CREATION OF COMFORT

The AIRSTAGE™ series provides high energy savings, comfort, and reliability to the end user. The design, installation, and servicing were developed based on the concepts of high flexibility and simplicity. We offer an abundant VIP system lineup to match regional and customer needs by providing the best combination from low to high capacities and from giving priority to conserving installation space to giving priority to high efficiency.

Heat Pump Modular type for heating or cooling operation

AIRSTAGE™ V-III

8 HP - 48 HP 32 Models
• Space saving combination: 8 HP to 48 HP/11 models
• Energy efficiency combination: 20 HP to 42 HP/11 models.

P30~

NEW

For LARGE BUILDING

Heat Pump type for heating or cooling operation

AIRSTAGE™ J-III

4 HP - 6 HP 6 Models
• Single phase: 4 HP to 6 HP/3 models
• 3 phase: 4 HP to 6 HP/3 models.

P42~

For SMALL BUILDING
OUR SOLUTION FOR ALL

Fujitsu General provides the best solutions suitable for properties.

Solution Point

We provide Fujitsu General total solutions for the property unique needs.

THE TOTAL SOLUTION

- Pleasant Comfort
- Excellent Energy Saving
- High Durability
- Enhanced Safety
- Easy Installation

PROPERTIES

Target Property

RESIDENTIAL & LIGHT COMMERCIAL

For Apartment, Villa and Shops etc.

We offer comfortable and economical air conditioning systems focused on small to medium-sized buildings.

COMMERCIAL

For Large Building

We provide single and modular type VRF systems designed for high efficiency, comfort, freedom of design, easy installation and high reliability.
2017 NEW PRODUCTS

Small VRF AIRSTAGE™ J-III TROPICAL series

• 36 to 54K BTU class, 1-phase & 3-phase 6 models
• Compact Design
• High energy efficiency with All Inverter Technology
• Flexible Design with Total Piping Design of 180m

Individual Control

Wired Remote Controller (Touch Panel)
• Easy-to-use and highly-functional controllers
• Maintains 2 separate set points for heating and cooling.
• Automatically changes mode between heating and cooling.

Simple Remote Controller
• Up to 16 indoor units can be controlled
• Simple design to match the stylish interior.
• Large LCD screen & simple operation buttons

Centralized Control

Touch Panel Controller
• Up to 400 indoor units can be controlled
• Control and monitor Fujitsu’s air conditioner via LAN or Internet.
• Easy maintenance & installation

System Controller

System Controller Lite
• Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.*
• Simple BMS, 3rd party supported by Modbus communication can be controlled.

* System controller lite = Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.

Converor / Adaptor

Various Convertors
• 4 models of hardware and software are put on the market all together.

Service & Maintenance Tool

Service Tool & Web Monitoring Tool
• Extensive monitoring and analysis functions for installation and maintenance
• Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
• Automatic operation check for refrigeration cycle.

NEW AIRSTAGE™ J-III TROPICAL series
Fujitsu General offers the small VRF system to match from large living rooms to bedrooms for apartment and villa.

**APARTMENT, VILLA**

- **Space saving installation**
  - Mini duct type with 198 mm height and 450 mm depth. This can be installed in narrow ceiling space easily.

- **APARTMENT**
  - Large space air conditioning in the dining and living room
    - Medium Static Pressure Duct

- **VILLA**
  - Comfortable dining air conditioning with powerful airflow
    - High Static Pressure Duct
  - Large space air conditioning in a family room
    - Large Wall Mounted
  - Easy operation and various energy saving control
    - Compact Wall Mounted

- **Small space air conditioning**
  - Various ranges of low capacity indoor units to suit small space such as a guest room
LARGE BUILDING

Fujitsu General provides modular type VRF systems that seek high efficiency, comfort, design freedom, easy installation and reliability for skyscraper buildings.

Individual air conditioning system for large buildings

VRF series lineup to meet various needs such as energy saving-orientated models and models compatible with a high outdoor air temperature of 52°C

8 HP - 48 HP 32 Models
- Space saving combination: 8 HP to 48 HP / 21 models
- Energy efficiency combination: 20 HP to 42 HP / 11 models

Centralized control of both air conditioning and lighting

It is possible to perform centralized control to stop the operation of lighting and ventilation equipment in addition to air conditioner. This is useful in energy saving management over the whole building.

Ventilation(AHU) linked with VRF system

Fujitsu General’s DX-Kit enable other manufacture’s air handling units (AHU) to be incorporated into a Fujitsu VRF system. Possible to control comfortable air conditioning and ventilation.

4-way Flow Cassette

Improvement of the airflow distribution

The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.

High ceiling mode

This cassette can be installed up to a height of 4.2m (36/45/54).

Facilities
- Lighting
- Ventilation
- Energy Recovery

VRF indoor units

NEW
System Controller Lite
Airstage VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

HIGH ENERGY EFFICIENCY
HIGH RELIABILITY
DESIGN FLEXIBILITY
MORE COMFORT
EASY INSTALLATION
EASY SERVICE & MAINTENANCE
Highly Energy Efficiency
Significantly efficiency is improved by using DC twin rotary compressor, inverter technology, and large heat exchanger.

Large VRF

- New VRF model
- Previous model

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Energy Saving (%)</th>
<th>Setting Level</th>
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Small VRF

- New VRF model
- Current Split model

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</tr>
<tr>
<td>3.40</td>
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</tr>
</tbody>
</table>

Auto-off timer

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy. Furthermore, a new wired remote controller can set up the interval of time in case operation stops.

Energy saving management

A variety energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed by using System Controller.

Capacity save operation

Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.
Life-extending operation

Outdoor unit rotational operation

The compressor starting order is rotated so that the running time is shared.

Backup operation

If one compressor fails, backup operation will be performed by the remaining compressors*.

* Note: Backup operation may not be possible depending on the trouble state.

Advanced refrigerant control

Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.

Liquid flow back protection

By adopting a large sized accumulator, the not completely vapourised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.

Oil Recovery operation

Periodic oil recovery operation is done automatically in order to feed back oil from the indoor unit to compressor.
DESIGN FLEXIBILITY

Overall piping length 1,000m
(For V-III tropical)

Total pipe length
1,000m max.

Height difference between outdoor and indoor units
50m max.

For the outdoor unit installed below the indoor units:
40m max.

Height difference between indoor and indoor units
15m max.

Pipe length from first separation tube to the farthest indoor unit
90m* max.
(For V-III tropical)

* The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 90m or less.

Note: J-III tropical refer to page 44.

High static pressure
The outdoor unit can have a condenser hood easily connected with a static pressure of 82Pa. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge air prevents a short-circuit.

High capacity connection
Large diameter fan and DC motor has been utilized allowing an external static pressure of 82Pa. This is approximately 2.6 times greater than the previous model.

High ambient operation design
Installation in extreme temperature conditions is possible due to an increase in operational range.

Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.
MORE COMFORT

Powerful cooling capacity design

High cooling power has been realized by adopting large heat exchanger, high capacity DC inverter compressor, sub-cooler equipment, etc.

![Cooling Capacity Chart]

- Keep rated capacity!
- 35°C ambient temp.
- 46°C ambient temp.

**Touch Panel Wired Remote Controller**

The new wired remote controller has an easy to use LCD touch panel. This new controller has backlight function and can easily control the air conditioner which provides a better energy saving operation of the air conditioner.

**Precision refrigerant flow control**

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.

**Quiet operation**

**Low noise mode**

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.

**Non-stop oil recovery operation**

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.

* AIRSTAGE VI-III series is not available.
EASY INSTALLATION

Easily transported

Design of outdoor unit allows for lifting stages to be used.

Transporting by forklift

Transport with forklift is possible.

Can be transported in small elevator

Easily craned using lifting belt hooks

Flexible piping connection

By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design. For multiple installations, work is performed easily and efficiently even in a narrow space.

Piping and wiring are available to the front, left and right, and bottom.

Flexible installation by 4-way pipe direction

Simple wiring work

Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

Easy evacuation - using vacuum mode function

The vacuum mode function enables all expansion valves of indoor units to be fully opened, making it easy to evacuate all the air inside pipe lines and indoor units.

Automatic address setting

The address of the indoor unit and signal amplifier can be set through the automatic function setting on the outdoor unit PCB.

Addresses are automatically distributed from outdoor unit.

Manual address setting from indoor unit and remote controller is also possible.

Service tools can be used to check the refrigerant temperature, pressure, and the operating status of the electronic expansion valve, making it easy to determine whether the units are connected properly.

Easy commissioning by Service Tool

Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

Automatic address setting is performed at outdoor unit.

Addresses are automatically distributed from outdoor unit.

Press the push button switch of outdoor unit.

Internal address setting from indoor unit and remote controller is also possible.
Design for Easy Maintenance

7 segment LED is used to make it easy to check the details about the function setting status, refrigerant temperature, pressure, compressor operation time, and other factors for each model to make it easy to perform self-diagnostics.

Easy to read 7-segment LED: Confirm detailed operational and error status without using any specific equipment.

- Operation mode status
- Discharge temperature/pressure status
- Compressor operation indication
- Address/number of outdoor unit

Movable PCB panel: Easier for maintenance work behind the PCB

Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

Remote controller address
Error code
System number
Error status/Recent error history

Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue-free operation.

The operating VRF network system in the building can be monitored real-time over the Internet.

Error diagnosis by Service Tool

Connection to Service Tool
- Detailed operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.

Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue-free operation.

The operating VRF network system in the building can be monitored real-time over the Internet.
The AIRSTAGE 2 Series has a total of 38 models to meet the environmental and building size requirements.

The AIRSTAGE series outdoor units were developed with structural designs and advanced inverter technology to provide higher efficiency.

High durability technology has also been incorporated to ensure long-term use.

AIRSTAGE™ LINE-UP

HEAT PUMP TYPE AIRSTAGE V-III TROPICAL Series

HEAT PUMP TYPE AIRSTAGE J-III TROPICAL Series
AIRSTAGE™ LINE-UP

Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE Series matched to the size and application of the property.

Outdoor units range

| HP  | 4  | 5  | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 32 | 36 | 40 | 42 | 44 | 46 | 50 | 52 | 58 |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Btu/h | 18,000 | 20,000 | 22,000 | 25,000 | 30,000 | 35,000 | 40,000 | 45,000 | 50,000 | 60,000 | 70,000 | 80,000 | 90,000 | 100,000 | 120,000 | 140,000 | 160,000 | 200,000 | 250,000 | 300,000 | 350,000 | 400,000 | 450,000 | 500,000 |
| Size | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 16 | 18 | 20 | 24 | 30 | 32 | 36 | 40 | 42 | 44 | 46 | 50 | 52 | 58 |
| AJH180LN | 1/2 | BH | AJH162LN | 1/2 | BH | AJH144LN | 1/2 | BH | AJH126LN | 1/2 | BH | AJH108LN | 1/2 | BH | AJH090LN | 1/2 | BH | AJH072LN | 1/2 | BH | AJH045LETAHN | AJH040LETAHN | AJH054LETAHN | AJH045LBTAHN | AJH040LBTAHN | AJH054LBTAHN |

V-III Tropical: AJH___LN
V-III Tropical: AJH___LNL, AJH___LNT
**HEAT PUMP TYPE AIRSTAGE V-III**

**TROPICAL series**

Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8HP to 48HP in 2HP increment. Connectable indoor unit capacity ratio up to 130%.

### System Outline

- **High ambient operation design**
  - Possible to operate cooling up to 52°C outdoor temperature

- **Powerful cooling capacity design**
  - Keeping high cooling power at even high ambient temperature

- **Anti-corrosion treatment design**
  - All metallic and PCB components are protected against corrosion

### System configuration example

- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.

### Features

#### Energy efficiency

Top class high COP is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.

#### Energy saving technology that boosted operation efficiency

- **Powerful large propeller fan**
  - By using CFD* technology, a newly designed fan achieves high performance and low noise operation.

- **3 phase DC fan motor**
  - Efficiency is substantially improved by high efficient motor with sophisticated drive control. In addition, low noise is realized by DC fan motor.

- **Sine-wave DC inverter control**
  - High efficiency is realized by adoption of reduced switching loss IPM.

- **High efficient & Large capacity DC inverter compressor**
  - Large capacity high efficient DC twin rotary compressor with 0.1Hz steps compressor speed control

- **Subcool heat exchanger**
  - High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.

- **4-face heat exchanger**
  - Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

- **Front intake port**
  - (corner cut air inhaling structure)

- **4-phase heat exchanger**
  - (summer cut air inhaling structure)

### Advanced energy saving control

#### Multiple outdoor operation control

This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.

#### Heat exchanger refrigerant control

The efficiency of the top and bottom heat exchanger in the outdoor unit has been improved by adopting an optimum refrigerant path control.

---

*CFD = Computational Fluid Dynamics*
Outdoor units lineup

• Combinations other than the followings are not recommended.

