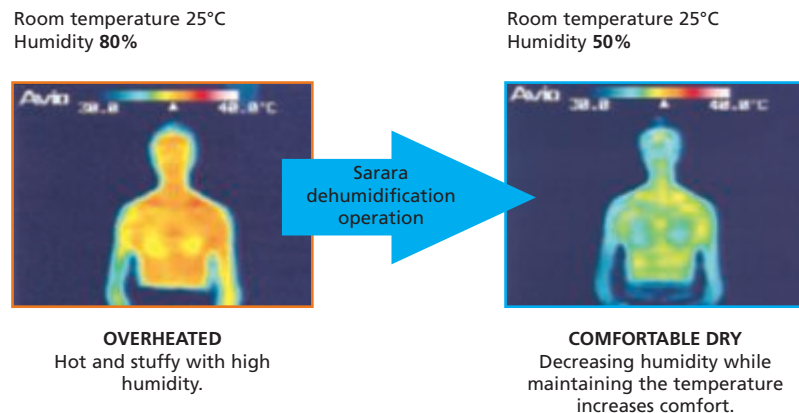


SARARA DEHUMIDIFICATION

In as much as humidification has beneficial effects on comfort levels, so does dehumidification. During the summer a high degree of ambient air humidity, even at moderate temperatures, can make a room feel hot and stuffy. Ururu Sarara however, reduces indoor humidity without affecting the room temperature, by mixing dry cool air with warm air to produce comfortable dry air (Sarara Drying Operation, also called reheating humidification). This feature prevents overcooling, which is particularly appreciated by people who are sensitive to cold. If the indoor temperature becomes too high, Ururu Sarara reduces the humidity level by reducing also temperature (cooling dehumidification).

Lower humidity creates comfortable dryness, even at a constant temperature

Decreasing the level of humidity will increase your feeling of comfort, even while maintaining the same room temperature. This feature prevents overcooling, which is especially good for people who are sensitive to cold.

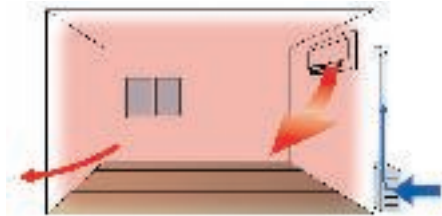


Humidification and dehumidification operations can be used under specific indoor and outdoor temperature and humidity conditions (similar to cooling and heating operation range) Please refer to the technical databooks for more details.

POWERFUL VENTILATION

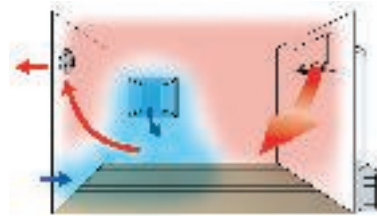
With a powerful ventilation capacity of 32 m³/h, the Ururu Sarara is the first residential unit which can fill an average sized room (26 m²) with fresh air within 2 hours.

New: Supply ventilation



The cold outdoor air is heated before being taken in while operating in air-conditioning heating mode.

Conventional: Ventilation with ventilator or by opening window



The temperature in the room drops as cold outdoor air enters.

The supply ventilation function can refresh the air in a room with the window closed.

POWERFUL AIR PURIFICATION

Increased indoor air quality with Daikin Flash Streamer technology

Incoming outdoor air is purified in two stages: first in the outdoor unit and second in the indoor unit. In the outdoor unit, exhaust gases and unpleasant odours will be decomposed (during ventilation operation).

