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 VRF 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.
Fujitsu General’s VRF AIRSTAGE™ Series has been developed based on our long-term air-conditioning technology know-how and was first provided 18 years ago. We have offered a series of products from large homes to large-scale buildings to meet the various market needs.

**Our Message**

Overseas Air Conditioning Business since 1971
VRF Business since 2001

**Our History**

1936 Established as Yaou Shouten Ltd.

1971 Air conditioner exports to Middle East.

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.

2012 Certification Acquisition of ISO14001

2012 DC Inverter Compressors Use of 100% inverter driven DC compressors.

2012 RoHS Compliant Restriction of Hazardous Substances (RoHS) is an EU directive on the restriction of the use of certain hazardous substances in all consumer electrical and electronic equipment.

2004 New Product Initiatives Fujitsu introduced inverter technology which used R410A refrigerant.

2004 ILHIS Compliant Restrictions of Hazardous Substances (RoHS) is an EU directive on the restriction of the use of certain hazardous substances in all consumer electrical and electronic equipment.

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.

WORLD WIDE LOCATIONS

Promoting Globalization from a global perspective while emphasizing the actual local situation in the field under the aim of advancing our five-base system (Europe, Middle East, Asia & Oceania, Americas, and Japan)

15 Overseas Sales Companies

OUR MESSAGE
GLOBAL BUSINESS ACTIVITIES

We are engaging in advertising, human resource development, CS activities, and social contribution activities worldwide. These activities have been recognized throughout different regions by the awards we have been honored with.

OUR MESSAGE

International authoritative design awards

North/South America

Middle East

Europe

Oceania

Asia

North/South America

Middle East

Europe

Oceania

Asia

International authoritative design awards
PROJECT REFERENCE

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.

For Light Commercial
1. Shop in Europe
2. Shop in Europe
3. Museum in Europe
4. Hotel in Oceania
5. Restaurant in Middle East
6. School in U.S.A
7. Hospital in Asia
8. Shop in Asia

For Commercial
1. Office in Europe
2. Office in Europe
3. Office in Europe
4. Hotel in Asia

For Residential
1. Residential in Europe
2. Residential in Europe
3. Residential in Oceania
4. Residential in Middle East
GLOBAL DEVELOPMENT & PRODUCTION BASES

R&D centers are set up in five countries of Japan, Europe, Asia, China and North America in the world. We pursue the environmental property and comfort to meet each area needs.

R&D Center & New Technology Research Building

Overseas Manufacturing Companies

- Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.
- F.G.I.S Electric Co., Ltd.
- Fujitsu General Limited
- R&D Center
- F.I.C. (Thailand) Co., Ltd.
- TCFG Compressor (Thailand) Co., Ltd.
- F.G.I.S. Electric Co., Ltd. (China)
- Fujitsu General (Shanghai) Co., Ltd. (China)
- Fujitsu General (Thailand) Co., Ltd. (Thailand)
- F.G.A. (Thailand) Co., Ltd.
- TCFG Compressor (Thailand) Co., Ltd. (Thailand)

NEW TECHNOLOGY RESEARCH BUILDING

R&D Center in Fujitsu General (Shanghai)
R&D Center in Fujitsu General Engineering (Thailand)
R&D Center in Fujitsu General (EURO) GmbH (Germany)
R&D Center in Fujitsu General America (U.S.A.)
JPRIN Head Office
R&D Center and 60 m Height Difference Testing Tower (Japan)
HIGH QUALITY DEVELOPMENT & PRODUCTION

Advanced Research Facility and Equipment

Performance Testing
- Calorimeter: Measure the cooling/heating capacity by measuring 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.

Testing Laboratory
- Fujitsu General EMC Laboratory Limited

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

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
- 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.

Parts & Material
- Receiving inspections
  - Balance inspection
  - RoHS inspection
  - Parts visual inspection
  - Parts specifications inspection

Assemble
- Product quality inspections
  - Pressure resistance inspection
  - Insulation resistance inspection
  - Heat run inspection

Packaging
- Completed product inspection
  - Sampling inspection
  - Visual inspection
  - Water leakage inspection
  - Vibration drop test
Fujitsu General provides the best solutions suitable for properties.

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

Target Property

LIGHT COMMERCIAL
For Small offices, Hotels, School, Shops and Restaurant 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.
**Small Offices**
*For Light Commercial*

Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

**AIRSTAGE™ SOLUTIONS**

**New centralised remote controller with improved operability**

Temperature management of each room and one week operation control management/settings are supported easily. This controller makes energy saving management possible with upper/lower temperature limit settings and operation prohibited settings.

**New style 3D flow cassette provides more comfort**

The left and right air outlet ports with max. 180° rotation angle and the wide center air outlet port can minimize uneven temperature to create a comfortable space.

**Various indoor units lineup for low capacity class**

Various range of low capacity 1.1 kW indoor units to suit small rooms or spaces.

**Compact and low noise design outdoor unit**

This compact outdoor unit does not take up much space even if installed in a machine room or on the rooftop. This unit secures enough static pressure even if there are louvers. Low noise operation is possible at nighttime by a low noise mode.

**Control and monitoring**

The same management as with the main unit is possible even if you are not at your desk. Non-administrators can also operate the air conditioners with a PC, Smartphone or tablet.

**AIRSTAGE™ J-Series Up to 18 HP by compact outdoor unit**

Small VRF system is suitable for the buildings with many small rooms. Max. 42* indoor units can be connected.

*Only J-BL 18 HP model*
Fujitsu General provides perfect total air conditioning systems that take into account comfort, energy saving, external appearance, safety and easy installation for small low-rise hotels.

**AIRSTAGE™ SOLUTIONS**

**Hotels**

**For Light Commercial**

**AIRSTAGE™ J-Series**

Appearance-oriented compact outdoor unit

Due to the lowest and most compact design in the industry, the appearance of hotel is not damaged even when installed on the building.

**Ventilation of the whole hotel supported**

Outdoor air processing is essential in hotel spaces with a high degree of air tightness. The DX Kit can link up with air conditioners to ensure sufficient ventilation. This system can be expanded.

**Guest room air conditioning with excellent comfort, energy saving and easy installation**

- **Space saving**
  - Mini duct type with 198 mm height and 458 mm depth. This can be installed in narrow ceiling space easily.

- **Card key switch available**
  - Using the card key prevents you from forgetting to switch off the air conditioner.

- **Comfortable airflow that switches up and down air directions**
  - The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.

- **Use of an external connect switch**

**Centralized control of air conditioning in shared spaces**

Air conditioning in shared spaces such as lobbies and hallways is controlled centrally. Temperature and operating conditions can be managed without the adjustment by guests.

**Simple Remote Controller with sophisticated design**

Suitable for hotels or offices as it is easily operated with no complex functions. Large LED screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.

**Large space air conditioning in the reception and lobby**

Ultra-large duct type single split system suitable for large spaces with high ceilings.
Centralized control of both air conditioning and ventilation equipment

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

School

For Light Commercial

Fujitsu General provides the optimal number of connected indoor units for mid-sized educational institutions. The degree of freedom of the installation location selection is improved with a compact design that minimizes the installation area. Even one outdoor unit can cover the entire school building.

Various indoor units

We have a lineup of indoor units that can also support complex applications – from normal classrooms to special classrooms and auditoriums. Air conditioners can be also added easily.

Comfortable room air conditioning without airflow feeling

Circular Flow Cassette blows out in all directions without temperature unevenness

Individual airflow direction control to prevent people from being exposed to airflow

Energy saving operation when there are no people by linking up with human sensor

Human sensor (Option)
Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.

**Restaurant, Shops**

For Light Commercial

Appropriate air conditioning in the atrium space

Appropriate air conditioning of the high-ceiling and glass-sided atrium space with a large duct system.

Color variations by two panels

Both black and white panels are available for Cassette type. Black panel is suitable for the dark place such as a restaurant with atmosphere. White panel is usually used at bright areas such as offices. (Available to single split and VRF indoor units)

Low outside air temperature cooling air conditioning support

Low outside air temperature cooling operation is necessary in winter in stores with a lot of heat inside. Air conditioning system can be supported flexibility to allow cooling operation at -15°C.
AIRSTAGE™ SOLUTIONS

Large Building
For Commercial

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

Abundant lineup suitable to match the operating environment
VRF series lineup to meet various needs such as energy saving-orientated models and models compatible with a high outdoor air temperature of 52°F*.

* INDOOR model only

Smart and cutting-edge design. Extensive lineup from 8 HP to 48 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 150%

8 HP - 48 HP 34 Models
• Space saving combination: 8 HP to 48 HP/21 models
• Energy efficiency combination: 16 HP to 44 HP/13 models

Individual air conditioning system for large buildings
Capacities can be expanded up to simultaneous cooling and heating with maximum 48HP. Large individual air conditioning is supported.

Centralized control
Not only indoor units in the building but also facilities such as ventilation can be controlled easily by anyone.

High system flexibility
Flexible installation on each floor and installation of diverse indoor units are possible through the industry's top class high static pressure, long piping design and connection capacity.

82* Pa
* 82Pa for VR-II

Link up with a variety of BMS
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, BACnet, KNX and other various interfaces.

Rapid service support
The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response for emergency is possible by a self-diagnosis in advance in cooperation with a management company.
AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

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
MORE COMFORT
HIGH RELIABILITY
DESIGN FLEXIBILITY
EASY INSTALLATION
EASY SERVICE & MAINTENANCE
HIGH ENERGY EFFICIENCY

Operation Performance is Efficiently Controlled.

Room temperature set point limitation
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

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 of 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.
AIRSTAGE™ CORE TECHNOLOGY

MORE COMFORT

Auto changeover function
At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.

Auto changeover setting allows for the product to easily switch between cooling and heating modes regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.

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.

Low sound level design
Small capacity indoor units respond for the demands of several applications.

These models will be able to offer greater audibility comfort by operating at super low sound levels. Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.

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 VR-II series is not available.
HIGH RELIABILITY

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.

Adoption of blue fin heat exchanger
Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.
High static pressure
The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa to 82Pa.
This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge air prevents a short-circuit.

Large diameter fan and DC motor has been utilized allowing an internal static pressure of 80Pa to 82Pa. This is approximately 2.6 times greater than the previous model.

Wide operating range
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 -15°C to 5°C.
**Note:** Only when all indoor units are 5.6kW or more, maximum connectable indoor unit capacity ratio is 150%.

*1. Conditions of maximum connectable indoor unit capacity ratio is in the chart below.
*2. Max. capacities in the combinations including the 1.1kW models.
*3. In the case of connectable indoor units, 1.1kW models and Cassette and / or Duct type of 9.0 kW class or above are connectable.

<table>
<thead>
<tr>
<th>Series</th>
<th>Maximum connectable indoor unit capacity ratio Without 1.1kW models</th>
<th>With 1.1kW models</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR-II</td>
<td>150%</td>
<td>130%</td>
</tr>
<tr>
<td>V-III</td>
<td>150%</td>
<td>130%</td>
</tr>
<tr>
<td>J-IIS</td>
<td>150%</td>
<td>130%</td>
</tr>
<tr>
<td>J-IIIL</td>
<td>150%</td>
<td>130%</td>
</tr>
<tr>
<td>V-III tropical</td>
<td>150%</td>
<td>130%</td>
</tr>
</tbody>
</table>

**TM**
AIRSTAGE TM J-IIIL series (8/10/12HP)
AIRSTAGE TM V-III series
AIRSTAGE TM J-IIS series
AIRSTAGE TM V-III tropical series

**Cooling & Heating**

<table>
<thead>
<tr>
<th>°C</th>
<th>50% to 150%</th>
<th>50% to 130%</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>-10°C</td>
<td>-10°C</td>
</tr>
<tr>
<td>-10</td>
<td>-5°C</td>
<td>-5°C</td>
</tr>
<tr>
<td>0</td>
<td>21°C</td>
<td>21°C</td>
</tr>
<tr>
<td>20</td>
<td>30°C</td>
<td>30°C</td>
</tr>
<tr>
<td>30</td>
<td>40°C</td>
<td>40°C</td>
</tr>
<tr>
<td>40</td>
<td>50°C</td>
<td>50°C</td>
</tr>
<tr>
<td>50</td>
<td>60°C</td>
<td>60°C</td>
</tr>
</tbody>
</table>

**Heat Recovery type**

<table>
<thead>
<tr>
<th>°C</th>
<th>50% to 150%</th>
<th>50% to 130%</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>-10°C</td>
<td>-10°C</td>
</tr>
<tr>
<td>-10</td>
<td>-5°C</td>
<td>-5°C</td>
</tr>
<tr>
<td>0</td>
<td>21°C</td>
<td>21°C</td>
</tr>
<tr>
<td>20</td>
<td>30°C</td>
<td>30°C</td>
</tr>
<tr>
<td>30</td>
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<tr>
<td>40</td>
<td>50°C</td>
<td>50°C</td>
</tr>
<tr>
<td>50</td>
<td>60°C</td>
<td>60°C</td>
</tr>
</tbody>
</table>

**Heat Pump type**

<table>
<thead>
<tr>
<th>°C</th>
<th>50% to 150%</th>
<th>50% to 130%</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>-10°C</td>
<td>-10°C</td>
</tr>
<tr>
<td>-10</td>
<td>-5°C</td>
<td>-5°C</td>
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<td>50°C</td>
</tr>
<tr>
<td>50</td>
<td>60°C</td>
<td>60°C</td>
</tr>
</tbody>
</table>

**TM**
AIRSTAGE TM J-IIIL series (14/16/18HP)
AIRSTAGE TM V-III tropical series
EASY INSTALLATION

Easily transported
Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used

Transporting by forklift
Transport with forklift is possible.

Can be transported in a small elevator

Easy access
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.

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

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, RB unit and signal amplifier can be set through the automatic function setting on the outdoor unit PCB.

Easy commissioning by Service Tool
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 SERVICE & MAINTENANCE

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.

Movable PCB panel: Easier for maintenance work behind the PCB.

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

Error status can be checked easily by outdoor unit display.

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 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.

Monitoring Side

VRF Network System Side

Internet or Public Telephone Line

Service Tool

UTY-ASGXZ1

Software

USB adapter (Locally purchased)

Outdoor unit

Transmission line

Indoor unit

USB adaptor

Touch panel

Error status / Error history

Error code

Abnormal indoor unit address

System number

Error code

Unit number

Remote controller address

Remote controller

Error code

Simple Remote Controller

Error code

Remote operation confirmation

Indoor unit

USB adaptor

Locally purchased

Web Monitoring Tool

Monitoring Side

VRF Network System Side

Indoor unit

USB adaptor

Locally purchased

Web Monitoring Tool
The AIRSTAGE™ 6 Series has a total of 126 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™ J-IIIL Series
HEAT PUMP TYPE AIRSTAGE™ J-III Series
HEAT PUMP TYPE AIRSTAGE™ J-IIS Series
HEAT RECOVERY TYPE AIRSTAGE™ VR-II Series
HEAT PUMP TYPE AIRSTAGE™ V-III Series
HEAT PUMP TYPE AIRSTAGE™ V-III TROPICAL Series
Outdoor units range

<table>
<thead>
<tr>
<th>HP</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>22</th>
<th>26</th>
<th>28</th>
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<th>46</th>
<th>50</th>
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<th>54</th>
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</thead>
<tbody>
<tr>
<td>kW class</td>
<td>12.1</td>
<td>14.0</td>
<td>15.5</td>
<td>22.4</td>
<td>28.0</td>
<td>33.5</td>
<td>50.4</td>
<td>55.9</td>
<td>61.5</td>
<td>67.0</td>
<td>73.5</td>
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<td>118.5</td>
<td>123.5</td>
<td>130.0</td>
<td>135.0</td>
<td>139.0</td>
</tr>
</tbody>
</table>

**AIRSTAGE™ Series**

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

**AIRSTAGE™ LINE-UP**

<table>
<thead>
<tr>
<th>AIRSTAGE™ series</th>
<th>Heat Pump</th>
<th>Heat Recovery</th>
<th>Heat Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRSTAGE™ III</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIRSTAGE™ IV</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AIRSTAGE™ V</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Efficiency**

- High efficiency
- Saving space

**Power availability**

- 3 phase
- Single phase
HEAT PUMP TYPE

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

System Outline

Compact Outdoor unit
The compact and low sound level enable the units to be installed in various environments with restriction and/or limited spaces such as mechanical rooms and rooftops.

Small room application
Up to 50 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

Quiet design
Top class low sound operation has been achieved. This allows installation of the units in various places without a special sound prevention work.

System configuration example
- This system is used for small- and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.

Advanced high efficiency technology

Large propeller fan
The high efficiency and the low sound operation are mutually realized by reduction of a draft loss which are enabled by the Fujitsu General’s original blade design and a large diameter propeller fan.

DC fan motor
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

Large heat exchanger
Heat exchange performance is substantially improved by mounting of 2.6-row large heat exchanger.

DC inverter control
Efficiency is improved by mounting of new active filter module.

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

Scroll compressor
The equipment of scroll compressor with a wide range of rotational frequency from 15 to 120 rps together with Fujitsu General’s unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the low sound operation.

Features

Efficiency in actual operation
Top class high EER/COP (Max. Heating) is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

<table>
<thead>
<tr>
<th>HP</th>
<th>8HP</th>
<th>10HP</th>
<th>12HP</th>
<th>14HP</th>
<th>16HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>EER</td>
<td>4.36</td>
<td>3.26</td>
<td>3.00</td>
<td>2.76</td>
<td>2.50</td>
</tr>
<tr>
<td>COP (Max. Heating)</td>
<td>3.16</td>
<td>3.01</td>
<td>2.82</td>
<td>2.66</td>
<td>2.48</td>
</tr>
</tbody>
</table>

Efficiency in actual operation
Top class high EER/COP (Max. Heating) is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.
Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

**Features**

- **Low noise in consideration for the nearby residents**
- **Flexible installation**
- **Space saving**
- **Narrow space behind building**
- **Installation at back street of building**

**Slim & Compact Design**

- **Height difference**
  - Current model: -262 mm
  - Compared with current 18 HP model

- **Depth difference**
  - Current model: -285 mm
  - Compared with current 18 HP model

- **Installation space**
  - Current model: -45%
  - Compared with current 18 HP model

- **Weight**
  - Current model: -58 kg
  - Compared with current 18 HP model

**Various Installation**

- **In house installation**
  - *Low noise in consideration for the nearby residents*
  - This model is front blow type and about 1000 mm wide, so flexible installation is possible even at narrow in-house space.

- **Narrow space behind building**
  - *Space saving*
  - Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.

- **Installation at back street of building**
  - *Flexible installation*
  - This model is front blow type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.
Features

Long piping capability
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.

Up to 42 units* can be connected
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry’s top class connection of 42 units.*

High Static Pressure
External static pressure is available up to 60Pa for 14/16/18HP.

Top Class Low Operating Sound
Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Nominal Cooling capacity</th>
<th>Nominal Heating capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJY072LELAH</td>
<td>22.4 kW</td>
<td>22.4 kW</td>
</tr>
<tr>
<td>AJY090LELAH</td>
<td>28.0 kW</td>
<td>28.0 kW</td>
</tr>
<tr>
<td>AJY108LELAH</td>
<td>33.5 kW</td>
<td>33.5 kW</td>
</tr>
<tr>
<td>AJY126LELAH</td>
<td>40.0 kW</td>
<td>40.0 kW</td>
</tr>
<tr>
<td>AJY144LELAH</td>
<td>45.0 kW</td>
<td>45.0 kW</td>
</tr>
<tr>
<td>AJY162LELAH</td>
<td>50.0 kW</td>
<td>50.0 kW</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.

* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

Dimensions

<table>
<thead>
<tr>
<th>Model name</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJY072LELAH</td>
<td>1,428 mm</td>
<td>1,080 mm</td>
<td>480 mm</td>
<td>170 kg</td>
</tr>
<tr>
<td>AJY090LELAH</td>
<td>1,428 mm</td>
<td>1,080 mm</td>
<td>480 mm</td>
<td>177 kg</td>
</tr>
<tr>
<td>AJY108LELAH</td>
<td>1,428 mm</td>
<td>1,080 mm</td>
<td>480 mm</td>
<td>178 kg</td>
</tr>
<tr>
<td>AJY126LELAH</td>
<td>1,638 mm</td>
<td>1,080 mm</td>
<td>480 mm</td>
<td>213 kg</td>
</tr>
<tr>
<td>AJY144LELAH</td>
<td>1,638 mm</td>
<td>1,080 mm</td>
<td>480 mm</td>
<td>213 kg</td>
</tr>
<tr>
<td>AJY162LELAH</td>
<td>1,638 mm</td>
<td>1,080 mm</td>
<td>480 mm</td>
<td>217 kg</td>
</tr>
</tbody>
</table>

Refrigerant
Type (Global Warming Potential): R410A (2,088)
Charge kg (CO2eq-T): 7.0 (14.6) for 8HP, 7.5 (15.7) for 10/12HP, 11.0 (22.9) for 14/16/18HP

Connection pipe
Liquid diameter: 9.52 mm for 8HP, 9.52 mm for 10/12HP, 12.70 mm for 14/16/18HP
Gas diameter: 19.05 mm for 8HP, 22.20 mm for 10/12HP, 28.58 mm for 14/16/18HP

Total pipe length: 400 m max.

Up to 42 units* can be connected
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry’s top class connection of 42 units.*

*: 18HP model

High Static Pressure
External static pressure is available up to 60Pa for 14/16/18HP.

Top Class Low Operating Sound
Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.
Features

High Energy Efficiency
Fujitsu General’s inverter control is used to achieve 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 allows flexible installations on the roofs or balconies of small- and medium-size buildings.
Multiple indoor units of various capacities and types can be connected.

System Outline

Efficiency in actual operation
Top class high COP (Max. Heating) is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

High EER / COP (Max. Heating)

<table>
<thead>
<tr>
<th>Compressor size</th>
<th>EER (Single phase)</th>
<th>COP (Max. Heating)</th>
<th>EER (3-phase)</th>
<th>COP (Max. Heating)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4HP</td>
<td>5.01</td>
<td>4.33</td>
<td>5.47</td>
<td>4.70</td>
</tr>
<tr>
<td>5HP</td>
<td>4.95</td>
<td>4.28</td>
<td>5.32</td>
<td>4.65</td>
</tr>
<tr>
<td>6HP</td>
<td>4.88</td>
<td>4.21</td>
<td>5.25</td>
<td>4.51</td>
</tr>
</tbody>
</table>

Compressor characteristics

- High efficiency compression motor
- Optimized refrigerant flow design
- Highly accurate parts

Large propeller fan
High performance and low noise realized by large propeller and optimization of angle.

DC fan motor
Miniaturized, low noise, high efficiency; multi-stage DC fan motor is mounted.

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 subcool tube heat exchanger.

DC inverter control
Efficiency is improved by mounting of new active filter module.

Advanced high efficiency technology
Specifications

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.

Piping length (total refrigerant piping length) = 180m max.

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.

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.
Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

**Features**

**HEAT PUMP TYPE AIRSTAGE J-IIS series**

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

**Space saving and low sound level design**

Economical, individual air conditioning is realized by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

**Flexible systems for homes, shops, small-size buildings air conditioning**

Due to compact size design and flexible piping design, J-IIS series can be installed easily at the place where the installation space is limited such as homes, shops, and small offices. Multiple indoor units of various capacities and types can be combined.

**Features**

- **It Can be Easily Carried and Installed Obscure Place**
  - Current model / 6HP class
    - Height: 1334 mm
    - Weight: 117 kg
  - Model / 5HP class
    - Weight difference: 998 mm
    - Light weight: 87 kg

- **Low sound level design**
  - Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.

- **Advanced high efficiency technology**
  - **Large propeller fan**
    - High performance and low noise realized by large propeller and optimization of angle.
  - **DC fan motor**
    - Motorized, low noise, high efficiency, multi-stage DC fan motor is mounted.
  - **Smooth airflow grille**
    - This grille was aerodynamically designed for good efficiency with little blow loss.
  - **Large heat exchanger**
    - Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.
  - **High heat transfer copper tube (Improved lead angle)**
  - **Compact and high performance DC twin rotary compressor**
    - Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.
  - **DC inverter control**
    - Efficiency is improved by mounting of new active filter module.
  - **Low noise rubber**
  - **Highly accurate parts**
  - **Heat exchange performance**

**System Outline**

- **System configuration example**

**Large Homes**

- **Large propeller fan**
  - High performance and low noise realized by large propeller and optimization of angle.
- **DC fan motor**
  - Motorized, low noise, high efficiency, multi-stage DC fan motor is mounted.
- **Smooth airflow grille**
  - This grille was aerodynamically designed for good efficiency with little blow loss.
- **Large heat exchanger**
  - Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.
- **High heat transfer copper tube (Improved lead angle)**
- **Compact and high performance DC twin rotary compressor**
  - Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.
- **DC inverter control**
  - Efficiency is improved by mounting of new active filter module.
- **Low noise rubber**
- **Highly accurate parts**
- **Heat exchange performance**

**Large propeller fan**

High performance and low noise realized by large propeller and optimization of angle.

**DC fan motor**

Motorized, low noise, high efficiency, multi-stage DC fan motor is mounted.

**Smooth airflow grille**

This grille was aerodynamically designed for good efficiency with little blow loss.

**Large heat exchanger**

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

**High heat transfer copper tube (Improved lead angle)**

**Compact and high performance DC twin rotary compressor**

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

**DC inverter control**

Efficiency is improved by mounting of new active filter module.

**Low noise rubber**

**Highly accurate parts**

**Heat exchange performance**
Specifications

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.
The protective function may work when using it outside the operation range.

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>AJY040LCLAH</th>
<th>AJY045LCLAH</th>
<th>AJY054LCLAH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>998 mm</td>
<td>998 mm</td>
<td>998 mm</td>
</tr>
<tr>
<td>Width</td>
<td>970 mm</td>
<td>970 mm</td>
<td>970 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>370 mm</td>
<td>370 mm</td>
<td>370 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>86 kg</td>
<td>86 kg</td>
<td>87 kg</td>
</tr>
<tr>
<td>Refrigerant Type</td>
<td>R410A</td>
<td>R410A</td>
<td>R410A</td>
</tr>
<tr>
<td>Charge (kg CO2eq-T)</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Connection pipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter (Liquid)</td>
<td>9.52 mm</td>
<td>9.52 mm</td>
<td>9.52 mm</td>
</tr>
<tr>
<td>Diameter (Gas)</td>
<td>15.88 mm</td>
<td>15.88 mm</td>
<td>15.88 mm</td>
</tr>
<tr>
<td>Total pipe length</td>
<td>80 m</td>
<td>80 m</td>
<td>80 m</td>
</tr>
<tr>
<td>Max. Height difference</td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
</tr>
</tbody>
</table>

The operation range:

- Cooling: -5° to 46°C
- Heating: -20° to 21°C

Models: AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

Features

Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. 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.

---

Table:

<table>
<thead>
<tr>
<th>Capacity range (HP)</th>
<th>AJY040LCLAH</th>
<th>AJY045LCLAH</th>
<th>AJY054LCLAH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>12.0</td>
<td>14.0</td>
<td>15.1</td>
</tr>
<tr>
<td>Heating</td>
<td>12.1</td>
<td>14.0</td>
<td>15.1</td>
</tr>
<tr>
<td>Input power</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>3.44</td>
<td>4.43</td>
<td>5.03</td>
</tr>
<tr>
<td>Heating</td>
<td>2.51</td>
<td>3.17</td>
<td>3.61</td>
</tr>
<tr>
<td>EER</td>
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<td></td>
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</tr>
<tr>
<td>Cooling</td>
<td>3.52</td>
<td>3.16</td>
<td>3.00</td>
</tr>
<tr>
<td>Heating</td>
<td>4.83</td>
<td>4.51</td>
<td>4.30</td>
</tr>
<tr>
<td>Air flow rate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>4,040 m³/h</td>
<td>4,200 m³/h</td>
<td>4,200 m³/h</td>
</tr>
<tr>
<td>Heating</td>
<td>54 / 67 dB(A)</td>
<td>55 / 69 dB(A)</td>
<td>56 / 70 dB(A)</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>998 mm</td>
<td>998 mm</td>
<td>998 mm</td>
</tr>
<tr>
<td>Width</td>
<td>970 mm</td>
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<td>Refrigerant Type</td>
<td>R410A</td>
<td>R410A</td>
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</tr>
<tr>
<td>Charge (kg CO2eq-T)</td>
<td>4.0</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Connection pipe</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter (Liquid)</td>
<td>9.52 mm</td>
<td>9.52 mm</td>
<td>9.52 mm</td>
</tr>
<tr>
<td>Diameter (Gas)</td>
<td>15.88 mm</td>
<td>15.88 mm</td>
<td>15.88 mm</td>
</tr>
<tr>
<td>Total pipe length</td>
<td>80 m</td>
<td>80 m</td>
<td>80 m</td>
</tr>
<tr>
<td>Max. Height difference</td>
<td>30 m</td>
<td>30 m</td>
<td>30 m</td>
</tr>
</tbody>
</table>

The operation range:

- Cooling: -5 to 46°C
- Heating: -20 to 21°C

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.

Actual piping length: 50 m max.

Height difference between outdoor and indoor units: 30 m max.

Height difference between indoor and indoor units: 15 m max.

Total pipe length: 80 m max.
**Features**

**HEAT RECOVERY TYPE**

**AIRSTAGE VR-II series**

Smart and cutting edge design  
Extensive lineup from 8HP to 48HP in 2HP increment  
Connectable indoor unit capacity ratio up to 150%

**System Outline**

Simultaneous cooling and heating operation using 1 refrigerant system  
Cooling and heating can be freely selected for each indoor unit to provide simultaneous cooling and heating in rooms with large temperature differences.

Annual cooling operation  
The annual cooling operation for the rooms and other spaces that require constant temperature control throughout the year.

Handles changes in the temperature difference  
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

**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.  
*1. CFD = Computational Fluid Dynamics

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

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

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

**High efficient compressor**  
Large capacity DC inverter compressor  
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

**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  
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.
Features

All inverter compressor

- Large capacity DC inverter compressor
- Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.

High efficient compressor speed control

Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.

Flexible piping connection

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.

Multiple outdoor operation control

When multiple outdoor units are connected a sophisticated operation is performed by each compressor. Rather than running one compressor at full load and distributing refrigerant to one heat exchanger, this control method operates all compressors at part load and distributes refrigerant to all of the heat exchangers which allows for the overall system efficiency to be improved.

Heat exchanger refrigerant control

The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.

Flexible installation of RB unit

- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions

Easy to maintenance in a narrow space

- Maintenance can be performed from the side.
- Electric box can be temporarily fixed by sliding down.
- Parts can be replaced easily even at narrow space in the ceiling.
Outdoor units lineup

* Combinations other than the followings are not recommended.

### Space saving combinations

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Model</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2kW (1HP)</td>
<td>AY144GALH</td>
<td>1,440</td>
<td>2,600</td>
<td>800</td>
</tr>
<tr>
<td>2.8kW (1.5HP)</td>
<td>AY170GALH</td>
<td>1,700</td>
<td>2,800</td>
<td>800</td>
</tr>
<tr>
<td>3.5kW (2.0HP)</td>
<td>AY198GALH</td>
<td>1,980</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>4.0kW (2.5HP)</td>
<td>AY226GALH</td>
<td>2,260</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>4.5kW (3.0HP)</td>
<td>AY244GALH</td>
<td>2,440</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>5.0kW (3.5HP)</td>
<td>AY316GALH</td>
<td>3,160</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>6.0kW (4.0HP)</td>
<td>AY378GALH</td>
<td>3,780</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>7.0kW (4.5HP)</td>
<td>AY432GALH</td>
<td>4,320</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>8.0kW (5.0HP)</td>
<td>AY504GALH</td>
<td>5,040</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>9.0kW (5.5HP)</td>
<td>AY566GALH</td>
<td>5,660</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>10.0kW (6.0HP)</td>
<td>AY628GALH</td>
<td>6,280</td>
<td>2,900</td>
<td>800</td>
</tr>
</tbody>
</table>

### Energy efficiency combinations

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Model</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.4kW (1.5HP)</td>
<td>AY170GALH</td>
<td>1,700</td>
<td>2,600</td>
<td>800</td>
</tr>
<tr>
<td>5.0kW (2.0HP)</td>
<td>AY200GALH</td>
<td>2,000</td>
<td>2,600</td>
<td>800</td>
</tr>
<tr>
<td>5.5kW (2.5HP)</td>
<td>AY226GALH</td>
<td>2,260</td>
<td>2,600</td>
<td>800</td>
</tr>
<tr>
<td>6.5kW (3.0HP)</td>
<td>AY270GALH</td>
<td>2,700</td>
<td>2,600</td>
<td>800</td>
</tr>
<tr>
<td>7.5kW (3.5HP)</td>
<td>AY315GALH</td>
<td>3,150</td>
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<tr>
<td>8.5kW (4.0HP)</td>
<td>AY378GALH</td>
<td>3,780</td>
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<td>800</td>
</tr>
<tr>
<td>9.5kW (4.5HP)</td>
<td>AY432GALH</td>
<td>4,320</td>
<td>2,600</td>
<td>800</td>
</tr>
<tr>
<td>10.5kW (5.0HP)</td>
<td>AY486GALH</td>
<td>4,860</td>
<td>2,600</td>
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</table>

### Dimensions

#### 8,10,12HP

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Model</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
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</thead>
<tbody>
<tr>
<td>8.0kW (2.8HP)</td>
<td>AY198GALH</td>
<td>1,980</td>
<td>2,900</td>
<td>800</td>
</tr>
<tr>
<td>10.0kW (3.5HP)</td>
<td>AY226GALH</td>
<td>2,260</td>
<td>2,900</td>
<td>800</td>
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<tr>
<td>12.0kW (4.0HP)</td>
<td>AY264GALH</td>
<td>2,640</td>
<td>2,900</td>
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</table>

#### 14,16HP

<table>
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<tr>
<th>Capacity</th>
<th>Model</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
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</thead>
<tbody>
<tr>
<td>14.0kW (4.5HP)</td>
<td>AY378GALH</td>
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<td>800</td>
</tr>
<tr>
<td>16.0kW (5.0HP)</td>
<td>AY432GALH</td>
<td>4,320</td>
<td>2,900</td>
<td>800</td>
</tr>
</tbody>
</table>

---

**Front side knockout position**
- Power supply cable port
- Transmission cable port
- Pipe port

**Left side knockout position**
- Power supply cable port
- Transmission cable port

**Bottom side knockout position**
- Power supply cable port
- Transmission cable port
- Pipe port

**Top view**
- Pipe port

---

**Bolt pitch**
- 80 (width pitch)
- 732 (length pitch)
### Space Saving Combinations

<table>
<thead>
<tr>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Cooling Capacity</strong></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Cooling</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.70</td>
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<tr>
<td>5.45</td>
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<tr>
<td>9.20</td>
<td>9.20</td>
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<tr>
<td>9.95</td>
<td>9.95</td>
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</table>

### Energy Efficiency Combinations

<table>
<thead>
<tr>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Heating Capacity</strong></td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Heating</td>
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</tr>
<tr>
<td>5.70</td>
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<td>6.30</td>
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<td>8.70</td>
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</tr>
<tr>
<td>9.30</td>
<td>9.30</td>
<td>9.30</td>
<td>9.30</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

**Cooling**: Indoor temperature of 27°C/27°C, and outdoor temperature of 35°C/27°C.

**Heating**: Indoor temperature of 20°C/19°C, and outdoor temperature of 7°C/7°C.

Pipe length: 15 m. Height difference between outdoor unit and indoor unit: 0 m.

1: Minimum connected indoor unit number is 2.
2: The noise value is the value when measured in an anechoic room. Where measured by the actual installed unit, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.
HEAT PUMP TYPE
AIRSTAGE V-III series

Smart and cutting edge design
Extensive lineup from 8HP to 54HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%

Features

Excellent energy saving
Heat pump inverter type realizes the highly energy saving air conditioning for individual cooling and heating operation by all inverter technology for seasonal efficiency.

High design flexibility for various building air conditioning
High design flexibility meets the various needs of high rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

Easy installation and maintenance
The flexible communication method and piping connections makes installation and maintenance easy even for large systems.