### Space saving combination
- 72,000 Btu/h (18HP)
- 90,000 Btu/h (24HP)
- 108,000 Btu/h (29HP)
- 126,000 Btu/h (34HP)
- 144,000 Btu/h (40HP)

<table>
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<th>Model</th>
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<tr>
<td>AJH72LN+BH</td>
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<td>AJH342LN+N+BH</td>
</tr>
<tr>
<td>AJH342LN+N+BH</td>
<td>AJH432LN+N+BH</td>
</tr>
</tbody>
</table>

### Energy efficiency combination
- 180,000 Btu/h (26HP)
- 216,000 Btu/h (32HP)
- 234,000 Btu/h (36HP)
- 270,000 Btu/h (42HP)
- 306,000 Btu/h (40HP)
- 324,000 Btu/h (44HP)

<table>
<thead>
<tr>
<th>Unit</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJH180LN+BH</td>
<td>AJH216LN+N+BH</td>
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</tr>
<tr>
<td>AJH342LN+N+BH</td>
<td>AJH432LN+N+BH</td>
</tr>
</tbody>
</table>

### Dimensions

**6,10HP**
- AJH072LN+BH / AJH090LN+BH

**12,14,16HP**
- AJH108LN+BH / AJH126LN+N+BH / AJH144LN+N+BH
### Space Saving Combination

| Model name | Rating Capacity (Ton) | EER | COP | Capacity (Btu/h) | Heating (kW) | Cooling (kW) | Power (W) | Power factor | Amperage (A) | Dimensions (mm) | Weight (kg) | Outdoor units | Refrigerant | Dimensions (mm) | Power level | Capacity range (m³/h) | Weight (kg) | Dimensions (mm) | Weight (kg) |
|------------|-----------------------|-----|-----|-----------------|-------------|-------------|-----------|-------------|-------------|----------------|-------------|---------------|------------|----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| AJH072LN   | 2.5                   |     |     | 21,400          | 5.5         | 4.85        | 1907      |             |             | 113.5 x 49   | 9.2          | 26.5          | R410A       | 11.7 x 3       | 1560        | 13.5            | 115          | 930             | 8.6        |
| AJH090LN   | 3.0                   |     |     | 27,400          | 6.6         | 5.85        | 1240      |             |             | 118.5 x 49   | 10.2         | 30            | R410A       | 11.7 x 3       | 1560        | 15.6            | 15.5          | 1240            | 9.8        |
| AJH108LN   | 3.5                   |     |     | 33,400          | 7.7         | 6.85        | 1240      |             |             | 123.5 x 49   | 10.8         | 34.9          | R410A       | 11.7 x 3       | 1560        | 17.7            | 17.5          | 1240            | 10.2       |
| AJH126LN   | 4.0                   |     |     | 39,400          | 8.8         | 7.85        | 1240      |             |             | 128.5 x 49   | 11.5         | 38.7          | R410A       | 11.7 x 3       | 1560        | 19.8            | 19.5          | 1240            | 11.0       |
| AJH144LN   | 4.5                   |     |     | 45,400          | 9.9         | 8.85        | 1240      |             |             | 133.5 x 49   | 12.3         | 42.5          | R410A       | 11.7 x 3       | 1560        | 21.8            | 21.5          | 1240            | 11.5       |
| AJH162LN   | 5.0                   |     |     | 51,400          | 10.9        | 9.85        | 1240      |             |             | 138.5 x 49   | 12.9         | 46.2          | R410A       | 11.7 x 3       | 1560        | 23.8            | 23.5          | 1240            | 12.0       |

**Note:** Specifications are based on the following conditions:
- **Cooling (C):** Indoor temperature of 27°C/15°C, and outdoor temperature of 35°C/24°C.
- **Heating (H):** Indoor temperature of 20°C/15°C, and outdoor temperature of 5°C/10°C.
- **Dimensions:** Blue fin.
Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

### TROPICAL series

#### HEAT PUMP TYPE

**NEW AIRSTAGE J-III**

**Features**

#### Energy efficiency

Top class high COP is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

![Energy efficiency chart]

#### Advanced high efficiency technology

- **Large propeller fan**
  - High performance and low noise realized by large propeller and optimization of angles.

- **Large heat exchanger**
  - Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

- **Subcool heat exchanger**
  - Cooling performance is improved by mounting of dual tube heat exchanger.

**System Outline**

**High Energy Efficiency**

Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

**Flexible systems for small- and medium-size buildings air conditioning**

Space saving design and long piping design allow for flexible installation on the roofs or balconies of small- and medium-size buildings. Multiple indoor units of various capacities and types can be connected.

**System configuration example**

- This system is used for small and medium-sized buildings.
- Each refrigerant system is used for each indoor unit.
- Connection of multiple indoor units using separation tubes and headers.

**Made in JAPAN**
Long piping capability
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180m. This opens up new possibilities in system design.

Non-stop oil recovery operation
A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.

Easier Installation
Connection check function: Possible to confirm whether wiring connection and address setting are correct by a quick check run function.

Specifications

### Capacity

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<thead>
<tr>
<th>Model number</th>
<th>Action</th>
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<th>Cooling(T1)</th>
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### Input power

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### Outdoor Dimensions

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<th>Model name</th>
<th>Action</th>
<th>Heating</th>
<th>Cooling(T1)</th>
<th>Cooling(T3)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td>3.05</td>
<td>3.05</td>
<td>3.57/3.77</td>
<td>3.57/3.77</td>
</tr>
<tr>
<td></td>
<td>4.70</td>
<td>4.70</td>
<td>4.33/3.13</td>
<td>4.33/3.13</td>
</tr>
<tr>
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<td>7.10</td>
<td>7.10</td>
<td>4.33/3.13</td>
<td>4.33/3.13</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Action</th>
<th>Heating</th>
<th>Cooling(T1)</th>
<th>Cooling(T3)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td>3.05</td>
<td>3.05</td>
<td>3.57/3.77</td>
<td>3.57/3.77</td>
</tr>
<tr>
<td></td>
<td>4.70</td>
<td>4.70</td>
<td>4.33/3.13</td>
<td>4.33/3.13</td>
</tr>
<tr>
<td></td>
<td>7.10</td>
<td>7.10</td>
<td>4.33/3.13</td>
<td>4.33/3.13</td>
</tr>
</tbody>
</table>

### Note

Specifications are based on the following conditions:

- Outdoor temperature: 35°CDB / 24°CWB
- Indoor temperature: 20°CDB / 15°CWB
- Cooling: Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB
- Heating: Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB
- Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB
- Heating: Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB
- Pipe length: 7.5m. Height difference between outdoor and indoor units: 0m.
The AIRSTAGE indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain.

Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user’s perspective.

**INDOOR UNITS LINE-UP**
- 4-way Flow Compact Cassette
- 4-way Flow Cassette
- Mini Duct
- Slim Duct / Slim Concealed Floor
- Medium Static Pressure Duct
- High Static Pressure Duct
- Large Airflow Duct
- Floor / Ceiling
- Ceiling
- Wall Mounted (EEV Internal / external)

13 Type and 97 models available to meet the requirements of any building design.
**AIRSTAGE™ Indoor units**

**INDOOR UNITS LINE-UP**

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

13 types, 97 models, Capacity range from 7,000 Btu/h to 96,000Btu/h

### Indoor units range

<table>
<thead>
<tr>
<th>Capacity range</th>
<th>7,000</th>
<th>9,000</th>
<th>12,000</th>
<th>14,000</th>
<th>18,000</th>
<th>24,000</th>
<th>30,000</th>
<th>34,000</th>
<th>41,000</th>
<th>45,000</th>
<th>54,000</th>
<th>60,000</th>
<th>72,000</th>
<th>90,000</th>
<th>96,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
<td>9.0</td>
<td>10.0</td>
<td>11.2</td>
<td>12.5</td>
<td>14.0</td>
<td>18.0</td>
<td>22.4</td>
<td>25.0</td>
<td>28.0</td>
</tr>
</tbody>
</table>

### Cassette

- **4-way Flow Compact**
  - AIBX5GACH
  - AIBX6GATH
  - AIBX8GACH
  - AIBX9GATH

- **4-way Flow (Slit type)**
  - AIBX6GACH
  - AIBX7GATH

- **4-way Flow (Large type)**
  - AIBX6GACH
  - AIBX7GATH

### Duct

- **Mini Duct (With drain pump)**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

- **Mini Duct (Without drain pump)**
  - ARX07GALH
  - ARX09GALH
  - ARX12GALH
  - ARX14GALH
  - ARX18GALH
  - ARX24GALH

- **Slim Duct (With drain pump)**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

- **Medium Static Pressure Duct**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

- **High Static Pressure Duct**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

- **Large Airflow Duct**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

### Floor

- **Ceiling (Same as Ceiling models)**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

- **Silk Concealed Floor (Same as Slim Duct models)**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

### Ceiling

- **Ceiling**
  - ARX07GACH
  - ARX09GACH
  - ARX12GACH
  - ARX14GACH
  - ARX18GACH
  - ARX24GACH

### Wall Mounted

- **Wall Mounted**
  - AIBX5GACH
  - AIBX6GATH
  - AIBX7GACH
  - AIBX8GATH
  - AIBX9GACH
  - AIBX10GATH
  - AIBX12GACH
  - AIBX14GATH
  - AIBX18GACH
  - AIBX24GACH

- **Wall Mounted (With drain pump)**
  - AIBX5GACH
  - AIBX6GATH
  - AIBX7GACH
  - AIBX8GATH
  - AIBX9GACH
  - AIBX10GATH
  - AIBX12GACH
  - AIBX14GATH
  - AIBX18GACH
  - AIBX24GACH

*1: ARXK60/72/90/96 cannot be connected to J-III tropical series.
*2: Large Airflow Duct can be connected to V-III tropical series only.
4-way Flow Compact Cassette

Models
- AUXB07GALH
- AUXB07GATH
- AUXB09GALH
- AUXB09GATH
- AUXB12GALH
- AUXB12GATH
- AUXB14GALH
- AUXB14GATH
- AUXB18GALH
- AUXB18GATH
- AUXB24GALH
- AUXB24GATH

Improvement of the airflow distribution

- Two separate airflow streams produce a more even distribution across the heat exchanger.

High efficiency design by 2-stage structure

- Designed using CFD analysis for optimization.

Features

- AUXB24GALH
- AUXB18GALH
- AUXB14GALH
- AUXB12GALH
- AUXB09GALH
- AUXB07GALH

Maintenance of fan motor and fan

- Easy maintenance by taking off the panel.

Adaptation of transparent drainage parts

- Allows easy checking of the drain pump and kit.

Noise levels

- In the standard mode, the noise level is around 15-33 dB(A).

High ceiling mode

- The compact cassette can be installed up to a height of 3.0m (12/14/18/24)

Compact design

- Worlds first 24,000Btu model in the compact cassette category.

Optional parts

- Air Outlet Shutter Plate: UTR-YU28B
- Insulation Kit for High Humidity: UTG-KXGC

Specifications

- Table showing various specifications including cooling capacity, airflow rate, power consumption, etc.

Dimensions

- Diagrams showing the dimensions of the cassette in various views (side, top, front, bottom)

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 27°C / 19°C, and outdoor temperature of 35°C / 30°C.
- Heating: Indoor temperature of 20°C / 6°C, and outdoor temperature of 7°C / 5°C.
- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m; Voltage: 230 V.

Legend:
- DC inverter
- High efficiency
- 2-stage turbo fan
- Quiet quality
- Adaptation of transparent drainage parts
- Fan motor and maintenance
- 700 mm

Image Descriptions

- High lift drain pump
- Insulation Kit for High Humidity
- Compact Cassette
- Control box
- Side view
- Top view
- Bottom view

Table:

<table>
<thead>
<tr>
<th>Model code</th>
<th>The maximum height from floor (in ceiling)</th>
<th>Standard mode</th>
<th>High wing mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXB07GALH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB07GATH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB09GALH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB09GATH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB12GALH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB12GATH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB14GALH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB14GATH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB18GALH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB18GATH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB24GALH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>AUXB24GATH</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
</tbody>
</table>
Improvement of the airflow distribution

The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.

Adjustment of hanger position is possible after installation

High ceiling mode

This cassette can be installed up to a height of 3.5m.

Specifications

<table>
<thead>
<tr>
<th>Power source</th>
<th>Indoor power</th>
<th>Capacity</th>
<th>Input power</th>
<th>Airflow rate</th>
<th>Sound pressure level</th>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-phase</td>
<td>1.1kW ~ 2.0kW</td>
<td>3.6kW</td>
<td>3.5kW</td>
<td>875 (242)</td>
<td>246 × 840 × 840</td>
<td>22 (48)</td>
<td>9.52</td>
</tr>
<tr>
<td>3-way</td>
<td>5.6</td>
<td>6.3</td>
<td>39</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>W</td>
<td>m³/h (l/s)</td>
<td>dB(A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-phase</td>
<td>1350 (381)</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-way</td>
<td>1250 (356)</td>
<td>38</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>W</td>
<td>m³/h (l/s)</td>
<td>dB(A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-phase</td>
<td>1.1kW</td>
<td>1.280 (356)</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-way</td>
<td>1.2kW</td>
<td>1.040 (289)</td>
<td>33</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>W</td>
<td>m³/h (l/s)</td>
<td>dB(A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-phase</td>
<td>1.1kW</td>
<td>1.280 (356)</td>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-way</td>
<td>1.2kW</td>
<td>1.040 (289)</td>
<td>33</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>W</td>
<td>m³/h (l/s)</td>
<td>dB(A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions. Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB. Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB. Pipe length: 7.5m; Height difference between outdoor unit and indoor unit: 0m; Voltage: 230V.

Dimensions (mm - unit)

<table>
<thead>
<tr>
<th>Model name</th>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXD18GALH</td>
<td>500 × 950 × 950</td>
<td>22 (48)</td>
</tr>
<tr>
<td>AUXD24GALH</td>
<td>500 × 950 × 950</td>
<td>22 (48)</td>
</tr>
</tbody>
</table>

Features

High efficiency turbo fan with 3-dimensional blade

High efficiency airflow distribution has been achieved by the introduction of a 3-dimensional blade which mixes the air passing over the heat exchanger.

Improvement of the airflow distribution

The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.

