The FUJITSU GENERAL Way

Our mission
Living together for our future
Through innovation and technology, we deliver a brighter future with peace of mind to our customers and societies around the world.

Our philosophy
Act spontaneously
We embrace new challenges by investing in ourselves for personal growth, and through continuous creativity with a spontaneous attitude.

Develop our team
We respect and value our people, and optimize their abilities through fostering culture and diversity, and utilizing a collaborative effort focused on communication.

Value integrity
To achieve our goals, we always act with integrity and shared ethics.

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OUR MESSAGE

We create comfortable lives for people around the world with "made-in-Japan quality" and innovative manufacturing.
Sustainable management

We see the challenge of expanding our business by contributing to the realization of a sustainable society as a core element of our growth strategy, and we are working on "sustainable management," based on the three pillars of "harmonious coexistence with our planet," "social contribution," and "care for employees."

Basic policy on sustainable management

The sustainable development goals (SDGs) of the UN will drive business creation in the coming years. The key principle of the SDGs, "Leave no one behind," is synonymous with our own corporate philosophy of "Living together for our future." The promotion of sustainable management is carried out from a medium- to long-term perspective, with a promise to shape a sustainable society for the children and society of the future. We will pursue business growth by accelerating this transformation.

Key Initiatives

**Planet (Harmonious coexistence with our planet)**
- Contributing to global warming mitigation measures
- Contributing to a circulating society

**Sustainable consumption**
- Design to shelf resources
- Reduce waste
- Efficient use of resources

**Environmental protection**
- Manage harmful substances
- Maintain forests
- Protect rare plants

**Build a healthy workplace**
- Promote health management
  - Occupational safety and health
- Technical Academy of AC
- 1-on-1 meeting

**Develop human resources to act spontaneously**
- Development of human resources
- Innovation
- 1-on-1 meeting

**A workplace to develop our team**
- Promote equality and diversity
- Risk management
- Corporate governance

**Activities to grow sincerely and sustainably**
- Risk management
- Corporate governance

**Our People (Care for employees)**
- Strategic implementation of health and productivity management
- Creating flexible work styles under COVID-19
- Enhancing human resource development

**Society (Social contribution)**
- Fostering innovation to address social issues
  - Providing a healthy, clean, and safe society and environment

**Urban development to live securely**
- Disaster prevention systems
  - Fire-fighting systems
- Develop Car-mounted cameras

**Contribution to local communities**
- Accept tours of social studies
- Hold summer festivals
- Activities to beautify local communities

**Environmental protection**
- Manage harmful substances
- Maintain forests
- Protect rare plants

**Living together for our future**
- Promote sustainable management
  - Medium- to long-term perspective
- Promise to shape a sustainable society for the future
Cleanliness

Think about air quality

Fresh air is essential for comfortable air conditioning. Fujitsu General offers a wide range of air conditioning products with air purification functions, such as ventilation systems equipped with high-performance filters and heat exchangers.

Collecting dust particles to clean the air

**Silver Ion Filter**

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds. Notice: Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganisms, but do not prevent infection.

**Different filters are used on each side**

**Ion Deodorization Filter**

Deodorizes the air by decomposing absorbed odors using the oxidizing and odor-reducing effects of ions generated by ultra-fine particle ceramic.

**Apple-catechin Filter**

The Apple-catechin filter uses static electricity to remove fine particles and dust from the air.

Ventilation with adequate airflow with reduced temperature changes

**Heat Exchange Ventilation**

When a room is cooled or heated, the exhausted cooling or heating energy is recovered by heat exchange ventilation.
Fujitsu General’s Environmental Vision

Medium-Term Environmental Plan: Target and Measure

<table>
<thead>
<tr>
<th>Target</th>
<th>Measure</th>
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<tbody>
<tr>
<td><strong>Reduction of Our Own Environmental Impact</strong></td>
<td>Achieve carbon neutrality by FY2025</td>
</tr>
<tr>
<td><strong>Old Target</strong></td>
<td>Greenhouse gas emissions from our Group’s business activities: Completely eliminated by FY2031</td>
</tr>
<tr>
<td><strong>Through Our Supply Network</strong></td>
<td>Reduction of 30% for total greenhouse gas emissions through our supply Network by FY2031 (vs. FY2018)</td>
</tr>
<tr>
<td><strong>For our Customers and Society</strong></td>
<td>Reduce greenhouse gas emissions from the use of our products: Reduction of 30% by FY2030 (vs. FY2013)</td>
</tr>
</tbody>
</table>

*1 ODP (Ozone Depleting Potential): a relative value that indicates the impact per unit weight of ozone-depleting substances released into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is fixed at 1.0
*2 GWP (Global Warming Potential): a measurement that indicates how much other greenhouse gases are capable of warming the Earth based on carbon dioxide This is the integrated value of radiant energy given to the Earth (i.e., the estimated impact on global warming) expressed as a ratio to CO2.

**R32 refrigerant with reduced global warming potential**

- **Zero** Ozone Depleting Potential (ODP*1)
- High environmental properties
- High performance
- Economically efficient

**Low GWP to a wide range of projects**

We are continuously working to develop products that use R32 refrigerant and have R32 products in all product categories in our lineup (Split, Multi-Split, VRF, and ATW). This allows us to realize environmentally and regulatory friendly system designs for a wide range of projects from residential to light commercial.

**Fujitsu General’s Environmental Vision**

67% reduction

2088

675

R410A

R32

(Reference: IPCC 4th Report)

67% reduction

R410A

R32

(Reference: IPCC 4th Report)
Comfortable airflow design

Pursuing the potential of air conditioners and true comfort, Fujitsu General has developed and commercialized numerous world-first technologies, and these concepts are reflected in the design of our products.

Cassette type 3D flow Series
3 individually controlled air outlet ports
The Comfortable airflow setting enables the right and left air outlet ports as well as the wide center port to work together to provide a comfortable room environment.

Cassette type One-way flow Series
Wide airflow range created by triangle design and large flap
A large flap with a wide range of movements, equipped with louvers arranged triangularly, sends air into every corner of the room.

Cassette type Circular flow Series
Unique circular flow design
This Series realizes a Circular Flow to blow a large airflow in a 360° direction by using a high-performance DC fan motor, turbo fan, and a unique seamless airflow louver design.

Auto louver grille kit
for Mini duct and Slim duct
Flexible Control
The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.
Control

Operation from anywhere

Using the Internet of Things (IoT), Fujitsu General is actively providing services that allow users to control their air conditioners from their smartphones. We are also expanding our open co-creation activities with external partners to deepen the development of new functions and services using IoT and artificial intelligence (AI) to develop safe and convenient air conditioners.

Software application for WLAN Adapter

“AIRSTAGE Mobile” is a software application that allows users to control Fujitsu General air conditioners from anywhere with a mobile device while out or on the move.

Compact wired remote controller

Large screen and simple display
• Large screen, yet compact in size
• Large, easy-to-read letters are used.
• The controls are simple and easy to understand.

Central remote controller for VRF system

The central remote controller uses a touch panel screen to display multiple menus on the top screen. Just touch the menu you want to operate, and the necessary window will pop up, and allow intuitive operation.

Remote monitoring and operation
The central remote controller enables monitoring and control of a tenant’s air conditioner anytime, anywhere.

User-friendly screen display enables easy operation.
With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.

Voice control via smart speaker
Connecting with a smart speaker allows the user to operate the air conditioner and check its operation status just by talking to it.

Turn on the air conditioner in the living room!
**Design**

Harmonizes with the installation space

Fujitsu General offers a wide range of products for the European market, including models with unique textural designs, award-winning models that integrate with room interiors, and Cassette type models with different designs that match office spaces. We also have a lineup of models with elegant designs, such as the Ceiling type models with its beautiful curved surface.

**Sleek and Stylish Design**

New designed wired remote controller

When not in use, the controller is a part of the interior decor. This is achieved by using mirrors, glass, and clear panel, and it appears to be on with the wall.

**Light Elegant Design**

New Ceiling type design

The light, elegant and three-dimensional expression achieved by the curved surface gives a sense of comfort and well-being.

**New “Elegant & Smart” Square Design**

New Wall-mounted type design

Smart design with ridges and subtle shade

*Image is KN Series

**Stylish design**

New outdoor unit for Air to Water

A design that offers a sophisticated style that is quiet and blends in with the outdoor landscape.
OVERVIEW

Overseas air conditioning business since 1971
Starts air conditioning business in Japan in 1960

**1950 ~**
1955: Head Office established in Kawasaki
1956: Electronic components factory in Ichinoseki

**1970 ~**
1964: Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office)
1977: Air conditioner manufacturing company in Thailand
1979: Air conditioner manufacturing company in Shanghai, China
1980: Air conditioner manufacturing company in China

**2000 ~**
2006: Air conditioning manufacturing, sale, and service company in China
2007: Air Conditioner Technology Building becomes operational on the premises of the Kawasaki Headquarters.

**2010 ~**
2012: Joint venture in Thailand to manufacture compressors
2016: Commercial use air conditioner R&D Center in Thailand
2019: New building constructed at Kawasaki Head Office to strengthen development capabilities

**2024 ~**
2020: Building loft-based manufacturing in Thailand
2021: FGAI R&D New Office: FGAI Research & Development office moved to the new office in New Jersey, USA

**What's New**

- New VRF products with R32 refrigerant released
- New Wall-mounted type & Duct type with high-energy saving released
- Simple and stylish design that harmonizes with the installation space

**For Light commercial use**

- 2024: New VRF products with R32 refrigerant released

**For Residential use**

- 2024: New “Elegant & Smart” Square Design model released
- High-efficiency operation even at high outdoor temperatures

**Products Released**

- **2001:** AIRSTAGE Series released
- **2006:** Standalone Compact VRF AIRSTAGE J Series released
- **2009:** VRF Air conditioner for the commercial (Our company’s investigation)
- **2014:** Compact VRF AIRSTAGE J-IS Series released
- **2017:** VRF AIRSTAGE J-IS Series for light commercial use released
- **2020:** Compact & lightweight outdoor unit AIRSTAGE J NO. J-IV J-VS Series released

**Manufacturing Company Establishment**

- 1955: Head Office established in Kawasaki
- 1956: Electronic components factory in Ichinoseki
- 1964: Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office)
- 1977: Air conditioner manufacturing company in Thailand
- 1979: Air conditioner manufacturing company in Shanghai, China
- 1980: Air conditioner manufacturing company in China
- 2006: Air conditioning manufacturing, sale, and service company in China
- 2007: Air Conditioner Technology Building becomes operational on the premises of the Kawasaki Headquarters.

**Sales & service maintenance company established**

- 1976: North America sales company
- 1977: Europe sales company (UK)
- 1978: Australia sales company and Europe sales company (Germany)
- 1980: Brazil sales company
- 1997: Asia sales company (Singapore)
- 1998: Middle East sales company (SIAE) and New Zealand sales company
- 2000: Air conditioner manufacturing and sale technical partnership in India
- 2002: Taiwan sales company
- 2006: China sales company
- 2012: Joint venture in Thailand to manufacture compressors
- 2016: Commercial use air conditioner R&D Center in Thailand
- 2019: New building constructed at Kawasaki Head Office to strengthen development capabilities

**History**

Yaou Shoten Ltd. established in 1936

overseas air conditioning business since 1971

- 1971: Air conditioner exports to the Middle East.
- 1982: Window type 3 Super Series released
- 1985: Large wall-mounted type and multi-split air conditioner released
- *1:* Announced 1991. In home air conditioner for the home (Our company’s investigation)
- *2:* Announced 1994. In the category of room air conditioners for the home (Our company’s investigation)
- *3:* Announced 2002. In the category of room air conditioners for the home (Our company’s investigation)
- *4:* Announced 2018. In room air conditioner for the commercial (Our company’s investigation)
- *5:* Announced 2012. In room air conditioner for the home (Our company’s investigation)
Worldwide locations

Under a system of five bases in Europe, the Middle East, Asia and Oceania, North and South America, and Japan, the company promotes Globalization from a worldwide perspective while emphasizing the actual conditions in each region.
Global business activities

We have been recognized for our activities in advertising, human resource development and customer service, as well as for our community-based social contribution activities in each region, winning numerous awards and achieving a high level of customer satisfaction.

North and South Americas
- AHR Expo
- Distributor conference in USA
- New product seminar in UAE

Middle East
- HVAC trade show in Brazil
- HVAC trade show in Germany
- HVAC trade show in Kuwait
- HVAC trade show in Italy

Europe
- Exhibition in USA
- Training seminar in Italy
- New product seminar in UK
- Training in Germany
- Event in the United Kingdom

Oceania
- AHR Expo Exhibition
- HVAC trade show in Australia
- HVAC trade show in Germany
- Launch event in New Zealand
- Service training in Vietnam

Asia
- Thanksgiving party in Seoul
- Exhibition in India
- Opening ceremony in India
- New product teaser seminar in Singapore
- Service training in Vietnam
- ProductReview.com.au’s annual awards are selected from products and services that have been well-rated by the ProductReview community.