System Outline

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 driver control. In addition, low noise is realized by DC fan motor.
- Subcool heat exchanger
  - High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.
- Sine-wave DC inverter control
  - High efficiency is realized by adoption of reduced switching loss IPM.
- High efficient & Large capacity
  - ALL DC inverter compressor
  - Large capacity high efficient DC twin compressor with 0.1Hz steps compressor speed control
- 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)

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.
Outdoor units lineup

Space saving Combinations

<table>
<thead>
<tr>
<th>2.2 kW (6HP)</th>
<th>2.8 kW (8HP)</th>
<th>3.5 kW (12HP)</th>
<th>4.0 kW (14HP)</th>
<th>4.5 kW (16HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY072LALBH</td>
<td>AY090/090LALBH</td>
<td>AY108/090LALBH</td>
<td>AY126/090LALBH</td>
<td>AY144/090LALBH</td>
</tr>
<tr>
<td>50.0 kW (18HP)</td>
<td>56.0 kW (20HP)</td>
<td>62.0 kW (22HP)</td>
<td>68.0 kW (24HP)</td>
<td>73.0 kW (26HP)</td>
</tr>
<tr>
<td>AY162LALBH</td>
<td>AY180LALBH</td>
<td>AY198LALBH</td>
<td>AY216LALBH</td>
<td>AY234LALBH</td>
</tr>
</tbody>
</table>

Energy efficiency Combinations

<table>
<thead>
<tr>
<th>4.4 kW (16HP)</th>
<th>5.5 kW (20HP)</th>
<th>6.7 kW (24HP)</th>
<th>7.2 kW (26HP)</th>
<th>7.2 kW (26HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY144LALBH</td>
<td>AY162LALBH</td>
<td>AY162LALBH</td>
<td>AY180LALBH</td>
<td>AY180LALBH</td>
</tr>
<tr>
<td>28.3 kW (16HP)</td>
<td>30.8 kW (20HP)</td>
<td>35.9 kW (24HP)</td>
<td>42.3 kW (24HP)</td>
<td>72.0 kW (26HP)</td>
</tr>
<tr>
<td>AY234LALBH</td>
<td>AY252LALBH</td>
<td>AY270LALBH</td>
<td>AY288LALBH</td>
<td>AY288LALBH</td>
</tr>
<tr>
<td>107.0 kW (38HP)</td>
<td>113.5 kW (40HP)</td>
<td>153.0 kW (42HP)</td>
<td>169.0 kW (44HP)</td>
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</tr>
<tr>
<td>AY342LALBH</td>
<td>AY360LALBH</td>
<td>AY378LALBH</td>
<td>AY396LALBH</td>
<td>AY414LALBH</td>
</tr>
</tbody>
</table>

Dimensions

8.0 HP : AY072LALBH / AY090LALBH

<table>
<thead>
<tr>
<th>8.0 HP</th>
<th>10.0 HP</th>
<th>12.0 HP</th>
<th>14.0 HP</th>
<th>16.0 HP</th>
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<tbody>
<tr>
<td>AY072LALBH</td>
<td>AY090LALBH</td>
<td>AY108LALBH</td>
<td>AY126LALBH</td>
<td>AY144LALBH</td>
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</table>

Energy efficiency Combinations

<table>
<thead>
<tr>
<th>4.4 kW (16HP)</th>
<th>5.5 kW (20HP)</th>
<th>6.7 kW (24HP)</th>
<th>7.2 kW (26HP)</th>
<th>7.2 kW (26HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY144LALBH</td>
<td>AY162LALBH</td>
<td>AY162LALBH</td>
<td>AY180LALBH</td>
<td>AY180LALBH</td>
</tr>
<tr>
<td>28.3 kW (16HP)</td>
<td>30.8 kW (20HP)</td>
<td>35.9 kW (24HP)</td>
<td>42.3 kW (24HP)</td>
<td>72.0 kW (26HP)</td>
</tr>
<tr>
<td>AY234LALBH</td>
<td>AY252LALBH</td>
<td>AY270LALBH</td>
<td>AY288LALBH</td>
<td>AY288LALBH</td>
</tr>
<tr>
<td>107.0 kW (38HP)</td>
<td>113.5 kW (40HP)</td>
<td>153.0 kW (42HP)</td>
<td>169.0 kW (44HP)</td>
<td></td>
</tr>
<tr>
<td>AY342LALBH</td>
<td>AY360LALBH</td>
<td>AY378LALBH</td>
<td>AY396LALBH</td>
<td>AY414LALBH</td>
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Capacity Combinations

<table>
<thead>
<tr>
<th>2.2 kW</th>
<th>2.8 kW</th>
<th>3.5 kW</th>
<th>4.0 kW</th>
<th>4.5 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY072LALBH</td>
<td>AY090LALBH</td>
<td>AY108LALBH</td>
<td>AY126LALBH</td>
<td>AY144LALBH</td>
</tr>
<tr>
<td>50.0 kW</td>
<td>56.0 kW</td>
<td>62.0 kW</td>
<td>68.0 kW</td>
<td>73.0 kW</td>
</tr>
<tr>
<td>AY162LALBH</td>
<td>AY180LALBH</td>
<td>AY198LALBH</td>
<td>AY216LALBH</td>
<td>AY234LALBH</td>
</tr>
<tr>
<td>8.0 HP</td>
<td>10.0 HP</td>
<td>12.0 HP</td>
<td>14.0 HP</td>
<td>16.0 HP</td>
</tr>
<tr>
<td>AY072LALBH</td>
<td>AY090LALBH</td>
<td>AY108LALBH</td>
<td>AY126LALBH</td>
<td>AY144LALBH</td>
</tr>
</tbody>
</table>
### Outdoor units specifications

**Power source**
- 3-phase 4 wire, 400 V, 50Hz

**Cooling COP**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Model name</th>
<th>22.4-67.2</th>
<th>25.2-75.6</th>
<th>28.0-83.8</th>
<th>33.6-100.8</th>
<th>36.4-109.2</th>
<th>39.2-117.4</th>
<th>42.4-127.2</th>
<th>44.7-134.1</th>
<th>48.0-143.8</th>
<th>50.3-150.7</th>
<th>53.5-160.5</th>
<th>56.8-170.2</th>
<th>60.0-180.0</th>
<th>62.5-187.5</th>
<th>65.0-195.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>AJY072LALBH</td>
<td>AJY090LALBH</td>
<td>AJY108LALBH</td>
<td>AJY126LALBH</td>
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<td>AJY180LALBH</td>
<td>AJY198LALBH</td>
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<td>AJY252LALBH</td>
<td>AJY270LALBH</td>
<td>AJY288LALBH</td>
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<td>AJY324LALBH</td>
<td>AJY342LALBH</td>
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**Space Saving combinations**

<table>
<thead>
<tr>
<th>Air flow rate</th>
<th>High</th>
<th>Medium</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 1</td>
<td>11,100</td>
<td>11,100</td>
<td>11,100</td>
</tr>
<tr>
<td>Unit 2</td>
<td>13,000</td>
<td>13,000</td>
<td>13,000</td>
</tr>
<tr>
<td>Unit 3</td>
<td>13,700</td>
<td>13,700</td>
<td>13,700</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.

---

### Energy Efficiency combinations

**Cooling EER**

| Capacity | Model name | 22.4-67.2 | 25.2-75.6 | 28.0-83.8 | 33.6-100.8 | 36.4-109.2 | 39.2-117.4 | 42.4-127.2 | 44.7-134.1 | 48.0-143.8 | 50.3-150.7 | 53.5-160.7 | 56.8-170.2 | 60.0-180.0 | 62.5-187.5 | 65.0-195.0 |
|----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| kW       | AJY072LALBH| AJY090LALBH| AJY108LALBH| AJY126LALBH| AJY144LALBH| AJY162LALBH| AJY180LALBH| AJY198LALBH| AJY216LALBH| AJY234LALBH| AJY252LALBH| AJY270LALBH| AJY288LALBH| AJY306LALBH| AJY324LALBH| AJY342LALBH| AJY360LALBH| AJY378LALBH| AJY408LALBH| AJY426LALBH| AJY444LALBH| AJY462LALBH| AJY480LALBH|

**Heating**

- Liquid: 5.20
- Gas: 3.58
- Electric: 3.65

**Depth**

- 765 mm

**Charging kg (CO₂eq-T)**

- 11.7×2 (24.4×2)
- 11.8+11.7×2

**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.

---

*When measured in the actual installed state, surrounding noise and reflections are calculated with the formula:*

\[ L_{A,N} = L_{A,N_{0}} + 20 \log \left( \frac{D}{D_{0}} \right) \]

*Where:*
- \( L_{A,N} \): Measured noise level
- \( L_{A,N_{0}} \): Reference noise level
- \( D \): Distance from the noise source
- \( D_{0} \): Reference distance (1 m)

*For example, if the noise level in an anechoic room is 73 dB (A), the calculated noise level in an actual environment (with a distance of 2 m) would be:*

\[ L_{A,N} = 73 + 20 \log \left( \frac{2}{1} \right) = 83 \text{ dB (A)} \]

---

*1*: Minimum connectable indoor unit number is 2.

*2*: Measured noise is the value when measured in an anechoic room.

When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.
Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8HP to 54HP in 2HP increment. Connectable indoor unit capacity ratio up to 130%. 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 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

Features

Efficiency in actual operation
Top class high COP (Max. Heating) 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 driver control. In addition, low noise is realized by DC fan motor.

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

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

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)

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.

Energy saving control
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 driver control. In addition, low noise is realized by DC fan motor.

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

Sine-wave DC inverter control
High efficiency is realized by adoption of reduced switching loss IPM.
Outdoor units lineup
*Combinations other than the followings are not recommended.

### Space saving combinations

<table>
<thead>
<tr>
<th>2.2 kW (1HP)</th>
<th>2.8 kW (1.5HP)</th>
<th>3.5 kW (2HP)</th>
<th>4.0 kW (2.5HP)</th>
<th>4.5 kW (3HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQY071LNLBH</td>
<td>AQY090LNLBH</td>
<td>AQY108LNLBH</td>
<td>AQY126LNLBH</td>
<td>AQY144LNLBH</td>
</tr>
<tr>
<td>UNIT: AQY071LNLBH</td>
<td>UNIT: AQY090LNLBH</td>
<td>UNIT: AQY108LNLBH</td>
<td>UNIT: AQY126LNLBH</td>
<td>UNIT: AQY144LNLBH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.0 kW (3.5HP)</th>
<th>6.0 kW (4HP)</th>
<th>8.0 kW (5HP)</th>
<th>10.0 kW (6.25HP)</th>
<th>12.0 kW (7.5HP)</th>
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</thead>
<tbody>
<tr>
<td>AQY152LNLBH</td>
<td>AQY180LNLBH</td>
<td>AQY216LNLBH</td>
<td>AQY244LNLBH</td>
<td>AQY280LNLBH</td>
</tr>
<tr>
<td>UNIT: AQY152LNLBH</td>
<td>UNIT: AQY180LNLBH</td>
<td>UNIT: AQY216LNLBH</td>
<td>UNIT: AQY244LNLBH</td>
<td>UNIT: AQY280LNLBH</td>
</tr>
</tbody>
</table>

### Energy efficiency combinations

<table>
<thead>
<tr>
<th>22.4kW (8HP)</th>
<th>28.0kW (10HP)</th>
<th>33.5kW (12HP)</th>
<th>40.0kW (14HP)</th>
<th>45.0kW (16HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJY072LNLBH</td>
<td>AJY090LNLBH</td>
<td>AJY108LNLBH</td>
<td>AJY126LNLBH</td>
<td>AJY144LNLBH</td>
</tr>
<tr>
<td>UNIT: AJY072LNLBH</td>
<td>UNIT: AJY090LNLBH</td>
<td>UNIT: AJY108LNLBH</td>
<td>UNIT: AJY126LNLBH</td>
<td>UNIT: AJY144LNLBH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>50.0 kW (18HP)</th>
<th>56.0kW (20HP)</th>
<th>62.4 kW (22HP)</th>
<th>68.0 kW (24HP)</th>
<th>73.0 kW (26HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJY162LNLBH</td>
<td>AJY180LNLBH</td>
<td>AJY198LNLBH</td>
<td>AJY216LNLBH</td>
<td>AJY234LNLBH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>78.0 kW (28HP)</th>
<th>85.0 kW (30HP)</th>
<th>91.5 kW (32HP)</th>
<th>98.0 kW (34HP)</th>
<th>104.0 kW (36HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJY252LNLBH</td>
<td>AJY270LNLBH</td>
<td>AJY288LNLBH</td>
<td>AJY306LNLBH</td>
<td>AJY324LNLBH</td>
</tr>
</tbody>
</table>

### Energy efficiency combinations

<table>
<thead>
<tr>
<th>44.8 kW (16HP)</th>
<th>50.4kW (18HP)</th>
<th>55.9 kW (20HP)</th>
<th>67.2 kW (24HP)</th>
<th>72.8 kW (26HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQY144LNLBH</td>
<td>AQY162LNLBH</td>
<td>AQY180LNLBH</td>
<td>AQY216LNLBH</td>
<td>AQY234LNLBH</td>
</tr>
<tr>
<td>UNIT: AQY144LNLBH</td>
<td>UNIT: AQY162LNLBH</td>
<td>UNIT: AQY180LNLBH</td>
<td>UNIT: AQY216LNLBH</td>
<td>UNIT: AQY234LNLBH</td>
</tr>
</tbody>
</table>

### Dimensions

8.0HP : AQY071LNLBH / AQY090LNLBH

12,14,16,18HP : AQY108LNLBH / AQY126LNLBH / AQY144LNLBH / AQY162LNLBH
## Outdoor units specifications

### Air flow rate (m³/h)
- Unit 1: 11,100×2, 11,100×3, 13,000+

### Unit 1
- **Model name:**
- **Rating Capacity range:**
  - HP
  - Maximum Connectable Indoor Unit: 26, 29, 33, 39, 43, 46, 50, 52, 55
- **Sound pressure level:**
  - Cooling: 3.00, 2.74, 3.05, 2.99, 2.97, 2.85, 2.74, 2.99, 2.87, 2.87, 2.80, 2.98, 2.97, 2.91, 2.85
- **Nominal Heating Capacity:**
  - 22.4, 28.0, 33.5, 40.0, 45.0
- **Discharge Gas Capacity:**
  - 22.22, 28.58, 28.58, 28.58, 28.58, 28.58, 34.92, 34.92, 34.92, 34.92, 34.92
- **Cooling Btu/h:**
  - 152,800, 171,900, 190,700, 229,200, 248,300, 267,100, 289,300, 305,000, 327,200, 342,900
- **Height:**
  - 765
- **Depth:**
  - 930, 1,240
- **Width:**
  - 1,240

### Energy Efficiency Combinations
- **Capacity:**
- **EER:**
  - Cooling: 3.00, 2.74, 3.05, 2.99, 2.97, 2.85, 2.74, 2.99, 2.87, 2.87, 2.80, 2.98, 2.97, 2.91, 2.85
- **COP:**
  - Heating: 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20, 5.20

### 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.
14 types and 90 models available to meet the requirements of any building design.

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**

- 3D Flow Cassette
- Compact Cassette (Grid type / Standard type)
- Circular Flow Cassette
- Mini Duct
- Slim Duct / Slim Concealed Floor
- Medium Static Pressure Duct
- High Static Pressure Duct
- Large Airflow Duct
- Compact Floor
- Floor / Ceiling
- Ceiling
- Wall Mounted (EEV Internal / external)
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.
14 types, 90 models, Capacity range from 1.1kW to 28.0kW

Indoor units range

<table>
<thead>
<tr>
<th>Model code</th>
<th>4</th>
<th>7</th>
<th>9</th>
<th>12</th>
<th>14</th>
<th>18</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>45</th>
<th>54</th>
<th>60</th>
<th>72</th>
<th>90</th>
<th>96</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity range (kW)</td>
<td>1.1</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>
</tr>
</tbody>
</table>

**Cassette**

- 3D Flow Cassette
- Compact Cassette
  - Grid type / Standard type
- (Sleek type)
- (Sleek type)

**Duct**

- Mini Duct
  - (With drain pump)
- Slim Duct
  - (With drain pump)
- Medium Static Pressure Duct
- High Static Pressure Duct
- Large Airflow Duct
  - (Compact type)
  - (Large type)

**Floor**

- Floor
  - (Same as Ceiling models)
- Slim Concealed Floor
  - (Same as Slim Duct models)
- Compact Floor
  - (EEV external)

**Ceiling**

- Wall Mounted
  - (EEV external)

**Notes**

1. ARXC60/072/090GTEH cannot be connected to J-IIS series and J-III series.
2. Large airflow type (Slim type) ARXC60/072/090GTEH type can be connected to VR-II / V-III series only.
3. ARXD04GALH cannot be connected to J-IIIL series.
4. AUXN009/012/014GLAH and ARXN009/012/014GLBH can be connected to J-IIS series and J-III series only.

Specifications and design are subject to change without notice.
**AIRSTAGE™ Indoor units**

**NEW 3D Flow Cassette**

**Models**
- AUXS018GLEH
- AUXS024GLEH

**Specifications**

- **Model name**: AUXS018GLEH, AUXS024GLEH
- **Power source**: Single-phase, ~230V, 50Hz
- **Capacity**
  - **Cooling** kW: 5.60, 7.10
  - **Heating** kW: 6.30, 8.00
- **Input power**: 20/28, 34/43 W
- **Airflow rate**
  - High: 750 / 870, 950 / 1040 m³/h
  - Med-H: 710 / 830, 890 / 990 m³/h
  - Med: 690 / 780, 860 / 930 m³/h
  - Med-L: 660 / 740, 810 / 880 m³/h
  - Low: 630 / 700, 770 / 840 m³/h
  - Quiet: 540 / 540, 540 / 540 m³/h
- **Sound pressure level**: 38 / 41, 43 / 46 dB (A)
- **Dimensions** (H × W × D) mm: 200 × 1,240 × 500
- **Weight**: 25 (55) kg
- **Connection pipe diameter**
  - **Liquid (Flare)**: 6.35, 9.52 mm
  - **Gas (Flare)**: 12.70, 15.88 mm
- **Drain hose diameter (I.D./O.D.)**: 25 / 32 mm

**Optional parts**
- **Wireless LAN Interface**: UTY-TFSXZ1
- **IR Receiver Unit**: UTY-TRHX
- **Cassette Grille**: UTG-USYA-W
- **External Power Supply Unit**: UTZ-GXXA

**Feature**

**3 Air Outlet Ports can be controlled individually**

Using the “Comfortable airflow setting” function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

**Temperature distribution during cooling and heating (when set to comfortable airflow)**

- **Cooling**: When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to “Hi” in a 40m² environmental our test room for the AUXS024GLEH.
- **Heating**: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to “Hi” in a 40m² environmental our test room for the AUXS024GLEH.

**Individual airflow setting**

Equipped with an "Individual airflow setting" function that optimizes the airflow setting in accordance with the installation location.

**High Energy Saving**

The “New structural design” featuring large intake and smooth output reduces air blowing loss to achieve top class energy saving.

**Dimensions**

- **Height**: 200, 200 mm
- **Width**: 1,240, 1,240 mm
- **Depth**: 500, 500 mm

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

- Cooling: Indoor temperature of 27°C (1°C), and outdoor temperature of 35°C (1°C)
- Heating: Indoor temperature of 25°C (1°C), and outdoor temperature of 7°C (1°C)

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

*This value is “cooling operation / heating operation”.

---

**Optional parts**

- **Wired Remote Controller (Touch Panel)**: UTY-RNRYZ3 (Wired Remote Controller (Touch Panel) UTY-RNRYZ3 only)

---

**Expansion of air return port area**

*: 018 model

---

**Efficient air outlet port design**

- Low power consumption: 20 W*

---

**Wired Remote Controller (Touch Panel)**

- "Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

---

**Efficient and highly versatile air return port area**

- Low power consumption: 20 W*

---

**Optimum control of air return port area**

- Efficient use of air return port area

---

**View A**

---

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

- Cooling: Indoor temperature of 27°C (1°C), and outdoor temperature of 35°C (1°C)
- Heating: Indoor temperature of 25°C (1°C), and outdoor temperature of 7°C (1°C)

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

* This value is “cooling operation / heating operation”.

---

**Individual airflow setting**

Using the “Individual airflow setting” function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

---

**Wired Remote Controller (Touch Panel)**

- "Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

---

**Efficient air outlet port design**

- Low power consumption: 20 W*

---

**View A**

---

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

- Cooling: Indoor temperature of 27°C (1°C), and outdoor temperature of 35°C (1°C)
- Heating: Indoor temperature of 25°C (1°C), and outdoor temperature of 7°C (1°C)

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

* This value is “cooling operation / heating operation”.

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**Individual airflow setting**

Using the “Individual airflow setting” function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

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**Efficient air outlet port design**

- Low power consumption: 20 W*

---

**View A**

---

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

- Cooling: Indoor temperature of 27°C (1°C), and outdoor temperature of 35°C (1°C)
- Heating: Indoor temperature of 25°C (1°C), and outdoor temperature of 7°C (1°C)

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

* This value is “cooling operation / heating operation”.

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**Individual airflow setting**

Using the “Individual airflow setting” function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

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**Wired Remote Controller (Touch Panel)**

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**Efficient air outlet port design**

- Low power consumption: 20 W*

---

**View A**

---

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

- Cooling: Indoor temperature of 27°C (1°C), and outdoor temperature of 35°C (1°C)
- Heating: Indoor temperature of 25°C (1°C), and outdoor temperature of 7°C (1°C)

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

* This value is “cooling operation / heating operation”.

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**Individual airflow setting**

Using the “Individual airflow setting” function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

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**Wired Remote Controller (Touch Panel)**

- "Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

---

**Efficient air outlet port design**

- Low power consumption: 20 W*

---

**View A**

---

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

- Cooling: Indoor temperature of 27°C (1°C), and outdoor temperature of 35°C (1°C)
- Heating: Indoor temperature of 25°C (1°C), and outdoor temperature of 7°C (1°C)

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

* This value is “cooling operation / heating operation”.