4-way Flow Cassette (Slim type)

Models

<table>
<thead>
<tr>
<th>Models</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXD18GALH</td>
<td>AUXD18GALH</td>
</tr>
<tr>
<td>AUXD24GALH</td>
<td>AUXD24GALH</td>
</tr>
</tbody>
</table>

One way installation

High lift drain pump

Optional parts

IR Receiver Unit : UTY-LR4G81
Air Outlet Shutter Plate : UTR-90ZX
Panel Spacing : UTG-A00A-W
Insulation Kit for High Humidity : UTG-A00A-W
Wide Panel : UTG-A00A-W
4-way Flow Cassette (Large type)

Models
- AUXA18GALH
- AUXA24GALH
- AUXA36GALH
- AUXA45GALH
- AUXA54GALH
- AUXA30GALH
- AUXA36GALH
- AUXA45GALH
- AUXA54GALH

Feature

High efficiency turbo fan with 3-dimensional blade

High efficiency airflow distribution has been achieved by the introduction of a 3-dimensional blade which mixes the air passing over the heat exchanger.

Improvement of the airflow distribution

The unique design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.

Adjustment of hanger position is possible after installation

This cassette can be installed up to a height of 4.2m (364/554). A model code

<table>
<thead>
<tr>
<th>Model code</th>
<th>Standard mode (Flow rate)</th>
<th>High ceiling mode (Flow rate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXA18GALH</td>
<td>3.0</td>
<td>3.5</td>
</tr>
<tr>
<td>AUXA24GALH</td>
<td>3.7</td>
<td>3.5</td>
</tr>
<tr>
<td>AUXA36GALH</td>
<td>3.7</td>
<td>3.5</td>
</tr>
<tr>
<td>AUXA45GALH</td>
<td>3.7</td>
<td>3.5</td>
</tr>
<tr>
<td>AUXA54GALH</td>
<td>3.7</td>
<td>3.5</td>
</tr>
</tbody>
</table>

One way installation

High lift drain pump

Optional parts
- IR Receiver Unit : UTY-UBG81
- Air Outlet Shutter Plate : UTR-YDZK
- Panel spacer : UTG-R300A-W
- Insulation Kit for High Humidity : UTG-R300A-W
- Wide Panel : UTG-A0X0A-W

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXA18GALH</th>
<th>AUXA24GALH</th>
<th>AUXA30GALH</th>
<th>AUXA36GALH</th>
<th>AUXA45GALH</th>
<th>AUXA54GALH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>5.6</td>
<td>7.1</td>
<td>9.0</td>
<td>13.0</td>
<td>11.2</td>
<td>12.5</td>
</tr>
<tr>
<td>Heating</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>11.0</td>
<td>12.5</td>
<td>14.0</td>
</tr>
<tr>
<td>Input power</td>
<td>5.0</td>
<td>6.5</td>
<td>8.0</td>
<td>10.0</td>
<td>11.5</td>
<td>13.0</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>1,350 (340)</td>
<td>1,700 (400)</td>
<td>1,800 (410)</td>
<td>1,900 (410)</td>
<td>1,900 (410)</td>
<td>1,900 (410)</td>
</tr>
<tr>
<td>Weight</td>
<td>50</td>
<td>60</td>
<td>70</td>
<td>80</td>
<td>90</td>
<td>100</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>33/31 X 1,800</td>
<td>33/31 X 2,000</td>
<td>33/31 X 2,200</td>
<td>33/31 X 2,400</td>
<td>33/31 X 2,600</td>
<td>33/31 X 2,800</td>
</tr>
</tbody>
</table>

Dimensions

IR receiver (Option)

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 25°C / 19°C WS, and outdoor temperature of 35°C / 28°C / 18°C DB.
- Heating: Indoor temperature of 20°C / 15°C WS, and outdoor temperature of 7°C / 6°C DB.
- Pipe length: 7.5 m, height difference between outdoor unit and indoor unit: 0 m, Voltage: 200 V / 30 V.
- *1 This value is “cooling operation / heating operation”.

Dimensions (mm - nets)

Parallel aperture

Max 850mm

Ceiling opening

Ceiling panel
AKISTAGE™ Indoor units

Mini Duct

Advantage performance by new shaped heat exchanger and airflow

Air blower is improved so that velocity distribution is optimum in accordance with the heat exchanger shape. Wide range and uniform airflow can be received due to heat exchanger.

Easy drain design even at narrow ceiling

Models with drain pump: Drainage to the distant drain port is possible.

Models without drain pump: Both sides drainage is possible.

Optimum design in harmony with interior decoration

Thin and short-depth body makes the clipped ceiling design simple.

6-speed control*

Multi-step airflow speed control allows this model to install in a quiet location.

---

Feature

Optimum airflow path

ARXK07GALH  ARXK09GALH  ARXK12GALH  ARXK14GALH

Easy drain design even at narrow ceiling

For models with drain pump, drainage is easy even at narrow ceiling.

---

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXK07GALH</th>
<th>ARXK09GALH</th>
<th>ARXK12GALH</th>
<th>ARXK14GALH</th>
<th>ARXK18GALH</th>
<th>ARXK18GALH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>460 / 660 (18)</td>
<td>490 / 690 (20)</td>
<td>520 / 720 (22)</td>
<td>550 / 750 (24)</td>
<td>580 / 780 (25)</td>
<td>610 / 810 (26)</td>
</tr>
<tr>
<td>Width (mm)</td>
<td>150 / 300 (32)</td>
<td>180 / 360 (34)</td>
<td>210 / 420 (36)</td>
<td>240 / 480 (38)</td>
<td>270 / 540 (40)</td>
<td>300 / 600 (42)</td>
</tr>
<tr>
<td>Depth (mm)</td>
<td>100 / 200 (2)</td>
<td>120 / 240 (2)</td>
<td>140 / 280 (2)</td>
<td>160 / 320 (2)</td>
<td>180 / 360 (2)</td>
<td>200 / 400 (2)</td>
</tr>
</tbody>
</table>

---

Dimensions

For models with drain pump

1. Refrigerant pipe flare connection (Liquid)
2. Refrigerant pipe flare connection (Gas)
3. Drain hose connection

For models without drain pump

4. Refrigerant pipe flare connection (Liquid)
5. Refrigerant pipe flare connection (Gas)
6. Drain hose connection

---

Optional parts

Remote Sensor Unit: UTD-25ZK
IR Receiver Unit: UTD-FPRC
Auto Louver Grille Kit: UTD-GATA/W (for ARXK07/09/12/14GALH)
UTD-GATB/W (for ARXK18GALH)
ARXK18GALH

---

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 7°CDB / 6°CWB.

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* Compatible Remote Control is as follows:
UTY-RNGU2 / UTY-RNSU / UTY-RNSG / UTY-RNHS / UTY-DSGU / UTY-DGG / UTY-ALGU / UTY-APGU

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## Slim Duct / Slim Concealed Floor

### Feature

#### Slim design

With a slim indoor design, this indoor can be installed in narrow ceiling spaces. A slim indoor design allows it to match the installation site.

#### Selectable with a wide range of static pressure

By using DC fan motor, it is possible to change the static pressure range 0 to 90 Pa. The change of static pressure range is possible by remote controller.

#### High lift drain pump

Drain pump built-in

Drain hose is standard accessory

### Slim Concealed Floor

**ARXD07GALH**

**ARXD09GALH**

**ARXD12GALH**

**ARXD14GALH**

**ARXD18GALH**

**ARXD24GALH**

**ARXD07GATH**

**ARXD09GATH**

**ARXD12GATH**

**ARXD14GATH**

**ARXD18GATH**

**ARXD24GATH**

### Specifications

- **Model name**
  - ARXD07GALH
  - ARXD09GALH
  - ARXD12GALH
  - ARXD14GALH
  - ARXD18GALH
  - ARXD24GALH

- **Capacity**
  - Cooling: 2.2 kW
  - Heating: 2.8 kW

- **Input power**
  - 220-240V, 60Hz

- **Airflow rate**
  - High: 3,200 (122)
  - Med: 2,450 (93)
  - Low: 1,680 (66)

- **Sound pressure level**
  - High: 58 dB(A)
  - Med: 48 dB(A)
  - Low: 38 dB(A)

- **Dimensions (H x W x D)**
  - ARXD07: 198 × 700 × 620
  - ARXD09: 198 × 700 × 620
  - ARXD12: 198 × 700 × 620
  - ARXD14: 198 × 700 × 620
  - ARXD18: 198 × 700 × 620
  - ARXD24: 198 × 700 × 620

- **Filter (Accessory)**

- **Auto Louver Grille Kit (Option)**

- **Optional parts**
  - Remote Sensor Unit: UTD-YZXX
  - Auto Louver Grille Kit: ARXD07/09/12/14GATH
  - Drain unit: ARXD07GATH
  - Drain port: ARXD07GATH

### Options

- **Dimensions**

- **Pipe length**: 7.5 m
- **Height difference between outdoor unit and indoor unit**: 0 m

**Note**: Specifications are based on the following conditions.

- **Cooling**: Indoor temperature of 27°C (80°F), and outdoor temperature of 35°C (95°F), and humidity of 50%.
- **Heating**: Indoor temperature of 20°C (68°F), and outdoor temperature of 7°C (45°F), and humidity of 60%.

**Filter (Accessory)**

- ARXD07 / 09 / 12 / 14 / 18

**Filter (2pcs.)**

**Filter (3pcs.)**

**Slim Duct / Auto Louver Grille**

**Dimensions** (mm)

- **ARXD07-14**: ARXD18, ARXD24

**Max lift drain pump**

**Drain port**

**Retractable Controller**

**Wired Remote Controller**

**Wireless Remote Controller**
Medium Static Pressure Duct

Models
ARXA24GBLH
ARXA24GBTH
ARXA36GBLH
ARXA36GBTH
ARXA45GBLH
ARXA45GBTH

**Feature**

**Slim & Compact design**
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270mm, further space savings have been achieved by mounting the electrical control box internally inside the chassis.

**Selectable with a wide range of static pressure**
It is possible to change of static pressure range 0 to 150 Pa.

**Easy maintenance**
See below for the case of rear suction type

Previous model

New model

**Easy setting by using remote controller**
The change of static pressure range is possible by remote controller

Structural improvement is obtained by making the bottom panel two pieces, front and rear. The internal fans casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

**Can be installed for various location**
It can be installed in such locations as high rise condominiums by low static pressure design.

It can also be installed in wide spade when high static pressure is required, such as for offices.

**AC FAN**

1,200 1,135mm

One touch operation and easy to install long-life filter (Optional Part)

Dimensions

<table>
<thead>
<tr>
<th>Component</th>
<th>ARXA24GBLH</th>
<th>ARXA24GBTH</th>
<th>ARXA36GBLH</th>
<th>ARXA36GBTH</th>
<th>ARXA45GBLH</th>
<th>ARXA45GBTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>7.1</td>
<td>9.0</td>
<td>13.2</td>
<td>15.2</td>
<td>12.5</td>
<td>16.0</td>
</tr>
<tr>
<td>Input power</td>
<td>8.0</td>
<td>10.5</td>
<td>11.2</td>
<td>12.5</td>
<td>14.9</td>
<td>16.9</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>High</td>
<td>0.280 (150)</td>
<td>1.180 (550)</td>
<td>1.720 (748)</td>
<td>1.720 (748)</td>
<td>1.720 (748)</td>
</tr>
<tr>
<td>Static pressure range</td>
<td>30 to 150</td>
<td>30 to 150</td>
<td>30 to 150</td>
<td>30 to 150</td>
<td>30 to 150</td>
<td>30 to 150</td>
</tr>
<tr>
<td>Standard static pressure</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>High</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Dimensions (W x D x H mm)</td>
<td>270 x 1,135 x 700</td>
<td>270 x 1,135 x 700</td>
<td>270 x 1,135 x 700</td>
<td>270 x 1,135 x 700</td>
<td>270 x 1,135 x 700</td>
<td>270 x 1,135 x 700</td>
</tr>
<tr>
<td>Connection pipe diameter (Liquid) mm</td>
<td>8.52</td>
<td>8.52</td>
<td>8.52</td>
<td>8.52</td>
<td>8.52</td>
<td>8.52</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.
- Cooling: Indoor temperature of 27°C / 19°C CWB, and outdoor temperature of 35°C / 24°C CWB.
- Heating: Indoor temperature of 20°C / 15°C CWB, and outdoor temperature of 7°C / -5°C CWB.
- Pipe length: 7.5 m; height difference between outdoor unit and indoor unit: 0 m.

Optional parts
- Remote Sensor Unit: UTY-XS2K
- Flange (Round): UTB-RF204
- Drain Pump Unit: UTZ-PX114B
- Drain piping connection (Drain pipe): UTB-YWC
- Drain pump unit: UTD-LF25NA
- Drain Pump Unit: UTD-YWC
- Drain piping connection (Drain pipe): UTB-YWC
- Drain pump unit: UTD-YWC
- Drain piping connection (Drain pipe): UTB-YWC
- Drain pump unit: UTD-YWC

Installation styles

- Embedded in Ceiling
- Hanging from Ceiling

Note: Service accessibility must be allowed for when installing the product.

Please consult the installation manual for the necessary service access size.

Dimensions [mm / unit]:

- Refrigerant piping flare connection (Liquid):
- Refrigerant piping flare connection (Gas):
- Drain piping connection (Drain pipe):

*Service accessibility must be allowed for when installing the product.*

Please consult the installation manual for the necessary service access size.
High Static Pressure Duct

Models
- ARXC36BTH
- ARKC45GATH
- ARXC60GATH
- ARXC72BTH
- ARXC90BTH
- ARXC96GATH

(45/60)

DC FAN

AC FAN

**Feature**

**Static pressure selection**

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC36) / 300Pa (ARXC72/90/96). The change of static pressure range is possible by function setting with wired / wireless remote controller.

**Low energy consumption by high efficiency DC fan motor**

Improved motor efficiency from previous model.

**Low noise**

Models : ARXC36 / ARKC45 / ARKC60

Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.