International authoritative design awards

- The NEWS Dealer Design Awards
- Gold Award: HVAC & PLUMBING in Builder’s Choice Awards
- TOP OF THE 2016 Fast grow in “MARKET LEADERSHIP/ HVAC & PLUMBING” divisions
- Saphir Award in the world's largest independent award of branding.

- The IF Product Design Award is given annually by IF International Forum Design GmbH to industrial products from around the world.
- The Plus X Award: the world’s largest innovation award for technology, sports and lifestyle.

- The GOOD DESIGN Award is an award sponsored by the Japan Institute of Design Promotion, and is given once a year to items of outstanding design.
- The iF Product Design Award is given annually by iF International Forum Design GmbH for industrial products from around the world.

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Highly popular for their excellent quality, energy efficiency, and ease of installation, Fujitsu General’s products are installed in a wide range of buildings around the world, including high-rise office buildings, stores, hotels, public facilities, schools, hospitals, and residences.
Global development & Production bases

We have established R&D bases in five countries from Japan, Europe, Asia, China, and North America to pursue environmental properties and comfort according to the needs of each region.

- Head office
- R&D center
- Manufacturing companies

R&D center & Technology Research Building

Constructing IoT-based manufacturing
We are implementing a real-time IoT-enabled system to immediately visualize and analyze various information such as facility operating status, assembly line production progress, and parts inventory and transportation status. This will further enhance the accuracy of production and shipping forecasts in the Head Office and factory management departments. The system will also help improve activities by employees at production sites, with the aim of improving the efficiency of the production process, the efficiency of parts distribution operations, and the utilization rates of the facilities.
**OUR MESSAGE**

**High-quality development & Production facilities**

### Advanced Research Facilities and Equipment

**Performance tests**

- Airflow measurement room: Measure the airflow of air conditioners, from compact room air conditioner models to variable refrigerant flow (VRF) systems.
- Calorimeter: Measure the temperature, humidity, and airflow at the inlet and outlet of the air conditioner to evaluate its cooling and heating capacity.

**Reliability tests**

- Constant temperature room: Verify product performance in cooling and heating operations under various temperature and humidity conditions.
- Practical test room: Check whether the performance of the air conditioner can be sustained under the conditions of the actual housing environment.
- Shower test room: Check if the electrical box of the outdoor unit is protected from strong wind and rain, such as during a typhoon.

**Transportation and Handling Tests**

- Compressibility test
- Vibration test

**Testing laboratory**

- Fujitsu General EMC Laboratory Limited
- 60-m Height Difference testing tower: Tests air circulation in a compressor for reliability.

### Fujitsu General is one of Japan’s leading manufacturers with R&D centers in Japan. The research and development conducted in these facilities contributes to providing our customers with the highest quality and performance.

### Certification of ISO 9001 and ISO 14001

The Group’s 5 overseas production subsidiaries are individually certified with ISO 9001 and ISO 14001. The Group’s 11 overseas sales subsidiaries have been certified with ISO 14001 since 2012.

### Product Quality Assurance

All Fujitsu General plants are ISO 9001 certified and operate under a unified quality control system. We deliver to customers all over the world high-quality products that have passed stringent quality inspections.

**Receiving inspection**

We require all our parts suppliers to submit test reports to ensure that all parts we receive from them meet our quality standards. Our in-house test department inspects incoming parts to ensure their compliance with RoHS as required by the EU. We also conduct 100% inspection of main parts to prevent defective parts from making it to assembly lines.

**Quality inspection of products**

We carry out stringent quality inspections in all production processes performed in our plants. To keep the quality of our products high, inspectors check their quality from start to finish on production lines.
2024 New Products

**Wall-mounted type**
**Built-in W-LAN adapter models**

- **Designer Range, Standard Range**
  - S-016, 020
  - M-006, 022

- **ECO Range**
  - S-022, 023
  - M-006, 023

- **Soft black color models**
  - S-020
  - M-022

- **Medium static pressure duct**
  - S-040, 043
  - M-007, 025

**2024 New Products**

- Improved energy efficiency from the current products
- 7–14 classes, 8 models
- High energy saving
- Built-in WLAN adapter
- Comfortable airflow & Quiet operation
- Easy access to the flare pipe connection

**ECO Range**
- 5–12 classes, 4 models
- Elegant & smart square design
- High energy saving
- Comfortable airflow & Quiet operation
- Built-in WLAN adapter
- Easy access to the flare pipe connection

**Soft black color models**
- Soft Black
- 7–14 classes, 4 models
- High energy saving
- Built-in WLAN adapter
- Easy access to the flare pipe connection

**Medium static pressure duct**
- 12–54 classes
- Slim & Compact design
- High energy saving
- Easy maintenance
- Drain hose as standard
- Wide range of static pressures

**Impression of Soft Black**
Soft Black is a natural black color with a relatively gentle tone and no strong contrast. A Soft Black harmonizes with the environment and creates a warm atmosphere.

**Smart Device control**
You need to install the “AIRSTAGE Mobile” app on your smart device in order to control the air conditioner.
**VRF J- VS**

Heat Pump for Small-capacity type

Outdoor unit

- Sustainable: R32 refrigerant with reduced global warming potential
- Saving CO2: Top class high energy saving
- Small Body: Easy carriage and installation
- Situational Piping Design: Long pipe length, Up to 13 indoor units* can be connected
- Sightliness installation: External static pressure, cooling piping system

* VRF Model

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**Indoor unit**

- 4 - 24 classes, 1 type, 34 models
- Compact & Slim design
- Flexible installation

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**CONTROL SYSTEM**

Wired remote controller

Design type

- Harmonizes with the Installation Space
- Intuitive operation
- Status LED Colors
- Refrigerant cycle monitor
- Logo Display
- AIRSTAGE Remo Set application (free download)
- Initial Settings / Indoor Unit Function

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**AIR TO WATER**

New Monobloc system

Comfort series

Future Release

- 5-10 kW classes, 3 Models
- High energy efficiency
- Quiet operation
- Easy installation & maintenance

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**SUPPORT**

AIRSTAGE Service Monitor Tool

for Single-split, Multi-split, Air to water

Sp-010-011

- Improved work efficiency
- Bluetooth communication
- Compact and lightweight design
- New application with simple design
- Refrigerant cycle graph display

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UTY-ASSXZ1

AIRSTAGE Service Monitor Tool

*Android only. You need to install the “AIRSTAGE Service Monitor Tool” app on your smart device.*
Target buildings

A casual conversation with a colleague at work
A presentation in a large meeting room
A restaurant you stop by
Your living room

We have a comprehensive lineup of air conditioners ideal for all these situations—from business to private spaces. Fujitsu General’s air conditioners are used in all aspects of everyday life.

Fujitsu General provides the best control solutions for buildings.

For Light commercial use
Comfortable and economical air conditioning systems, ideal for small and midsize commercial buildings
036 Restaurants, Shops
038 Small offices
040 Hotels
042 Schools

For Commercial use
Single and modular VRF systems for high efficiency, comfort, design flexibility, ease of installation, and high reliability
044 Large Buildings

For Residences
Smart air conditioning systems with extensive control options for comfort and convenience of use
046 Residences
Fujitsu General provides perfect total air conditioning systems that offer seamless support by tenant, by purpose, and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.

**Single split**
*For Restaurants*

- Expanded lineup of ceiling, cassette, and duct types suitable for large spaces using environmentally friendly R32 refrigerant
- **R32 large model lineup expanded**
- **Circular flow cassette Series**
- **Compact cassette**
- **Ceiling type**
- **Mini duct**
- **Slim duct**
- **High static pressure duct**

**Two panel colors**
Both black and white panels are available for Cassette type. Black panels are suitable for dark places such as atmospheric restaurants. White panels, by contrast, are more appropriate for use in brightly lit spaces such as offices. (Available for Single split and VRF indoor units)

**Simultaneous multi-split**
*For Shops*

- **Various indoor unit lineup**
  - You can choose from 3 types of indoor units to suit the atmosphere and layout of your shop.
  - **Small, lightweight outdoor unit**
    - Models equipped with the new R32 refrigerant. Compared to current models, the outdoor unit is more compact and easier to install. (45/54 models)
    - Compact cassette Series for grid ceiling were added to the lineup of indoor units to improve ease of installation.

- **Slim duct**
- **Compact cassette**
- **Medium static pressure duct**
- **High static pressure duct**
- **Twin 36 class** (Single phase)
- **Twin/Triple 45/54 class** (Single phase)
Small offices
For Light commercial use

Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.

Breakthrough 3D flow cassette with innovative pursuit of comfort
The left and right air outlet ports with a maximum rotation angle of 100° and the wide central air outlet port create a comfortable space with less uneven temperature.

Wide lineup of indoor units of low-capacity class
Various low-capacity 1.1 kW indoor units are available for small rooms and spaces.

Compact outdoor unit with low noise design
Takes up little space even when installed in a machine room or on the roof. Sufficient static pressure can be maintained even with louvers. Low-noise mode suffices even for nighttime operations at low noise levels.

Central remote controller with improved operability
Controls the temperature of each room easily, and manages and sets the operation control for a week. Energy-saving management by setting upper and lower temperature limits and operating prohibitions.

Remote Management
Remote monitoring / Remote operation
New central remote controller can control your tenant’s air conditioner anytime and anywhere. When the central remote controller manages the indoor units of some tenants, air conditioning of each tenant can be managed separately online.

Increased the Number of Accounts
Central remote controller with improved operability
Controls the temperature of each room easily, and manages and sets the operation control for a week. Energy-saving management by setting upper and lower temperature limits and operating prohibitions.

Compact wired remote controller
Compact size with a large screen for easy operation. The stylish design harmonizes with the interior.

VRF J Series compact outdoor units with up to 18 HP
Suitable for the buildings with multiple small rooms. Up to 42 indoor units* can be connected.
*Only J-IV Series 18 HP model

Administrator (Building owner) + Online users (Tenant owner)
Maximum 30 accounts
Hotels for Light commercial use

Fujitsu General offers total air conditioning systems perfect for low-rise, small hotels that take into account energy savings, external appearance, safety, and ease of installation.

Guest room air conditioning with superior comfort, energy efficiency, and ease of installation

- **Space saving**
  - Mini duct type with a height of 198 mm and a depth of 450 mm. Easily installed in a narrow ceiling space.

- **Comfortable airflow**
  - auto louver grille kit creates comfortable airflow by adjusting the air direction.

- **Ventilation of each room** can be achieved relatively inexpensively by combining an appropriate duct fan (locally procured) through a hole for fresh air in the indoor unit. If the airflow required to ventilate the room is not sufficient, use ERV (Energy Recovery Ventilator).

Centralized control of air conditioning for shared spaces

Centralized control of air conditioning for shared spaces, lobbies, hallways, and other common spaces are centrally controlled for air conditioning. Central Remote Controller can manage VRF products, but Split products can also be managed together via Network converter.

**Wired remote controller**

- J-VS Split
  - Wired remote controller (design type) with sophisticated design.
  - The touch panel can be easily operated by swiping vertically and horizontally.

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

- **Card key switch available**
  - Linked to a card key to prevent people from forgetting to turn off the air conditioner.

- **Auto louver grille kit**
  - Creates comfortable airflow by adjusting the air direction.

**Ventilation of each room** can be achieved relatively inexpensively by combining an appropriate duct fan (locally procured) through a hole for fresh air in the indoor unit. If the airflow required to ventilate the room is not sufficient, use ERV (Energy Recovery Ventilator).

**Select the product best suited to the characteristics of the property.**

<table>
<thead>
<tr>
<th>Project size</th>
<th>Split</th>
<th>VRF J-VS</th>
<th>VRF VR-IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual AC</td>
<td>Great</td>
<td>Good</td>
<td>Great</td>
</tr>
<tr>
<td>Reduction of install space</td>
<td>Fair</td>
<td>Great</td>
<td>Great</td>
</tr>
<tr>
<td>Landscape (hide outdoor unit)</td>
<td>Fair*</td>
<td>Great</td>
<td>Fair</td>
</tr>
<tr>
<td>Maintenance (individualized)</td>
<td>Great</td>
<td>Good</td>
<td>Fair</td>
</tr>
</tbody>
</table>

*Depends on pipe length constraints.

**Large space air conditioning for the reception area and lobby**

Duct type Big duct Series suitable for large spaces with high ceilings.
Fujitsu General offers indoor units that allow multiple connections with a compact design that reduces the installation area and increases the flexibility for selecting installation locations, making them perfect for midsize educational institutions. One single outdoor unit is able to cover an entire school building.