---

**Individual airflow setting**

Using the “Individual airflow setting” function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

---

**Wired Remote Controller (Touch Panel)**

- "Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

---

**Efficient air outlet port design**

- Low power consumption: 20 W*
Compact Cassette (Grid type)

Models
AUXB004GLEH
AUXB007GLEH
AUXB009GLEH
AUXB012GLEH
AUXB014GLEH
AUXB018GLEH
AUXB024GLEH

AIRSTAGE™ Indoor units

Compact and stylish panel design
Compact and stylish panel design fits the grid type ceiling. It is a linear design suitable for grid shape of 620mm x 620mm grid ceiling.

Flexible installation
It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.

Easy maintenance
Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.

Flexible installation
The air inlet grill can be installed in various directions, so maintenance is easy.

High ceiling mode
The compact cassette can be installed up to a height of 3.0m (012/014/018/024).

Feature

Compact and stylish panel design
Flexible installation
Easy maintenance

Specifications

<table>
<thead>
<tr>
<th>Model code</th>
<th>AUXB004GLEH</th>
<th>AUXB007GLEH</th>
<th>AUXB009GLEH</th>
<th>AUXB012GLEH</th>
<th>AUXB014GLEH</th>
<th>AUXB018GLEH</th>
<th>AUXB024GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Single phase</td>
<td>1.1</td>
<td>2.2</td>
<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
</tr>
<tr>
<td>Power source</td>
<td>kW</td>
<td>0.9</td>
<td>1.9</td>
<td>2.2</td>
<td>2.6</td>
<td>3.0</td>
<td>3.5</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>m3/h</td>
<td>530/530</td>
<td>540/540</td>
<td>540/540</td>
<td>550/540</td>
<td>560/560</td>
<td>580/580</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>dB(A)</td>
<td>34/34</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td>38</td>
<td>41</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>mm</td>
<td>245 x 570 x 570</td>
<td>245 x 570 x 570</td>
<td>245 x 570 x 570</td>
<td>245 x 570 x 570</td>
<td>245 x 570 x 570</td>
<td>245 x 570 x 570</td>
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<tr>
<td>Weight</td>
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<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>17</td>
</tr>
</tbody>
</table>

Optional parts
Air Outlet Shutter Plate: UTR-PDZB
Flexible Air Intake Kit: UTZ-VXAA
Insulation Kit for High Humidity: UTZ-KXGC
Cassette Grille: UTG-UFYC-W, UTG-UFYE-W
External Power Supply Unit: UTZ-GXXA

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°C/19°C/16°C, and outdoor temperature of 35°C/26°C/17°C.
Heating: Indoor temperature of 20°C/12°C/4°C, and outdoor temperature of 7°C/13°C/4°C.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 V.
Circular Flow Cassette

Models (Small type)  
AUXM009GLEH  
AUXM012GLEH  
AUXM014GLEH  
AUXM018GLEH  
AUXM024GLEH  
AUXM030GLEH  
AUXM034GLEH  
AUXM036GLEH  
AUXM045GLEH  
AUXM054GLEH

Models (Large type)  
AUXM180GLEH  
AUXM240GLEH  
AUXM300GLEH  
AUXM340GLEH  
AUXM360GLEH  
AUXM450GLEH  
AUXM540GLEH

Feature

Unique Circular Flow design
New Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, new turbo fan and unique seamless airflow louver design.

Uniform temperature air conditioning
Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.

Individual louver control
Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.  *Touch Panel Wired RC (UTY-INMYZ) only

Human sensor increases more energy saving
Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.  *Touch Panel Wired RC (UTY-INMYZ) only

Optional parts
Human Sensor Kit: UTY-SKZXE  
Wide Panel: UTY-AMXE-W  
Panel Spacer: UTY-IBXX-W  
Fresh Air Intake Kit: UTY-VRXXA  
Air Outlet Shutter Plate: UTY-YDZEK  
Insulation Kit for High Humidity: UTY-ZHXXA  
Cassette Grille: UTY-KXXWC, UTY-UKYB-W  
External Power Supply Unit: UTY-OGXXA

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXM009GLEH</th>
<th>AUXM012GLEH</th>
<th>AUXM014GLEH</th>
<th>AUXM018GLEH</th>
<th>AUXM024GLEH</th>
<th>AUXM030GLEH</th>
<th>AUXM034GLEH</th>
<th>AUXM036GLEH</th>
<th>AUXM045GLEH</th>
<th>AUXM054GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</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>5.6</td>
<td>7.1</td>
<td>9.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Power source Single-phase, ~230V, 50Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
<td>246 × 840 × 840</td>
<td></td>
<td></td>
<td></td>
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<td>Weight kg</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions other than J-IL:

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXK018GLEH</th>
<th>AUXK024GLEH</th>
<th>AUXK030GLEH</th>
<th>AUXK034GLEH</th>
<th>AUXK036GLEH</th>
<th>AUXK045GLEH</th>
<th>AUXK054GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Heating kW</td>
<td>3.2</td>
<td>4.0</td>
<td>5.0</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>6.3</td>
</tr>
<tr>
<td>Heating indoor temperature</td>
<td>22°C/19°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor temperature</td>
<td>18°C/16°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
<td>53 × 950 × 950</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Weight kg</td>
<td>6.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Dimensions other than J-II:

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXK018GLEH</th>
<th>AUXK024GLEH</th>
<th>AUXK030GLEH</th>
<th>AUXK034GLEH</th>
<th>AUXK036GLEH</th>
<th>AUXK045GLEH</th>
<th>AUXK054GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Heating kW</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Heating indoor temperature</td>
<td>22°C/19°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outdoor temperature</td>
<td>18°C/16°C</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
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<tr>
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<td></td>
<td></td>
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</tbody>
</table>

Note: Specifications are based on the following conditions:

- Cooling, Indoor temperature of 27°C/19°C, and outdoor temperature of 32°C/24°C
- Heating, Indoor temperature of 20°C/17°C, and outdoor temperature of 7°C/0°C

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

Models (with drain pump)
ARXX004GLEH ARXX007GLEH ARXX009GLEH ARXX012GLEH ARXX014GLEH ARXX018GLEH ARXX024GLEH

Feature

Large living space available
• Installation space can be reduced to minimum depth 450mm height 198mm and compact design
• Minimum size: Depth 450mm, Height 198mm Volume
30% down compared with current model
• Lightweight: 16kg 10% down

Optimum airflow path and low noise operation
Low noise is realized drastically by stabilized airflow design

Easy design and maintenance for drain
By using the DC fan motor, it is possible to change the static pressure range from 0 to 30 Pa*.
The change of static pressure range is possible by remote controller.
* 0 to 30 Pa. (004-012 models)

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

Auto Louver Grille Kit (Option)
• Thin design provides a comfortable living environment over a wide area.
• Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well.

Optional parts
Remote Sensor Unit : UTY-XSUX IR Receiver Unit : UTB-YBC
Auto Louver Grille Kit : UTD-GXTA-W (for ARXX004/007/009/012/014) UTD-GXTB-W (for ARXX010/012)
UTD-GXTC-W (for ARXX016)
External Power Supply Unit : UTZ-QXXA

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>ARXX004GLEH</th>
<th>ARXX007GLEH</th>
<th>ARXX009GLEH</th>
<th>ARXX012GLEH</th>
<th>ARXX014GLEH</th>
<th>ARXX018GLEH</th>
<th>ARXX024GLEH</th>
</tr>
</thead>
</table>

Power source
- Single-phase ~230V, 50Hz

Capacity
- Cooling kW : 1.1, 2.2, 2.8, 3.6, 4.5, 5.6, 7.1
- Heating kW : 1.3, 2.8, 3.2, 4.0, 5.0, 6.3, 8.0

Input power W
- 26, 28, 28, 35, 66, 73, 80

Airflow rate
- High m³/h : 460, 460, 460, 550, 760, 930, 1,160
- Med-H m³/h : 440
- Med m³/h : 420, 420, 420, 480, 560, 740, 960
- Med-L m³/h : 400
- Low m³/h : 370, 370, 370, 410, 410, 540, 750
- Quiet m³/h : 340

Static pressure range Pa
- 0 to 30

Standard static pressure
- 10

Sound pressure level dB(A)
- High : 25, 26, 26, 29, 34, 33, 32
- Med : 23, 24, 24, 26, 28, 28, 28
- Med-L : 22, 23, 23, 25, 26, 26, 27
- Low : 21, 22, 22, 24, 24, 24, 25
- Quiet : 20, 21, 21, 22, 22, 22, 22

Dimensions (H × W × D) mm
- 198 × 700 × 450

Weight kg
- 14.5, 15.5, 15.5, 16.0, 16.0, 19.0, 22.5

Connection pipe diameter (mm)
- Refrigerant pipe flare connection (liquid) 6.35
- Refrigerant pipe flare connection (gas) 9.52
- Drain hose connection (I.D./O.D.) 25/32

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 27°C, outdoor temperature of 35°C (dry bulb), 26°C (wet bulb)
- Heating: Indoor temperature of 20°C, outdoor temperature of 7°C (dry bulb), 6°C (wet bulb)
- Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 V

Auto Louver Grille Kit (Option)

Optional parts
- Remote Sensor Unit : UTY-XSUX
- IR Receiver Unit : UTB-YBC
- Auto Louver Grille Kit : UTD-GXTA-W (for ARXX004/007/009/012/014) UTD-GXTB-W (for ARXX010/012) UTD-GXTC-W (for ARXX016)
- External Power Supply Unit : UTZ-QXXA

Dimensions (mm)

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 27°C, outdoor temperature of 35°C (dry bulb), 26°C (wet bulb)
- Heating: Indoor temperature of 20°C, outdoor temperature of 7°C (dry bulb), 6°C (wet bulb)
- Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 V
**Slim Duct / Slim Concealed Floor**

**Models**
- ARXD04GALH
- ARXD007GLEH
- ARXD009GLEH
- ARXD012GLEH
- ARXD014GLEH
- ARXD018GLEH
- ARXD024GLEH

**Feature**

**Slim design**
With a slim indoor design, this indoor can be installed in narrow ceiling spaces.

**Selectable with a wide range of static pressure**
By using DC fan motor, it is possible to change of static pressure range 0 to 90 Pa. The change of static pressure range is possible by remote controller.

**High lift drain pump**

**Auto Louver Grille Kit (Option)**
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

**Filter (Accessory)**
- ARXD04 / 007 / 009 / 12 / 014 / 018
- ARXD024

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>ARXD04GALH</th>
<th>ARXD007GLEH</th>
<th>ARXD009GLEH</th>
<th>ARXD012GLEH</th>
<th>ARXD014GLEH</th>
<th>ARXD018GLEH</th>
<th>ARXD024GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (Cooling)</td>
<td>1.1 kW</td>
<td>2.2 kW</td>
<td>2.8 kW</td>
<td>3.6 kW</td>
<td>4.5 kW</td>
<td>5.6 kW</td>
<td>7.1 kW</td>
</tr>
<tr>
<td>Capacity (Heating)</td>
<td>1.3 kW</td>
<td>2.8 kW</td>
<td>3.2 kW</td>
<td>4.0 kW</td>
<td>5.0 kW</td>
<td>6.3 kW</td>
<td>8.0 kW</td>
</tr>
<tr>
<td>Input power</td>
<td>38 W</td>
<td>44 W</td>
<td>50 W</td>
<td>54 W</td>
<td>92 W</td>
<td>83 W</td>
<td>122 W</td>
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<tr>
<td>Airflow rate (High)</td>
<td>510 m³/h</td>
<td>550 m³/h</td>
<td>600 m³/h</td>
<td>600 m³/h</td>
<td>800 m³/h</td>
<td>940 m³/h</td>
<td>1,330 m³/h</td>
</tr>
<tr>
<td>Airflow rate (Med-H)</td>
<td>480 m³/h</td>
<td>510 m³/h</td>
<td>530 m³/h</td>
<td>680 m³/h</td>
<td>820 m³/h</td>
<td>1,140 m³/h</td>
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</tr>
<tr>
<td>Airflow rate (Med)</td>
<td>400 m³/h</td>
<td>440 m³/h</td>
<td>460 m³/h</td>
<td>490 m³/h</td>
<td>600 m³/h</td>
<td>730 m³/h</td>
<td>1,020 m³/h</td>
</tr>
<tr>
<td>Airflow rate (Med-L)</td>
<td>410 m³/h</td>
<td>420 m³/h</td>
<td>450 m³/h</td>
<td>520 m³/h</td>
<td>630 m³/h</td>
<td>900 m³/h</td>
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</tr>
<tr>
<td>Airflow rate (Low)</td>
<td>320 m³/h</td>
<td>370 m³/h</td>
<td>370 m³/h</td>
<td>410 m³/h</td>
<td>440 m³/h</td>
<td>540 m³/h</td>
<td>780 m³/h</td>
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<tr>
<td>Airflow rate (Quiet)</td>
<td>320 m³/h</td>
<td>320 m³/h</td>
<td>340 m³/h</td>
<td>340 m³/h</td>
<td>470 m³/h</td>
<td>610 m³/h</td>
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</tr>
<tr>
<td>Static pressure range (Pa)</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 50</td>
</tr>
<tr>
<td>Standard static pressure (Pa)</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>25</td>
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<td>25</td>
</tr>
<tr>
<td>Sound pressure level (A) (High)</td>
<td>26 dB(A)</td>
<td>28 dB(A)</td>
<td>29 dB(A)</td>
<td>30 dB(A)</td>
<td>34 dB(A)</td>
<td>34 dB(A)</td>
<td>35 dB(A)</td>
</tr>
<tr>
<td>Sound pressure level (Med-H)</td>
<td>25 dB(A)</td>
<td>27 dB(A)</td>
<td>28 dB(A)</td>
<td>32 dB(A)</td>
<td>31 dB(A)</td>
<td>31 dB(A)</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level (Med)</td>
<td>21/25 dB(A)</td>
<td>25 dB(A)</td>
<td>25 dB(A)</td>
<td>27 dB(A)</td>
<td>30 dB(A)</td>
<td>29 dB(A)</td>
<td>29 dB(A)</td>
</tr>
<tr>
<td>Sound pressure level (Med-L)</td>
<td>24 dB(A)</td>
<td>24 dB(A)</td>
<td>26 dB(A)</td>
<td>28 dB(A)</td>
<td>27 dB(A)</td>
<td>27 dB(A)</td>
<td>27 dB(A)</td>
</tr>
<tr>
<td>Sound pressure level (Low)</td>
<td>20/22 dB(A)</td>
<td>22 dB(A)</td>
<td>22 dB(A)</td>
<td>24 dB(A)</td>
<td>25 dB(A)</td>
<td>25 dB(A)</td>
<td>24 dB(A)</td>
</tr>
<tr>
<td>Sound pressure level (Quiet)</td>
<td>21 dB(A)</td>
<td>21 dB(A)</td>
<td>22 dB(A)</td>
<td>22 dB(A)</td>
<td>23 dB(A)</td>
<td>21 dB(A)</td>
<td></td>
</tr>
<tr>
<td>Dimensions (H × W × D)</td>
<td>198 × 700 × 620 mm</td>
<td>198 × 700 × 620 mm</td>
<td>198 × 700 × 620 mm</td>
<td>198 × 700 × 620 mm</td>
<td>198 × 700 × 620 mm</td>
<td>198 × 900 × 620 mm</td>
<td>198 × 1,100 × 620 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>17 kg</td>
<td>17 kg</td>
<td>17 kg</td>
<td>18 kg</td>
<td>18 kg</td>
<td>22 kg</td>
<td>26 kg</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>- Liquid (Flare): 6.35 mm</td>
<td>- Liquid (Flare): 6.35 mm</td>
<td>- Liquid (Flare): 6.35 mm</td>
<td>- Liquid (Flare): 6.35 mm</td>
<td>- Liquid (Flare): 6.35 mm</td>
<td>- Liquid (Flare): 6.35 mm</td>
<td>- Liquid (Flare): 9.52 mm</td>
</tr>
<tr>
<td></td>
<td>- Gas (Flare): 12.70 mm</td>
<td>- Gas (Flare): 9.52 mm</td>
<td>- Gas (Flare): 9.52 mm</td>
<td>- Gas (Flare): 12.70 mm</td>
<td>- Gas (Flare): 12.70 mm</td>
<td>- Gas (Flare): 12.70 mm</td>
<td>- Gas (Flare): 15.88 mm</td>
</tr>
<tr>
<td>Drain hose diameter (I.D./O.D.)</td>
<td>25/32 mm</td>
<td>25/32 mm</td>
<td>25/32 mm</td>
<td>25/32 mm</td>
<td>25/32 mm</td>
<td>25/32 mm</td>
<td>25/32 mm</td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

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

*Service accessibility must be allowed for when installing the product. Please consult the installation manual for the necessary service access size.

**Optional parts**
- Remote Sensor Unit: UTY-XSZX
- IR Receiver Unit: UTB-YWC
- Auto Louver Grille Kit: UTD-GXTA-W (for ARXD04/007/009/012/014)
- UTD-GXTB-W (for ARXD018)
- UTD-GXTC-W (for ARXD024)
- External Power Supply Unit: UTZ-GXXA

**Dimensions (in mm)**

- ARXD04 : 600 × 600 × 890
- ARXD007 : 630 × 630 × 1,010
- ARXD009 : 630 × 630 × 1,010
- ARXD012 : 630 × 630 × 1,010
- ARXD014 : 630 × 630 × 1,010
- ARXD018 : 700 × 700 × 1,050
- ARXD024 : 734 × 934 × 1,134

*Service accessibility must be allowed for when installing the product. Please consult the installation manual for the necessary service access size.
Medium Static Pressure Duct

**Models**
- ARXA024GLEH
- ARXA030GLEH
- ARXA036GLEH
- ARXA045GLEH

**Feature**

**Slim & Compact design**
The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.

**Low energy consumption by high efficiency DC fan motor**
Improved motor efficiency from previous model.

**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.

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

**Easy maintenance**

1. Low installation time
2. Easy to manage the indoor unit
3. Easy to carry out maintenance

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

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

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>ARXA024GLEH</th>
<th>ARXA030GLEH</th>
<th>ARXA036GLEH</th>
<th>ARXA045GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</td>
<td>7.1</td>
<td>9.0</td>
<td>11.2</td>
<td>12.5</td>
</tr>
<tr>
<td></td>
<td>Heating kW</td>
<td>8.0</td>
<td>10.0</td>
<td>12.5</td>
</tr>
<tr>
<td>Input power W</td>
<td>94</td>
<td>108</td>
<td>194</td>
<td>240</td>
</tr>
<tr>
<td>Airflow rate High m³/h</td>
<td>1,280</td>
<td>1,410</td>
<td>1,840</td>
<td>1,970</td>
</tr>
<tr>
<td></td>
<td>Med-H m³/h</td>
<td>1,180</td>
<td>1,350</td>
<td>1,750</td>
</tr>
<tr>
<td></td>
<td>Med m³/h</td>
<td>1,090</td>
<td>1,280</td>
<td>1,660</td>
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<tr>
<td></td>
<td>Med-L m³/h</td>
<td>1,000</td>
<td>1,240</td>
<td>1,600</td>
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<tr>
<td></td>
<td>Low m³/h</td>
<td>920</td>
<td>1,190</td>
<td>1,530</td>
</tr>
<tr>
<td></td>
<td>Quiet m³/h</td>
<td>840</td>
<td>1,150</td>
<td>1,470</td>
</tr>
<tr>
<td>Static pressure range Pa</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
<td>0 to 150</td>
</tr>
<tr>
<td>Standard static pressure</td>
<td>40</td>
<td>50</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>Sound pressure level High dB(A)</td>
<td>31</td>
<td>34</td>
<td>37</td>
<td>41</td>
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<tr>
<td></td>
<td>Med-H dB(A)</td>
<td>29</td>
<td>33</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>Med dB(A)</td>
<td>27</td>
<td>32</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Med-L dB(A)</td>
<td>26</td>
<td>31</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Low dB(A)</td>
<td>24</td>
<td>30</td>
<td>34</td>
</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
<td>270 × 1,135 × 700</td>
<td>270 × 1,135 × 700</td>
<td>270 × 1,135 × 700</td>
<td>270 × 1,135 × 700</td>
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<tr>
<td>Weight kg</td>
<td>36</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid (Flare) mm</td>
<td>9.5</td>
<td>9.5</td>
<td>9.5</td>
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<tr>
<td></td>
<td>Gas (Flare) mm</td>
<td>15.9</td>
<td>15.9</td>
<td>15.9</td>
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<tr>
<td>Drain hose diameter (I.D./O.D.)</td>
<td>25 / 32</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Specifications are based on the following conditions:
- Cooling: Indoor temperature at 27°C (80.6°F), Outdoor temperature at 35°C (95°F)
- Heating: Indoor temperature at 20°C (68°F), Outdoor temperature at 7°C (45.6°F)
- Drain length: 5 m, Height difference between outdoor unit and indoor unit: 0 m, Voltage: 230 V
High Static Pressure Duct

**Feature**

**Static pressure selection**

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036 / ARXC45 / ARXC60) / 300Pa (ARXC072 / 090 / 096).