**Easy installation**

(Compact size & Light weight)

A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXC36GATH</th>
<th>ARKC45GATH</th>
<th>ARKC60GATH</th>
<th>ARXC72BTH</th>
<th>ARXC90BTH</th>
<th>ARXC96GATH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Cooling</td>
<td>Heating</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>kW</td>
<td>kW</td>
<td></td>
<td>kW</td>
<td>kW</td>
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<tr>
<td></td>
<td>11.2</td>
<td>14.5</td>
<td></td>
<td>18.5</td>
<td>22.4</td>
<td>25.0</td>
</tr>
<tr>
<td></td>
<td>19.3</td>
<td>25.0</td>
<td></td>
<td>28.0</td>
<td>33.5</td>
<td>38.0</td>
</tr>
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<td>Input power</td>
<td>W</td>
<td>kW</td>
<td></td>
<td></td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Air flow rate</td>
<td></td>
<td></td>
<td></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td>1,690 (35W)</td>
<td>2,398 (55W)</td>
<td>2,500 (55W)</td>
<td>2,900 (80W)</td>
<td>3,300 (110W)</td>
<td>3,700 (140W)</td>
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<tr>
<td>Efficiency</td>
<td></td>
<td></td>
<td></td>
<td>kW</td>
<td>kW</td>
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<td>64</td>
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<tr>
<td>Static pressure range</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>100</td>
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<td>150</td>
<td>170</td>
<td>180</td>
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<td>Standard static pressure</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
<td>Pa</td>
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<td>37</td>
<td>37</td>
<td>40</td>
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</tr>
<tr>
<td>Sound pressure level</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
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<td></td>
<td>42</td>
<td>44</td>
<td>47</td>
<td>46</td>
<td>48</td>
<td>47</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
</tr>
<tr>
<td></td>
<td>400</td>
<td>1,050</td>
<td>500</td>
<td>400</td>
<td>1,050</td>
<td>500</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
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<tr>
<td></td>
<td>49</td>
<td>54</td>
<td>56</td>
<td>61</td>
<td>66</td>
<td>69</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
<td>[mm]</td>
</tr>
<tr>
<td></td>
<td>324</td>
<td>851</td>
<td>350</td>
<td>295</td>
<td>851</td>
<td>350</td>
</tr>
<tr>
<td>Height difference</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td></td>
<td>150</td>
<td>125</td>
<td>117</td>
<td>75</td>
<td>108</td>
<td>75</td>
</tr>
</tbody>
</table>
| Note: Specifications are based on the following conditions.
- Cooling : Indoor temperature of 27°C / 19°C, and outdoor temperature of 35°C / 24°C.
- Heating : Indoor temperature of 20°C / 15°C, and outdoor temperature of 7°C / 6°C.
- Pipe length : 7.5 m, Height difference between outdoor unit and indoor unit : 6 m.

Optional parts

- Long-Life Filter : UTD-LF60BA (For ARXC36BTH, ARKC45/60GATH)
- IR Receiver Unit : UTB-YWC
- Remote Sensor Unit : UTY-XSXX

**Dimensions**

* [mm] - mm

Models: ARXC36 / ARKC45 / ARKC60

Models: ARXC72 / ARX90

Models: ARXC96
Large Airflow Duct

It can be installed in places such as early replacement of air required by large airflow volume.

Feature

Large airflow volume

Installation styles

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXN18GATH</th>
<th>ARXN24GATH</th>
<th>ARXN30GATH</th>
<th>ARXN34GATH</th>
<th>ARXN36GATH</th>
<th>ARXN45GATH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating kW</td>
<td>4.6</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>11.2</td>
<td>12.5</td>
</tr>
<tr>
<td>Cooling kW</td>
<td>4.6</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>11.2</td>
<td>12.5</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>2,280 (633)</td>
<td>3,500 (1,008)</td>
<td>5,100 (1,510)</td>
<td>6,100 (1,810)</td>
<td>6,100 (1,810)</td>
<td>6,100 (1,810)</td>
</tr>
<tr>
<td>Airflow rate (m3/h)</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Standard static pressure (Pa)</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Sound pressure level (dB(A))</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Dimensions (H x W x D) (mm)</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>84 (185)</td>
<td>84 (185)</td>
<td>84 (185)</td>
<td>84 (185)</td>
<td>84 (185)</td>
<td>84 (185)</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

- Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
- Heating: Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.
- Pipe length: 17.5 m, height difference between indoor unit and outdoor unit: 0 m, Voltage: 200-240V.

Optional parts

Remote Sensor Unit: UTY-XS2X

Selectable with a wide range of static pressure

<table>
<thead>
<tr>
<th>Static pressure range (Pa)</th>
<th>50 to 150 Pa</th>
<th>50 to 250 Pa</th>
<th>50 to 300 Pa</th>
</tr>
</thead>
<tbody>
<tr>
<td>(30 / 34class)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(36 / 45class)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Method</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air view</td>
<td>255</td>
</tr>
<tr>
<td>Blue view</td>
<td>155</td>
</tr>
<tr>
<td>Top view</td>
<td>158</td>
</tr>
</tbody>
</table>

Large Airflow Duct can be connected to V-III series only.
Floor / Ceiling

**Models**
- ABHA12GATH
- ABHA14GATH
- ABHA18GATH
- ABHA24GATH

### Feature

**Flexible installation**

**Example for floor installation**

- Floor console

**Example for ceiling installation**

- Under ceiling

**Floor standing**

**Double auto swing**

- A combination of up/down and right/left directional swing allows three-dimensional air direction control.

**High power DC fan motor**

- High power
- Wide rotation range
- High efficiency

### Compact design

- Symmetrical, slim and compact design.

**Auto-closing louvre**

- When operation is stopped, the louvres will automatically close.

**Super vane**

- Double Louvre Super vane with newly developed special configuration boosts airflow sending cool air quickly to every corner of the room.

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power source</th>
<th>Capacity</th>
<th>Input power</th>
<th>Airflow rate</th>
<th>Sound pressure level</th>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABHA12GATH</td>
<td>Single-phase, ~220-240V, 60Hz</td>
<td>kW</td>
<td>W</td>
<td>m³/h</td>
<td>dB(A)</td>
<td>mm</td>
<td>kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.6</td>
<td>62</td>
<td>360</td>
<td>57</td>
<td>199 × 990 × 655</td>
<td>25</td>
</tr>
<tr>
<td>ABHA14GATH</td>
<td></td>
<td>3.6</td>
<td>64</td>
<td>490</td>
<td>57</td>
<td>199 × 990 × 655</td>
<td>29</td>
</tr>
<tr>
<td>ABHA18GATH</td>
<td></td>
<td>4.5</td>
<td>66</td>
<td>570</td>
<td>57</td>
<td>199 × 990 × 655</td>
<td>29</td>
</tr>
<tr>
<td>ABHA24GATH</td>
<td></td>
<td>5.5</td>
<td>69</td>
<td>660</td>
<td>57</td>
<td>199 × 990 × 655</td>
<td>32</td>
</tr>
</tbody>
</table>

**Note:** Specifications are based on the following conditions.

**Cooling:** Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

**Heating:** Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

### Dimensions

- mm

- Refrigerant piping flare connection (liquid)
- Refrigerant piping flare connection (gas)
- Drain piping connection
Ceiling

Models
ABHA30GATH
ABHA36GATH
ABHA45GATH
ABHA54GATH

General installation pattern
which suspends the indoor unit from the ceiling.

Open
Installation pattern where part of the indoor unit is embedded into the ceiling.

Concealed
Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied).
This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow
Auto airflow direction and auto swing

Right and left

Up and down

5 steps selectable

Slim & Compact design

Wall mounted
(Installed by Field)

Fresh air intake

High lift drain pump
Optional drain pump unit allows flexible installation design.

Double auto swing and wide airflow
Auto airflow direction and auto swing

High airflow
Long Airflow ensures comfort to every corner of a large room.

High power DC fan motor
• High power • Wide rotation range • High efficiency

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power source</th>
<th>Capacity</th>
<th>Input power</th>
<th>Airflow rate</th>
<th>Sound pressure level</th>
<th>Dimensions (H x W x D)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABHA30GATH</td>
<td>Single-phase</td>
<td>9.0 kW</td>
<td>180 W</td>
<td>Hi (9,900)</td>
<td>42 dB(A)</td>
<td>240 × 1,660 × 700</td>
<td>46 kg</td>
</tr>
<tr>
<td>ABHA36GATH</td>
<td>Single-phase</td>
<td>9.0 kW</td>
<td>180 W</td>
<td>Hi (9,900)</td>
<td>42 dB(A)</td>
<td>240 × 1,660 × 700</td>
<td>48 kg</td>
</tr>
<tr>
<td>ABHA45GATH</td>
<td>Single-phase</td>
<td>10.0 kW</td>
<td>360 W</td>
<td>Hi (12,300)</td>
<td>45 dB(A)</td>
<td>240 × 1,660 × 700</td>
<td>51 kg</td>
</tr>
<tr>
<td>ABHA54GATH</td>
<td>Single-phase</td>
<td>10.0 kW</td>
<td>360 W</td>
<td>Hi (12,300)</td>
<td>45 dB(A)</td>
<td>240 × 1,660 × 700</td>
<td>55 kg</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°C DB / 19°C WB, and outdoor temperature of 35°C DB / 24°C WB.
Heating: Indoor temperature of 20°C DB / (15°C WB), and outdoor temperature of 7°C DB / 6°C WB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

Optional parts
Drain Pump Unit : UTR-DPE24T
Flange : UTD-RF204

Drain pump

Slim & Compact design

DC Fan

Feature

Installation

General installation pattern

Open

Concealed

Wall mounted

Long airflow

High lift drain pump
Wall Mounted

Models (EV kit internal) Models (EV kit external) Models (DVC external)
ASHA07GACH ASHA07GATH ASH07GACH
ASHA09GACH ASHA09GATH ASH09GACH
ASHA12GACH ASHA12GATH ASH12GACH
ASHA14GACH ASHA14GATH ASH14GACH
ASHA07GACH ASHA07GATH ASH07GACH
ASHA09GACH ASHA09GATH ASH09GACH
ASHA12GACH ASHA12GATH ASH12GACH
ASHA14GACH ASHA14GATH ASH14GACH

Feature

Filter features
High quality air conditioning by incorporation of high performance filters.
- Ion Deodorization Filter
  The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra fine-particle ceramic.
- Apple-catechin Filter
  Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Auto swing louvre
The Auto Swing Louvre function ensures that the air direction corresponds to the mode selected.

Compact size
Powerful output even compact design
Though the indoor unit is compact, it features a large, high pressure cross fan (90mm diameter) in a centre mounted configuration and a Lambda type heat exchanger to provide plenty of power.

New style high power DC fan motor
- High power
- Wide rotation range
- High efficiency
- Compact size

Easy maintenance
Easy maintenance has been realized as the front panel can removed for easy access.

Symmetrical design
Symmetrical, clean design that suits all interiors.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ASHA07GACH</th>
<th>ASHA09GACH</th>
<th>ASHA12GACH</th>
<th>ASHA14GACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>Single phase</td>
<td>Single phase</td>
<td>Single phase</td>
<td>Single phase</td>
</tr>
<tr>
<td>Input power</td>
<td>kW</td>
<td>W</td>
<td>kW</td>
<td>W</td>
</tr>
<tr>
<td>Cooling</td>
<td>2.2</td>
<td>2.2</td>
<td>2.2</td>
<td>2.2</td>
</tr>
<tr>
<td>Heating</td>
<td>2.8</td>
<td>2.8</td>
<td>2.8</td>
<td>2.8</td>
</tr>
<tr>
<td>Noise level</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
</tr>
<tr>
<td>Cooling</td>
<td>6.1</td>
<td>6.1</td>
<td>6.1</td>
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<tr>
<td>Heating</td>
<td>5.9</td>
<td>5.9</td>
<td>5.9</td>
<td>5.9</td>
</tr>
<tr>
<td>Dimensions (W x D x H)</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>Indoor unit</td>
<td>275 × 790 × 215</td>
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Dimensions

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Testing organization: Environmental Sanitary Inspection Center

Deodorization Test

Testing method:
Deodorization Test

Dimensions

- Indoor unit: 275 × 790 × 215 mm
- Outdoor unit: 650 × 260 × 650 mm


drain pipe diameter

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<tr>
<th>Drain pipe diameter</th>
<th>mm</th>
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<tbody>
<tr>
<td>12.70</td>
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<table>
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<tr>
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<th>kW</th>
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New style high power DC fan motor
- High power
- Wide rotation range
- High efficiency
- Compact size

Easy maintenance
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Symmetrical design
Symmetrical, clean design that suits all interiors.

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</tr>
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</tr>
<tr>
<td>12.70</td>
<td>12.70</td>
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</tr>
</tbody>
</table>
Wall Mounted

Models
ASHA18GACH ASHA18GATH
ASHA24GACH ASHA24GATH
ASHA30GACH ASHA30GATH

Wall Mounted

Compact & Slim design
By using DC fan motor, compact design is realized.

Easy maintenance
Simplification of drain pan cleaning improves maintenance-ability.

Air conditioner filter features
Ion Deodorization Filter
Organic coating fin used heat exchanger

High-quality air conditioning by incorporation of high-performance filter.

Double auto swing
A combination of up/down and right/left directional swing allows three-dimensional air direction control.