Centralized control of both air conditioning and ventilation equipment
Centralized control is also possible to stop the operation of not only air conditioners but also lighting and ventilation equipment. These features are useful for managing the energy efficiency of the entire building.

Wide variety of indoor units
Support complex applications for regular classrooms, special classrooms and auditoriums. Ventilators can also be added easily.

Comfortable room air conditioning without airflow sensation
Circular flow cassette blows air in all directions at a uniform temperature.

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

Energy-saving operation when unattended, in conjunction with a Human sensor.
Large buildings
For Commercial use

Fujitsu General offers modular VRF systems that pursue high efficiency, comfort, design flexibility, ease of installation, and reliability for high-rise buildings.

Abundant lineup optimized for the operating environment
The VRF system meets a variety of needs, including energy-saving models and models with compatibility to outdoor temperatures of up to 46°C.

VRF VR-IV
Smart, cutting-edge design Extensive lineup from 8 HP to 48 HP with the capacity ratio of indoor units connectable up to 150%.
34 models with 8 to 48 HP
- Space saving combination: 21 models from 8 to 48 HP
- Energy efficient combination: 13 models from 16 to 44 HP

VRF V-IV
34 models from 8 to 48 HP
- Space saving combination: 21 models from 8 to 48 HP
- Energy efficient combination: 13 models from 16 to 44 HP

High system flexibility
The industry-leading high static pressure, long pipe design, and connection capacity enable flexible installation on each floor and installation of various indoor units.

Height difference up to 110 m
The height difference between the outdoor unit and the indoor unit is normally 50 m for the V-IV Series, but can be extended to 110 m by installing the Pressure sensor kit.
* Can only be connected to the V-IV Series

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

System controller (UTY-AKZ4L1)
System controller Lite (UTY-ALGXZ1 & UTY-PLGXZ1)

Prompt service support
Web monitoring tool and System controller remotely monitor the air conditioning of the entire building. Self-diagnosis in cooperation with the management company enables quick response in case of an emergency.

Linkage with various BMS
Linking with MODBUS®, BACnet®, KNX® and other interfaces allows centralized control of equipment other than air conditioning.

VRF indoor units
Facilities
Lighting
Ventilation
Energy recovery

Software
Internet
or
Landline
Web monitoring tool

Height difference up to 110 m
82 Pa
* V-IV Series, 86 Pa for VR-IV Series

Installation example
Pressure sensor kit

Remote monitoring
Wireless monitoring UTY-WMN0L"
Residences
For Apartments & Houses

From the living room, where the whole family relaxes, to bedrooms, children’s rooms and other small rooms, Fujitsu General has designed systems suited to spaces that reflect the rhythm of life.

A variety of indoor units to suit the characteristics of each room

For Living & Dining room
Cool beauty design model
This series features a special European-style design. The light, elegant and three-dimensional expression achieved by the curved surface is beautiful from all angles.

For Primary bedrooms or Living rooms
Award winning design, Quiet models
High performance, low noise with emphasis on design

For Large rooms
Standard & Comfort model
The basic functions and powerful, comfortable airflow volume controls are optimal for large spaces.

Outdoor units suitable for residential environments
R32 Multi-split type released
Models are now available with environment-friendly R32 refrigerant. A number of products with improved external design have been added to the indoor unit lineup.

Operated by smart speaker
Simply talk to the smart speaker to operate the air conditioner and check its operating status while doing other things.

With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.
Light Commercial & Residential

SPLIT & MULTI-SPLIT

Energy saving design to provide a comfortable indoor environment while being environment-friendly.

These are air conditioners that are both user-friendly and environment-friendly. Fujitsu General air conditioners cater to a wide range of needs, from living rooms, bedrooms, stores, small offices, through to hotels.

SPLIT

- Refrigerant R32 models
  - Wall-mounted type
  - Cassette
  - Duct
  - Floor
  - Ceiling
- Refrigerant R410A models
  - Duct

MULTI-SPLIT

- Refrigerant R32 models
  - 2-unit to 5-unit Multi-split
  - Simultaneous Multi-split Twin/Triple
- Refrigerant R410A models
  - 6-unit Multi-split
  - Simultaneous Multi-split Twin/Triple/Double Twin
Light Commercial & Residential

SPLIT

**Refrigerant R32 models**

- **Wall-mounted type** - Built in Wi-Fi adapter model
  - S-016: Designer Range
    - High Spec & Design
    - Cool Beauty Design
  - S-020: Standard Range - High-Efficiency & Comfort
  - S-022: ECO Range - Compact Size

- **Wall-mounted type**
  - S-024: Standard Range - High-Efficiency & Large Rooms
  - S-028: ECO Range - Compact Size

- **Cassette**
  - S-034: Compact 4-way Flow Range - Compact Size
  - S-036: Circular Flow Range - Comfort for Large Rooms

- **Duct**
  - S-038: Slim Duct - Slim Design
  - S-040: Medium Static Pressure Duct - High-Efficiency & Comfort
  - S-042: ECO Duct - Compact Size

- **Floor, Ceiling**
  - S-050: Floor - Standard Size
  - S-058: Ceiling

**Refrigerant R410A models**

- **Duct**
  - S-052: High Static Pressure Duct
  - S-054: Big Duct
**Wall-mounted type**

Simple and easy to install, all models are expertly designed to control airflow and save energy. The design, with its flat and simple appeal, perfectly matches room interiors. Many of the models in the lineup adopt the new environmentally friendly R32 refrigerant.

**Cassette**

The Cassette type, which blends in perfectly with the interior design, blows air in all four directions to create an even air-conditioning for the entire space. We have a variety of series including Compact models with a uniquely designed panel to match grid ceilings, and Circular Flow models that send airflow in a 360° direction.

**Duct**

The main unit is hidden in the wall, making the room look neat and tidy. Mini Duct and Slim Duct models are also available for installation in narrow spaces between beams or above the ceiling. Large models, suitable for air conditioning vast spaces, allow multiple outlets to be installed in just one unit, and are perfect for atypical room layouts.

**Floor**

The compact and slim design makes this model suitable for installation in commercial as well as residential buildings. This model is also recommended as a heating device because it delivers a warm airflow from both the top and bottom outlets.

**Ceiling**

As with the wall-mounted unit, ceiling installation is very easy, and the unit’s thin structure with a height of just 240 mm allows neat installation. The powerful airflow that can reach far away from the wide outlet is perfect for large meeting rooms, audiovisual rooms, and other rectangular spaces with a lot of depth.

**Existing pipes can be reused if they meet our guidelines**

Please consult with our regional sales subsidiaries for details.

**Cautions when reusing the existing pipes**

- The thickness of the pipes must be 0.8 mm or thicker in accordance with the pipe diameter.
- Use flares that have been reworked to be compatible with the new refrigerant, and are compliant with ISO 14903.
- Select suitable piping in accordance with the installation manual of the new air conditioning unit.
- When pump-down is not possible or when the inner pipe walls are dirty, make sure to clean the pipes before connecting new ones.
- When using different diameters pipes from the standard size, the performance may not reach the published specification value.
- Dedicated flare nuts compliant with ISO 14903 should be procured locally.
- Restrictions apply to pipe lengths, refrigerant volumes, and room sizes.

Fujitsu General provides its customers with 5 types and 149 models of air conditioning systems perfect for various customer applications and layouts. Added to this lineup recently are the environment-friendly R32 refrigerant models.

Fujitsu General provides its customers with 5 types and 149 models of air conditioning systems perfect for various customer applications and layouts. Added to this lineup recently are the environment-friendly R32 refrigerant models.
# Indoor Units Lineup

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Refrigerant</th>
<th>Model</th>
<th>Class</th>
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| Type                  | Range                      | Refrigerant | Model                          | Class | 7   | 12  | 15  | 18  | 22  | 24  | 30  | 36  | 45  | 54  | 60  | 72  | 90  |
|----------------------|----------------------------|-------------|--------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| **Cassette**         |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Compact 4-way Flow   | Compact Size               |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Range                |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Circular Flow**    | Comfort for Large Rooms    |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Range                |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Slim Duct**        |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Medium Static**    | High-Efficiency & Comfort  |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Pressure Duct        | Compact Size               |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Medium Static**    | Standard                   |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Pressure Duct        |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **High Static**      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| Pressure Duct        |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Big Duct**         |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Floor**            | Compact & Comfort          |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
| **Ceiling**          |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |
|                      |                            |             |                                |       |     |     |     |     |     |     |     |     |     |     |     |     |

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Features

High-Efficiency

All DC Inverter Technology

DC twin-rotary compressor
A high-efficiency 2-cylinder rotary compressor with a DC inverter optimizes the internal structure of the compressor to achieve higher energy efficiency compared to similar compressors.

DC fan motor
The DC fan motor produces high power, a wide operating range, and high-efficiency.

Sine-wave DC inverter control
High-efficiency operation is realized by using sine-wave DC inverter control.

Heat Exchanger for Wall-mounted type

High-density multipath heat exchanger
Thinner and denser heat exchangers and multipath efficiency technology have substantially improved heat exchange performance.

High-performance sub-cool heat exchanger
A counter-type bypass circuit has been incorporated to achieve a higher performance. (Large multi-split type, VRF)

High Energy Saving

Human sensor control
The Human sensor monitors the movements of people in a room and operates the air conditioner at a lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.

Economy operation
Limits maximum operation, reducing the power consumption, and thereby suppressing the maximum load.

Setting temperature range limitation
The minimum and maximum temperature range can be set giving further energy savings while considering the comfort of the occupants.

Set temperature auto return
- The set temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is from 10 to 120 minutes.

Auto-off timer
- The indoor unit is automatically turned off when it reaches a preset operating time frame.
- The time frame of the Auto-off timer can be flexibly scheduled.
- Auto-off times can be set from 30 to 240 minutes.
Powerful operation

Maximum airflow and maximum compressor speed are maintained for the period necessary to reach the set temperature quickly.

10°C heat

After a person has left the room, the system switches to minimum heating operation to maintain the room temperature. (Maintained at 10°C)

Wireless LAN control

Users can control their air conditioners from anywhere with their mobile devices while out or on the move.

Power diffuser

These three technologies enable precise wind direction control and improve ventilation efficiency; our airflow control offers a more comfortable environment.

Uniform air conditioning

Circular airflow to achieve uniform air conditioning without temperature unevenness in workspaces.
**Low Noise Technology**

Outdoor unit fan design with a small separation vortex, minimized air volume by fan control, and top-class low noise Outdoor unit fan design. Operation time can be set by timer.

Air stabilizer in Duct

Low-noise duct structure with a built-in air stabilizer. In an auto setting, the system automatically switches between cooling and heating modes according to the set temperature and room temperature.

**Quiet and Comfort Control**

**Feature Explanation**

**Energy-Saving Features**

- **Save Human sensor**
  The human sensor detects the movement of people in the room and determines whether to switch to energy-saving operation.

- **Set temperature auto return**
  The setting temperature automatically returns to the previously set temperature.

- **Economy operation**
  The timer can be set to automatically adjust the air conditioner to save energy or stop the unit.

**Features for Comfort**

- **Outdoor unit low noise operation**
  The noise level of the outdoor unit can be selected.

- **Fresh air intake**
  Fresh air can be introduced by attaching a fan connected to an external control unit.

**Convenience Features**

- **Weekly timer**
  Users can choose low noise levels, depending on the installation environment. Operation time can be set by timer.

- **Individual airflow direction control**
  Each louver of a 4-way Cassette type can be controlled individually to provide comfortable airflow.

**Clean Features**

- **Silver Ion Filter**
  The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.

- **Apple-catechin filter**
  The Apple-catechin filter uses static electricity to clean fine particles and dust from the air.

**Installation / Support**

- **Automatic airflow adjustment**
  The unit automatically switches between cooling and heating modes based on the room temperature.

- **Wireless LAN control**
  The optional WLAN adapter enables the air conditioner to be operated by smartphone or tablet PC from outside the home.
Wall-mounted type
Built-in WLAN adapter model
Designer Range
High Spec & Design

High energy saving
Top class high efficiency is achieved by high efficient lambda shaped heat exchanger, large cross flow fans and new refrigerant.

Hybrid-heat exchanger
The large heat exchanger has greatly improved the heat exchange efficiency to achieve top-level SEER and SCOP.

 Ø7mm High density heat exchanger
 Ø107 Large cross flow fan

 Ø107 Large cross flow fan
The large-diameter fan generates air volume efficiently at reduced power.

Human sensor
The human sensor monitors the movements of people in a room and operates the air conditioner at a lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.

Comfortable airflow & Quiet operation
The large blower and the new air blowing structure create a comfortable airflow that spreads all the way down to the user’s feet with quiet operation.

Smart device control
A WLAN adapter is included as standard equipment. By installing the AIRSTAGE mobile app on your smart device, you can check and control the operating status of the air conditioner from anywhere indoors or outdoors.