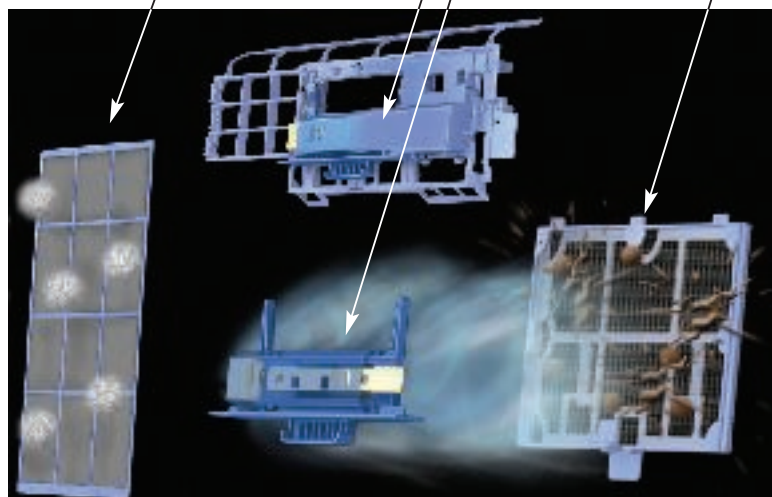
Once in the indoor unit, the air will be filtered out of dust and pollen and the photocatalytic air purification filter will further decompose odours. Finally, the Flash Streamer technology, already implemented in last generation Daikin Air Purifiers, allows breaking down formaldehyde, viruses, moulds, etc.



Pre-filter:
catches dust

Flash Streamer:
releases streams of high-speed electrons with strong oxidation power

Deodorising filter:
odours are adsorbed and broken down before the air is returned into the room



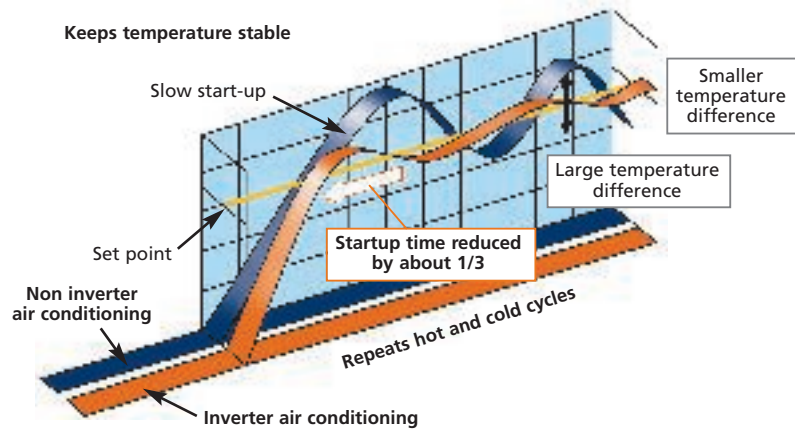
ENERGY EFFICIENT

- **Energy label:** up to class A

- **Inverter technology :**

1. Improved energy efficiency:

The use of integrated inverter control ensures maximum **energy efficiency** by supplying only the required heating or cooling load where a standard non inverter unit would supply maximum load in an on/off regime.



2. Improved comfort:

The rapid start up time provided by the inverter increases **comfort** by reducing the lead time in obtaining the required indoor temperature. Once the required temperature is reached, the inverter unit continuously scans the room for small changes and adjusts the room temperature in seconds, thereby increasing comfort once again.

Further energy savings have been achieved with the implementation of a new swing compressor and a new outlet grille, twisted in order to decrease air flow resistance and increase efficiency.



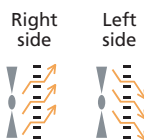
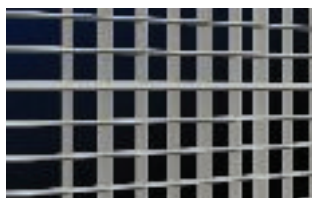
New swing compressor

Adopted cylinder structure is less liable to heat-transfer loss and deformation.

Outlet grille

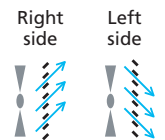
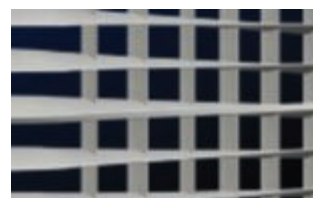
Twisted grilles to make the air flow from outdoor unit fan smooth and lessen the air flow resistance.

Standard air outlet grille



Not efficient because of air flow resistance caused by horizontal grille.