Specifications

<table>
<thead>
<tr>
<th>Model/Type</th>
<th>ASHA18GACH</th>
<th>ASHA18GATH</th>
<th>ASHA24GACH</th>
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<th>ASHA30GACH</th>
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<td>60Hz</td>
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<td></td>
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<td>7.0</td>
<td>8.0</td>
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<td>900</td>
<td>1,000</td>
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<tr>
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<td>320</td>
<td>390</td>
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<td>l/s</td>
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<td></td>
<td>kg (lbs)</td>
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<td>690 (191)</td>
<td>770 (213)</td>
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<tr>
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<tr>
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<td>l/s</td>
<td>770 (213)</td>
<td>770 (213)</td>
<td>980 (271)</td>
<td>980 (271)</td>
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<td>30</td>
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<td></td>
<td>(L)</td>
<td>41</td>
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<td></td>
<td>(W)</td>
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<td>44</td>
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<tr>
<td>Dimensions (W x H x D)</td>
<td>mm</td>
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<td>320 × 998 × 228</td>
<td>320 × 998 × 228</td>
<td>320 × 998 × 228</td>
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<tr>
<td>Weight</td>
<td>kg</td>
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<td>15 (33)</td>
<td>15 (33)</td>
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<tr>
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</tr>
<tr>
<td>Drain hose diameter (I.D./O.U.)</td>
<td>mm</td>
<td>29/33</td>
<td>29/33</td>
<td>29/33</td>
<td>29/33</td>
<td></td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.
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- Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

Dimensions

- Refrigerant piping flare connection (Liquid)
- Refrigerant piping flare connection (Gas)
- Drain hose connection

- Dimensions (mm - mm)

- 5 steps selectable

- 4 steps selectable

- Power diffuser

- Ion Deodorization Filter

- Apple-catechin Filter
The AIRSTAGE control system can perform air conditioning control of individual room, centralized control by floor or by building, or centralized energy saving air conditioning control for large buildings.

A variety of air conditioning management schemes are available to match the application, such as linking with the building control system, linking with a single split models, and using various interfaces.

**CONTROL SYSTEM**

**CONTROL SYSTEM OVERVIEW**

**INDIVIDUAL CONTROLLER**

**CENTRALIZED CONTROLLER**

**CONVERTOR / ADAPTOR**
**BEST CONTROL SOLUTION FOR EACH PROPERTY**

Fujitsu General provides the best control solutions suitable for the various properties.

### SHOP

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual Control</th>
<th>Centralized Control</th>
<th>Integrating Control (Interface)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wired Remote Controller</td>
<td></td>
<td>UTY-BGCP/UTY-BGCS, UTY-VMGCS/UTY-VMGCS, UTY-WMGC/UTY-WMGG</td>
</tr>
<tr>
<td></td>
<td>Group Remote Controller</td>
<td></td>
<td>UTY-VMGCS/UTY-VMGCS, UTY-FACMF/UTY-FACMA</td>
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</table>

- Local control for hotel guests
- Interlock with key-card
- Interlock with door contact
- Energy Charge Apportionment
- Cost of third party products
- Integrates 3rd party BRN

### HOTEL

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual Control</th>
<th>Centralized Control</th>
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- Local control for hotel guests
- Interlock with key-card
- Interlock with door contact
- Energy Charge Apportionment
- Cost of third party products
- Integrates 3rd party BRN

### OFFICE

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<th>Type</th>
<th>Individual Control</th>
<th>Centralized Control</th>
<th>Integrating Control (Interface)</th>
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- Local control for office staff
- Interlock with door contact
- Energy Charge Apportionment
- Cost of third party products
- Integrates 3rd party BRN

### System Features

- Interlock with key-card
- Interlock with door contact
- Energy Charge Apportionment
- Cost of third party products
- Integrates 3rd party BRN
User’s needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

**Air Conditioning Individual Control**
- Wired Remote Controller (Touch panel) UTY-RNRGZ2
- Wired Remote Controller UTY-RNRG
- Simple Remote Controller UTY-RNRG; UTY-RNMC; Wireless operation mode
- Wireless Remote Controller UTY-LNRG
- IR Receiver Unit UTY-YWC For Duct type UTY-LRHGB1 For Cassette type

**Air Conditioning Centralized Control**
- System Controller UTY-APGZ1 / UTY-ADZ1 (Lite edition)
- Touch Panel Controller UTY-DTGGZ1
- Central Remote Controller UTY-CCGZ
- Group Remote Controller UTY-CGGZ
- Network Converter UTY-VGZZ1

**Convertor / Adaptor**

*For Light Commercial*
- *Small VRF*

*For Commercial*
- *Large VRF*

**Convertor / Adaptor For external device**
- BACnet® Gateway UTY-ABGZ2
- BACnet® Gateway UTY-VBGX
- Network Converter (BMS/LONWORKS®) UTY-VLZX
- MODBUS® Converter UTY-VMGX
- MODBUS® Interface FJ-RC-MBS-1
- KNX® Converter For VRF UTY-VKGX
- KNX® Interface FJ-RC-KNX-1i
- Wireless LAN Interface FJ-RC-WIFI-1
- External Switch Controller UTY-TERX

**Convertor / Adaptor For system expansion**
- Network Converter (DC power supply) UTY-VTGX
- Network Converter (AC power supply) UTY-VTGXV
- Signal Amplifier UTY-VSGZ1

---

1. USB Adaptor: Echelon® U10 USB Network Interface
2. BMS/BAS: Building Management System/Building Automation System
# COMPARISON TABLE OF CONTROLLERS

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<tr>
<th>Item</th>
<th>Mixed Remote Controller</th>
<th>Wired Remote Controller</th>
<th>Simple Remote Controller</th>
<th>Simple Remote Controller *1</th>
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*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control. **Optional function**  --- : Not supported yet
Wired Remote Controller (Touch Panel)

**UTY-RNRGZ2**

**Easy operation by high-definition large STN-LCD touch panel screen**
- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp, Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Swedish and Dutch)
- 2-wire type

**Functions**

**High performance and compact size**
- In addition to the individual control, various energy saving controls can be realized using one remote controller only.

**Accurate and comfortable control**
- Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.

**Various convenient functions**
- Displays setting status and Limitations: The remote controller settings can be easily checked.
- Summer Time display: This function can be set easily from Menu screen.
- Child lock: Lock / unlock method: Push the ON/OFF button and the screen (4 seconds).
- Name Registration: Remote controller names can be registered in the remote controller screen. This makes it easy to identify the indoor unit you want to control in the room.

**Backlight**
- Backlight enable easy operation in a darkened room.
- For the lighting time of Backlight, 30 or 60 seconds can be set.
- Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.

**Specifications**

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<tr>
<td>Weight</td>
<td>600 (g)</td>
</tr>
</tbody>
</table>

**Simplified installation**
- Uses non-polar 2-wire type: The faulty wiring can be prevented by using non-polar 2-wire.

**Easy Maintenance**
- Error History Display: The errors that occur in the indoor unit or remote controller are saved as a history. A maximum of 32 error incidents can be saved.
Wired Remote Controller

**UTY-RLRG**

- Various timer setup (ON / OFF / Weekly) are possible.
- The room temperature can be controlled by detecting the temperature accurately with a built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history (Last 16 error codes can be accessed).
- 2-wire type

**Functions**

**High performance and compact size**
In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.

**High visibility and easy operation**
- “Mode”, “Set Temp”, and “Fan” are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.
- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 240 minutes.

**Auto-off timer**
- The indoor unit automatically turns off after a set time has passed.

**Weekly timer function**
- Not only time setting ON / OFF, but also setting of the operation mode and set temperature can be set by weekly timer function.

**Set temperature auto return**
- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 240 minutes.

**Set temperature upper and lower limit setting**
- The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)

**Specifications**

<table>
<thead>
<tr>
<th>Model/Name</th>
<th>UTY-RLRG</th>
<th>UTY-RSRG</th>
<th>UTY-RHRG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12V</td>
<td>DC 12V</td>
<td>DC 12V</td>
</tr>
<tr>
<td>Dimensions (W x H x D mm)</td>
<td>120 x 75 x 19</td>
<td>120 x 75 x 19</td>
<td>120 x 75 x 19</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>170</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

**Simple Remote Controller**

**UTY-RSRG**

- Not only time setting ON / OFF, but also setting of the operation mode and set temperature can be set by weekly timer function.
- Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.

**UTY-RHRG (Without Operation mode)**

- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Built light: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

**Functions**

**Corresponding to various applications**
- Vertical louver control: Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.
- Room temperature set point limitation: The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.
- Built in room temperature sensor: The Simple Remote Controller detects actual room temperature and controls room climate accuracy.

**Specifications**

<table>
<thead>
<tr>
<th>Model/Name</th>
<th>UTY-RSRG</th>
<th>UTY-RHRG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12V</td>
<td>DC 12V</td>
</tr>
<tr>
<td>Dimensions (W x H x D mm)</td>
<td>120 x 75 x 19</td>
<td>120 x 75 x 19</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>120</td>
<td>120</td>
</tr>
</tbody>
</table>

**UTY-RLRG**

- Maximum controllable indoor units: 16
- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history (Last 16 error codes can be accessed).
- 2-wire type
Wireless Remote Controller

**UTY-LNHG**

Simple and sophisticated operations with a choice of 4 daily timers

• A single controller controls up to 16 indoor units.

**Functions**

**Built-in daily timer**

Select from 4 different timer programs:

- On / Off / Program / Sleep

**Program timer:** The program timer operates the ON and OFF timer once within a 24 hour period.

**Sleep timer:** The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

**Easy installation and operation**

Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)

**Wide and precise**

During installation work, address setting can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.

**Address setting**

Cooling operation/sleep operation

When the sleep timer is set, the set temperature automatically rises 1°C every hour. The set temperature can rise up to a maximum of 2°C.

<table>
<thead>
<tr>
<th>Time setting</th>
<th>1°C</th>
<th>2°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>60min.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Heating operation

When the sleep timer is set, the set temperature automatically drops 1°C every 30 minutes. The set temperature can drop to a max. of 4°C.

<table>
<thead>
<tr>
<th>Time setting</th>
<th>1°C</th>
<th>2°C</th>
<th>3°C</th>
<th>4°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>30min.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60min.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90min.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Specifications**

- **Model name:** UTY-LNHG
- **Power Supply:** 1.5V (R03 / LR03 / AAA) x 2
- **Dimensions (H x W x D) (mm):** 170 x 56 x 19
- **Weight (g):** 85

---

IR Receiver Unit

**UTB-YWC**

Necessary to control for all Duct types* by Wireless Remote Controller

• Up to 16 indoor units can be controlled with one remote controller.

• Suitable for hotels or offices as it is easily operated with no complex functions.

**Functions**

**Wiring connection**

- Cassette type indoor unit can be controlled with Wireless Remote Controller

**Specifications**

- **Model name:** UTB-YWC
- **Power Supply:** DC 5V
- **Dimensions (H x W x D) (mm):** 145 x 90 x 30
- **Weight (g):** 150

---

IR Receiver Unit

**UTY-LRHGB1**

Cassette type indoor unit can be controlled with Wireless Remote Controller

**Functions**

**Wiring connection**

- Cassette type indoor unit can be controlled with Wireless Remote Controller

**Specifications**

- **Model name:** UTY-LRHGB1
- **Power Supply:** DC 5V
- **Dimensions (H x W x D) (mm):** 193.9×193.9×31.2
- **Weight (g):** 140
Group Remote Controller

**UTY-CGGG**

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor (UTY-VGGXZ1) is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote Controllers)

**Control up to 8 remote controller groups**

Single Group Remote Controller controls and monitors up to 8 remote controller groups.

**High performance and compact size**

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.

**Built-in weekly timers**

The weekly timer is provided as a standard function.

1. The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
2. Allows separate settings for each day of the week.

**Specifications**

- **Model/Name**: UTY-CGGG
- **Power Supply**: DC 12V
- **Dimensions (W x D x H) (mm)**: 120 x 120 x 18
- **Weight (g)**: 200

---

Central Remote Controller

**UTY-DCGG**

Central control of small- and medium-sized buildings and tenants. The operation status of all connected indoor units can be viewed at a glance on a large LCD monitor to simplify individual control to batched control.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- User friendly view and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

**System overview**

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device

**Easy Installation**

The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.
- Automatic or manual indoor unit registration

**Specifications**

- **Model/Name**: UTY-DCGG
- **Power Supply**: DC 5V
- **Dimensions (W x D x H) (mm)**: 120 x 162 x 25.7
- **Weight (g)**: 308
- **Power Supply Unit**: 100-240V, 60Hz, Single phase
- **Dimensions (W x D x H) (mm)**: 99 x 135 x 39.2
- **Weight (g)**: 355
AIRSTAGE™ Control Systems Centralized Controller

**Touch Panel Controller**

**NEW UTY-DTGGZ1**

- Large-sized 7.5-inch TFT color LCD
- Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.
- Mounted with LAN interface for remote control & operation, external input/ output with emergency stop and batch ON / OFF

**Functions**

**Control & monitoring from anywhere**

- Control and monitor Fujitsu’s air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.

**Easy maintenance**

- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking
- Easy-to-remove front cover

**Easy installation**

- Touch Panel controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation

**Up to 400 indoor units can be controlled**

- Control and monitor Fujitsu’s air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.

**Control & monitoring from anywhere**

- Control and monitor Fujitsu’s air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.

**Flexible access permission for Point each level user.**

Administrator can register multiple user to permit which indoor unit(s) and which function can access.

**Additional languages function**

Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.

Additional language can be integrated on remote device by creating language database.

Additional language is displayed only the remote device, and Touch Panel Controller cannot be added other languages.

**Smart Phone**

<table>
<thead>
<tr>
<th>Model</th>
<th>Operating System</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nexus 6P</td>
<td>Android 7.1</td>
<td>Google Chrome 5.5</td>
</tr>
<tr>
<td>iPad Pro 9.7inch</td>
<td>iOS 10.2.1</td>
<td>Safari 10</td>
</tr>
</tbody>
</table>

**Tablet**

<table>
<thead>
<tr>
<th>Model</th>
<th>Operating System</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tab (iPad)</td>
<td>OS 10</td>
<td>Safari 10</td>
</tr>
</tbody>
</table>

**LAN or Internet**

- Not only operations but also detail settings such as schedule or group settings can be operated from remote locations.