Refrigerant cycle monitor
(Option)
Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

* Wired remote controller (UTY-TRZK5 or UTY-TRZK7) is required.

Specifications

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<th>AS09EB5GC</th>
<th>AS12EB5GC</th>
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<th>AS15EB5GC</th>
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<td>Single phase, 200V, 50Hz</td>
<td>Single phase, 200V, 50Hz</td>
<td>Single phase, 200V, 50Hz</td>
<td>Single phase, 200V, 50Hz</td>
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<tr>
<td>Capacity</td>
<td>Cooling: 0.9/2.6 kW</td>
<td>Heating: 2.9/7.9 kW</td>
<td>Cooling: 1.3/4.6 kW</td>
<td>Heating: 3.7/9.8 kW</td>
<td>Cooling: 1.7/4.6 kW</td>
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<td>Zone Power</td>
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<td>Heating: 3.7/9.8 kW</td>
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<tr>
<td>COP</td>
<td>Heating: 5.00</td>
<td>Heating: 4.70</td>
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<td>SEER Cooling/W/W</td>
<td>9.80</td>
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<td>EER Cooling/W/W</td>
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<td>4.55</td>
<td>3.91</td>
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<td>Input Power Cooling/Heating</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Sound Pressure Level</td>
<td>dB(A)</td>
<td>dB(A)</td>
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<td>kW</td>
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<td>Moisture Removal</td>
<td>l/h</td>
<td>l/h</td>
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<tr>
<td>Weight Indoor</td>
<td>kg</td>
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<td>High mm</td>
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<tr>
<td>Dimensions Indoor (Heating)</td>
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<tr>
<td>Dimensions Outdoor (Cooling/Heating)</td>
<td>High mm</td>
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<tr>
<td>Dimensions Outdoor (Cooling)</td>
<td>High mm</td>
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<tr>
<td>Dimensions Outdoor (Heating)</td>
<td>High mm</td>
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<tr>
<td>Connection Pipe Diameter (Liquid/Gas)</td>
<td>mm</td>
<td>mm</td>
<td></td>
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</tr>
<tr>
<td>Outdoor (Cooling/Heating)</td>
<td>High mm</td>
<td></td>
<td></td>
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<td>Outdoor (Cooling)</td>
<td>High mm</td>
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<tr>
<td>Outdoor (Heating)</td>
<td>High mm</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Refrigerant Type (Global Warming Potential)</td>
<td>R32</td>
<td>R32</td>
<td>R32</td>
<td>R32</td>
<td></td>
</tr>
<tr>
<td>Charge (kg)</td>
<td>(CO2eq-T)</td>
<td>(CO2eq-T)</td>
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<td>External switch controller</td>
<td>Wired remote controller (touch panel):</td>
<td>Compact wired remote controller:</td>
<td>Simple remote controller:</td>
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<td>Model</td>
<td>LTY-XWZX</td>
<td>UTY-TRKC5</td>
<td>LTY-TR6R</td>
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<td>Dimensions</td>
<td>270 × 834 × 215</td>
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<td></td>
<td></td>
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<tr>
<td>Dimensions</td>
<td>610 × 1,350</td>
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</tr>
<tr>
<td>Dimensions</td>
<td>56 × 56</td>
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<tr>
<td>Dimensions</td>
<td>141 × 106 × 13</td>
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<td></td>
</tr>
</tbody>
</table>

Optional parts
* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

Model: ASEH07KGTG / ASEH09KGTG / ASEH12KGTG / ASEH14KGTG
### Designer Range

**Cool Beauty Design**

We have designed this series exclusively for the European market. The exterior design harmonizes beautifully with any decor and adds comfortable elegance to the room. The light, elegant and three-dimensional expression achieved by the curved surface is beautiful from any angle.

### High energy saving

Top class high efficiency is achieved by high efficient lambda-shaped heat exchanger, large cross flow fan and new refrigerant.

**SEER** | **A++** | **A+** | **A++** | **A+**
---|---|---|---|---
7.4 | 4.4 | 7.4 | 4.4

* *1 07/09 models  *2 12 model

### Smart device control

A WLAN adapter is included as standard equipment. By installing the AIRSTAGE mobile app on your smart device, you can check and control the operating status of the air conditioner from anywhere indoors or outdoors.

See page C-020 for details on smart device control.

### Comfortable airflow & Quiet operation

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user’s feet with quiet operation.

**20 dB(A)** Cooling only

* *1 It is required when 2 or more external input and output ports are used.

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit</th>
<th>ASEG07KETF</th>
<th>ASEG09KETF</th>
<th>ASEG12KETF</th>
<th>ASEG14KETF</th>
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</thead>
<tbody>
<tr>
<td>Model name (Indoor unit)</td>
<td>ASEG07KETF</td>
<td>ASEG09KETF</td>
<td>ASEG12KETF</td>
<td>ASEG14KETF</td>
<td></td>
</tr>
<tr>
<td>Model name (Outdoor unit)</td>
<td>AOEG07KETA</td>
<td>AOEG09KETA</td>
<td>AOEG12KETA</td>
<td>AOEG14KETA</td>
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<tr>
<td>Airflow Rate Indoor/Outdoor (Cooling) High</td>
<td>650/1,650</td>
<td>700/1,650</td>
<td>700/1,700</td>
<td>770/1,680</td>
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<tr>
<td>Airflow Rate Indoor/Outdoor (Heating) High</td>
<td>720/1,450</td>
<td>750/1,450</td>
<td>770/1,470</td>
<td>800/1,580</td>
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<tr>
<td>Dimensions H x W x D</td>
<td>Indoor mm</td>
<td>541 × 663 × 290</td>
<td>541 × 663 × 290</td>
<td>541 × 663 × 290</td>
<td>542 × 799 × 290</td>
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<tr>
<td>Weight Indoor kg</td>
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<td>11</td>
<td>11</td>
<td>11.5</td>
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<tr>
<td><strong>For ASEG07/09/12KETF</strong></td>
<td><strong>ASEG07KETF-B</strong></td>
<td><strong>ASEG09KETF-B</strong></td>
<td><strong>ASEG12KETF-B</strong></td>
<td><strong>ASEG14KETF-B</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Silver X Dark gray</strong></td>
<td><strong>Silver Ion filter:</strong></td>
<td><strong>Network Convertor for single split (AC power supply type):</strong></td>
<td><strong>Network Convertor for single split (DC power supply type):</strong></td>
<td><strong>Wireless RC:</strong></td>
<td></td>
</tr>
</tbody>
</table>

* See page C-020 for details on smart device control.
**Slime & stylish square design**

The slim and stylish square design of this indoor unit is realized by using a high-density, multipath heat exchanger and a high-efficiency wind blower.

**Warm & gentle color option**

Both white and soft black color are relatively gentle tones and no strong contrast, each color harmonize with the environment and create a warm atmosphere.

**High energy saving**

High efficiency has been achieved by the lambda-shaped heat exchanger, large cross-flow fan, and the new refrigerant.

**Comfortable airflow & Quiet operation**

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user’s feet with quiet operation.

**Smart device control**

A WLAN adapter is included as standard equipment. By installing the AIRSTAGE mobile app on your smart device, you can check and control the operating status of the air conditioner from anywhere indoors or outdoors.

---

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
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<tbody>
<tr>
<td></td>
<td>ASEH07KMCG</td>
<td>ASEH09KMCG</td>
<td>ASEH12KMCG</td>
<td>ASEH14KMCG</td>
</tr>
<tr>
<td></td>
<td>B / ASEH07KMCG-B</td>
<td>ASEH09KMCG</td>
<td>ASEH12KMCG</td>
<td>ASEH14KMCG</td>
</tr>
</tbody>
</table>

**Power Source**

- Single phase, ~230 V, 50 Hz
- **Pdesign Cooling/Heating (-10°C)** kW
  - ASEH07KMCG-B: 2.5
  - ASEH09KMCG-B: 2.8
  - ASEH12KMCG-B: 4.0
  - ASEH14KMCG-B: 5.4

**Cooling Only**

- **Input Power Cooling/Heating kW**
  - ASEH07KMCG-B: 0.9
  - ASEH09KMCG-B: 0.9
  - ASEH12KMCG-B: 0.9
  - ASEH14KMCG-B: 0.9

**Heating Only**

- **Input Power Heating/ Cooling kW**
  - ASEH07KMCG-B: 2.5
  - ASEH09KMCG-B: 2.8
  - ASEH12KMCG-B: 4.0
  - ASEH14KMCG-B: 5.4

**EER Cooling W/W**

- ASEH07KMCG-B: 4.43
- ASEH09KMCG-B: 3.85
- ASEH12KMCG-B: 3.54
- ASEH14KMCG-B: 3.44

**COP Heating 4.52**

- ASEH07KMCG-B: 4.52
- ASEH09KMCG-B: 4.52
- ASEH12KMCG-B: 3.92
- ASEH14KMCG-B: 3.83

**SEER SCOP Heating (Average) 4.60**

- ASEH07KMCG-B: 4.60
- ASEH09KMCG-B: 4.60
- ASEH12KMCG-B: 4.60
- ASEH14KMCG-B: 4.10

**Dimensions (Unit: mm)**

- **H x W x D**
  - ASEH07KMCG-B: 270 x 834 x 222
  - ASEH09KMCG-B: 270 x 834 x 222
  - ASEH12KMCG-B: 270 x 834 x 222
  - ASEH14KMCG-B: 270 x 834 x 222

**Heating Rated 2.5**

- ASEH07KMCG-B: 2.5
- ASEH09KMCG-B: 2.8
- ASEH12KMCG-B: 4.0
- ASEH14KMCG-B: 5.4

**Cooling kWh/a**

- ASEH07KMCG-B: 83
- ASEH09KMCG-B: 104
- ASEH12KMCG-B: 155
- ASEH14KMCG-B: 207

**Preparing for Indoor unit**

- **Refrigerant Type (Global Warming Potential)**
  - R32: 675

**Preparing for Outdoor unit**

- **Capacity**
  - Min.-Max. Heating: 0.9-3.0
  - Min.-Max. Cooling: 0.9-4.4

**Connection Pipe Diameter (Liquid/Gas) mm**

- Liquid: 6.35
- Gas: 10.2

**Sound Pressure Level Indoor (Cooling/Heating) High**

- ASEH07KMCG-B: 46
- ASEH09KMCG-B: 46
- ASEH12KMCG-B: 50
- ASEH14KMCG-B: 50

**Pipe port**

- Gas pipe: 359
- Liquid pipe: 418
- Drain hose: 492

---

### Optional parts

- For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

---

### Dimensions

**Wall-mounted**

- **ASEH07KMCG-B**
  - Indoor unit dimensions: 270 x 834 x 222
  - Outdoor unit dimensions: 763 x 834 x 222

- **ASEH09KMCG-B**
  - Indoor unit dimensions: 270 x 834 x 222
  - Outdoor unit dimensions: 763 x 834 x 222

- **ASEH12KMCG-B**
  - Indoor unit dimensions: 270 x 834 x 222
  - Outdoor unit dimensions: 763 x 834 x 222

- **ASEH14KMCG-B**
  - Indoor unit dimensions: 270 x 834 x 222
  - Outdoor unit dimensions: 763 x 834 x 222

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### Refrigerant cycle monitor (Option)

Wired Remote Controller [Touch Panel] will support to display some sensor values for maintenance and service support.

*Wired remote controller (UTY-NX525 or UTY-NX525) is required.*
**Wall-mounted type**
Built-in WLAN adapter model
ECO Range
Compact Size

**Elegant & smart square design**
An elegant and smart type in the eco range. The delicate shading of the ridge line makes the unit an accessory for the room.

**High energy saving**
The size of the heat exchanger has increased to improve performance, making it more powerful despite its compact size.

**Comfortable airflow & Quiet operation**
The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user’s feet with quiet operation.

**Smart device control**
A WLAN adapter is included as standard equipment. By installing the AIRSTAGE mobile app on your smart device, you can check and control the operating status of the air conditioner from anywhere indoors or outdoors. *See page C-020 for details on smart device control.