**Low noise**

Models: ARXC036 / ARXC45 / ARXC60

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.

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

Improved motor efficiency from previous model.

**New model**

ARXC036GTEH: Plastic fan (42dB[A])

* Model : Material
  (At 100Pa; Actual noise measurement value)

---

**Easy installation (Compact size & Lightweight)**

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 code</th>
<th>ARXC036GTEH</th>
<th>ARXC045GTEH</th>
<th>ARXC060GTEH</th>
<th>ARXC072GTEH</th>
<th>ARXC090GTEH</th>
<th>ARXC096GTEH</th>
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</thead>
<tbody>
<tr>
<td>Power factor</td>
<td>Single Phase</td>
<td>Single Phase</td>
<td>Single Phase</td>
<td>Single Phase</td>
<td>Single Phase</td>
<td>Single Phase</td>
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<tr>
<td>Capacity Cooling kW</td>
<td>11.2</td>
<td>12.5</td>
<td>18.0</td>
<td>22.4</td>
<td>25.0</td>
<td>28.0</td>
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<td>Efficiency Power Consumption (W)</td>
<td>351</td>
<td>364</td>
<td>547</td>
<td>681</td>
<td>819</td>
<td>838</td>
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<tr>
<td>Airflow Rate m³/h</td>
<td>Max.</td>
<td>1,587</td>
<td>1,990</td>
<td>3,000</td>
<td>3,350</td>
<td>3,900</td>
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<tr>
<td>Connection Drain piping connection</td>
<td>Flare connection (Gas)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Connection Refrigerant piping</td>
<td>Flare connection (Gas)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
<td>400 × 1,050 × 500</td>
<td>400 × 1,050 × 500</td>
<td>400 × 1,050 × 500</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
<td>550 × 1,587 × 700</td>
</tr>
<tr>
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<td>40</td>
<td>46</td>
<td>46</td>
<td>84</td>
<td>84</td>
<td>105</td>
</tr>
<tr>
<td>Control wire diameter for external power supply unit</td>
<td>5.0 mm²</td>
<td>5.0 mm²</td>
<td>5.0 mm²</td>
<td>1.6 mm²</td>
<td>1.6 mm²</td>
<td>2.5 mm²</td>
</tr>
</tbody>
</table>
| Note | Specifications are based on the following conditions.

**Optional parts**

- Long-Life Filter: UTD-1F60KA (For ARXC036 / 45 / 60)
- Remote Sensor Unit: UTY-XSZX
- External Power Supply Unit: UTZ-GXXA
Large Airflow Duct (Compact type)

**Feature**

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

**Quiet operation**
Multistep airflow speed control allows this model to install in a quiet location.

**Slim & Compact design**
It can be installed in places such as early replacement of air required by large airflow volume.

**Specifications**

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ARXN009GLBH</th>
<th>ARXN012GLBH</th>
<th>ARXN014GLBH</th>
<th>ARXN018GLBH</th>
<th>ARXN024GTBH</th>
<th>ARXN030GTBH</th>
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</thead>
<tbody>
<tr>
<td><strong>Power source</strong></td>
<td>Single-phase</td>
<td>~230V, 50Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling (kW)</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>
</tr>
<tr>
<td>Heating (kW)</td>
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<td>5.0</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
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<td><strong>Input power (W)</strong></td>
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<td>122</td>
<td>122</td>
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<td>30</td>
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<td><strong>Quiet</strong></td>
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<td></td>
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<tr>
<td><strong>Dimensions (H × W × D) (mm)</strong></td>
<td></td>
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<tr>
<td>ARXN009 / ARXN012 / ARXN014</td>
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<td>ARXN024 / ARXN030</td>
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**Note:** Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°C CIB / 19°C DB, and outdoor temperature of 35°C CIB / 34°C DB.
Heating: Indoor temperature of 20°C CIB / 15°C DB, and outdoor temperature of 7°C CIB / 6°C DB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

**Optional parts**

- **IR receiver unit:** UTB-YWC
- **Long life filter:** UTD-LFNA (For ARXN018GLBH), UTD-LFNN (For ARXN024/030GTBH)
- **Flange:** UTD-SF045T (For ARXN018GLBH), UTD-RF204 (For ARXN018GLBH)
- **Drain pump unit:** UTZ-PX1NBA (ARXN018GLBH)
- **Remote sensor unit:** UTY-XSZX
- **Auto Louver Grille Kit:** UTD-GXTC-W (for ARXN009/012/014GLBH)

**Rear view**

**Top view**

**Side view (R)**

**Side view (L)**

**Front view**

**Option**

- Refrigerant piping flare connection (Liquid)
- Refrigerant piping flare connection (Gas)
- Drain piping connection
Large Airflow Duct (Large type)

Models
ARXN18GATH
ARXN24GATH
ARXN30GATH
ARXN34GATH
ARXN36GATH
ARXN45GATH

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

Installation styles
Selectable with a wide range of static pressure

Static pressure range
- 50 to 250 Pa (30 / 34class)
- 50 to 300 Pa (36 / 45class)

Optional parts
Remote Sensor Unit : UTY-XSZX

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXN18GATH</th>
<th>ARXN24GATH</th>
<th>ARXN30GATH</th>
<th>ARXN34GATH</th>
<th>ARXN36GATH</th>
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<td>kW</td>
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<td>(Low)</td>
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<td>-</td>
<td>-</td>
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<td>(Low)</td>
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<td>-</td>
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<td>-</td>
</tr>
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<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
<td>450 × 1,587 × 700</td>
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Note: Specifications are based on the following conditions.
- Cooling: Indoor temperature of 27°C (80°F), and outdoor temperature of 35°C (95°F)
- Heating: Indoor temperature of 20°C (68°F), and outdoor temperature of 7°C (45°F)
- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m; Voltage: 230 V

Large Airflow Duct (Large type) can be connected to VR-II / V-III series only.

Dimensions (Unit: mm)

Note: Specifications are based on the following conditions.
- Cooling: Indoor temperature of 27°C (80°F), and outdoor temperature of 35°C (95°F)
- Heating: Indoor temperature of 20°C (68°F), and outdoor temperature of 7°C (45°F)
- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m; Voltage: 230 V
### Features

**2-Fan & Wide airflow**

Individual vertical airflow by 2-fan can control the whole room comfortably.

**Flexible & easy installation**

Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be available to match the room layout.

**Quiet operation**

Quiet operation is realized by 6 fan speed control. (via 2 wire controller) at 004/007/009 models

**Flexible piping connection 6 direction of drain & piping**

Drain horse and piping can be drawn flexibly in the right, left, side, and down directions.

### Specifications

#### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>AGYA004GCEH</th>
<th>AGYA007GCEH</th>
<th>AGYA009GCEH</th>
<th>AGYA012GCEH</th>
<th>AGYA014GCEH</th>
<th>AGYE004GCEH</th>
<th>AGYE007GCEH</th>
<th>AGYE009GCEH</th>
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<td>380 / 430</td>
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<td>340</td>
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<td>46</td>
<td>35 / 36</td>
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<td>38</td>
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<td>282</td>
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#### Dimensions

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<tr>
<th>Feature</th>
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<th>AGYE007GCEH</th>
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<td>14.5</td>
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#### 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.

When AGY*004GCEH, AGY*007GCEH, and AGY*009GCEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

### Optional parts

- Half concealed kit: UTR-STA
- External Power Supply Unit: UTZ-CAXXA

---

**AGYA models**

- AGYA004GCEH
- AGYA007GCEH
- AGYA009GCEH
- AGYA012GCEH
- AGYA014GCEH

**AGYE models**

- AGYE004GCEH
- AGYE007GCEH
- AGYE009GCEH
- AGYE012GCEH
- AGYE014GCEH
Floor / Ceiling

Models
ABYA012GTEH
ABYA014GTEH
ABYA018GTEH
ABYA024GTEH

DC FAN

Feature

Flexible installation
Example for floor installation
Floor console

Example for ceiling installation
Under ceiling

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 louver
When operation is stopped, the louvers will automatically close. (This function is available on all non-ducted models.)

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

Optional parts
External Power Supply Unit : UTZ-GXXA

Specifications

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<th>ABYA018GTEH</th>
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<td>kW</td>
<td>kW</td>
<td>kW</td>
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<td>m³/h</td>
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<td>Low</td>
<td>660</td>
<td>660</td>
<td>660</td>
<td>660</td>
</tr>
<tr>
<td>Medium</td>
<td>720</td>
<td>720</td>
<td>720</td>
<td>720</td>
</tr>
<tr>
<td>High</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
</tr>
<tr>
<td>Quiet</td>
<td>490</td>
<td>550</td>
<td>580</td>
<td>680</td>
</tr>
<tr>
<td>Sound pressure</td>
<td>dB (A)</td>
<td>dB (A)</td>
<td>dB (A)</td>
<td>dB (A)</td>
</tr>
<tr>
<td>High</td>
<td>36</td>
<td>40</td>
<td>46</td>
<td>47</td>
</tr>
<tr>
<td>Medium</td>
<td>34</td>
<td>39</td>
<td>44</td>
<td>45</td>
</tr>
<tr>
<td>Low</td>
<td>33</td>
<td>38</td>
<td>42</td>
<td>43</td>
</tr>
<tr>
<td>Quiet</td>
<td>28</td>
<td>34</td>
<td>35</td>
<td>37</td>
</tr>
<tr>
<td>Dimensions (W × D) (mm)</td>
<td>199 × 990 × 655</td>
<td>199 × 990 × 655</td>
<td>199 × 990 × 655</td>
<td>199 × 990 × 655</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
</tr>
<tr>
<td>Low</td>
<td>25</td>
<td>26</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>Medium</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>27</td>
</tr>
<tr>
<td>High</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Drain piping</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>Low</td>
<td>25 / 32</td>
<td>25 / 32</td>
<td>25 / 32</td>
<td>25 / 32</td>
</tr>
<tr>
<td>Medium</td>
<td>22 / 32</td>
<td>22 / 32</td>
<td>22 / 32</td>
<td>22 / 32</td>
</tr>
<tr>
<td>High</td>
<td>20 / 32</td>
<td>20 / 32</td>
<td>20 / 32</td>
<td>20 / 32</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/35°C/35°C
Heating: Indoor temperature of 20°C/20°C/20°C, and outdoor temperature of 5°C/5°C/5°C
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 1.5 m; Voltage: 230 [V]

Dimensions [mm]

Optional parts
External Power Supply Unit : UTZ-GXXA

Refrigerant piping flare connection (liquid)
Refrigerant piping flare connection (gas)
Drain piping connection
**Installation**

**Open**
- General installation pattern which suspends the indoor unit from the ceiling.

**Concealed**
- Installation pattern where part of the indoor unit is embedded into the ceiling.

**Wall mounted**
- Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied).

**Double auto swing and wide airflow**

- Auto airflow direction and auto swing

  **Right and left**
  - 5 steps selectable

  **Up and down**
  - 4 steps selectable

**Long airflow**

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

**High power DC fan motor**

- High power
- Wide rotation range
- High efficiency

**Feature**

**Installation**

- Double auto swing and wide airflow
- Long airflow
- High power DC fan motor

**Slim & Compact design**

- Optional parts
  - Drain Pump Unit: UTR-DPB24T
  - Flange: UTD-RF204
  - External Power Supply Unit: UTZ-GXXA

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ABYA030GTEH</th>
<th>ABYA036GTEH</th>
<th>ABYA045GTEH</th>
<th>ABYA054GTEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>Single-phase, ~230V, 50Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td></td>
<td>9.0</td>
<td>11.2</td>
<td>12.5</td>
</tr>
<tr>
<td>Heating kW</td>
<td>10.0</td>
<td>12.5</td>
<td>14.0</td>
<td>16.0</td>
</tr>
<tr>
<td>Input power W</td>
<td>66</td>
<td>85</td>
<td>131</td>
<td>180</td>
</tr>
<tr>
<td>Airflow rate m³/h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
  - High
  - Med-H
  - Med
  - Med-L
  - Low
  - Quiet |
  - 1,630 | 1,690 | 2,010 | 2,270 |
  - 1,520 | 1,560 | 1,840 | 2,070 |
  - 1,420 | 1,450 | 1,690 | 1,860 |
  - 1,320 | 1,360 | 1,530 | 1,660 |
  - 1,220 | 1,270 | 1,380 | 1,470 |
  - 1,140 | 1,170 | 1,230 | 1,280 |
| Sound pressure level dB |
  - High |
  - Med-H |
  - Med |
  - Med-L |
  - Low |
  - Quiet |
  - 42 | 45 | 48 | 51 |
  - 40 | 41 | 46 | 49 |
  - 39 | 39 | 45 | 46 |
  - 37 | 38 | 41 | 43 |
  - 35 | 36 | 38 | 40 |
  - 33 | 34 | 35 | 36 |
| Dimensions (H × W × D) mm |
  - 240 × 1,660 × 700 |
| Weight kg | 46 | 48 | 48 | 48 |
| Connection pipe diameter |
  - Liquid (Flare) mm |
  - 9.52 |
  - Gas (Flare) mm |
  - 15.88 |

**Note:** Specifications are based on the following conditions.
- Cooling: Indoor temperature of 25°C (77°F); outdoor temperature of 35°C (95°F)
- Heating: Indoor temperature of 20°C (68°F); outdoor temperature of 7°C (45°F)
- Rk/length: 3.5 m; height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V]

**Dimensions**

- [Diagram showing dimensions]

- **Fresh air intake**
  - Optional parts
  - Drain Pump Unit: UTR-DPB24T
  - Flange: UTD-RF204
  - External Power Supply Unit: UTZ-GXXA

- **High lift drain pump**
  - Optional parts
  - Drain Pump Unit: UTR-DPB24T
  - Flange: UTD-RF204
  - External Power Supply Unit: UTZ-GXXA

- **Slim & Compact design**
  - Optional parts
  - Drain Pump Unit: UTR-DPB24T
  - Flange: UTD-RF204
  - External Power Supply Unit: UTZ-GXXA

- **Specifications**
  - Model name | ABYA030GTEH | ABYA036GTEH | ABYA045GTEH | ABYA054GTEH |
  - Power source | Single-phase, ~230V, 50Hz |
  - Capacity |  | 9.0 | 11.2 | 12.5 | 14.0 |
  - Heating kW | 10.0 | 12.5 | 14.0 | 16.0 |
  - Input power W | 66 | 85 | 131 | 180 |
  - Airflow rate m³/h |
    - High |
    - Med-H |
    - Med |
    - Med-L |
    - Low |
    - Quiet |
  - Sound pressure level dB |
    - High |
    - Med-H |
    - Med |
    - Med-L |
    - Low |
    - Quiet |
  - Dimensions (H × W × D) mm | 240 × 1,660 × 700 |
  - Weight kg | 46 | 48 | 48 | 48 |
  - Connection pipe diameter |
    - Liquid (Flare) mm |
    - 9.52 |
    - Gas (Flare) mm |
    - 15.88 |

**Note:** Specifications are based on the following conditions.
- Cooling: Indoor temperature of 25°C (77°F); outdoor temperature of 35°C (95°F)
- Heating: Indoor temperature of 20°C (68°F); outdoor temperature of 7°C (45°F)
- Rk/length: 3.5 m; height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V]

**Dimensions**

- [Diagram showing dimensions]
Wall Mounted

Models (internal)  
ASYA004GTEH  
ASYA007GTEH  
ASYA009GTEH  
Models (external)  
ASYE004GTEH  
ASYE007GTEH  
ASYE009GTEH

6 Fan Speed Control  
Multi-step airflow control is possible to suit the environment.

6-Step Speed  
Fan speed  
Quiet  
Low noise  
22 dB(A)

High density heat exchanger  
Making the tube thin:  
7 mm → 5 mm  
Increase of heat exchanger volume by high density and adopting sub heat exchanger

Easy installation  
Communication wiring can be installed easily by only opening the front panel and wire cover.

Optimized design matches to a small room  
Efficient operation and refrigerant saving are realized by optimum heat exchanger design suited for small rooms.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power source</th>
<th>Capacity (kW)</th>
<th>Input power (W)</th>
<th>Airflow rate (m³/h)</th>
<th>Sound pressure level (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYA004GTEH</td>
<td>Single-phase, ~230V, 50Hz</td>
<td>1.1</td>
<td>13</td>
<td>430</td>
<td>31</td>
</tr>
<tr>
<td>ASYA007GTEH</td>
<td></td>
<td>2.2</td>
<td>19</td>
<td>550</td>
<td>35</td>
</tr>
<tr>
<td>ASYA009GTEH</td>
<td></td>
<td>2.8</td>
<td>34</td>
<td>720</td>
<td>43</td>
</tr>
<tr>
<td>ASYE004GTEH</td>
<td></td>
<td>1.1</td>
<td>13</td>
<td>430</td>
<td>31</td>
</tr>
<tr>
<td>ASYE007GTEH</td>
<td></td>
<td>2.2</td>
<td>19</td>
<td>550</td>
<td>35</td>
</tr>
<tr>
<td>ASYE009GTEH</td>
<td></td>
<td>2.8</td>
<td>34</td>
<td>720</td>
<td>43</td>
</tr>
</tbody>
</table>

Dimensions (mm)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>ASYA004GTEH</th>
<th>ASYA007GTEH</th>
<th>ASYA009GTEH</th>
<th>ASYE004GTEH</th>
<th>ASYE007GTEH</th>
<th>ASYE009GTEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (H)</td>
<td>262</td>
<td>262</td>
<td>262</td>
<td>262</td>
<td>262</td>
<td>262</td>
</tr>
<tr>
<td>Width (W)</td>
<td>820</td>
<td>820</td>
<td>820</td>
<td>820</td>
<td>820</td>
<td>820</td>
</tr>
<tr>
<td>Depth (D)</td>
<td>206</td>
<td>206</td>
<td>206</td>
<td>206</td>
<td>206</td>
<td>206</td>
</tr>
<tr>
<td>Weight</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
<td>7</td>
<td>7</td>
<td>7</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.  
 When ASY*004GTEH, ASY*007GTEH, ASY*009GTEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

* Compatible Remote Controllers as follows:  
UTY-RNRYZ3 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

DC FAN

Feature

High efficient compact design  
Ø5mm high density heat exchanger is mounted for the first time in the industry.