**Flexible grouping**

- It allows multiple indoor unit grouping
- Emergency stop function

**Additional languages function**

Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.

Additional language can be integrated on remote device by creating language database.

Additional language is displayed only the remote device, and Touch Panel Controller cannot be added other languages.

**Additional language**

- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.
- Additional language can be integrated on remote device by creating language database.
- Additional language is displayed only the remote device, and Touch Panel Controller cannot be added other languages.
Functions

Electricity charge apportionment

• Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.

- Apportionment charge calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation at cooling and heating
- Electricity meter supported

Automatic summer time setting

Providing function

1) Schedule setting of summer time setting
   • It prevents the user from forgetting to set summer time. In addition, it reduces the time and labor of user.

Automatic clock adjustment

2) The time setting of each controller can be set in batch automatically.

Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.

FUNCTIONS SUMMARY

Air conditioning control function

- On / Off
- Operation mode setting
- Fan speed setting
- Room temp. setting
- Room temp. set point limitation
- Test operation
- Timer (air conditioner day setting)
- High-lit air conditioner day setting
- Individual kitchen control
- Group setting
- N prohibition
- Air linear setting
- Set temp. auto return
- Room energy saving control
- Custom energy saving control
- Display
- Error
- Day of week
- Time setting (from 0 to 23)
- Address display
- Room temp
- Multi-language
- Summer time
- Time zone setting
- Name registration
- Backlight
- Language setting

- Supported
- Optional function
- Not supported yet

®1 Only setting cancellation can be operated.
*2 This function is available only through external input control.

Specifications

Model name
- UTY-DTGGZ1

Power Supply
- 100-240V 50/60Hz, Single phase

Dimensions (H x W x D) (mm)
- 260 x 246 x 54

Weight (g)
- 2,150

Transmission / LAN / USB / EXT IN / EXT OUT / Reset SW

Period
- Year

On/off, Temp, Mode, Times per day

Monitoring side

Timer
- Year

Schedule timer
- Year

Emergency stop
- Year

Remote management
- Year

Energy saving management
- Year

E-mail notification for malfunction
- Year

Key lock
- Password setting

Low noise mode
- Year

- Supported
- Optional function
- Not supported yet

*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.
System Controller

**NEW** UTY-APGZ1

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control functions, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.

**System Controller**

**NEW** UTY-ALGZ1

System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings.

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.

**Functions**

**User friendly view and operation**

- **Click & Operate** : The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.
- **Freely define groups for batched control** : Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchical structure, such as by section, division or department is possible.

![Diagram](image1)

![Diagram](image2)

**Diverse operation management & Data management**

**Schedule management**

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.

**Diverse control of indoor and outdoor unit**

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation

**Remote controller prohibition**

This prohibits changes to the operation mode, temperature, start/stop, etc.

**Automatic clock adjustment**

The time setting of each controller can be set in batch automatically.

**Electricity charge apportionment**

**Electricity charge apportionment calculation framework**

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)

The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

![Diagram](image3)

---

**3rd party devices connected by Modbus can be controlled.**

When Modbus Adapter (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.

![Diagram](image4)
Remote management
System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicates with VRF system. VRF Explorer runs remotely and provides user interface and communicate with VRF Controller. VRF Controller and VRF Explorer programs may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control
Max. 4 VRF network systems per site

Energy saving management
A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.

Peak cut operation
A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

Outdoor unit capacity save
Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.

FUNCTIONS SUMMARY

<table>
<thead>
<tr>
<th>Functions</th>
<th>Type</th>
<th>Minimum Installation</th>
<th>System Controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>System operation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site supervision</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electricity bill audit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy saving management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personal computer system requirements
The required PC specifications are shown in the following table.

<table>
<thead>
<tr>
<th>Computer System</th>
<th>System Controller</th>
<th>System Controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>- Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</td>
<td>- Windows® 8.1 (32-bit or 64-bit)</td>
</tr>
<tr>
<td>Memory</td>
<td>4 GB or more</td>
<td>4 GB or more</td>
</tr>
<tr>
<td>Display</td>
<td>1024 × 768 pixels or more</td>
<td>1024 × 768 pixels or more</td>
</tr>
</tbody>
</table>

Software
- Microsoft® Office 2013 compatible
- Remote control prohibited
- Grid information cannot be used
- Must be connected to the Internet

Packaging lists
- System controller
- Remote access
- Utility
- Central Control

Model name
- UTY-PEGXZ1
- UTY-PEGXZ2
- UTY-PEGXZ1
- UTY-PEGXZ2
- UTY-PEGXZ1
- UTY-PEGXZ2
**BACnet® Gateway**

- It is possible to connect medium-to-large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1,600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet®, a global standard for open networks.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.
- Scheduling function, alarm & event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Compatible with BACnet®/IP over Ethernet.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & functions need to be field supplied items.

### Functions

#### Installation example

**VRF network system 1**

- USB adapter (field-supplied)

**VRF network system 2**

- USB adapter (field-supplied)

**Max. 4 VRF network systems**

- USB adapter (field-supplied)

---

### Personal computer system requirements

<table>
<thead>
<tr>
<th>UTY-ABGXZ</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>・Microsoft® Windows® 7 Home Premium (32-bit or 64-bit), Windows® 7 Professional (32-bit or 64-bit) SP1&lt;br&gt;・Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)&lt;br&gt;・Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) (SUPPORTED LANGUAGE: English, Chinese (Simplified), German, Russian, Spanish, and Polish)</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel® Core™ i3 2 GHz or higher</td>
</tr>
<tr>
<td>RAM</td>
<td>1GB or more of free space</td>
</tr>
<tr>
<td>Display</td>
<td>1024 x 768 or higher resolution</td>
</tr>
<tr>
<td>Interface</td>
<td>・Ethernet port (for getting access to the Internet using LAN)&lt;br&gt;・USB ports (maximum 5 ports)&lt;br&gt;・1 USB port is required for the WHITE USB KEY/Builder connection&lt;br&gt; ・Maximum number of USB ports depends on the applicable system configurations.</td>
</tr>
<tr>
<td>Software</td>
<td>・Adobe® Reader® 9.0 or later</td>
</tr>
</tbody>
</table>
**MODBUS® Convertor**

**UTO-VMGX**

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.
- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.

**Functions**

- MODBUS® Convertor
  - For VRF

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTO-VMGX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>220-240V 60Hz</td>
</tr>
<tr>
<td>Input Power (W)</td>
<td>Max: 9</td>
</tr>
<tr>
<td>Dimensions (H x W x D) (mm)</td>
<td>54 x 260 x 150</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>940</td>
</tr>
</tbody>
</table>

**MODBUS® Interface**

**FJ-RC-MBS-1**

The Modbus Interface allows a complete integration of air conditioners into Modbus Networks.
- Simple installation due to small and compact size.
- No separate external power supply required.
- The Modbus Interface permits central monitoring and control of air conditioners from BMS.

**Functions**

- Modbus Interface
  - For VRF

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>FJ-RC-MBS-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D) (mm)</td>
<td>54 x 260 x 150</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>450</td>
</tr>
</tbody>
</table>

**KNX® Convertor (for VRF)**

**UTO-VKGX**

It is possible to control the VRF system from central / home controller via KNX network.
- New KNX Convertor enables to connect central/home controller and FC VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Converter.

**Functions**

- KNX Convertor for VRF
  - Registtable
  - 128 indoor units
  - 100 outdoor units

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTO-VKGX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>220-240V 60Hz</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>1.5</td>
</tr>
<tr>
<td>Dimensions (H x W x D) (mm)</td>
<td>54 x 260 x 150</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,200</td>
</tr>
</tbody>
</table>

**KNX® Interface**

**FJ-RC-KNX-1i**

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.
- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.

**Functions**

- KNX Interface
  - For VRF

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>FJ-RC-KNX-1i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D) (mm)</td>
<td>54 x 260 x 150</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>750</td>
</tr>
</tbody>
</table>

* BMS: Building Management Systems
* VRF: Variable Refrigerant Flow
* KNX: Konnex
* OBD: Open Building Device
* S/C: Smart Home Controller
**Wireless LAN Interface IntesisHome**

**FJ-RC-WIFI-1**
- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets, and PC.
- No separate external power supply required.
- Can be used for single indoor units and group controlled (up to 16) indoor units.

**Basic control**
- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer

**Advanced control (Optional functions)**
- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedulable functionalities (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

**Notifications and History**
- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

**Functions**

**Network Convertor**

**UTY-VTGX (DX power supply type)**
**UTY-VTGXV (AC power supply type)**

- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

**Installation example**
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.

- 2-wire and 3-wire type of the wired remote controller can be connectable.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.

- A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FJ-RC-WIFI-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x D x H) (mm)</td>
<td>108 × 70 × 28</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>80</td>
</tr>
</tbody>
</table>

**Network Convertor**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VTGX</th>
<th>UTY-VTGXV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>polar 3-wire 360W</td>
<td>non-polar 2-wire 360W</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>AC220-240V, Single phase</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x D x H) (mm)</td>
<td>140 × 117 × 43</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>250</td>
<td></td>
</tr>
</tbody>
</table>

**Network Convertor**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VTGX</th>
<th>UTY-VTGXV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>polar 3-wire 360W</td>
<td>non-polar 2-wire 360W</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>AC220-240V, Single phase</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W x D x H) (mm)</td>
<td>54 × 260 × 150</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,100</td>
<td></td>
</tr>
</tbody>
</table>
Network Convertor

**UTY-VGGXZ1**

• This Network Convertor is to be used for connecting single split system or Group Remote Controller (UTY-CGGY / UTY-CGGG) with the VRF network system.
• Please select the function by switching the dip switch during the installation.

### Used for connecting single split system

• Split type systems can be centrally controlled from Touch Panel Controller or System Controller through connection to the VRF's network convertor.
• On / Off Control, Master control, Room temperature and Fan speed setting via the Network Convertor are available.
• One Network Convertor can be used to connect and control up to 16 single units.

### Used for connecting Group Remote Controller

4 Group Remote Controllers can be connected to a single Network Convertor (UTY-VGGXZ1).

### Functions

#### Used for connecting single split system

- Split type systems can be centrally controlled from Touch Panel Controller or System Controller through connection to the VRF’s network convertor.
- On / Off Control, Master control, Room temperature and Fan speed setting via the Network Convertor are available.
- One Network Convertor can be used to connect and control up to 16 single units.

#### Used for connecting Group Remote Controller

4 Group Remote Controllers can be connected to a single Network Convertor (UTY-VGGXZ1).

### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VGGXZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>208-240V 60Hz, Single phase</td>
</tr>
<tr>
<td>Power Consumption (W)</td>
<td>4.5</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>67 × 288 × 211</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,500</td>
</tr>
</tbody>
</table>

* 2 refrigerant circuits can be covered by a single Network Convertor (UTY-VGGXZ1). Up to 16 Network Convertors (UTY-VGGXZ1) and System Controller adaptors can be connected in a single VRF network system.

### External Switch Controller

**NEW UTY-TERX**

• In combination with a field supply Card Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
• Card key or other sensor switches are available as a locally purchased parts.
• 2-wire type
• The set temperature can be specified at two points for cooling and heating individually (4 points).

#### Functions

**Installation example**

Human sensor catches movements of people in a room, and operates with lower capacity when people come back to the room, it automatically returns to previous operation mode.

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-TERX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC 6.5-16V</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>140 × 117 × 43</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>250</td>
</tr>
</tbody>
</table>

**Human sensor equipment needs to be purchased locally. The above example indicated that a signal is sent to this External Switch controller if human sensor is mounted on the External Switch Controller.**

### Signal Amplifier

**UTY-VSGXZ1**

• Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
• Up to 40 signal amplifiers can be installed in a VRF network system.
• A signal amplifier is required,
  1. When the total wiring length of the transmission line exceeds 500m.
  2. When the total number of units on the transmission line exceeds 64.

#### Functions

**Installation example**

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VSGXZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>208-240V 60Hz, Single phase</td>
</tr>
<tr>
<td>Power Consumption (W)</td>
<td>4.5</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>67 × 288 × 211</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,500</td>
</tr>
</tbody>
</table>
High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

Outdoor Air Unit

DX-Kit for air handling applications

### Outdoor Air Unit range

<table>
<thead>
<tr>
<th>Airflow rate (m³/h)</th>
<th>Model code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1080</td>
<td>072</td>
</tr>
<tr>
<td>1680</td>
<td>072</td>
</tr>
<tr>
<td>2100</td>
<td>072</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outdoor Air Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARXH054GTAH</td>
</tr>
<tr>
<td>ARXH072GTAH</td>
</tr>
<tr>
<td>ARXH096GTAH</td>
</tr>
</tbody>
</table>
Outdoor Air Unit

Models
ARXH054GTAH
ARXH072GTAH
ARXH096GTAH

Feature

One VRF system can provide air conditioning and air supply at the same time.

Outdoor Air Unit can be connected in a same VRF*1 system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.

One VRF system can provide air conditioning and air supply at the same time.

Various Controller

Supplied variety of controllers as options, such as individual controller, central controller, and building management controller.