---

**Specifications**

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<th>Model Group</th>
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<td><strong>Model name</strong></td>
<td>Indoor unit</td>
<td>Outdoor unit</td>
<td>Indoor unit</td>
</tr>
<tr>
<td><strong>Indoor unit</strong></td>
<td>ASEH07KNCA</td>
<td>ASEH09KNCA</td>
<td>ASEH12KNCA</td>
</tr>
<tr>
<td><strong>Outdoor unit</strong></td>
<td>AOEH07KNCA</td>
<td>AOEH09KNCA</td>
<td>AOEH12KNCA</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>Single phase, ~230 V, 50 Hz</td>
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</tr>
<tr>
<td><strong>Capacity</strong></td>
<td><strong>Cooling</strong> kW</td>
<td><strong>Heating</strong> kW</td>
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</tr>
<tr>
<td></td>
<td>Rated</td>
<td>Min.-Max.</td>
<td>Rated</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>0.9-2.9</td>
<td>2.5</td>
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<tr>
<td></td>
<td>2.5</td>
<td>0.9-3.0</td>
<td>2.8</td>
</tr>
<tr>
<td><strong>Input Power</strong></td>
<td><strong>Cooling/Heating</strong> kW</td>
<td><strong>EER</strong> W/W</td>
<td><strong>COP</strong> Heating</td>
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<tr>
<td></td>
<td>0.50 / 0.58</td>
<td>4.00</td>
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<tr>
<td></td>
<td>0.74 / 0.70</td>
<td>3.38</td>
<td>4.00</td>
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<tr>
<td></td>
<td>1.05 / 1.02</td>
<td>3.24</td>
<td>3.73</td>
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<td><strong>SEER</strong> Cooling W/W</td>
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<td>7.4</td>
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<tr>
<td><strong>SCOP</strong> Heating (Average)</td>
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<td>4.4</td>
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<tr>
<td><strong>Max. Operating Current</strong> Cooling/Heating A</td>
<td>6.5 / 9.0</td>
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<tr>
<td><strong>Annual Energy Consumption</strong> Cooling kWh/a</td>
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<td><strong>Moisture Removal</strong> I/h</td>
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<td><strong>Sound Pressure Level</strong> Indoor (Cooling) H/M/L/Q dB(A)</td>
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<td></td>
<td>Indoor (Heating) H/M/L/Q dB(A)</td>
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<td></td>
<td>Outdoor (Cooling/Heating) High / L / Q dB(A)</td>
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</tr>
<tr>
<td><strong>Airflow Rate</strong> Indoor/Outdoor (Cooling) High m³/h</td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Dimensions</strong> H x W x D mm</td>
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<tr>
<td><strong>Weight</strong> Indoor kg</td>
<td>9</td>
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</tr>
<tr>
<td><strong>Connection Pipe Diameter (Liquid/Gas) mm</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Drain Hose Diameter (I.D./O.D.)</strong></td>
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<tr>
<td><strong>Max. Pipe Length (Pre-Charge) m</strong></td>
<td>20 (15)</td>
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<tr>
<td><strong>Max. Height Difference</strong></td>
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<tr>
<td><strong>Operating Range</strong> Cooling °C</td>
<td>-10 to 50</td>
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<td><strong>Refrigerant Type (Global Warming Potential)</strong> R32 (675)</td>
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<td><strong>Charge kg (CO2eq-T)</strong></td>
<td>0.57 (0.385)</td>
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</tbody>
</table>

---

**Optional parts**
*For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

Silver ion Filter: UTR-FA5-S

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**Dimensions**

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High-energy saving

High efficiency has been achieved by the lambda-shaped heat exchanger, large cross-flow fan, and the new refrigerant.

SEER 7.8* SCOP 4.6*  
*18 model

Hybrid-heat exchanger

The large hybrid heat exchanger has greatly improved the heat exchange efficiency to achieve top-level SEER and SCOP.

Ø 107 Large cross-flow fans

The large-diameter fan generates air volume efficiently even at reduced power.

Smart device control (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

Wireless RC

Easy access to the flare pipe connection

Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.

Specifications

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<th>Single split</th>
<th>ASEG18KMTE</th>
<th>ASEG24KMTE</th>
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<tr>
<td>Capacity</td>
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</tr>
<tr>
<td>Heating</td>
<td>kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refrigerant Type</td>
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</tr>
<tr>
<td>Operating Range Cooling °CDB</td>
<td>kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight Indoor kg</td>
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<tr>
<td>Dimensions Indoor/Outdoor (Cooling) mm</td>
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</tr>
<tr>
<td>Dimensions Indoor/Outdoor (Heating) mm</td>
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</tr>
<tr>
<td>Airflow Rate</td>
<td>m³/h</td>
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<tr>
<td>Operating Range Cooling °CDB</td>
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<tr>
<td>Indoor (Cooling) H/M/L/Q</td>
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</tr>
<tr>
<td>Outdoor (Cooling/Heating) High</td>
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</tr>
<tr>
<td>Power Consumption Cooling/Heating kW</td>
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<tr>
<td>Operating Range Heating °CDB</td>
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Wall-mounted type
Standard Range
High-Efficiency & Large Rooms

Special Cooling
When it is necessary to be constantly cooled such as rooms with a high heat load, it is possible to operate the cooling with keeping performance even when the outside temperature is low.

*Wired remote controller (UTY-RNRYZ5) is required.
*Please note that we will not provide compensation for any damages suffered to your appliances or data as a result of using this function.
*Please use it in low-humidity environments. Condensation and other problems may be caused when used in high-humidity environments.

Human sensor
The Human sensor monitors the movements of people in a room and operates the air conditioner at a lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.

Refrigerant cycle monitor (Option)
Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

*Wired remote controller (UTY-RNRYZ5 or UTY-RVRY) is required.

Smart device control (Option)
With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

* For more information about smart device control, please refer to the page C-020.

Model: ASEH30KMTB / ASEH36KMTB

### Specifications

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### Optional parts

- *For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

### Dimensions

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Wall-mounted type
ECO Range
Compact Size

Slim & stylish square design
The slim and stylish square design of this indoor unit is realized by using a high-density, multipath heat exchanger and a high-efficiency wind blower.

High energy saving
High efficiency has been achieved by the lambda-shaped heat exchanger, large cross-flow fan, and the new refrigerant.

Comfortable airflow & Quiet operation
The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user’s feet with quiet operation.

Smart device control (Option)
With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

Easy access to the flare pipe connection
Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.

Specifications

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<tr>
<td>W 784 mm</td>
<td>H 270 mm</td>
<td></td>
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<tr>
<td>H 321 mm</td>
<td>D 224 mm</td>
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<table>
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<th>Dimensions</th>
<th>Indoor</th>
<th>Outdoor</th>
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<tbody>
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<td>(Unit: mm)</td>
<td>H x W x D</td>
<td>H x W x D</td>
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<td>Indoor</td>
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<td>270 × 784 × 224</td>
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<td>541 × 663 × 290</td>
<td>541 × 663 × 290</td>
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<thead>
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<th>Weight</th>
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<th>Outdoor</th>
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<tr>
<td>kg</td>
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<td>23</td>
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| Pipe port | Ø65 |

<table>
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<tr>
<th>Operating Range Cooling</th>
<th>°CDB</th>
<th>°CWB</th>
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<tbody>
<tr>
<td>Min.</td>
<td>-10</td>
<td>-15</td>
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<tr>
<td>Max.</td>
<td>46</td>
<td>24</td>
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<table>
<thead>
<tr>
<th>Refrigerant Type</th>
<th>R32 (675)</th>
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</thead>
<tbody>
<tr>
<td>Charge kg (CO2eq-T)</td>
<td>0.55 (0.371)</td>
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</tbody>
</table>

Optional parts
- WLAN adapter: UTY-15ES2
- UTY-15ES4
- Silver ion Filter: UTR-FA16-5

For more information about optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.
Narrow width & Compact design
Compact and versatile. Powerful airflow is realized despite the 790-mm width compact design for small spaces such as bedrooms or home offices.

Economy operation
Set temperature automatically increases or decreases by 1°C. The thermostat setting is adjusted automatically according to the room temperature to avoid unnecessary cooling or heating.

Powerful operation
In powerful operation mode, the compressor operates at maximum speed for 20 minutes to provide a powerful airflow. Rapid cooling and heating makes the room comfortable quickly.

ON-OFF programmable timer
You can set ON/OFF or OFF/ON times depending on your lifestyle needs. (Setting time: 0.5, 1, 1.5, 2, 2.5, ..., 9.5, 10, 11, 12 hours)

Low ambient operation
-15°C
-10°C
-5°C
0°C
5°C
10°C
15°C
-15°C
Heating
Cooling

Specifications

<table>
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<th>ASEG18KLCA</th>
<th>ASEG24KLCA</th>
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<td>Single phase, ~230 V, 50 Hz</td>
<td>Single phase, ~230 V, 50 Hz</td>
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<tr>
<td>Capacity</td>
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<tr>
<td>Cooling</td>
<td>kW</td>
<td>5.2</td>
<td>7.1</td>
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<td>Min.-Max.</td>
<td>kW</td>
<td>0.9-5.5</td>
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<td>Min.-Max.</td>
<td>kW</td>
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<td>Heating 1563</td>
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<td>Drain Hose Diameter (I.D./O.D.)</td>
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<td>Max. Pipe Length (Pre-Charge) m</td>
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<td>-10 to 46</td>
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<td>Heating</td>
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<td>-15 to 24</td>
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Optional parts
Silver Ion Filter: UTR-FA0-5

Dimensions

| Indoor unit | 790 x 293 x 249 |
| Liquid pipe | Gas pipe |
| Drain hose | Connection pipe |
| 327 | 330 | 10 | 57 |

UTR-FA0-5
Wall-mounted type
ECO Range
Cooling-enhanced type

Highly efficient operation even at high outdoor temperatures

Even when installed in areas with high outdoor air temperatures (Max. 52°C*), it is comfortable because it can cool the interior well.

* suction temperature of the outdoor unit

MINIMAL SMART design

The new smart design eliminates mechanical elements and offers a sophisticated, premium impression.

Its compact size, with a width of 770 mm, allows for flexible installation in limited room space.

Comfortable airflow & Quiet operation

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user’s feet with quiet operation.

Smart device control (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

* For more information about smart device control, please refer to the page C-020.

Specifications

<table>
<thead>
<tr>
<th>Model Group</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
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<tr>
<td>Power Source</td>
<td>Single phase</td>
<td>Single phase</td>
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<tr>
<td>Capacity</td>
<td>Cooling</td>
<td>Heating</td>
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<td>Heating</td>
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<td>W/W</td>
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<td>Heating (Average)</td>
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<td>A++</td>
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<td>Heating</td>
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<td>A</td>
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<td>kWh/a</td>
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Dimensions

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<th>Indoor Unit</th>
<th>Outdoor Unit</th>
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<tbody>
<tr>
<td>Dimensions</td>
<td>H x W x D (mm)</td>
<td>H x W x D (mm)</td>
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<td>Indoor</td>
<td>250 × 770 × 218</td>
<td>250 × 770 × 218</td>
</tr>
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<td>Outdoor</td>
<td>541 × 663 × 290</td>
<td>541 × 663 × 290</td>
</tr>
<tr>
<td>Weight</td>
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<tr>
<td>7.5</td>
<td>Outdoor</td>
<td>19</td>
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<td>22</td>
<td>Connection Pipe Diameter (Liquid/Gas)</td>
<td>6.35 / 9.52</td>
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<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
<td>13.8 / 15 to 16.8</td>
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</tr>
<tr>
<td>Max. Pipe Length (Pre-Charge)</td>
<td>m</td>
<td>20 (15)</td>
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<td>Max. Height Difference</td>
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Operating Range

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<th>Condition</th>
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<th>Heating °C/°F</th>
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<td>Heating</td>
<td>CD</td>
<td>-15 to 24</td>
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Refrigerant Type (Global Warming Potential)

<table>
<thead>
<tr>
<th>Type</th>
<th>R32 (675)</th>
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</table>

Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

WLAN adapter: ULT-TF5002
ULT-TF5003
Silver Ion Filter: ULT-FIAS-5

Wireless RC
UTY-TFSXF2
UTY-TFSXH3
UTR-FA16-5
Compact and stylish panel design

The compact and stylish panel fits nicely into a grid type ceiling. Its linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.

Easy maintenance

You can access the unit for maintenance simply by removing a ceiling panel next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.

Flexible installation

The unit fits nicely into the decor of a grid-type ceiling and can be installed near the lighting or a ventilation opening.

Link up with a variety of central control system (Option)

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.
Unique circular flow design

The Cassette model realizes a Circular Flow to blow a large airflow in a 360° direction by using a high-performance DC fan motor, turbo fan, and a unique seamless airflow louver design.

Individual louver control

Each louver can be controlled individually with a wired remote controller equipped with a touch panel to provide different directional airflows according to the room layout.

*Wired remote controller (touch panel): UTG-UKYA-B only

Compact and lightweight outdoor unit

The outdoor units for the 45,000 BTU and 54,000 BTU models have been completely redesigned. Easier installation is achieved for this compact and lightweight outdoor unit.

Link up with a variety of central control system (Option)

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MIOBUS, KNX interfaces.

Various black and white grilles are available. Three types of grilles are available: a white grille with a remote controller; a white grille without a remote controller; and a black grille without a remote controller. Select to match the atmosphere and/or usage of the room.

The Human sensor yields more energy savings.