High density heat exchanger

Making the tube thin:  
7 mm → 5 mm  
Increase of heat exchanger volume by high density and adopting sub heat exchanger

6 Fan Speed Control  
Multi-step airflow control is possible to suit the environment.

Easy installation  
Communication wiring can be installed easily by only opening the front panel and wire cover.

Optimized design matches to a small room  
Efficient operation and refrigerant saving are realized by optimum heat exchanger design suited for small rooms.

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.  
 When ASY*004GTEH, ASY*007GTEH, ASY*009GTEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

* Compatible Remote Controllers as follows:  
UTY-RNRYZ3 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1
Wall Mounted

Models (Air-to-air)
ASYA012GCEH
ASYA014GCEH

Models (Air-to-water)
ASYE012GCEH
ASYE014GCEH

Feature

High efficient compact design

High efficient compact design is realized by mounting a high density and large heat exchanger. Compact body makes it possible to install inconspicuously even in a meeting or office room and comfortable air conditioning is provided.

More comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

Heating
Vertical airflow provides powerful floor heating

Power diffuser

Cooling
Horizontal airflow does not blow cool air directly at the occupants in the room.

Power diffuser

6 Fan Speed Control

Multistep airflow control is possible to suit the environment.

Exhaust Quiet Low mode

24 dB(A)

High speed

Med-H

Med

Med-L

Low

Quiet

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

Human sensor

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ASYA012GCEH</th>
<th>ASYA014GCEH</th>
<th>ASYE012GCEH</th>
<th>ASYE014GCEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>Single - phase, ~230V, 50Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>Cooling kW</td>
<td>3.6</td>
<td>4.0</td>
<td>3.6</td>
</tr>
<tr>
<td></td>
<td>Heating kW</td>
<td>4.0</td>
<td>4.5</td>
<td>4.0</td>
</tr>
<tr>
<td>Input power</td>
<td>W</td>
<td>25</td>
<td>36</td>
<td>25</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>m³/h</td>
<td>690</td>
<td>800</td>
<td>690</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>610</td>
<td>740</td>
<td>610</td>
</tr>
<tr>
<td></td>
<td>Med-H</td>
<td>560</td>
<td>680</td>
<td>560</td>
</tr>
<tr>
<td></td>
<td>Med-L</td>
<td>530</td>
<td>610</td>
<td>530</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>470</td>
<td>550</td>
<td>470</td>
</tr>
<tr>
<td></td>
<td>Quiet</td>
<td>330</td>
<td>330</td>
<td>330</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>High (dB)</td>
<td>40</td>
<td>44</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Med-H</td>
<td>37</td>
<td>42</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Med-L</td>
<td>35</td>
<td>40</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>33</td>
<td>37</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Quiet</td>
<td>30</td>
<td>34</td>
<td>30</td>
</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
<td>268 × 840 × 203</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight kg</td>
<td>8.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Lique (Flare)</td>
<td>6.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gas (Flare)</td>
<td>12.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain hose diameter (I.D./O.D.)</td>
<td>13.8 / 15.8 to 16.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV Kit (option)</td>
<td>UTY-EV14XB UTY-EV14XB</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: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

6-Step Speed

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

Human sensor

6-Step Speed

Perfect more comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

Power diffuser

Heating
Vertical airflow provides powerful floor heating

Power diffuser

6-Step Speed

Perfect more comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

Power diffuser

6-Step Speed

Perfect more comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

Power diffuser

* Compatible Remote Controllers is as follows:

UTY-RNRYZ3 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Dimensions (Unit: mm)

High efficient compact design

High efficient compact design is realized by mounting a high density and large heat exchanger.

Compact body makes it possible to install inconspicuously even in a meeting or office room and comfortable air conditioning is provided.

High density heat exchanger

Improved heat exchanger effectiveness

7 mm -> 5 mm

Making the tube thinner

Increased heat exchanger volume by high density and adopting sub heat exchanger

Even temperature

Improved heat exchanger effectiveness

Making the tube thinner

Increased heat exchanger volume by high density and adopting sub heat exchanger

Even temperature
Wall Mounted

Models
ASYA18GBCH
ASYA24GBCH
ASYA030GTEH
ASYA034GTEH

Feature

Powerful & Comfort airflow

Powerful Airflow
(ASYA030GTEH)

Human sensor (ASYA030/034GTEH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. The wasteful consumption of energy is reduced automatically to keep down electricity bills.

( Available to wired remote controller: UTY-RNRYZ3)

Power diffuser
(ASYA18/24GBCH)

Vertical airflow
(24)

Horizontal airflow
(24)

-2 dB(A)

-2 dB(A)

Current model
New model

6-Step Speed

High
Med-H
Med
Med-L
Low
Quiet

-2 dB(A)

-2 dB(A)

20% up!

Powerful & Comfort airflow

Powerful Airflow
(ASYA030GTEH)

A human sensor senses the movement of humans to reduce operation when one is in the room. The wasteful consumption of energy is reduced automatically to keep down electricity bills.

( Available to wired remote controller: UTY-RNRYZ3)

Power diffuser
(ASYA18/24GBCH)

Vertical airflow
(24)

Horizontal airflow
(24)

-2 dB(A)

-2 dB(A)

Current model
New model

6-Step Speed

High
Med-H
Med
Med-L
Low
Quiet

-2 dB(A)

-2 dB(A)

20% up!

Human sensor

Human sensor

A human sensor senses the movement of humans to reduce operation when one is in the room. The wasteful consumption of energy is reduced automatically to keep down electricity bills.

( Available to wired remote controller: UTY-RNRYZ3)

Power diffuser
(ASYA18/24GBCH)

Vertical airflow
(24)

Horizontal airflow
(24)

-2 dB(A)

-2 dB(A)

Current model
New model

6-Step Speed

High
Med-H
Med
Med-L
Low
Quiet

-2 dB(A)

-2 dB(A)

20% up!

Quiet operation & 6 Fan speed control

Drastic low noise is realized by new airflow structure. In addition, multistep quiet operation is available by 6-step sound level settings.

Specifications

Model name
ASYA18GBCH
ASYA24GBCH
ASYA030GTEH
ASYA034GTEH

Power source
Single-phase, ~230V, 50Hz

Capacity
Cooling
5.6
7.1
9.0
10.0

Heating
6.3
8.0
10.0
11.2

Input power
W
32
60
74
103

Airflow rate
High
840
1,100
1,440
1,620 / 1,520

Med-H
710
910
1,200
1,100

Med
600
900
1,050
900

Low
500
700
500

Sound pressure level
High
41
48
53
55 / 54

Med-H
39
43
45
47

Med
35
39
39

Low
35
35
39

Dimensions
(H × W × D) mm
320 × 998 × 238
320 × 998 × 238
340 × 1,150 × 280
340 × 1,150 × 280

Weight
kg
15
15
18
18

Connection pipe diameter
Liquid (Flare)
6.35
9.52
9.52
9.52

Gas (Flare)
12.70
15.88
15.88
15.88

Drain hose diameter (I.D./O.D.)
12 / 16
13.8
/ 15.8 to 16.7

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.

When ASYA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

Specifications

Model name
ASYA18GBCH
ASYA24GBCH
ASYA030GTEH
ASYA034GTEH

Power source
Single-phase, ~230V, 50Hz

Capacity
Cooling
5.6
7.1
9.0
10.0

Heating
6.3
8.0
10.0
11.2

Input power
W
32
60
74
103

Airflow rate
High
840
1,100
1,440
1,620 / 1,520

Med-H
710
910
1,200
1,100

Med
600
900
1,050
900

Low
500
700
500

Sound pressure level
High
41
48
53
55 / 54

Med-H
39
43
45
47

Med
35
39
39

Low
35
35
39

Dimensions
(H × W × D) mm
320 × 998 × 238
320 × 998 × 238
340 × 1,150 × 280
340 × 1,150 × 280

Weight
kg
15
15
18
18

Connection pipe diameter
Liquid (Flare)
6.35
9.52
9.52
9.52

Gas (Flare)
12.70
15.88
15.88
15.88

Drain hose diameter (I.D./O.D.)
12 / 16
13.8
/ 15.8 to 16.7

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.

When ASYA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).
Effective heat exchange and simultaneous fresh air ventilation

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.

Energy Recovery Ventilator

DX-Kit for air handling applications

Energy Recovery Ventilator range

<table>
<thead>
<tr>
<th>Airflow rate (m³/h)</th>
<th>250</th>
<th>350</th>
<th>500</th>
<th>800</th>
<th>1000</th>
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<td>035</td>
<td>050</td>
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<td>UTZ-BD035C</td>
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<tr>
<td>UTZ-BD100C</td>
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</tbody>
</table>
Energy Recovery Ventilator

**Feature**

**Heat exchange ventilation and normal ventilation**

Heat exchange ventilation

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

Normal ventilation

The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

**Energy efficiency and ecology**

Energy consumption is dramatically reduced by using a counterflow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

**Reverse mountable direct air supply / exhaust system**

Adoption of straight air supply / exhaust system:

Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units:

Two units can share one inspection hole so duct work is easier and more flexible.

**Quiet operation**

Significantly reducing low pressure loss and noise allows low-noise operation.

**Slim shape and easier installation**

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

**Easy remote operation**

• POWER ON/OFF
  • Air volume: High/Low
  • Heat exchange: Normal Ventilation
  • ON/OFF Timer
  • Clean filter display

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>UTZ-BD025C</th>
<th>UTZ-BD035C</th>
<th>UTZ-BD050C</th>
<th>UTZ-BD080C</th>
<th>UTZ-BD100C</th>
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<td>31.5 / 30.5 / 26.5</td>
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</tbody>
</table>

* The noise level must be measured 1.5 m below the center of the unit.
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

Features
• Multiple temperature sensors optimally control the air handling unit and fan coil unit.
• Arrangement as part of a VRF system

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.

DX-Kit for air handling applications

Models
Control unit
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 Hitachi VRF system or, be connected to a dedicated Hitachi VRF outdoor unit as a 5.5 system to control outside air ventilation (AHU) or room temperature (FCU).

Feature

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

Outputs
• ON/OFF indication
• Fan ON/OFF indication
• Thermo ON/OFF indication
• Defrost indication
• Fault indication

Connectable capacity
• 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 AHU or FCU : 30% or less of the outdoor unit capacity (Mixed connection)
• Max. wiring 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.

[For EEV units connection (option)]
• Separation Tube / UTP-LX180A

Functions Summary

Inputs
• ON/OFF
• Setting temperature
• Capacity demand
• Heating / Cooling operation mode
• Fault information

Piping and wiring length

50%–100% of outdoor unit capacity

Modbus Control
• Possible to control via a Modbus enabled RMS by using optional interface.

Specs

<table>
<thead>
<tr>
<th>EEV unit</th>
<th>UTP-VX30A</th>
<th>UTP-VX60A</th>
<th>UTP-VX90A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>kW (V)</td>
<td>5.0</td>
<td>6.3</td>
</tr>
<tr>
<td>Connectable capacity classes</td>
<td>kW</td>
<td>5.0</td>
<td>6.3</td>
</tr>
<tr>
<td>Capacity</td>
<td>kW</td>
<td>5.0</td>
<td>6.3</td>
</tr>
<tr>
<td>Airflow rate (Reference value)</td>
<td>m³/h</td>
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<td>Weight</td>
<td>kg</td>
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</table>

Note: Specifications are based on the following conditions:
Cooling : Indoor temperature of 27°C / 25°C, and outdoor temperature of 35°C/25°C
Heating : Indoor temperature of 20°C / 25°C, and outdoor temperature of 5°C/10°C
Piping length : 7.5 m  Voltage : 230V [Δ]
User friendly control system provides individual control to centralized control

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

### BEST CONTROL SOLUTION FOR EACH PROPERTY

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<td><strong>Integrating Central (Interface)</strong></td>
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</tr>
<tr>
<td>Wired Remote Controller</td>
<td>Group Remote Controller</td>
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<td>System Controller</td>
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</tbody>
</table>

- Automatic control of AC (Cooling, Heating, Ventilation etc.)
- Centralized control for staff (Cooling, Heating, Ventilation etc.)
- Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)
- Remote Management
- Local control for hotel guests
- Centralized control for hotel guests
- Limited control for hotel guests
- Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)
- Monitor energy consumption
- Centralized third party products
- Integrate FGL A/C into BMS

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</table>

- Automatic control of AC (Cooling, Heating, Ventilation etc.)
- Centralized control for management
- Remote Management
- Energy Charge Apportionment
- Monitor energy consumption
- Centralized third party products
- Integrate FGL A/C into BMS

<table>
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</table>

- Automatic control of AC (Cooling, Heating, Ventilation etc.)
- Centralized control for management
- Remote Management
- Energy Charge Apportionment
- Monitor energy consumption
- Centralized third party products
- Integrate FGL A/C into BMS
- Interlock with door contact
- Interlock with human sensor for meeting room

---

AIRSTAGE™ Control Systems

**BEST CONTROL SOLUTION FOR EACH PROPERTY**

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

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-RNXYZ3

- Wired Remote Controller
  UTY-BRLY

- Simple Remote Controller
  UTY-BRXY
  UTY-BHRY
  Without operation mode

- Wireless Remote Controller
  UTY-LMYH

- IR Receiver Unit
  UTY-JWYC
  For Duct type
  UTY-JRBY1
  For 3D Flow Cassette
  UTY-BLHD
  For Circular Flow Cassette

Air Conditioning

Centralized Control

- System Controller
  UTY-APGXYZ1 / UTY-ALGXYZ1 (Lite edition)

- Touch Panel Controller
  UTY-DTGYC1

- Central Remote Controller
  UTY-OCGXYZ1

- Group Remote Controller
  UTY-CGGY

- Network Converter
  For Group Remote Controllers
  UTY-VGGYXZ1

- External Switch Controller
  UTY-TERX

- MODBUS® Convertor
  UTY-VMGX

- BACnet® Gateway
  UTY-ABGXZ1

- KNX® Convertor
  UTY-VKSX
  UTY-VKGX

- Wireless LAN Interface
  UTY-TFSXZ1

- External Switch Controller
  UTY-TERX

- Network Converter (DC power supply)
  UTY-VTGY

- Network Converter (AC power supply)
  UTY-VTGYX

- Signal Amplifier
  UTY-VGEXZ1

Convertible / Adaptor

For external control via BMS / Home Automation Systems

- BMS/BAS *2
  UTY-VBGX

- USB Adaptor
  Echelon® U10 USB Network Interface

- BMS/BAS: Building Management System/Building Automation System

- *1 USB Adaptor: Echelon® U10 USB Network Interface

- *2 BMS/BAS: Building Management Systems/Building Automation Systems
## COMPARISON TABLE OF CONTROLLERS

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<tr>
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<td>UTY-RNRYZ3</td>
<td>UTY-RLRY</td>
<td>UTY-RSRY</td>
<td>UTY-RHRY</td>
<td>UTY-LNHY</td>
<td>UTY-CGGY</td>
<td>UTY-DCGYZ1</td>
<td>UTY-DTGYZ1</td>
<td>UTY-ALGXZ1</td>
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<td>Min. unit of timer setting (Minutes)</td>
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<td>Error history</td>
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<td>Emergency stop</td>
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<td>Display lock/Unlock function</td>
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</table>

*1 "Operation mode" setting is not available for this model.
*2 This function is available only through external input control.
*3 Only individual airflow batch reset is available.
*4 This function is available only when using wired remote controllers.
*5 Supported
*6 Optional function
*7 Not supported yet
Wired Remote Controller (Touch Panel)

FUNCTIONS

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

Various convenient functions
- Displays setting status and limitations in a large STN-LCD screen.
- The remote controller settings can be easily checked from the menu screen.

Accurate and comfortable control
- Room temperature can be detected accurately by the inclusion of a thermometer in the body of the wired controller.

Backlight
- Backlight enables 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
- Model name: UTY-RNY23
- Power Supply: DC 12V
- Dimensions (H x W x D): mm 120 × 120 × 20.4
- Weight: g 220
- DC12V is supplied by indoor unit.

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.

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

Various energy saving control
- Custom Auto
  - Maintains 2 separate set points for heating and cooling.
  - Automatically changes mode between heating and cooling.
  - This function is not available for some models.
  - Cooling set temp. 27°C, Heating set temp. 26°C

Auto Off Timer
- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the ‘Auto off timer’ can be flexibly scheduled.
- Can be set off time 30 to 240 minutes.

Temperature Changeover
- Set interval time (17:00 to 24:00)
- Ex: At interval time (17:00 to 24:00) to prevent forgetting to turn off
- Set off time: 1 hour

Set Temperature Auto Return
- The setting temperature automatically returns to the previous setting temperature.
- The time range in which the set temperature can be changed is 10 to 120 minutes.

Set Temperature Upper and Lower Limit Setting
- The set temperature range can be set for each operation mode.
  - (Cooling / Heating / Auto)
Wired Remote Controller

UTY-RLRY

- 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)

AIRSTAGE™ Control Systems Individual Controller

Simple Remote Controller

UTY-RSRY

UTY-RHSY (Without Operation mode)

Compact remote controller provides access to basic functions

- 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.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons.
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 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.

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.

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.

Set temperature auto return
- The setting temperature automatically returns to the previous 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>Function</th>
<th>UTY-RLRY</th>
<th>UTY-RSRY</th>
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<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12V</td>
<td>DC 12V</td>
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<tr>
<td>Dimensions (W x H x D)</td>
<td>130 x 80 x 21</td>
<td>126 x 75 x 21</td>
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<tr>
<td>Weight</td>
<td>170</td>
<td>170</td>
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</tbody>
</table>

DC12V is supplied by indoor unit.

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

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<tr>
<th>Function</th>
<th>UTY-RSRY</th>
<th>UTY-RHRY</th>
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<tr>
<td>Power Supply</td>
<td>DC 12V</td>
<td>DC 12V</td>
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<tr>
<td>Dimensions (W x H x D)</td>
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<td>126 x 75 x 21</td>
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<tr>
<td>Weight</td>
<td>170</td>
<td>170</td>
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</tbody>
</table>

DC12V is supplied by indoor unit.
Wireless Remote Controller

**UTY-LNHY**

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.)

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

**Wide and precise**

**IR Receiver Unit for Duct**

**UTY-YWC, UTY-TRHX**

Duct type indoor units can be controlled with Wireless Remote Controller
*Only Large Airflow Duct can be connected to R FOUR panel.
*Suitable for hotels or offices as it is easily operated with no complex functions.
*The wireless remote controller (Model: UTY-LNHY) is necessary separately.