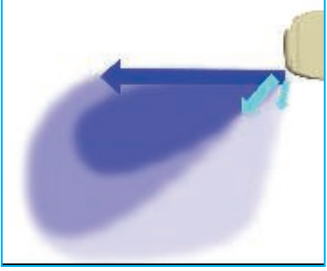
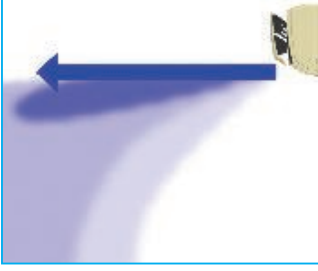
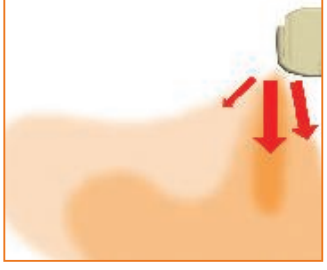

New twist grille



Highly efficient due to less air flow resistance by twisting left and right side of the grille respectively to be parallel with the air flow.

COMFORTABLE AIR FLOW

The 'comfort mode' realizes fine and efficient air flow control by controlling 2 horizontal flaps independently.

| | Current model | New model |
|---------|--|---|
| Cooling |  <p>Air flow is spread out !</p> |  <p>Upward air flow without air flow loss</p> |
| Heating |  <p>Air flow is spread out !</p> |  <p>The warm air reaches the floor.</p> |

STYLISH DESIGN



In Japan, the URURU SARARA already won the Good Design Award! This award is Japan's only synthetic design evaluation/recommendation system and is sponsored by the Japanese Industrial Design Promotion Organisation

OTHER FUNCTIONS

Under the **MOISTURIZING OPERATION MODE** a particularly skin-friendly environment is created. A high relative humidity level, combined with a comfortable air flow and the emission of vitamins and hyaluronic acid make this possible.

Thanks to the **BREEZE COOLING AIR FLOW**, it is possible to feel cool even with rather high temperature setting. By making air flow direction fluctuate, a pleasant cool breeze, as that in nature, is emulated.

COMFORT SLEEP OPERATION: Following the natural pattern of human body during the sleeping cycle, the unit will adapt room temperature to body temperature in the night. This means that temperature will gradually be decreased by 2 °C for 3 hours after the beginning of the cycle, and gradually increased again to original setting 1 hour before waking up. Sleeping comfort increased!

The growth of undesired moulds is prevented with a sudden fall of room humidity that is sustained for 3 hours. **MOULD SHOCK OPERATION** is first in the industry!

Capacity and power input

| HEAT PUMP - INVERTER CONTROLLED (air cooled) | | | | FTXR28E | FTXR42E | FTXR50E |
|--|-------------|-------------|----------------|----------------|----------------|---------|
| | | | | RXR28E | RXR42E | RXR50E |
| Cooling capacity | min~nom~max | kW | 1.55~2.80~3.60 | 1.55~4.20~4.60 | 1.55~5.00~5.50 | |
| Heating capacity | min~nom~max | kW | 1.30~3.60~5.00 | 1.30~5.10~5.60 | 1.30~6.00~6.20 | |
| Nominal input | cooling | min~nom~max | 0.25~0.56~0.80 | 0.26~1.05~1.32 | 0.26~1.46~1.80 | |
| | heating | min~nom~max | 0.22~0.70~1.41 | 0.22~1.18~1.60 | 0.23~1.51~1.77 | |
| EER | | | 5.00 | 4.00 | 3.42 | |
| COP | | | 5.14 | 4.32 | 3.97 | |
| Energy label | cooling | | A | A | A | |
| | heating | | A | A | A | |
| Annual energy consumption | | kWh | 280 | 525 | 730 | |

Notes:

- 1) Energy label: scale from A (most efficient) to G (least efficient).
- 2) Annual energy consumption: based on average use at 500 running hours per year full load (= nominal capacity).

Specifications indoor units

| | | | | FTXR28E | FTXR42E | FTXR50E |
|-----------------------|---------|--------|---------------------|--------------------|--------------|--------------|
| Dimensions | HxWxD | mm | | 305x890x209 | | |
| Weight | | kg | | 14 | | |
| Front panel color | | | | White | | |
| Air flow rate | cooling | H/L/SL | m ³ /min | 11.1/6.5/5.7 | 12.4/6.8/6.0 | 13.3/7.3/6.5 |
| | heating | H/L/SL | m ³ /min | 12.4/7.3/6.5 | 12.9/7.7/6.8 | 14.0/8.3/7.3 |
| Sound pressure level* | cooling | H/L/SL | dB(A) | 39/26/23 | 42/27/24 | 44/29/26 |
| | heating | H/L/SL | dB(A) | 41/28/25 | 42/29/26 | 44/31/28 |
| Sound power level | cooling | H | dB(A) | 55 | 58 | 60 |
| Piping connections | Liquid | mm | | ø6.4 | | |
| | Gas | mm | | ø9.5 | | |
| | Drain | mm | | ø18.0 | | |
| Refrigerant type | | | | R-410A | | |
| Power supply | | V1 | | 1~, 220~240V, 50Hz | | |