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

AUXG18/22/24KRLB For AUXG18/22/24KRLB
AUXG30/36/45/54KRLB For AUXG30/36/45/54KRLB
AUXG70/80/90KRLB For AUXG70/80/90KRLB

For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

840: Indoor unit
841: Outdoor unit
950: Ceiling
768: Bolt pitch
40: Drain hose
200: Control box
120: Liquid pipe
40164: Gas pipe
256 298: Silver Ion Filter:
18/22/24KRLB
30/36/45/54KRLB
3/4/5 phase

Cassette
Circular Flow Range
Comfort for Large Rooms

SPLIT
provides a comfortable airflow. The optional clean-looking flat Auto louver grille kit (Option)

Slim Design

The slim design fits nicely into narrow spaces under the ceiling. Drain hose as standard accessory.

Compact and lightweight outdoor unit

The compact and lightweight outdoor unit offers greater flexibility in the choice of installation location. This makes it easier to use this outdoor unit.

Wide range of static pressures

The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa. The static pressure range can be changed by a remote controller.

Auto louver grille kit (Option)

The optional clean-looking flat Auto louver grille kit (Option) blends into any interior and provides a comfortable airflow.

Link up with a variety of central control system (Option)

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Static pressure range

The static pressure range can be changed by a remote controller. between 0 and 90 Pa.

The use of a DC fan motor makes it possible to adjust the static pressure in the choice of installation location. This makes it easier to use this outdoor unit.

The compact and lightweight outdoor unit offers greater flexibility in the choice of installation location. This makes it easier to use this outdoor unit.

Wide range of static pressures

The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa. The static pressure range can be changed by a remote controller.

Auto louver grille kit (Option)

The optional clean-looking flat Auto louver grille kit (Option) blends into any interior and provides a comfortable airflow.

Link up with a variety of central control system (Option)

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.
**Slim & Compact design**

The new product has reduced the height to 240 mm, making it more compact. The slim design fits nicely into narrow spaces under the ceiling.

**High energy saving**

The new model has achieved high energy efficiency rank with a compact design.

**Easy maintenance**

The indoor units have large panels on both sides providing easy maintenance in narrow spaces.

**Drain hose as standard**

A drain hose is a standard accessory, making it easy to design drainage even in narrow spaces under the ceiling.

**Wide range of static pressures**

Static pressures can be changed in the range of 30 to 150 Pa.
Medium Static Pressure Duct
High-Efficiency & Comfort

Slim & Compact design
The new product has reduced the height to 240 mm, making it more compact. The slim design fits nicely into narrow spaces under the ceiling.

High energy saving
The new model has achieved high energy efficiency rank with a compact design.

Easy maintenance
The indoor units have large panels on both sides providing easy maintenance in narrow spaces.

Drain hose as standard
A drain hose is a standard accessory, making it easy to design drainage even in narrow spaces under the ceiling.

Wide range of static pressures
Static pressures can be changed in the range of 30 to 150 Pa.

Easy cleaning of the heat exchanger
The whole drain hose can be removed for easy replacement and cleaning.

Filter change
Filter can be installed and removed easily.

SPLIT

Operating Range
Indoor (Heating) H/M/L/Q 38 / 34 / 31 / 28 38 / 34 / 31 / 28 40 / 36 / 32 / 29 38 / 34 / 31 / 28 40 / 36 / 32 / 29 40 / 36 / 32 / 29

Indoor (Cooling) H/M/L/Q 130 160 190 130 160 160

Model name
AOEG30KBTB AOEG36KBTB AOEG45KBTB AOEG36KRTA AOEG45KRTA AOEG54KRTA

Power Source
Single phase, ~230 V, 50 Hz 3-phase, ~400 V, 50 Hz

Capacity
Cooling kW 2.57 / 2.50 2.97 / 2.70 3.87 / 3.73 2.97 / 2.70 3.87 / 3.73 4.62 / 4.65
Heating kW 10.0 10.8 13.5 10.8 13.5 15.5

EER
Cooling W/W 3.31 3.20 3.13 3.20 3.13 2.90
Heating -15 to 24 -15 to 24 -15 to 24 -15 to 24 -15 to 24 -15 to 24

Sound Power Level
Indoor (Cooling/Heating) High 64 / 64 65 / 65 67 / 67 65 / 65 67 / 67 67 / 67


Connection Pipe Diameter (Liquid/Gas) mm 9.52 / 15.88 9.52 / 15.88 9.52 / 15.88 9.52 / 15.88 9.52 / 15.88 9.52 / 15.88

Weight
Indoor kg 42 42 42 42 42 42

Max. Pipe Length (Pre-Charge) m 50 (30) 50 (30) 50 (30) 50 (30) 50 (30) 50 (30)

Static pressure range (Standard) Pa 30 to 150 (50) 30 to 150 (50) 30 to 150 (60) 30 to 150 (50) 30 to 150 (60) 30 to 150 (60)

Max. Height Difference 30 30 30 30 30 30

Energy Efficiency
SEER SCOP Heating (Average) 6.23 4.10 4.10 4.10 4.10 4.10

For ARXH30/36KMTAP For ARXH45/54KMTAP
Automatically adjust each application case and automatically adjust the volume. This unique and innovative function detects required air flow in the outdoor unit in this series is smaller and lighter than previous.

Small, lightweight outdoor unit
The outdoor unit in this series is smaller and lighter than previous-generation outdoor units. It can be installed in a narrow space.

Automatic airflow adjustment function
This unique and innovative function detects required air flow in each application case and automatically adjust the volume.

High-efficiency & Quiet operation
The combination of the V-shaped heat exchanger, air stabilizer, and the high-efficiency DC fan motor enable high-efficiency and quiet operation.

Compact Size

Pressure Duct

Sound Pressure Level


Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ARXG12KHTAP</th>
<th>ARXG14KHTAP</th>
<th>ARXG18KHTAP</th>
<th>ARXG22KHTAP</th>
<th>ARXG24KHTAP</th>
<th>ARXG30KHTAP</th>
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<tr>
<td>Capacity</td>
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<td>Cooling</td>
<td>Heating</td>
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<td>4.3</td>
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<td>Single Phase</td>
<td>Single Phase</td>
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<td>COP</td>
<td>SEER</td>
<td>COP</td>
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<td>-17.5%</td>
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<td>-17.5%</td>
<td>-17.5%</td>
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</table>

Optional parts
* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

Link up with a variety of central control system (Option)
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Medium Static Pressure Duct
Compact Size

High-efficiency DC fan motor
Lower power consumption

Y-shaped heat exchanger

High-efficiency & Quiet operation
The combination of the V-shaped heat exchanger, air stabilizer, and the high-efficiency DC fan motor enable high-efficiency and quiet operation.
Automatically adjust each application case and automatically adjust the volume. This unique and innovative function detects required air flow in generation outdoor units. It can be installed in a narrow space.

Small, lightweight outdoor unit
The outdoor unit in this series is smaller and lighter than previous-generation outdoor units. It can be installed in a narrow space.

Automatic airflow adjustment function
This unique and innovative function detects required air flow in each application case and automatically adjust the volume.

Link up with a variety of central control system (Option)
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

---

### Specifications

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<thead>
<tr>
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<th>Capacity (Heating)</th>
<th>Capacity (Cooling)</th>
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<th>Power Consumption</th>
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<th>SEER</th>
<th>COP Heating</th>
<th>COP Cooling</th>
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<td>ARXG36/45/54KHTAP</td>
<td>3-phase</td>
<td>9.5/8.7</td>
<td>3.32</td>
<td>2.86/2.48</td>
<td>2.86/2.48</td>
<td>3.32</td>
<td>3.43</td>
<td>4.35</td>
<td>3.43</td>
</tr>
<tr>
<td>ARXG36/45/54KHTAP</td>
<td>3-phase</td>
<td>9.5/8.7</td>
<td>3.32</td>
<td>2.86/2.48</td>
<td>2.86/2.48</td>
<td>3.32</td>
<td>3.43</td>
<td>4.35</td>
<td>3.43</td>
</tr>
</tbody>
</table>

---

### Optional parts

- **Remote Control Unit**
  - Wired Remote Controller: UTY-RC1
- **Communication Interface**
  - MODBUS interface: UTD-IF2
- **Power Supply**
  - Universal Power Supply: UTD-VS12
  - Network Converter for single split (DC power supply type): UTD-VG2
  - Network Converter for single split (AC power supply type): UTD-VG1

---

### Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>Model code</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARXG36/45/54KHTAP</td>
<td>3-phase</td>
<td><img src="https://via.placeholder.com/150" alt="Diagram" /></td>
</tr>
</tbody>
</table>
Easy maintenance

Structural improvement is attained by making the bottom panel in two pieces—upper and lower. As a result, the motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing while leaving the main chassis in place.

Slim & Compact design

Indoor Unit

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

Outdoor Unit

The outdoor units for the 45,000 BTU and 54,000 BTU models have been completely redesigned. Easier installation is achieved for this compact and lightweight outdoor unit.

Two-direction drain piping

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.
Low noise

Slanted corners at the top help reduce turbulent airflow. Low noise is realized by adopting a plastic case and a plastic fan.

Design also suits high static pressure

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Easy installation (Compact & Lightweight)

The indoor and outdoor units are designed to be compact and light by reducing the basic chassis size and the overall material weight.

Low noise is realized by adopting a plastic case and a plastic fan. Slanted corners at the top help reduce turbulent airflow. Low noise design also suits high static pressure reducing the basic chassis size and the overall material weight.
High energy efficiency
Much greater efficiency is achieved by the use of all-DC inverter technology.

Design also corresponding to high static pressure
Easy installation (Compact & Lightweight)
The indoor unit is designed to be compact and light by reducing the basic chassis size and the overall material weight.

Low noise
Slanted corners at the top help reduce turbulent airflow. Low noise is realized by adopting a plastic case and a plastic fan.

Link up with a variety of central control system (Option)
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARYG60LHTA</td>
<td>ARG60LHTA</td>
<td>AOG60LATT</td>
</tr>
<tr>
<td>Power Source</td>
<td>3-phase, 400 V, 50 Hz</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>Cooling</td>
<td>Min.-Max. kW</td>
</tr>
<tr>
<td>Heating</td>
<td>Min.-Max. kW</td>
<td></td>
</tr>
<tr>
<td>Energy Input</td>
<td>Cooling</td>
<td>kW</td>
</tr>
<tr>
<td>Heating</td>
<td>kW</td>
<td></td>
</tr>
<tr>
<td>Static pressure</td>
<td>Indoor</td>
<td>Pa</td>
</tr>
<tr>
<td>Outdoor</td>
<td>Pa</td>
<td></td>
</tr>
<tr>
<td>Sound Pressure</td>
<td>Indoor (Cooling)</td>
<td>dB(A)</td>
</tr>
<tr>
<td>Heating</td>
<td>dB(A)</td>
<td></td>
</tr>
<tr>
<td>Outdoor (Cooling/Heating)</td>
<td>High</td>
<td>dB(A)</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Indoor (Cooling)</td>
<td>m³/h</td>
</tr>
<tr>
<td>Outdoor (Cooling/Heating)</td>
<td>High</td>
<td>m³/h</td>
</tr>
<tr>
<td>Static pressure range (Standard)</td>
<td>Pa</td>
<td></td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>Indoor</td>
<td>mm</td>
</tr>
<tr>
<td>Outdoor</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Indoor</td>
<td>kg</td>
</tr>
<tr>
<td>Outdoor</td>
<td>kg</td>
<td></td>
</tr>
<tr>
<td>Connection Pipe Diameter (Liquid/Gas)</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
<td>mm</td>
<td></td>
</tr>
<tr>
<td>Max. Pipe Length (Pre-Charge)</td>
<td>m</td>
<td></td>
</tr>
<tr>
<td>Max. Height Difference</td>
<td>m</td>
<td></td>
</tr>
<tr>
<td>Operating Range</td>
<td>Cooling</td>
<td>°C</td>
</tr>
<tr>
<td>Heating</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>Refrigerant Type</td>
<td>R410A (2,088)</td>
<td></td>
</tr>
<tr>
<td>Charge (CO2eq-T)</td>
<td>kg</td>
<td></td>
</tr>
</tbody>
</table>

Model: ARYG60LHTA [3-phase]

Optional parts

- Wired remote controller:
- Wired remote controller:
- External switch controller:
- WLAN adapter:
- Remote sensor unit:
- IR receiver unit

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.

Service

- Air outlet
- Air inlet
- Hanger
- Gas pipe
- Liquid pipe
- Safety drain pan
- Main drain pan

*The design of the service access depends on the installation method. Refer to the installation manual for more information.
Big Duct

Splittable, lightweight, and compact design

The indoor unit can be split into a fan unit and a heat exchanger unit to make installation easier.

Quiet operation

The combination of a V-shaped heat exchanger, an air stabilizer, and a high-efficiency DC fan motor enables this compact unit to operate quietly.