Individual Controller

Central Controller

Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>ARXH054GTAH</th>
<th>ARXH072GTAH</th>
<th>ARXH096GTAH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Heating 15.5</td>
<td>32.7</td>
<td>55.6</td>
</tr>
<tr>
<td></td>
<td>Cooling 17.6</td>
<td>38.7</td>
<td>62.7</td>
</tr>
<tr>
<td></td>
<td>Heating 1.5</td>
<td>3.9</td>
<td>7.4</td>
</tr>
<tr>
<td></td>
<td>Cooling 1.3</td>
<td>3.2</td>
<td>5.7</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>1,080</td>
<td>2,100</td>
<td>3,120</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td>Static Pressure</td>
<td>1,080</td>
<td>2,100</td>
<td>3,120</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
<tr>
<td></td>
<td>2,100</td>
<td>4,200</td>
<td>6,300</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

Cooling: Outdoor temperature of 33°CDB / 28°CWB.
Heating: Outdoor temperature of 7°CDB / 16°CWB.

Top class compact design

- Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even in narrow space.

Dimensions

<table>
<thead>
<tr>
<th>Width x Depth x Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1367 mm x 2572 mm x 572 mm</td>
</tr>
</tbody>
</table>

- Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

High energy savings and flexible duct design by using DC motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.
- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- Static pressure can be set easily using wired remote controller.

- Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity.

* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity.

*1 Connectable VRF series: J-I, J-II, V-II, VR-II (Note: VR-II in J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.

* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.
DX-Kit for air handling applications

Models
- UTY-VDGX
  - EEV unit
  - UTP-VX30A
  - UTP-VX60A
  - UTP-VX90A

These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air units (FCU).

Feature
- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) ventilation (AHU) or room temperature (FCU).
- Dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air units (FCU).
- Possible to control via a Modbus enabled BMS by using optional interface.

Multiple temperature sensors optimally control the air handling unit and fan coil unit.

Arrangement as part of a VRF system

When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.

When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Supports a wide range of capacity classes
- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation tube of UTP-LX180A is required.)
- Connectable capacity range: 5 kW to 50 kW

A variety of controls to match the application
- Central control using our VRF controllers or central management controllers.

Central control from external controllers

- Fault information
- Heating / Cooling operation mode
- Capacity demand
- Fan control

Inputs
- On/Off indication
- Fan On/Off indication
- Thermo On/Off indication
- Defrost indication
- Fault indication

Outputs
- Heating / Cooling mode
- Capacity demand
- Mode
- Fan control
- Fault indication

Installation Limitation
- Connectable VRF series: All VRF
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. piping length from control unit: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity
- Single connection
- Mixed connection

Piping and wiring length
- Max. piping length: 5 m
- Max. wiring length: 10 m

Specifications

<table>
<thead>
<tr>
<th>EEV unit</th>
<th>UTP-VX30A</th>
<th>UTP-VX60A</th>
<th>UTP-VX90A</th>
<th>UTP-VX90A×2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy-saving capacity (kW)</td>
<td>5.0</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Capacity</td>
<td>Heating</td>
<td>5.0</td>
<td>6.3</td>
<td>8.0</td>
</tr>
<tr>
<td>Airflow (max/min)</td>
<td>1800</td>
<td>1440</td>
<td>1580</td>
<td>1580</td>
</tr>
<tr>
<td>Dimensions (H×W×D)</td>
<td>mm</td>
<td>180 × 220 × 90</td>
<td>3000 × 1000 × 1500</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions:
- Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
- Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
- Pipe length: 7.5 m, Voltage: 230 V.
# Auto Louver Grille Kit (Option)

**Models**
- UTD-GXTA-W
- UTD-GXTB-W
- UTD-GXTC-W

## Flexible Control
- **Operation with indoor unit**
  - Auto Louver can be operated by synchronizing remote controller of indoor unit.
- **UP and Down auto swing**
  - Auto airflow direction and auto swing
  - 4 steps selectable
- **Auto-closing louver**
  - When operation of indoor unit is stopped, the louver will automatically close.

## Dimensions

<table>
<thead>
<tr>
<th>Model Name</th>
<th>W1</th>
<th>W2</th>
<th>H1</th>
<th>D1</th>
<th>D2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTD-GXTA-W</td>
<td>645</td>
<td>845</td>
<td>1,045</td>
<td>180</td>
<td>148</td>
</tr>
<tr>
<td>UTD-GXTB-W</td>
<td>645</td>
<td>845</td>
<td>1,045</td>
<td>180</td>
<td>148</td>
</tr>
<tr>
<td>UTD-GXTC-W</td>
<td>645</td>
<td>845</td>
<td>1,045</td>
<td>180</td>
<td>148</td>
</tr>
</tbody>
</table>

**Unit:** mm

## Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>UTD-GXTA-W</th>
<th>UTD-GXTB-W</th>
<th>UTD-GXTC-W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Control</td>
<td>AR80091/81/82/84/AL4SH</td>
<td>AR80091/81/82/84/AL4SH</td>
<td>AR80091/81/82/84/AL4SH</td>
</tr>
<tr>
<td></td>
<td>AR80081/82/84/AL4SH</td>
<td>AR80081/82/84/AL4SH</td>
<td>AR80081/82/84/AL4SH</td>
</tr>
<tr>
<td></td>
<td>AR80081/82/84/AL4SH</td>
<td>AR80081/82/84/AL4SH</td>
<td>AR80081/82/84/AL4SH</td>
</tr>
<tr>
<td></td>
<td>AR80081/82/84/AL4SH</td>
<td>AR80081/82/84/AL4SH</td>
<td>AR80081/82/84/AL4SH</td>
</tr>
<tr>
<td>Duct type:</td>
<td>Wired Remote Controller</td>
<td>Wired Remote Controller</td>
<td>Wired Remote Controller</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>683 x 263 x (84+9)</td>
<td>883 x 263 x (84+9)</td>
<td>1,083 x 263 x (84+9)</td>
</tr>
<tr>
<td>Weight:</td>
<td>3.5 (7.7 lb)</td>
<td>4.2 (9.3 lb)</td>
<td>5.5 (12.1 lb)</td>
</tr>
<tr>
<td>Color:</td>
<td>White</td>
<td>White</td>
<td>White</td>
</tr>
</tbody>
</table>

**Closing Method:**
- Locking lever

**Accessories:**
- Fitting Flange, etc.

**Duct joint:**
- 1.0m (Max. duct length between indoor unit and Grille)

**Model name:**
- UTD-GXTA-W
- UTD-GXTB-W
- UTD-GXTC-W

## Note
*The Auto Louver Grille Kit can also be installed to ARXD07/09/12/14/18/24LATH revision code B models. Please refer to the Design & Technical manual for “revision code” details.*
## OPTIONAL PARTS LIST

### Controllers / Interface

<table>
<thead>
<tr>
<th>Type</th>
<th>4-way Compact</th>
<th>4-way Ducted</th>
<th>NCB (without pump)</th>
<th>NCBA (without pump)</th>
<th>NCBA (with pump)</th>
<th>DCBA (with pump)</th>
<th>High Static Pressure</th>
<th>Indoor Unit</th>
<th>CEV/CCC</th>
<th>DPF</th>
</tr>
</thead>
</table>

### Others

<table>
<thead>
<tr>
<th>Type</th>
<th>4-way Compact</th>
<th>4-way Ducted</th>
<th>NCB (without pump)</th>
<th>NCBA (without pump)</th>
<th>NCBA (with pump)</th>
<th>DCBA (with pump)</th>
<th>High Static Pressure</th>
<th>Indoor Unit</th>
<th>CEV/CCC</th>
<th>DPF</th>
</tr>
</thead>
</table>

---

**Note:** The table above lists various controllers, interfaces, and other parts for the AIRSTAGE™ Option system. Each entry corresponds to specific components and their configurations, such as 4-way and 4-way ducted systems, NCB and NCBA types with or without pumps, High Static Pressure, and indoor units. The CEV/CCC and DPF columns indicate compliance and performance criteria.
OPTIONAL PARTS

Controllers

- For Individual Control
  - Wired Remote Controller (Touch Panel)
    NEW UTY-RNRGZ2
  - Simple Remote Controller
    NEW UTY-RHRG
    Without operation mode
  - Wireless Remote Controller
    UTY-LNHG
  - IR Receiver Unit
    UTY-LRHC
    For Cassette type
  - For Centralized Control
    - Group Remote Controller
      UTY-CGGG
    - Central Remote Controller
      UTY-DGGG
    - Touch Panel Controller
      NEW UTY-PTGXX2
      Option
  - System Controller Lite
    NEW UTY-ALGXZ1
  - System Controller
    NEW UTY-APGXZ1
  - Convertors / Adaptors
    - BACnet® Gateway
      NEW UTY-ABGXZ1
    - MODBUS® Converter
      UTY-VMGX
    - Wireless LAN Interface
      FJ-RC-WIFI-1
    - KNX® Interface
      FJ-RC-KNX-1
    - External Switch Controller
      UTY-TERX
    - Network Convertor
      for single split
      UTY-VTGX
    - DC power supply type
      UTY-VTKX
    - AC power supply type
      UTY-VTKX
  - Signal Amplifier
    UTY-VSGXZ1
  - Panels
    - Cassette Grille
      UTY-UFGC-W
      For Compact Cassette type
    - Cassette Grille
      UTY-UFGG-W
      For Cassette type
OPTIONAL PARTS

For Duct type

- **Flange (Round)**
  - UTD-DF204
  - For Medium Static Pressure Duct type / Ceiling type

- **Flange (Square)**
  - UTD-SF03T
  - For Medium Static Pressure Duct type

- **Remote Sensor Unit**
  - UTY-XS2Z
  - For All Duct type

  → New amenity space can be offered by installing the Remote sensor.

- **Long-Life Filter**
  - UTD-LF60KA
  - For Medium Static Pressure Duct type

- **Auto Louver Grille Kit**
  - UTD-CGTA-60 (for ARXD07/09/12/14, UTR-XP1NBA)
  - For High Static Pressure Duct type

- **Drain Pump Unit**
  - UTD-PX1NBA
  - For Medium Static Pressure Duct type / Ceiling type

  → New amenity space can be offered by installing the Drain Pump Unit.

- **New amenity space can be offered by installing the Remote sensor.**

- **For Duct type**
  - **Communication system: External Connect Kit**
    - UTY-XWZXZ7
    - For Indoor unit
    - UTY-XWZXZB
    - For Outdoor unit

  → Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

- **For Cassette type**
  - **Insulation Kit for High Humidity**
    - UTD-KXRA
    - UTD-KXGC

  → Insulation Kit

For Cassette type

- **Panel Spacer**
  - UTR-BPX8A-W
  - For Cassette type

- **Insulation Kit for High Humidity**
  - UTD-KXRA
  - UTD-KXGC

  → Insulation Kit

- **Air Outlet Shutter Plate**
  - UTR-YDZK
  - For Cassette type

  → Air outlet shutter for Cassette type

- **Air Outlet Shutter Plate**
  - UTR-YDZK
  - For Compact Cassette type

  → Air outlet shutter for Compact Cassette type

- **For Ceiling type**
  - **Drain Pump Unit**
    - UTR-BPX2A4
    - For Ceiling type

<table>
<thead>
<tr>
<th>Function</th>
<th>Input Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation Status</td>
<td>UTY-XWZXZ6</td>
</tr>
<tr>
<td>All On / All Off</td>
<td>UTY-XWZXZ7</td>
</tr>
<tr>
<td>Batch Stop</td>
<td>UTY-XWZXZ8</td>
</tr>
<tr>
<td>Forced Stop</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Emergency Stop</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Thermostat off</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Operation Status</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Error Status</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Base Heater</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Indoor Unit Function</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Auxiliary</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Operation / Stop</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>4-way Compact, 4-way, Mini Slim (With drain pump), Medium Static Pressure, High Static Pressure</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Ceiling / Floor Ceiling</td>
<td>UTY-XWZXZC</td>
</tr>
<tr>
<td>Wall Mounted, Wall Mounted</td>
<td>UTY-XWZXZC</td>
</tr>
</tbody>
</table>

- **For Cassette type**
  - **Insulation Kit**
    - UTD-KXRA
    - UTD-KXGC

  → Insulation Kit

Others

- **For Central Remote Controller**
  - UTY-XWZXZ7
  - For Indoor unit

- **For Touch Panel Controller**
  - UTY-XWZXZ7
  - For Central Remote Controller

- **For Compact Cassette type**
  - **Air Outlet Shutter Plate**
    - UTR-YDZB

  → Air outlet shutter for Compact Cassette type

**OPTIONAL PARTS**

- **Wide Panel**
  - UTD-AN5A-W
  - For Cassette type

- **Panel Spacer**
  - UTR-BPX8A-W
  - For Cassette type

<table>
<thead>
<tr>
<th>Communication system: External Connect Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-XWZXZ7</td>
</tr>
<tr>
<td>UTY-XWZXZB</td>
</tr>
</tbody>
</table>

- **For Compact Cassette type**
  - **Air Outlet Shutter Plate**
    - UTR-YDZB

  → Air outlet shutter for Compact Cassette type

- **For Cassette type**
  - **Insulation Kit for High Humidity**
    - UTD-KXRA
    - UTD-KXGC

  → Insulation Kit

- **Air Outlet Shutter Plate**
  - UTR-YDZK

  → Air outlet shutter for Cassette type

- **Air Outlet Shutter Plate**
  - UTR-YDZK

  → Air outlet shutter for Compact Cassette type

- **For Ceiling type**
  - **Drain Pump Unit**
    - UTR-BPX2A4
    - For Ceiling type

<table>
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<th>Communication system: External Connect Kit</th>
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<tr>
<td>UTY-XWZXZ7</td>
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<tr>
<td>UTY-XWZXZB</td>
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- **For Cassette type**
  - **Insulation Kit for High Humidity**
    - UTD-KXRA
    - UTD-KXGC

  → Insulation Kit

- **Air Outlet Shutter Plate**
  - UTR-YDZK

  → Air outlet shutter for Cassette type

- **Air Outlet Shutter Plate**
  - UTR-YDZK

  → Air outlet shutter for Compact Cassette type

- **For Ceiling type**
  - **Drain Pump Unit**
    - UTR-BPX2A4
    - For Ceiling type
OPTIONAL PARTS