**Functions**

**Wiring connection**

**IR Receiver Unit for Cassette**

**UTY-LRHBY1, UTY-LBHDXD, UTY-TRHX**

Cassette type indoor unit can be controlled with Wireless Remote Controller
*The wireless remote controller (Model: UTY-LNHY) is necessary separately

**Specifications**

**IR Receiver Unit for Cassette**

**UTY-LRHBY1, UTY-LBHDXD, UTY-TRHX**

Cassette type indoor unit can be controlled with Wireless Remote Controller
*The wireless remote controller (Model: UTY-LNHY) is necessary separately

**Specifications**
AIRSTAGE® Control Systems Centralized Controller

Group Remote Controller / Network Convertor

**UTY-CGGV / UTY-VGGXZ1**

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 UTY network system.
- Network Convertor is required to connect Group Remote Controllers to a UTY network system. (Network Convertor allows up to 4 Group Remote Controllers)
- 3-wire type

**Group Remote Controllers**

- **ortality Remote Controller**
  - **Office & Lounge**
  - **Restaurant**
  - **Lobby**

**Network Convertor**

- **UTY-VGGXZ1** For Group Remote Controller

### Functions

**Control up to 8 remote controller groups**

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

**Built-in weekly timers**

The weekly timer is provided as a standard function.

**High performance and compact size**

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

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-CGGV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12V</td>
</tr>
<tr>
<td>Dimensions (W x H x D) mm</td>
<td>120 × 120 × 18</td>
</tr>
<tr>
<td>Weight</td>
<td>200 g</td>
</tr>
</tbody>
</table>

**Network Convertor**

- **UTY-VGGXZ1** For Group Remote Controller

### Functions

**Easy operation**

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.

**Trouble support function**

Display error details, Display descriptive explanation when an error occurs

**Remote monitoring / Remote operation**

- New central remote controller can control your tenant’s air conditioner anytime and anywhere.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-CGGV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>100-240 V 50/60 Hz</td>
</tr>
<tr>
<td>Dimensions (W x H x D) mm</td>
<td>134.6 × 216.2 × 37.9</td>
</tr>
<tr>
<td>Weight</td>
<td>800 g</td>
</tr>
</tbody>
</table>

UTY-DGVY21

For small and medium sized buildings and tenants
- Individual control and monitoring of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

**New**

**UTY-DGVY21**

**Functions**

- The new central remote controller realizes an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.

**Trouble support function**

Display error details, Display descriptive explanation when an error occurs

**Remote monitoring / Remote operation**

- New central remote controller can control your tenant’s air conditioner anytime and anywhere.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-CGGV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12V</td>
</tr>
<tr>
<td>Dimensions (W x H x D) mm</td>
<td>97 × 205 × 21</td>
</tr>
<tr>
<td>Weight</td>
<td>1,500 g</td>
</tr>
</tbody>
</table>

UTY-VGGXZ1

**Group Remote Controllers**

- **Office & Lounge**
  - **Restaurant**
  - **Lobby**

**Network Convertor**

- **UTY-VGGXZ1** For Group Remote Controller

**Functions**

**Easy operation**

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.

**Trouble support function**

Display error details, Display descriptive explanation when an error occurs

**Remote monitoring / Remote operation**

- New central remote controller can control your tenant’s air conditioner anytime and anywhere.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-CGGV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>208-240V 50/60Hz, Single phase</td>
</tr>
<tr>
<td>Input power W</td>
<td>8.5</td>
</tr>
<tr>
<td>Dimensions (W x H x D) mm</td>
<td>67 × 288 × 211</td>
</tr>
<tr>
<td>Weight</td>
<td>1,500 DC12V is supplied by indoor unit.</td>
</tr>
</tbody>
</table>
**Touch Panel Controller**

**UTILITY-DTG1Z1**

- Large-sized 7.3-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Support 2 display types (Icon / List) in monitoring mode
- Supported 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

**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.

**Functions**

**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**

- Block A
- Block B
- In case of two blocks, it allows multiple indoor unit grouping
- Emergency stop control
- Air conditioners can be turned off through the external input control

**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 on only the remote device, and Touch Panel Controller cannot be added other languages.

**Electricity charge apportionment**

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.
- Apportionment bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation at cooling and heating
- Electricity meter supported
AIRSTAGE™ Control Systems Centralized Controller

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.

Various energy saving control

Custom Auto
   • Maintains 2 separate set points for heating and cooling.
   • Automatically changes mode between heating and cooling.
   * This function is not available for some models.

Refrigerant leakage detection function

The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.

FUNCTIONS SUMMARY

Air conditioning control function

<table>
<thead>
<tr>
<th>Function</th>
<th>UTY-01G5/1</th>
<th>Monitoring side</th>
</tr>
</thead>
<tbody>
<tr>
<td>On / Off</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Operation mode setting*</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Fan speed setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Room temp. setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Room temp. set point limitation</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Test operation</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Up/down air direction flap setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Left/Right air direction flap setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Individual louver control</td>
<td>⚫*1</td>
<td>⚫</td>
</tr>
<tr>
<td>Group setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Bit prohibition</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Anti-freeze setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Set temp. auto return</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Various energy saving control</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Economy mode setting</td>
<td>⚫</td>
<td>⚫</td>
</tr>
<tr>
<td>Human sensor control</td>
<td>⚫</td>
<td>⚫</td>
</tr>
</tbody>
</table>

Display

Error | ⚫ |
Defrosting | ⚫ |
Current time | ⚫ |
Day of week | ⚫ |
R.C. prohibition | ⚫ |
Cooling/heating priority | ⚫ |
Address display | ⚫ |
Room temp | ⚫*1 | ⚫*2 |
Multi-language | ⚫ |
Sunlight | ⚫ |
Enter zone setting | ⚫ |
Name registration | ⚫ |
Backlight | ⚫ |
Language setting | ? | +button |
Filter replacement | ⚫ |
Memory operation | ⚫ |
Refrigerant leakage detection function | ⚫ |

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-01G5/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>100-240V 50Hz, Single phase</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>mm</td>
</tr>
<tr>
<td>MIN.</td>
<td>250 × 246 × 54</td>
</tr>
<tr>
<td>MAX.</td>
<td>250 × 246 × 54</td>
</tr>
<tr>
<td>Weight</td>
<td>g</td>
</tr>
<tr>
<td>2.150</td>
<td></td>
</tr>
</tbody>
</table>

Comments: In cases of installation block, it can be used in Block (Tenant) A or Block (Tenant) B.
System Controller

**UTY-APCXZ1**

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, 1,600 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 Lite**

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 hierarchal structure, such as by section, division or department is possible.

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

When Modbus Adaptor (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.

**Diverse operation management & Data management**

**Schedule management**

- Annual schedules can be set for each remote controller group / user defined group.
- Starts/stops, 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.

**Error display & E-mail notification**

Error is notified with popup message, audible sound and E-mail real time when error occurs. Error for the past 1 year are logged and can be reviewed later.

**Data base import/export**

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

**Operating & control record**

Displays the history of operation status and control.

---

*Note: 2D floor layout / 3D building display are not available for System Controller Lite.*
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 rate 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.

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 communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program 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.

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.

Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to induce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.

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 central 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**

**Custom Auto Function**

Set the temperature to start cooling and the temperature to start heating, and perform the cooling/heating operation according to the room temperature. When the room temperature is between the cooling set temperature and the heating set temperature, since air conditioning is not performed, energy saving performance is improved.

Cooling set temp. 28°C, Heating set temp. 18°C

**Refrigerant leakage detect function**

The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.

**Error Display**

Error is notified with popup message, audible sound and real time e-mail when error occurs. Error for the past year are logged and can be reviewed later.

**Operating & control record**

Displays the history of operation status and indications.

**Energy saving function**

Energy saving operation considering comfort by economy setting, temperature set point limitation, etc.

---

**Personal computer system requirements**

The required PC specifications are shown in the following table.

---

**About System Controller Lite**

- **For System controller**
- **For System controller Lite**

**Operating system**

- Microsoft® Windows® 10 Home (32-bit or 64-bit) SP1
- Microsoft® Windows® 10 Professional (32-bit or 64-bit) SP1
- Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit)
- Microsoft® Windows® 7 Home (32-bit or 64-bit), Windows® 7 Pro (32-bit or 64-bit)

**Supported languages**

- English, Chinese, French, German, Russian, Spanish, and Polish

**Model name**

<PACKING LIST>

‡(FKHORQŠ886%1HWZRUN,QWHUIDFH²73)7&KDQQHO0RGHO QXPEHU5`

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.

**Interface**

- Ethernet port (for getting access to the Internet using LAN)
- USB port (for USB device connection)

**Displays**

- 15 inch (38.1 cm) color touch panel

**Software**

- Microsoft® Excel® 2003 compatibility

---

For System controller Lite

- Support for SD Memory Card (SDHC class 4)
- Support for a USB Network Interface (EHL-USB interface is supported for each VRF network clim)

**For System controller**

- Support for SD Memory Card (SDHC class 4)
- Support for a USB Network Interface (EHL-USB interface is supported for each VRF network clim)

**Model name**

<table>
<thead>
<tr>
<th>Type</th>
<th>System controller</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>System controller</td>
<td>EHL-MP4021</td>
<td>EHL-MP4021</td>
</tr>
<tr>
<td>System controller Lite</td>
<td>EHL-MP4021</td>
<td>EHL-MP4021</td>
</tr>
</tbody>
</table>

---
BACnet® Gateway

**UTY-ABGX1**
- It is possible to connect medium to large-sized BMS to VRF network systems via BACnet®, a global standard for open networks.
- A maximum of 1000 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 systems from BMS via BACnet® Gateway.
- Suitable for BACnet®® (ISO/ASHRAE 135-2014) application specific controller (B-ASC).
- Compatible with BACnet®® over Ethernet.
- Centralized control functions as well as Electric Quantity Change Apportionment functions are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

**Functions**

**Installation example**

---

**BACnet® Operator Workstation (B-OWS)**

- Lightning facilities
- Security system
- Automatic fire alarm interface
- Ventilation system

**UTY-ABGX1** Software Protection Key

- USB adaptor (field supplied)
- USB adaptor (field supplied)

---

**Personal computer system requirements**

**UTY-ABGX1**

- Operating system:
  - Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1
  - Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit)
  - Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
- CPU:
  - Intel®-based or AMD®-based processor
- Memory:
  - 2 GB or more for Windows® 7 (32-bit)
  - 4 GB or more for Windows® 8.1 (32-bit), Windows® 8.1, and Windows® 10
- Hard disk:
  - 2 GB or more of free space
- Display:
  - 1024 x 768 or higher resolution
- Ethernet port:
  - Ethernet port for getting access to the Internet using LAN
- USB port:
  - Minimum of 5 ports (required for BACnet®® application specific controller)
- Software:
  - Microsoft® Internet Explorer 9 or later

**Network Convertor for LONWORKS®**

**UTY-VBGX**
- BACnet® Gateway enables to connect a BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet®® (ISO/ASHRAE 135-2014) application specific controller (B-ASC).
- Compatible with BACnet®® over Ethernet.

**Functions**

**Installation example**

---

**Network Convertor for LONWORKS®**

- General purpose building control computer (Lonworks® device)
- Automatic fire alarm interface
- Lighting facilities
- Security system
- Ventilation system

---

**Specifications**

Model name: UTY-VBGX
- Model name: UTY-VBGX
- Number of controllable indoor units: 128
- Number of controllable refrigerant network: 32
- Number of controllable VRF network: 1
- Number of connectable units / one VRF network: 4
- Dimensions (H x W x D) mm: 211 x 288 x 67
- Weight: 1,280

---

**Network Convertor for LONWORKS®**

**UTY-VLWX**
- For connection between VRF network system and a LONWORKS® open-network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLWX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 indoor units can be connected to one Network Convertor for LONWORKS®

**Functions**

**Installation example**

---

**Network Convertor for LONWORKS®**

- General purpose building control computer (Lonworks® device)
- Lighting facilities
- Security system
- Automatic fire alarm interface

---

**Specifications**

Model name: UTY-VLWX
- Power Supply: 100-240VAC, single phase
- Dimensions (H x W x D): 176 x 270.4 x 59.6
- Weight: 5 kg

---

**Power Consumption**

Model name: UTY-VLWX
- Power Consumption: 4.6 W (max)
- Dimensions (H x W x D): 176 x 270.4 x 59.6
- Weight: 5 kg
MODBUS® Convertor

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

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VMGX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>220-240V 50/60Hz</td>
</tr>
<tr>
<td>Input power W</td>
<td>Max. 2</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>1,100</td>
</tr>
</tbody>
</table>

MODBUS® Interface

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

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>93 x 53 x 58</td>
</tr>
<tr>
<td>Weight g</td>
<td>85</td>
</tr>
</tbody>
</table>

KNX® Convertor (for VRF)

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 FJ/VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to one KNX Convertor.

Functions

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VKX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>220-240V 50/60Hz</td>
</tr>
<tr>
<td>Input power 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

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

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>93 x 53 x 58</td>
</tr>
<tr>
<td>Weight g</td>
<td>85</td>
</tr>
</tbody>
</table>

* BMS : Building Management System
AIRSTAGE™ Control Systems Convertor / Adaptor

Wireless LAN Interface

**UTY-TFSXZ1**

- It is the most advanced solution to remotely manage an Air Conditioning system using all sorts of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units

**Functions**

**Basic control**

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Lower position (Airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting

**Multiple air conditioning management**

- Multi system

**Error display & E-mail notification**

- Alerts e-mail notification
- Air conditioning malfunction display
- Enables rapid service response when error occurs.

**Network Convertor**

**UTY-VTGX (DC power supply type)**

**UTY-VTGVX (AC power supply type)**

Compact remote controller provides access to basic functions

- The network converters 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

**Functions**

**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.

**Specifications**

**Model name**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-TFSXZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>UTY-VTGX</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC230V</td>
</tr>
</tbody>
</table>
External Switch Controller

**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 hotels rooms.
- Card-key or other sensor switches are available as a locally purchased parts.
- 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>Power Supply</th>
<th>Dimensions (H x W x D) mm</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TERX</td>
<td>DC 6.5-16V</td>
<td>140 × 117 × 43</td>
<td>250</td>
</tr>
</tbody>
</table>

DC12V is supplied by indoor unit.

---

**Signal Amplifier**

**UTY-VSGXZ1**

- Transmission Line length can be extended up to 1,600m with multiple Signal Amplifiers.
- Up to 64 signal amplifiers can be installed in a YKF 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**

Human sensor equipment needs to be purchased locally. The above example indicated that a signal is sent to the External Switch Controller if human sensor is not mounted on the External Switch Controller.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power Supply</th>
<th>Dimensions (H x W x D) mm</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VSGXZ1</td>
<td>208-240V 50/60Hz, Single phase</td>
<td>67 × 288 × 211</td>
<td>1,500</td>
</tr>
</tbody>
</table>
OPTIONAL PARTS OVERVIEW

Various optional parts are provided to install the selected indoor unit properly according to the environment.

**Human Sensor Kit**
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor.

**Cassette Grille**
Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.

**Fresh Air Intake Kit**
Fresh air can be taken in by a fan which can be connected using external control unit.

**Insulation for High Humidity**
For Compact Cassette type/Cassette type Insulation for High Humidity is used when the installation location is in the high humidity environment.

**Air Outlet Shutter Plate**
According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.

**Wide Panel**
When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.

**Panel Spacer**
When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration.

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

**Auto Louver Grille Kit**
Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior.

**Long Life Filter**
Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.

**Flange**
Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.

**Drain Pump Unit**
This device can drain the collected water during operation.

**Communication Kit**
For wall mounted type, this kit is required when External Connect kit & Set or wired remote controller is connected to indoor unit.

**External Input and Output PCB**
For Wall mounted, Duct, or Cassette type, these parts are required when external input and output function is used.

**Connection Units**
Connection units are provided to separate the pipes at the connection of multiple indoor units in Multi type or VRF system.

**External Power Supply Unit**
External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

**External Connect Kit & Set**
These wires can connect between the product PCB and external device.

**Half Concealed Kit**
This kit is used to half conceal floor type indoor unit into the wall.
External Power Supply Unit

Models
UTZ-GXXA

Feature
High Reliability
• A: Main power shut down can be detected at power shut down detection part.
• B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
• C: Power supply from External Power Supply Unit is not used.

Specifications
Model name UTZ-GXXA
Power Supply AC 24V 50/60Hz, single phase
Dimensions (H × W × D) mm 65 × 186 × 178
Weight kg 500

Auto Louver Grille Kit

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

Feature
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.

Specifications
Model name UTD-GXTA-W UTD-GXTB-W UTD-GXTC-W
Applicable Indoor Unit ARD28WNSLJ ARD28WNSLJ ARD28WNSLJ
Dimensions (H × W × D) mm 180 × 683 × (84+9) 180 × 883 × (84+9) 180 × 1083 × (84+9)
Weight kg Net 2.0 2.5 3.0
Gross 3.0 3.5 4.0
Color White
Louver Motor Stepping Motor
Accessories Fitting Flame, etc.

Note
• When changing the power supply voltage to AC24V, use a power transformer with an insulation structure equivalent to CLASS2.
• Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

Dimensions
Model name Unit mm
UTD-GXTA-W 180 148 9 84
UTD-GXTB-W 180 148 9 84
UTD-GXTC-W 180 148 9 84
## CONTROL SYSTEMS LIST

<table>
<thead>
<tr>
<th>Controllers / Interface</th>
<th>Refrigerant</th>
<th>Indoor unit</th>
<th>Cassette</th>
<th>Duct</th>
<th>Floor</th>
<th>Ceiling/ Floor</th>
<th>Wall Mounted</th>
<th>3D Flow</th>
<th>Compact</th>
<th>Grid type</th>
<th>Standard</th>
<th>Circular Flow</th>
<th>(Large)</th>
<th>Mini</th>
<th>(With drain pump)</th>
<th>Circular Flow</th>
<th>(Slim)</th>
<th>EEV external</th>
<th>EEV external</th>
<th>EEV external</th>
<th>EEV external</th>
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<tbody>
<tr>
<td>AIRSTAGE™ Optional Parts</td>
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<tr>
<td>External Switch Controller</td>
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</tbody>
</table>

**Note:** Please refer to the image for specific details and codes.
## AIRSTAGE™ Optional Parts

### Optional Parts List

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Type Code</th>
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<tbody>
<tr>
<td>Optional Parts</td>
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<tr>
<td>Cassette Grille</td>
<td>UTG-USYA-W</td>
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<tr>
<td></td>
<td>UTG-UKYA-B</td>
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<td>UTG-UKYC-W</td>
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<tr>
<td></td>
<td>UTG-UFYC-W</td>
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<tr>
<td></td>
<td>UTG-UFYE-W</td>
</tr>
<tr>
<td>Auto Louver Grille Kit</td>
<td>UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24)</td>
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<tr>
<td>Long Life Filter</td>
<td>UTD-LF25NA (018)</td>
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<td>UTD-LF60KA (45/60/036)</td>
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<td>UTD-LF25NA (024/030)</td>
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<tr>
<td>Flange</td>
<td>UTD-SF045T (018)</td>
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<td>UTD-RF204 (018)</td>
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<td>Drain Pump Unit</td>
<td>UTR-DPB24T</td>
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<tr>
<td>Wide Panel Indoor unit</td>
<td>UTG-AKXA-W</td>
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<tr>
<td>Panel Spacer</td>
<td>UTG-BKXA-W</td>
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<tr>
<td>Fresh Air Intake Kit*1</td>
<td>UTZ-VXAA</td>
</tr>
<tr>
<td></td>
<td>UTZ-VXRA</td>
</tr>
<tr>
<td>Air Outlet Shutter Plate</td>
<td>UTR-YDZB</td>
</tr>
<tr>
<td></td>
<td>UTR-YDZK</td>
</tr>
<tr>
<td>Insulation for High Humidity</td>
<td>UTZ-KXGC</td>
</tr>
<tr>
<td></td>
<td>UTZ-KXRA</td>
</tr>
<tr>
<td>Half Concealed Kit</td>
<td>This kit is used to half unit into the wall.</td>
</tr>
<tr>
<td>External Power Supply Unit</td>
<td>UTZ-GXXA</td>
</tr>
</tbody>
</table>