Automatic airflow adjustment function

The optimum airflow can be set automatically to facilitate faster installation.

Link up with a variety of central control system (Option)

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARYG72LHTA</th>
<th>ARYG90LHTA</th>
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</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Indoor</td>
<td>Single phase, 230V, 50Hz</td>
</tr>
<tr>
<td>Capacity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling (Rated)</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Min.-Max.</td>
<td>19.0</td>
<td>22.0</td>
</tr>
<tr>
<td>Heating (Rated)</td>
<td>22.4</td>
<td>27.0</td>
</tr>
<tr>
<td>Min.-Max.</td>
<td>7.2-24.6</td>
<td>8.5-29.7</td>
</tr>
<tr>
<td>Input Power (Cooling)</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Social pressure</td>
<td>Pa</td>
<td>Pa</td>
</tr>
<tr>
<td>Airflow Rate (Cooling)</td>
<td>m³/h</td>
<td>m³/h</td>
</tr>
<tr>
<td>Min.-Max.</td>
<td>4,300</td>
<td>8,400</td>
</tr>
<tr>
<td>Min.-Max.</td>
<td>4,300</td>
<td>9,000</td>
</tr>
<tr>
<td>Static pressure</td>
<td>Pa</td>
<td>Pa</td>
</tr>
<tr>
<td>Outdoor (Cooling)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Range</td>
<td>Cooling °C</td>
<td>Heating °C</td>
</tr>
<tr>
<td>Min.-Max.</td>
<td>-15 to 46</td>
<td>-20 to 24</td>
</tr>
<tr>
<td>Sensor resistance</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Min.-Max.</td>
<td>5.6 (11.693)</td>
<td>7.1 (14.825)</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>kg</td>
</tr>
<tr>
<td>Outdoor (Cooling)</td>
<td>165</td>
<td>174</td>
</tr>
</tbody>
</table>

Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list on page C-050 to C-053 and C-066.

Dimensions

- The design of the service access depends on the installation method. Refer to the installation manual for more information.

Automatic airflow adjustment function

The optimum airflow can be set automatically to facilitate faster installation.

Link up with a variety of central control system (Option)

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.
**Smart device control (Option)**

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smartphone.

* See page C-056 for details on how to use your smartphone.

---

**Flexible & easy installation**

The compact and whole-surface suction design provides flexible installation options, including floor-standing, embedded, half concealed, and wall mount installation to match the room layout.

---

**Low ambient operation**

Factory guaranteed cooling operation down to -10°C ambient temperature.

---

**High energy saving**

The Floor 09 class achieves a top-class SEER of 8.50 and an A+++ seasonal efficiency rank for cooling.

---

**10°C heat**

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.
Light elegant design
The light-elegant, gently curved surface gives a sense of comfort and well-being.

Easy installation
The indoor unit can be easily installed under the ceiling thanks to the uniquely designed mounting kit.
1. Set mounting brackets
2. Hold up the ceiling unit and fit to the mounting brackets
3. Attach with screws

Easy maintenance
The front panel can be opened without removing it for safe & speedy maintenance.

Flexible installation
The drain hose and pipe can be contained in the casing and connected in the right, left, angled, or downward direction.

Link up with a variety of central control system (Option)
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Model code</th>
<th>1.8kW (Cool)</th>
<th>2.2kW (Cool)</th>
<th>2.5kW (Cool)</th>
<th>3.6kW (Cool)</th>
<th>4.5kW (Cool)</th>
<th>5.4kW (Cool)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Cooling</td>
<td>Heating</td>
<td>Heating</td>
<td>Heating</td>
<td>Heating</td>
<td>Heating</td>
<td>Heating</td>
</tr>
<tr>
<td>Capacity</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Power</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Operating Range</td>
<td>°CDB</td>
<td>°CDB</td>
<td>°CDB</td>
<td>°CDB</td>
<td>°CDB</td>
<td>°CDB</td>
<td>°CDB</td>
</tr>
<tr>
<td>Weight Indoor</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
<td>kg</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
</tbody>
</table>

Optional parts

- For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-050 to C-053 and C-066.
### Designer Series
#### High Spec & Design (WLAN adapter Internal Models)

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYG07KGTE</td>
<td>ASYG07KGTE</td>
<td>AOYG07KGCA</td>
<td>ASYG09KGTE</td>
<td>AOYG09KGCA</td>
</tr>
<tr>
<td>ASYG12KGTE</td>
<td>ASYG12KGTE</td>
<td>AOYG12KGCA</td>
<td>ASYG14KGTE</td>
<td>AOYG14KGCA</td>
</tr>
<tr>
<td>ASYG14KGTE</td>
<td>ASYG14KGTE</td>
<td>AOYG14KGCA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Capacity**
- **Cooling Rated kW**
  - 2.0
  - 2.5
  - 3.4
  - 4.2
- **Min.-Max. kW**
  - 0.9-3.2
  - 0.9-3.4
  - 0.9-4.1
  - 0.9-4.5
- **Heating Rated kW**
  - 2.5
  - 2.8
  - 4.0
  - 5.4
- **Min.-Max. kW**
  - 0.9-5.2
  - 0.9-5.4
  - 0.9-6.1
  - 0.9-6.4

**Input Power Cooling/Heating kW**
- 0.400/0.500
- 0.555/0.560
- 0.805/0.910
- 1.175/1.350

**EER Cooling W/W**
- 5.00
- 4.50
- 4.22
- 3.57

**COP Heating**
- 5.00
- 5.00
- 4.40
- 4.00

**Pdesign Cooling/Heating (-10°C) kW**
- 2.0/2.3
- 2.5/2.4
- 3.4/2.5
- 4.2/4.0

**SEER Cooling W/W**
- 9.10
- 9.20
- 9.20
- 8.30

**SCOP Heating (Average)**
- 5.30
- 5.20
- 5.20
- 4.50

**Energy Efficiency Class**
- **Cooling**
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A++ (WLAN adapter)
- **Heating (Average)**
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A+ (WLAN adapter)

**Max. Operating Current Cooling/Heating A**
- 6.5/9.0
- 6.5/9.0
- 6.5/9.0
- 9.0/10.5

**Annual Energy Consumption Cooling kWh/a**
- 77
- 95
- 129
- 177

**Moisture Removal I/h**
- 1.0
- 1.3
- 1.8
- 2.1

**Sound Pressure Level Indoor (Cooling) dB(A)**
- 38/33/29/19
- 40/34/29/19
- 40/35/30/19
- 43/36/30/20

**Sound Pressure Level Indoor (Heating) dB(A)**
- 41/35/31/21
- 42/36/31/21
- 42/38/33/21
- 44/39/33/24

**Sound Power Level Indoor (Cooling/Heating) dB(A)**
- 54/56
- 55/57
- 56/58
- 57/59

**Airflow Rate Indoor/Outdoor (Cooling) m³/h**
- 650/1,610
- 700/1,610
- 700/1,680
- 770/1,680

**Net Dimensions H x W x D mm**
- 270 × 834 × 215
- 270 × 834 × 215
- 270 × 834 × 215
- 270 × 834 × 215

**Weight Indoor kg**
- 10
- 10
- 10
- 10

**Weight Outdoor kg**
- 30
- 30
- 31
- 32

**Connection Pipe Diameter (Liquid/Gas) mm**
- 6.35/9.52

**Drain Hose Diameter (I.D./O.D.) mm**
- 13.8/15.0 to 16.8

**Max. Pipe Length (Pre-Charge) m**
- 20

**Max. Height Difference**
- 15

**Operating Range Cooling °CDB**
- -10 to 46

**Heating °CDB**
- -15 to 24

**Refrigerant Type (Global Warming Potential)**
- R32 (675)

**Charge kg (CO2eq-T)**
- 0.75 (0.506)
- 0.75 (0.506)
- 0.85 (0.574)
- 0.85 (0.574)

---

### Designer Series
#### High Spec & Design (WLAN adapter Option Models)

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYG07KGTF</td>
<td>ASYG07KGTF</td>
<td>AOYG07KGCB</td>
<td>ASYG09KGTF</td>
<td>AOYG09KGCB</td>
</tr>
<tr>
<td>ASYG12KGTF</td>
<td>ASYG12KGTF</td>
<td>AOYG12KGCB</td>
<td>ASYG14KGTF</td>
<td>AOYG14KGCB</td>
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<tr>
<td>ASYG14KGTF</td>
<td>ASYG14KGTF</td>
<td>AOYG14KGCB</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Capacity**
- **Cooling Rated kW**
  - 2.0
  - 2.5
  - 3.4
  - 4.2
- **Min.-Max. kW**
  - 0.9-3.2
  - 0.9-3.4
  - 0.9-4.1
  - 0.9-4.5
- **Heating Rated kW**
  - 2.5
  - 2.8
  - 4.0
  - 5.4
- **Min.-Max. kW**
  - 0.9-5.2
  - 0.9-5.4
  - 0.9-6.1
  - 0.9-6.4

**Input Power Cooling/Heating kW**
- 0.400/0.500
- 0.555/0.560
- 0.805/0.910
- 1.175/1.350

**EER Cooling W/W**
- 5.00
- 4.50
- 4.22
- 3.57

**COP Heating**
- 5.00
- 5.00
- 4.40
- 4.00

**Pdesign Cooling/Heating (-10°C) kW**
- 2.0/2.3
- 2.5/2.4
- 3.4/2.5
- 4.2/4.0

**SEER Cooling W/W**
- 8.10
- 8.90
- 8.70
- 7.90

**SCOP Heating (Average)**
- 5.30
- 5.20
- 5.20
- 4.50

**Energy Efficiency Class**
- **Cooling**
  - A++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A++ (WLAN adapter)
- **Heating (Average)**
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A+++ (WLAN adapter)
  - A+ (WLAN adapter)

**Max. Operating Current Cooling/Heating A**
- 6.5/9.0
- 6.5/9.0
- 6.5/9.0
- 9.0/10.5

**Annual Energy Consumption Cooling kWh/a**
- 86
- 98
- 137
- 186

**Moisture Removal I/h**
- 1.0
- 1.3
- 1.8
- 2.1

**Sound Pressure Level Indoor (Cooling) dB(A)**
- 38/33/29/19
- 40/34/29/19
- 40/35/30/19
- 43/36/30/20

**Sound Pressure Level Indoor (Heating) dB(A)**
- 41/35/31/21
- 42/36/31/21
- 42/38/33/21
- 44/39/33/24

**Sound Power Level Indoor (Cooling/Heating) dB(A)**
- 54/56
- 55/57
- 56/58
- 57/59

**Airflow Rate Indoor/Outdoor (Cooling) m³/h**
- 650/1,610
- 700/1,610
- 700/1,680
- 770/1,680

**Net Dimensions H x W x D mm**
- 270 × 834 × 215
- 270 × 834 × 215
- 270 × 834 × 215
- 270 × 834 × 215

**Weight Indoor kg**
- 10
- 10
- 10
- 10

**Weight Outdoor kg**
- 30
- 30
- 31
- 32

**Connection Pipe Diameter (Liquid/Gas) mm**
- 6.35/9.52

**Drain Hose Diameter (I.D./O.D.) mm**
- 13.8/15.0 to 16.8

**Max. Pipe Length (Pre-Charge) m**
- 20

**Max. Height Difference**
- 15

**Operating Range Cooling °CDB**
- -10 to 46

**Heating °CDB**
- -15 to 24

**Refrigerant Type (Global Warming Potential)**
- R32 (675)

**Charge kg (CO2eq-T)**
- 0.75 (0.506)
- 0.75 (0.506)
- 0.85 (0.574)
- 0.85 (0.574)
### Designer Series
#### Cool Beauty Design

#### ECO Series Lineup

<table>
<thead>
<tr>
<th>Specification</th>
<th>Model Name</th>
<th>Single Phase</th>
<th>Refrigerant Type (GWP)</th>
<th>Charge (kgs CO₂eq)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Indoor (Cooling)</td>
<td>240V, 50Hz</td>
<td>R32 (675)</td>
<td>0.6 (0.405)</td>
</tr>
<tr>
<td></td>
<td>Indoor (Heating)</td>
<td>240V, 50Hz</td>
<td>R32 (675)</td>
<td>0.6 (0.405)</td>
</tr>
<tr>
<td></td>
<td>Outdoor (Cooling)</td>
<td>240V, 50Hz</td>
<td>R32 (675)</td>
<td>0.7 (0.473)</td>
</tr>
<tr>
<td></td>
<td>Outdoor (Heating)</td>
<td>240V, 50Hz</td>
<td>R32 (675)</td>
<td>0.85 (0.574)</td>
</tr>
</tbody>
</table>

#### Standard Series
#### High-Efficiency & Comfort

<table>
<thead>
<tr>
<th>Specification</th>
<th>Model Name</th>
<th>Single Phase</th>
<th>Refrigerant Type (GWP)</th>
<th>Charge (kgs CO₂eq)</th>
</tr>
</thead>
<tbody>
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<td>0.6 (0.405)</td>
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### Compact Cassette