* During humidification noise level will be slightly higher than in normal operation

Specifications outdoor units

| HEAT PUMP - INVERTER CONTROLLED | | | | RXR28E | RXR42E | RXR50E |
|---------------------------------|---------|------|-------|---------------------------|--------|--------|
| Dimensions | HxWxD | mm | | 693x795x285 | | |
| Weight | | kg | | 48 | | |
| Casing colour | | | | Ivory white | | |
| Sound pressure level | cooling | H | dB(A) | 46 | 48 | 48 |
| | heating | H | dB(A) | 46 | 48 | 50 |
| Sound power level | cooling | H | dB(A) | 60 | 62 | 62 |
| Compressor | | type | | Hermetically sealed swing | | |
| Refrigerant type | | | | R-410A | | |
| Refrigerant charge | | kg/m | | 1.4 | | |
| Max. piping length | | m | | 10 | | |
| Max. level difference | | m | | 8 | | |
| Operation range | cooling | H | °CDB | -10~43 | | |
| | heating | H | °CWB | -20~18 | | |
| Power supply | | V1 | | 1~, 220~240V, 50Hz | | |



Accessories: control systems

| INDOOR UNITS | | FTXR28E | FTXR42E | FTXR50E |
|--|---------------------------|---------|-----------|---------|
| Wiring adapter for time clock/ remote control (1) | normal open contact | | KRP413A1S | |
| | normal open pulse contact | | KRP413A1S | |
| Centralised control board | up to 5 rooms (2) | | KRC72 | |
| Central remote control | | | DCS302C51 | |
| Unified ON/OFF control | | | DCS301B51 | |
| Schedule timer | | | DST301B51 | |
| Interface adapter (3) | | | KRP928A2S | |

(1) Wiring adapter is supplied by Daikin. Timer and other devices: field supply.

(2) Wiring adapter is also required for each indoor unit.

(3) For DIII-NET adapter

Accessories: indoor units

| INDOOR UNITS | FTXR28E | FTXR42E | FTXR50E |
|---|---------|------------|---------|
| Air purification and deodorising filter set without frame | | KAF974B42S | |
| Air supply filter with frame | | KAF963A43 | |
| Anti-theft protection for remote control | | KKF936A4 | |

Accessories: outdoor units

| OUTDOOR UNITS | RXR28E | RXR42E | RXR50E |
|--|--------|-------------|--------|
| Air direction adjustment grille | | KPW937A4 | |
| Drain plug | | KKP937A4 | |
| Extension hose set for humidification (2m) | | KPMH942A402 | |
| Relay joint for humidification (10 pcs.) | | KPMJ942A4 | |
| L-shape cuffs for humidification (10 pcs.) | | KPMH950A4L | |
| Hose for humidification (10m)(l) | | KPMH942A42 | |

(l) A standard humidification hose of 8m is supplied together with the outdoor unit

Note:

1) V1 = 1= , 220-240V, 50Hz

2) Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB • outdoor temperature 35°CDB • refrigerant piping length 7.5m • level difference 0m.

3) Nominal heating capacities are based on: indoor temperature 20°CDB • outdoor temperature 7°CDB/6°CWB • refrigerant piping length 7.5m • level difference 0m.

4) Humidification capacities are measured under Eurovent standard testing heating conditions (Outdoor temperature = 7°CDB/6°CWB and piping length = 7.5m) and ventilation time of 0.5 changes/hour

5) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.

6) The sound pressure level is measured via a microphone at a certain distance from the unit (for measuring conditions: please refer to the technical databooks).

7) The sound power is an absolute value indicating the "power" which a sound source generates.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

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