*1 For Compact Cassette Type/Cassette Type
## CONTROL SYSTEM PARTS

### Controllers

#### For Individual Control
- **Wired Remote Controller (Touch Panel)**
  - UTY-SNYVZ3
- **Wired Remote Controller**
  - UTY-SRLY
- **Simple Remote Controller**
  - UTY-RSRY
  - With operation mode
- **Simple Remote Controller**
  - UTY-RHRY
  - Without operation mode
- **Wireless Remote Controller**
  - UTY-LNRY
- **IR Receiver Unit**
  - UTY-TRHY
  - For All Flow Cassette type/Duct type
- **IR Receiver Unit**
  - UTY-YWZ
  - For All Duct types except Large Airflow Duct(Large type)
- **Human Sensor Kit**
  - UTY-SNQZC
  - For Circular Flow Cassette type
- **Simple Remote Controller**
  - UTY-SRLY
- **Wired Remote Controller**
  - UTY-SRLY
- **Simple Remote Controller**
  - UTY-RSRY
  - With operation mode

#### For Centralized Control
- **Group Remote Controller**
  - UTY-CGZV
- **Central Remote Controller**
  - UTY-DCZCZV
- **Touch Panel Controller**
  - UTY-DGZCZV
- **System Controller Lite**
  - UTY-ALCZ1
  - WHITE-USB-KEY
  - (Software Protection Key)
- **System Controller**
  - UTY-APCZ1
  - WHITE-USB-KEY
  - (Software Protection Key)

### Converters / Adaptors

#### For External device
- **BACnet® Gateway**
  - UTY-ABGZ1
  - WHITE-USB-KEY
  - (Software Protection Key)
- **Network Converter**
  - UTY-VGZC
  - for Condereos™
  - UTY-VGZC
- **MODBUS® Convertor**
  - UTY-VMGZ
  - for VRF
- **KNX® Convertor for VRF**
  - UTY-VKQZ
- **Network Convertor**
  - UTY-VTGZV
  - for single split
  - DC power supply type
- **Network Converter**
  - UTY-VTGZV
  - for single split
  - AC power supply type
- **Network Convertor**
  - UTY-VGQZ
  - for Group Remote Controller

#### For System expansion
- **Network Converter**
  - UTY-VGQZ
  - for single split
  - DC power supply type
- **Network Converter**
  - UTY-VGQZ
  - for single split
  - AC power supply type
- **Network Conveter**
  - UTY-VGQZ
  - for Group Remote Controller

#### Adaptors
- **BACnet® Gateway**
  - UTY-ABGZ1
  - WHITE-USB-KEY
  - (Software Protection Key)
- **Network Converter**
  - UTY-VGZC
  - for Condereos™
  - UTY-VGZC
- **MODBUS® Convertor**
  - UTY-VMGZ
  - for VRF
- **KNX® Convertor for VRF**
  - UTY-VKQZ
- **Network Convertor**
  - UTY-VTGZV
  - for single split
  - DC power supply type
- **Network Converter**
  - UTY-VTGZV
  - for single split
  - AC power supply type
- **Network Convertor**
  - UTY-VGQZ
  - for Group Remote Controller

#### Adaptors
- **BACnet® Gateway**
  - UTY-ABGZ1
  - WHITE-USB-KEY
  - (Software Protection Key)
- **Network Converter**
  - UTY-VGZC
  - for Condereos™
  - UTY-VGZC
- **MODBUS® Convertor**
  - UTY-VMGZ
  - for VRF
- **KNX® Convertor for VRF**
  - UTY-VKQZ
- **Network Convertor**
  - UTY-VTGZV
  - for single split
  - DC power supply type
- **Network Converter**
  - UTY-VTGZV
  - for single split
  - AC power supply type
- **Network Convertor**
  - UTY-VGQZ
  - for Group Remote Controller

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AIRSTAGE™ Optional Parts

CONTROL SYSTEM PARTS

Others

Flange (Round)  UTG-FD304  For Medium Static Pressure Duct type / Ceiling type

Flange (Square)  UTG-SFD65T  For Medium Static Pressure Duct type

Remote Sensor Unit  UTG-XSXX  For all Duct type

New warranty period can be applied by installing the remote sensor.

Flange (Round)  UTG-LF62XK  For High Static Pressure Duct type

Auto Louver Grille Kit  UTG-CL64X  For Medium Static Pressure Duct type / Ceiling type / RQJ/LIH)LOWHU

UTD-LF60KA UTD-LF60KA

For Medium Static Pressure Duct type

For High Static Pressure Duct type

Drain Pump Unit  UTD-PX1BBA  For Low Static Pressure Duct type

UTD-PX1NBA  For Medium Static Pressure Duct type

Wide Panel  UTG-AKXW  For Cassette type

Panel Spacer  UTG-OGXW  For Cassette type

Fresh Air Intake Kit  UTG-VXAA  UTG-VXRA

For Compact Cassette type

For Cassette type

Insulation Kit  UTG-KXRA  For High Humidity

For Cassette type

For Compact Cassette type

Air Outlet Shutter Plate  UTR-YDXB  For Compact Cassette type

Shuts the air outlet when only using an 3 blow out.

Air Outlet Shutter Plate  UTR-YDXX  For Cassette type

Shuts the air outlet when only using an 3 blow out.

Flare Pump Unit  UTR-SPRXA  For Ceiling type

Half Concealed Kit  UTR-SPRXA  For Ceiling type

This kit is used to half conceal floor type indoor unit into the wall.

External Power Supply Unit  UTY-XSXXA  For All type

Panels

Cassette Grille  UTY-UFYX-W  For Compact Cassette type

Cassette Grille  UTY-UGYX-B  For Circular Flow Cassette type

Cassette Grille  UTY-ULYX-W  For Cassette type

Cassette Grille  UTY-ULYX-B  For Circular Flow Cassette type

Cassette Grille  UTY-ULYX-W  For Cassette type

Communication system: External Connect Kit

For Indoor unit  UTY-XWZX7  UTY-XWZX2D

For Outdoor unit  UTY-XWZX2B

For RB unit  UTY-XWZX6

For Central Remote Controller  UTY-XWZX7  UTY-XWZX2B

For Touch Panel Controller  UTY-XWZX2A

Panels

Cassette Grille  UTY-UFYX-W  For Compact Cassette type

Cassette Grille  UTY-UGYX-B  For Circular Flow Cassette type

Cassette Grille  UTY-ULYX-W  For Cassette type
## FUNCTION LIST

### External Input and Output Function/External Connect Kit/Communication Kit

<table>
<thead>
<tr>
<th>Type</th>
<th>Refrigerant</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Controller</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>B4RM</td>
<td></td>
<td>Indoor unit</td>
<td>Outdoor unit</td>
<td>Controller</td>
<td>Other</td>
</tr>
</tbody>
</table>

**Optional Parts**

- **External Input and Output Function**
  - **Input**
    - Operation / Stop
    - All On / All Off
    - Batch Stop
    - Forced Stop
    - Emergency Stop
    - Forced Thermostat off
    - Low Noise Mode Operation
    - Cooling/Heating Priority
    - Outdoor Unit Operation Peak Control
    - Power Usage Information from Electricity Meter
  - **Output**
    - Operation Status
    - Error Status
    - Indoor Unit Fun Operation Status
    - Auxiliary Heater Output
    - Base Heater

- **Communication Kit**

- **External Connect Kit**

---

**Notes**

- *2: 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.*

---

**R410A**

- AUXS 018/024
- GLEH

- AUXB 004/007/009/012/014/018/024
- GLEH

- AUXN 009/012/014
- GLAH, AUXM 018/024/030
- GLEH, AUXK 018/024/030/034/036/045/054
- GLEH

- ARXK 004/007/009/012/014/018/024
- GLEH

- ARXD 007/009/012/014/018/024
- GLEH, ARXD

- ARXN 009/012/014
- GLBH, ARXN 024/030/036
- GLEH, ARXN

- ARXN 018/024/030/034/036/045/054
- ATH

- AGYA 004/007/009/012/014
- GCEH

- AGYE 004/007/009/012/014
- GCEH

- ABYA 012/014/018/024
- GTEH

- ABYA 030/036/045/054
- GTEH

- ASYA 004/007/009
- GTEH, ASYA 012/014
- GCEH

- ASYE 004/007/009
- GTEH, ASYE 012/014
- GCEH

- ASYA 18/24/30/34/36/45
- GBCH

- ASYA 030/034
- GTEH

- AJY 072/090/108/126/144/162
- LELAH

- AJY 040/045/054
- LBLAH, AJY 040/045/054

- AJY 040/045/054
- LNLBH

- AJYA 072/090/108/126/144/162
- GALH

- UTY-DCGYZ1 UTY-DTGYZ1
- UTP-RX01AH UTP-RX01BH

---

**Input Operation / Stop**

- UTY-XWZXZD
- UTY-XWZXZB

**Input All On / All Off**

- UTY-XWZXZ7
- UTY-XWZXZ8

**Input Batch Stop**

- UTY-XWZXZ6

**Input Forced Stop**

- UTY-XWZXZD
- UTY-XWZXZB

**Input Emergency Stop**

- UTY-XWZXZD
- UTY-XWZXZB

**Input Forced Thermostat off**

- UTY-XWZXZE

**Input Low Noise Mode Operation**

- UTY-XWZXZ6

**Input Cooling/Heating Priority**

- UTY-XWZXZ6

**Input Outdoor Unit Operation Peak Control**

- UTY-XWZXZ6

**Input Power Usage Information from Electricity Meter**

- UTY-XWZXZF

**Output Operation Status**

- UTY-XWZXZC

**Output Error Status**

- UTY-XWZXZC

**Output Indoor Unit Fun Operation Status**

- UTY-XWZXZC

**Output Auxiliary Heater Output**

- UTY-XWZXZC

**Output Base Heater**

- UTY-XWZXZC

---

*Dry Contact vs. Apply Voltage: 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.*
AIRSTAGE™ Optional Parts

SEPARATION TUBE etc.

### Connection Units

**Separation Tube**
- UTP-AX054A: Gas Pipe, Liquid Pipe
- UTP-AX105A: Gas Pipe, Liquid Pipe
- UTP-AX180A: Gas Pipe, Liquid Pipe
- UTP-AX567A: Gas Pipe, Liquid Pipe

### Specifications

#### Separation Tube
- **Model name**: UTP-AX054A
  - Total cooling capacity of indoor unit: 19.6 kW or less
- **Model name**: UTP-AX105A
  - Total cooling capacity of indoor unit: 28.0 kW or less
- **Model name**: UTP-AX180A
  - Total cooling capacity of indoor unit: 28.1 to 56.0 kW
- **Model name**: UTP-AX567A
  - Total cooling capacity of indoor unit: 56.1 kW or more

#### Header
- **Model name**: UTR-H0906L / UTR-H1806L
  - Number of Outdoor units: 3
- **Model name**: UTR-J0906A / UTR-J1806A
  - Number of Outdoor units: 3
- **Model name**: UTR-J0908A / UTR-J1808A
  - Number of Outdoor units: 3

#### Outdoor Unit Branch Kit
- **Model name**: UTP-CX567A
  - Total cooling capacity of indoor unit: 28.0 kW or less
- **Model name**: UTP-DX567A
  - Total cooling capacity of indoor unit: 28.1 to 56.0 kW
- **Model name**: UTP-EX567A
  - Total cooling capacity of indoor unit: 56.1 kW or more

#### EV Kit
- **Model code**: 09: UTR-EV09XB
- **Model code**: 12: UTR-EV14XB

#### RB Unit
- **Model code**: 09: UTR-RX09AH
- **Model code**: 12: UTR-RX12AH
- **Model code**: 16: UTR-RX21AH

### Header
- **Model name**: UTR-H0906L
  - Total cooling capacity of indoor unit: 28.0 kW or less
- **Model name**: UTR-H1806L
  - Total cooling capacity of indoor unit: 28.1 to 56.0 kW

### Outdoor Unit Branch Kit
- **Model name**: UTR-CX567A
  - Total cooling capacity of indoor unit: 28.0 kW or less
- **Model name**: UTP-DX567A
  - Total cooling capacity of indoor unit: 28.1 to 56.0 kW
- **Model name**: UTP-EX567A
  - Total cooling capacity of indoor unit: 56.1 kW or more

### EV Kit
- **Model name**: UTR-EV09XB
- **Model name**: UTR-EV12XB

### RB Unit
- **Model name**: UTR-RX09AH
- **Model name**: UTR-RX12AH
- **Model name**: UTR-RX21AH

### Additional Information
- In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0 kW.
Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>AIRSTAGE™ SUPPORT</td>
<td></td>
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</tr>
<tr>
<td>AIRSTAGE™ / RAC SUPPORT TOOL</td>
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<tr>
<td>QUICK SERVICE &amp; MAINTENANCE</td>
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<tr>
<td>SERVICE TOOL</td>
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<tr>
<td>WEB MONITORING TOOL</td>
<td></td>
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</tr>
</tbody>
</table>

Product Training
- Product Information Seek
- Technical Information Seek
- Model Selection
- Design
- Verification
- Installation
- Other Sales and Service
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 AIRSTAGE™ 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
**AIRSTAGE™ /RAC SUPPORT TOOL**

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’ll 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 DFX 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 Android products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF, AHW, FGAir, ESZ calculation of allowable refrigerant capacity).

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

UTY-ASGXZ1

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 adaptor (locally purchased)

* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
  - UTY-HGRIPF1 (JIS) (Service Tool)
  - UTY-HG (Data Monitoring Tool)

Functions

System Overview

VRF System

Service Tool (UTY-ASGXZ1)

Monitoring Side

Automatic operation check for refrigeration cycle

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.

Remote technical support & maintenance

On-site check screen can be shared with the skilled person in a distant place. When visiting for troubleshooting on site, operation status can be shared in real time and get assistance easily. Online chat function helps to support on site staff.

Various trend graph display

Previously, only 3 kinds of each sensor value can be displayed. However, multiple graphs can be displayed in new Service Tool depending on the situation. The refrigeration cycle can be checked in detail.

Refrigerant leakage detect Function

Function summary

<table>
<thead>
<tr>
<th>Function</th>
<th>UTY-ASGXZ1</th>
<th>UTY-ASGFX2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rechargeability of equipment</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Indication of equipment list</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Operation check</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Indication of refrigerant circuit diagram</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Commissioning tool</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Storage and 5 steps of operating factors (Sensor list)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Indication of trend graph</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Printing of trend graph</td>
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<td>○</td>
</tr>
<tr>
<td>Monitoring and control display of abnormalities</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Fully automatic output of alarm notifications</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Network Topology Analyzer</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Remote setting</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Access to IP address</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Remote control</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Model Name Writer</td>
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<td>○</td>
</tr>
<tr>
<td>Date/Time Writer</td>
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<tr>
<td>View ISDN information</td>
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</tr>
<tr>
<td>Automatic operation check for refrigeration cycle</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Many different kinds of graph display</td>
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<td>○</td>
</tr>
<tr>
<td>Automatic update of software</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Alarm output for sensor control function</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Display of status values control function</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Refrigerant leakage detect function (European only)</td>
<td>○</td>
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</tr>
</tbody>
</table>

Personal computer system requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>UTY-ASGXZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows® 7 Professional (32-bit or 64-bit) SP1</td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Core i5 or higher</td>
</tr>
<tr>
<td>Memory</td>
<td>4 GB or more (for Windows® 7 (32-bit), Windows® 8.1 (32-bit), and Windows® 10 (32-bit)), 8 GB or more (for Windows® 8 (32-bit), Windows® 8.1 (64-bit), and Windows® 10 (64-bit)</td>
</tr>
<tr>
<td>HDD</td>
<td>80 GB or more of free space</td>
</tr>
<tr>
<td>Display</td>
<td>1920 x 1080 at higher resolution</td>
</tr>
<tr>
<td>Interface</td>
<td>USB port for USB/ISDN network interface and software protection key</td>
</tr>
<tr>
<td>Software</td>
<td>Internet Explorer® 11 or Microsoft® Edge</td>
</tr>
</tbody>
</table>

Note:
- "ISDN" is the ISDN network interface for ISDN (ISDN channel number / ISDN channel). (Required for ISDN ISDN network interface)

<PACKING LIST>

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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</thead>
<tbody>
<tr>
<td>USB</td>
<td>1</td>
</tr>
<tr>
<td>Software protection key</td>
<td>1</td>
</tr>
</tbody>
</table>

*Personal computer that satisfies the following system requirements.
WEB MONITORING TOOL

UTY-AMGXZ1

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.

*1: Use of internet mail system required.

Functions

Web Monitoring System

System components

Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.

Supported Software

Support

Function summary

VRF Network System Side

Indoor unit

Max. 400

VRF Network System Side

Indoor unit

Max. 400

VRF Network System Side

Indoor unit

Max. 400

VRF Network System Side

Indoor unit

Max. 400

Internet

Support for VRF network systems

Personal computer system requirements

VRF Network System Side

Personal computer

USB adaptors

Web Monitoring Tool

Indoor unit

USB adaptors

Indoor unit

USB adaptors

Indoor unit

USB adaptors

Indoor unit

Personal Computer

USB adapter (Locally purchased)

Software

UTY-AMGXZ1

Internet

Support

Software

Network Topology Analyzer

Remote Setting

System Time Setting

Central Release

Model Name Writer

Time Guard Information

Automatic operation check for refrigeration cycle

Many different kinds of graph display

Automatic updating of software

Problem Data function

Display of Fault tracing control function

Display of alarm trace control function

Refrigerant leakage detect function (Remote only)

Refrigerant leakage detect Function

Custom Auto Function

Customer Auto-operation display

Customer Auto-setting

<PACKING LIST>

Name and shape Quantity Application

Software protection key 1 Software protection key to be connected to USB port on the Service tool included. (Required for each VRF Network.)

Internet Explorer 11 or Microsoft Edge

Personal computer that satisfies the following system requirements.

UTY-AMGXZ1

VRF Network System Side

Intended for use with VRF Network System Side monitoring.

VRF Network System Side

Transmission line

Web Monitoring Tool

Indoor unit

USB adaptors

Indoor unit

USB adaptors

Indoor unit

USB adaptors

Indoor unit

Support

Software

Network Topology Analyzer

Remote Setting

System Time Setting

Central Release

Model Name Writer

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Name and shape Quantity Application

Software protection key 1 Software protection key to be connected to USB port on the Service tool included. (Required for each VRF Network.)

Internet Explorer 11 or Microsoft Edge

Personal computer that satisfies the following system requirements.

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Transmission line

Web Monitoring Tool

Indoor unit

USB adaptors

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VRF Network System Side

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Web Monitoring Tool

Indoor unit

USB adaptors

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Internet Explorer 11 or Microsoft Edge

Personal computer that satisfies the following system requirements.

UTY-AMGXZ1

VRF Network System Side

Intended for use with VRF Network System Side monitoring.

VRF Network System Side

Transmission line

Web Monitoring Tool

Indoor unit

USB adaptors

Indoor unit

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Customer Auto-setting

<PACKING LIST>

Name and shape Quantity Application

Software protection key 1 Software protection key to be connected to USB port on the Service tool included. (Required for each VRF Network.)

Internet Explorer 11 or Microsoft Edge

Personal computer that satisfies the following system requirements.