Connection Units

**Separation Tube**

- **UTP-AX054A**
- **Liquid Pipe**
- **UTP-AX090A**
- **Liquid Pipe**
- **UTP-AX180A**
- **Liquid Pipe**
- **UTP-LX180A**
- **For DX-Kit**

**Header**

- **UTR-H0906L / UTR-H1806L**
- **UTR-H0908L / UTR-H1808L**

**Outdoor Unit Branch Kit**

- **UTP-CX567A**

**EV Kit**

- **Model code** 09 : **UTR-EV09XB**
- **Model code** 12 : **UTR-EV14XB**
  
**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTP-AX054A</th>
<th>UTP-AX090A</th>
<th>UTP-AX180A</th>
<th>UTP-AX567A</th>
</tr>
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<tbody>
<tr>
<td>Total cooling capacity of indoor unit (kW)</td>
<td>19.6 or less</td>
<td>28.0 or less</td>
<td>28.1 to 56.0</td>
<td>56.1 or more</td>
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<table>
<thead>
<tr>
<th>Model name</th>
<th>3-6 Branches</th>
<th>3-8 Branches</th>
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<tbody>
<tr>
<td><strong>UTR-H0906L</strong></td>
<td><strong>UTR-H0908L</strong></td>
<td><strong>UTR-H1806L</strong></td>
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<tr>
<td><strong>UTR-H0908L</strong></td>
<td>28.0 or less</td>
<td>28.1 to 56.0</td>
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<tr>
<td><strong>UTR-H1808L</strong></td>
<td><strong>UTR-H1808L</strong></td>
<td><strong>UTR-H1808L</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Model name</th>
<th>Number of Outdoor units</th>
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<tbody>
<tr>
<td><strong>UTP-CX567A</strong></td>
<td>2 outdoor units</td>
</tr>
<tr>
<td><strong>UTP-CX567A</strong></td>
<td>3 outdoor units</td>
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<table>
<thead>
<tr>
<th>Model name</th>
<th><strong>UTR-EV09XB</strong></th>
<th><strong>UTR-EV14XB</strong></th>
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<tbody>
<tr>
<td><strong>Application Model</strong></td>
<td><strong>ASHE07GACH</strong></td>
<td><strong>ASHE07GACH</strong></td>
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<td></td>
<td><strong>ASHE12GACH</strong></td>
<td><strong>ASHE12GACH</strong></td>
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</table>
ABOUT US

Since we began our air conditioning business in 1971, our products have been popular around the world and we continue to improve them.

OUR HISTORY
GLOBAL NETWORK
HIGH QUALITY DEVELOPMENT & PRODUCTION FACILITIES
PROJECT REFERENCE
FUJITSU GENERAL'S VRF AIRSTAGE™ Series has been developed based on our long-term air-conditioning technology know-how and was first provided 14 years ago. We have offered a series of products from large homes to large-scale buildings to meet the various market needs.

**FUJITSU GENERAL AIR CONDITIONING**

**VRF Business since 2001**

**OUR HISTORY**

Overseas Air Conditioning Business since 1971

1936 - Established as Yaou Shouten Ltd.

1971 - Air conditioner exports to Middle East.

2001 - 10HP / Heat recovery & Heat pump

2003 - 10HP / Heat recovery & 8HP / Heat pump & Cooling

2004 - Small VRF series is released. 6HP / Heat pump

2007 - 8 to 62HP / Heat pump

2009 - High efficiency and compact design model

2012 - High efficiency and compact design model

2013 - Tropical spec model

2015 - High efficiency and large capacity model

2016 - Tropical spec model

2017 - High efficiency and compact design model

1998 - Fujitsu General (Shanghai) Co., Ltd.

1999 - Fujitsu General (Thailand) Co., Ltd.

2002 - FGA (Thailand) Co., Ltd.

2006 - Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
Fujitsu General’s air conditioning business has acquired a major share of the overseas market. We have many production and sales facilities overseas, and we continue to develop and sell products that are accepted around the world by their “easy-to-use and environmentally-friendly technology”.

GLOBAL NETWORK

Fujitsu General’s air conditioning business has acquired a major share of the overseas market. We have many production and sales facilities overseas, and we continue to develop and sell products that are accepted around the world by their “easy-to-use and environmentally-friendly technology”.

11 Overseas Sales Companies &
6 Overseas Manufacturing Companies
3 R&D Center

- Head Office
- Sales Companies
- Manufacturing Companies
- R&D Center

- Fujitsu General America, Inc.
- Fujitsu General Do Brasil Ltda.
- Fujitsu General (Middle East) FZE
- Air conditioner solution center "THE AIRSTAGE" in Manhattan, New York
- Fujitsu General (U.K.) Co., Limited
- Fujitsu General (Euro) GmbH
- Fujitsu General Air Conditioning (UK) Limited
- Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
- F.G.L.S Electric Co., Ltd.
- Fujitsu General Limited
- R&D Center
- Fujitsu General Orient International Electronics Sales (Shanghai) Co., Ltd.
- Fujitsu General (Shanghai) Co., Ltd.
- R&D Center
- Fujitsu General (Shanghai) Co., Ltd.
- F.G.L.S Electric Co., Ltd.
- Fujitsu General (Taiwan) Co., Ltd.
- Fujitsu General (Thailand) Co., Ltd.
- Fujitsu General Engineering (Thailand) Co., Ltd.
- TCFG Compressor (Thailand) Co., Ltd.
- Fujitsu General (Thailand) Co., Ltd.
- FGA (Thailand) Co., Ltd.
- TCFG Compressor (Thailand) Co., Ltd.
- Fujitsu General (Aust.) Pty. Ltd.
- Fujitsu General New Zealand Limited
- Fujitsu General (Thailand) Co., Ltd.
- Fujitsu General Engineering (Thailand) Co., Ltd.
- FGA (Thailand) Co., Ltd.
- TCFG Compressor (Thailand) Co., Ltd.

JAPAN Head Office
R&D Center and 60 m Height Difference Testing Tower
HIGH QUALITY DEVELOPMENT & PRODUCTION

Fujitsu General is one of Japan’s leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance using these facilities.

Advanced Research Facility and Equipment

Performance Testing

- Air Volume Measurement Room
  Measure air volumes of the air conditioners from compact RAC models to VRF.
- Calorimeter
  Measure the cooling/heating capacity by measuing the inlet and outlet temperatures, humidity, and air volume of the air conditioner.
- Silent Room
  Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.

Reliability Testing

- Constant Temperature Room
  Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.
- Practical Test Room
  Check on whether the air conditioners performance under the actual house conditions is sustainable.
- Shower Test Room
  Check on whether the electrical box of the outdoor unit is protected by rain waters with typhoon like wind.

Transportation & Handling

- Compressibility testing
- Vibration testing

FACILITIES

ACQUISITION OF ISO 9001 AND ISO 14001

Each of overseas production bases (5 companies) has completed the acquisition of ISO 9001 and ISO 14001 individually.

In 2012, overseas sales bases (11 companies) acquired the certification of ISO 14001.

High Product Quality Assurance

All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

Receiving inspection

Parts procurement requires a supplier’s test report. European regulation RoHS inspection is also performed by special test department in-house. Total number inspection is performed especially on main parts to remove defectives.

Stringent product quality inspection

Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.

Testing Laboratory

Fujitsu General EMC Laboratory Limited

- Receiving inspections
- Parts & Material
- Assembly
- Completed product inspection
- Shipping

- Product quality inspections
  - Pressure resistance inspection
  - Insulation resistance inspection
  - Withstand voltage inspection
  - Insulation resistance inspection
  - Withstand voltage inspection

- Completed product inspection
  - Performance inspection
  - Visual inspection
  - Water injection inspection
  - Vibration inspection
Our product is popular because of its high quality, energy saving, and easy installation, and so has been installed in a wide range of building types including high-rise office buildings, stores, hotels, public facilities, schools, hospitals and residential.

Fujitsu General’s Products have been installed in over 50 countries worldwide.
SUPPORT

Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

AIRSTAGE™ SUPPORT
AIRSTAGE™ / RAC SUPPORT TOOL
QUICK SERVICE & MAINTENANCE
SERVICE TOOL
WEB MONITORING TOOL

<table>
<thead>
<tr>
<th>Category</th>
<th>Information Material</th>
<th>Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Training</td>
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<td></td>
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<tr>
<td>Product Information Seek</td>
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<tr>
<td>Technical Information Seek</td>
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<tr>
<td>Model Selection</td>
<td></td>
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<tr>
<td>Design</td>
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<tr>
<td>Verification</td>
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<tr>
<td>Installation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>After sales and Service</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.
Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities. We provide a wide range of support to maintain high quality from design to installation.

**Training**
Fujitsu General has many training facilities around the world that regularly conduct specialized product, technical, and service training. These research facilities also support the development of people with high technical capability.

**Features**
- Designing AIRSTAGETM Systems
- Control System on-site training

**Technical information**
We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

**Features**
- Design & Technical Manual
- Model Selection & Estimation
- Certificate Data
- 2D/3D CAD Data

**Product information**
New product information is provided in the form of documents and movies for every new model released. These can be downloaded from a private section of our website. To access this website, please contact your Fujitsu representative.

**Features**
- Product News
- Brochures & All Manuals
- Feature Promotion Movie

**Technical support**
Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

**Features**
- CFD Simulation
- Guide line
- Commissioning Support

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**Technical support**
Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

**Features**
- CFD Simulation
- Guide line
- Commissioning Support
Put the charts and pens away and design your projects on your computer with ease using the Design Simulator. Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program’s built-in features.

Once your project is designed, take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more. It’s even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.

**Design Simulator**

- Automatically create model selection information
  - Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
  - Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
  - The additional refrigerant charging amount is automatically calculated when the pipe length is entered.
  - It is also easy to set the remote controller groups, central controller and converters.
  - The equipment list including the equipment information is created automatically.

- Output the format that matches the application
  The information specific to your project can be exported in a number of industry standard file formats.
  - Word format (.rtf/.doc)
  - Excel format (.csv)
  - Acrobat format (.pdf)
  - Auto CAD format (.DXF)
  - 2D Data (.DXF)
  - 3D Data (.RFA)

- Update your Design Simulator
  Database can be easily updated online using AutoUpdate function through FTP.

**BIM Building Information Modeling**

Fujitsu General provides the Building Information Modeling (BIM) object models and contents for our VRF system and some products to the architect, designer and contractor using Autodesk® Revit® technology from our Website and Autodesk® Seek Website, etc.

- 3D and 2D product data
  We provide 3D data that closely resemble the actual product appearance. 2D CAD design operations are supported and 2D display is also provided. The data can also be output in other formats, such as DXF and DWG, which are used by other design CAD.

- Installation limitation
  The equipment installation limitation range is shown. Installation requirements, such as distance from the wall, is automatically displayed to make it easy to produce highly reliable layout designs.

- Update your Design Simulator
  Other information, such as symbols showing the airflow direction that are required for installation drawings, is built in and can be automatically reflected in 2D drawings. Installation drawings can be created easily.

- Product specifications & link information
  Contains the basic information required for air conditioner design, including unit size, capacity, input power, noise, and airflow rate. These data can be procured from the Fujitsu General Website, Design Simulator, and Autodesk® Seek Website.
QUICK SERVICE & MAINTENANCE

If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.

Mobile troubleshooting tool for iPhone & Android

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF).

It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.

Easy maintenance & monitoring

Design for easy maintenance

The air conditioner operating status and trouble status of the detailed are displayed at the 7-segment of the outdoor unit PCB or on the remote controller screen. The unit status can be checked rapidly and quick response is also possible.

- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.

Error diagnosis by Service Tool

Error diagnosis by Service Tool

The unit status details for VRF system can be checked on PC screen by connecting Service Tool. Quick countermeasures can be taken

- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram
- Automatic operation check for refrigeration cycle

Remote monitoring

VRF system operating status and trouble status details can be constantly and remotely monitored over the Internet, etc. Rapid cooperation with the service personnel are also possible.
**SERVICE TOOL**

**Extensive monitoring and analysis functions for installation and maintenance**

- Operation status can be checked and analyzed to detect even the smallest abnormalities.
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels.
- This software can be connected to any point of transmission line with USB adapter (locally purchased).

*The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.*

- UTR-YMSA (Web Monitoring Tool)
- UTR-YSTB/UTR-YSTC (Service Tool)

*The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.*

- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

**Technical support & maintenance**

After product installation, operation check can be performed automatically. Self-diagnosis function automatically judges whether each sensor value is normal, so the operation check work can be reduced. The diagnosis can also be output as a report.

**Personal computer system requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1 GHz or higher</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])</td>
</tr>
<tr>
<td>Memory</td>
<td>1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])</td>
</tr>
<tr>
<td>Display</td>
<td>1,366 x 768 or higher resolution</td>
</tr>
<tr>
<td>HDD</td>
<td>40 GB or more of free space</td>
</tr>
<tr>
<td>Operating system</td>
<td>Microsoft® Windows® 10 Pro (32-bit or 64-bit)</td>
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<tr>
<td></td>
<td>Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)</td>
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<td></td>
<td>Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1</td>
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<td>Software protection key</td>
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<tr>
<td>Application</td>
<td>Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later</td>
</tr>
</tbody>
</table>

**WEB MONITORING TOOL**

**Product features**

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet.*
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

* Use of internet mail system required.

**Web Monitoring System**

**Personal computer system requirements**

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<tr>
<td>HDD</td>
<td>40 GB or more of free space</td>
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<tr>
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<td></td>
<td>Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)</td>
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<tr>
<td>Application</td>
<td>Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later</td>
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