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<td>Pdesign</td>
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<td>COP Heating</td>
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<td>3.50</td>
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<tr>
<td>EER Cooling</td>
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<td>W/W</td>
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<td>m</td>
</tr>
<tr>
<td>Outdoor (Cooling/Heating) High</td>
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<td>m</td>
</tr>
<tr>
<td>Indoor/Outdoor (Heating) High</td>
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<tr>
<td>Outdoor (Cooling/Heating) High</td>
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<tr>
<td>Drain port Diameter (I.D./O.D.)</td>
<td>mm</td>
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<td>Sound Power Level Indoor (Cooling/Heating) High</td>
<td>dB(A)</td>
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<tr>
<td>Sound Power Level Outdoor (Cooling/Heating) High</td>
<td>dB(A)</td>
<td>dB(A)</td>
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### Circular Cassette (Large type)

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<td>W/W</td>
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<tr>
<td>EER Heating</td>
<td>W/W</td>
<td>W/W</td>
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<td>dB(A)</td>
<td>dB(A)</td>
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### Slim Duct

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<td>Outdoor (Cooling/Heating) High</td>
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<td>Drain port Diameter (I.D./O.D.)</td>
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<td>Sound Power Level Indoor (Cooling/Heating) High</td>
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*IR Receiver kit and Human sensor kit cannot be connected.*
### Medium Static Pressure Duct (High-Efficiency & Comfort)

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#### Power Source
- **Cooling**: Single phase, ~230 V, 50 Hz
- **Heating**: 3-phase, ~400 V, 50 Hz

#### Capacity
- **Cooling**: 6.0 kW
- **Heating**: 10.0 kW

#### Input Power
- **Cooling**: 3.0 kW
- **Heating**: 2.8 kW

#### Static Pressure Range (Standard)
- **Cooling**: 5.60 Pa
- **Heating**: 6.35 Pa

#### Operating Range
- **Cooling**: -10°C to 46°C
- **Heating**: -15°C to 24°C

#### Airflow Rate
- **Cooling**: 1,950 / 3,750 m³/h
- **Heating**: 1,950 / 3,750 m³/h

#### Indoor Unit Dimensions
- **Height**: 29 / 27 / 25 / 23 cm
- **Width**: 32 / 29 / 27 / 25 cm
- **Depth**: 25 / 20 cm

#### Outdoor Unit Dimensions
- **Height**: 116 / 115 / 114 / 114 cm
- **Width**: 98 / 98 / 98 / 98 cm
- **Depth**: 70 / 71 / 72 / 72 cm

#### Outdoor Unit Weight
- **Cooling**: 53 kg
- **Heating**: 54 kg

#### Energy Efficiency
- **EER Cooling**: 3.16
- **SEER Cooling**: 5.80

#### Refrigerant Type
- Global Warming Potential: 675

#### Charge
- **CO2eq-T**: 0.9 kg (0.608 t)

---

### Medium Static Pressure Duct (Standard)

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<thead>
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- **Cooling**: Single phase, ~230 V, 50 Hz
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#### Capacity
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#### Airflow Rate
- **Cooling**: 1,950 / 3,750 m³/h
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#### Indoor Unit Dimensions
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#### Outdoor Unit Weight
- **Cooling**: 53 kg
- **Heating**: 54 kg

#### Energy Efficiency
- **EER Cooling**: 3.16
- **SEER Cooling**: 5.80

#### Refrigerant Type
- Global Warming Potential: 675

#### Charge
- **CO2eq-T**: 0.9 kg (0.608 t)

---

### Ceiling

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#### Power Source
- **Cooling**: Single phase, ~230 V, 50 Hz
- **Heating**: 3-phase, ~400 V, 50 Hz

#### Capacity
- **Cooling**: 6.0 kW
- **Heating**: 10.0 kW

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#### Static Pressure Range (Standard)
- **Cooling**: 5.60 Pa
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- **Cooling**: -10°C to 46°C
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#### Airflow Rate
- **Cooling**: 1,950 / 3,750 m³/h
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#### Indoor Unit Dimensions
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#### Outdoor Unit Dimensions
- **Height**: 116 / 115 / 114 / 114 cm
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- **Cooling**: 53 kg
- **Heating**: 54 kg

#### Energy Efficiency
- **EER Cooling**: 3.16
- **SEER Cooling**: 5.80

#### Refrigerant Type
- Global Warming Potential: 675

#### Charge
- **CO2eq-T**: 0.9 kg (0.608 t)
# Feature Summary

## Type

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<th>Multi-System Type</th>
<th>ECO Range</th>
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## Energy-Saving Features

- Save Human sensor
- Human sensor control
- Economy operation
- Setting temperature range limitation
- Set temperature auto return

## Features for Comfort

- Power diffuser
- Powerful operation
- 0°C Heat
- Outdoor unit low noise operation
- Auto changeover
- TOP/BOTTOM swing louver
- Flexible swing automatic
- Automatic fan speed
- Auto restart
- Customizable fresh air duct
- Fresh air intake
- Connectable fresh air duct
- Individual airflow direction control

## Convenience Features

- Auto-off timer
- Sleep timer
- Program timer
- Weekly timer
- Weekly & Temperature setback timer
- Timer
- External error output
- External ON/OFF input
- Wireless LAN control
- Multi system control
- Special eco function

## Clean Features

- Ion deodorization filter
- Apple catechin filter
- Long-life filter
- Washable panel
- Silver ion filter
- Automatic airflow adjustment
- Dual pump as standard
- Bike fit
- Refrigerant cycle monitor

## Installation / Support

- Automatic airflow adjustment
- Drain pump as standard
- Blue fin
- Refrigerant cycle monitor

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* For details of Multi System Control function, refer to C-013.
*2 Wired remote controller (UTY-RNRYZ5) is required to use Special Cooling function.
*3 Optional function

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*3: It is only available on the AIRSTAGE Mobile application and wired remote controller. It cannot be used via wireless remote controllers.
Feature Summary

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<td>AGEG09/12/14KVCA</td>
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<td>ABEG18/22/24/30/36/45/54</td>
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<td>KRTA</td>
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</tbody>
</table>

**Energy-Saving Features**
- Save Human sensor
- Human sensor control
- Economy operation
- Setting temperature range limitation
- Setting temperature auto return

**Features for Comfort**
- Power diffuser
- Powerful operation
- DP7 heat
- Outdoor unit low noise operation
- Auto changeover
- OFF TIMER using louver
- Double swing using automatic
- Automatic fan speed
- Auto restart
- Connectable fresh air duct
- Fresh air intake
- Connectable distributing duct
- Individual airflow direction control

**Convenience Features**
- Auto-off timer
- Sleep timer
- Program timer
- Weekly timer
- Weekly & Temperature setback timer
- Filter sign
- External error output
- External ON/OFF input
- Wireless LAN control
- Multi system control
- Special seating

**Clean Features**
- Ion deodorization filter
- Apple-catechin filter
- Long-life filter
- Washable panel
- Silver Ion filter
- Automatic airflow adjustment
- Drain pump as standard
- Pipe Ins
- Refrigerant cycle monitor

**Installation / Support**
- Automatic airflow adjustment
- Drainage adjustment

---

*1: For details of Multi System Control function, refer to C-011.
*2: Wired remote controller (UTY-RNRYZ5) is required to use Special Cooling function.
*3: It is only available on the AIRSTAGE Mobile application and wired remote controller. It can not be used via wireless remote controllers.
A single outdoor unit drives multiple indoor units, offering greater flexibility in system configuration.

If you wish to keep an entire floor or two or more rooms comfortable, we recommend you choose a multi-split air conditioning system with a single outdoor unit. Choose one that meets your air conditioning requirements from the variety of models we offer. You can mix and match indoor and outdoor units as you wish to build the system that best suits your needs.
Multi-split Overview

Multi-split’s space-saving outdoor unit allows for connections of up to eight indoor units for multiple rooms. Added to the lineup are models compatible with the new R32 refrigerant, offering environmentally friendly comfort in homes, offices, stores, and various other settings.

3-unit, 4-unit, 5-unit Multi-split Types

2-unit to 6-unit Multi-split
Recommended for residences, offices, and other situations where multiple rooms require air conditioning. Each of the 2 to 6 connected indoor units can be operated individually. Operation control, time scheduling for each room, and energy-saving options can be set on both individual and central remote controllers. The outdoor unit is designed to save space and is flexible enough to be installed on a balcony or underneath a waist-high window.

Twin / Triple

Simultaneous Multi-split Type
Suitable for a small building, the entrance hall of a small office, meeting rooms, educational facilities, and other roomy areas where multiple indoor units need to be operated simultaneously. Up to 4 indoor units can be operated simultaneously, making the system perfect for air conditioning not only offices with large spaces, but also spaces with atypical layouts.
## Multi-split Outdoor Units Lineup

<table>
<thead>
<tr>
<th>Model</th>
<th>2-unit Multi-split Up to 2 units</th>
<th>3-unit Multi-split Up to 3 units</th>
<th>4-unit Multi-split Up to 4 units</th>
<th>5-unit Multi-split Up to 5 units</th>
<th>6-unit Multi-split Up to 6 units</th>
<th>Twin Single-phase 1 phase</th>
<th>Twin 3-phase</th>
<th>Twin/Triple Single-phase</th>
<th>Twin/Triple 3-phase</th>
<th>Twin/Triple/Double Twin 3-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image" alt="2-unit Multi-split" /></td>
<td><img src="image" alt="3-unit Multi-split" /></td>
<td><img src="image" alt="4-unit Multi-split" /></td>
<td><img src="image" alt="5-unit Multi-split" /></td>
<td><img src="image" alt="6-unit Multi-split" /></td>
<td><img src="image" alt="Twin 1 phase" /></td>
<td><img src="image" alt="Twin 3 phase" /></td>
<td><img src="image" alt="Twin/Triple 1 phase" /></td>
<td><img src="image" alt="Twin/Triple 3 phase" /></td>
<td><img src="image" alt="Twin/Triple/Double Twin 3 phase" /></td>
</tr>
<tr>
<td>AOE2G14KBCA2</td>
<td>AOE2G18KBCA2</td>
<td>AOE3G24KBCA3</td>
<td>AOE3G30KBTA4</td>
<td>AOE3G36KBTA5</td>
<td>AOE4G45LBLA5*</td>
<td>AOE2G14KBTB</td>
<td>AOE2G18KBTB</td>
<td>AOE3G24KBTB</td>
<td>AOE3G30KTABA</td>
<td>AOE3G36KRTABA</td>
</tr>
</tbody>
</table>

### Notes:
- **2-unit Multi-split**: Connectable indoor units are 2 units.
- **3-unit Multi-split**: Connectable indoor units are 3 units.
- **4-unit Multi-split**: Connectable indoor units are 4 units.
- **5-unit Multi-split**: Connectable indoor units are 5 units.
- **6-unit Multi-split**: Connectable indoor units are 6 units.

### Cooling Rated Capacity (kW):
- 4.0 kW
- 5.0 kW
- 5.4 kW
- 6.8 kW
- 8.0 kW
- 10.0 kW
- 13.5 kW
- 16.0 kW
- 18.0 kW
- 22.0 kW

### Clothesline Options:
- Class 14
- Class 18
- Class 24
- Class 30
- Class 36
- Class 45
- Class 54
- Class 72
- Class 90

### Models:
- **AOE2G14KBCA2**: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
- **AOE2G18KBCA2**: Total capacity of indoor units connected must be between 4.0 kW and 7.5 kW.
- **AOE3G18KBCA3**: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
- **AOE3G24KBCA3**: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.
- **AOE3G30KBTA4**: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.
- **AOE3G36KBTA5**: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.
- **AOE4G45LBLA6**: Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

### Additional Information:
- FUJITSU GENERAL (EU) GmbH participates in the ECP program for AC.
- Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)
- *Models so marked are not ECC certified.

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**M-004**

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**M-005**
# Multi-Split Indoor Units

## 2-unit to 5-unit Multi-split Connectable Indoor Units

<table>
<thead>
<tr>
<th>Type</th>
<th>2-unit</th>
<th>3-unit</th>
<th>4-unit</th>
<th>5-unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model frame</td>
<td>AOEG14KBC A2</td>
<td>AOEG18KBC A2</td>
<td>AOEG18KBC A3</td>
<td>AOEG24KBC A3</td>
</tr>
<tr>
<td>Multi-split Type</td>
<td>Outdoor Unit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity (kW)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>4.0</td>
<td>5.0</td>
<td>5.4</td>
<td>6.8</td>
</tr>
<tr>
<td>Heating</td>
<td>4.4</td>
<td>5.6</td>
<td>6.8</td>
<td>8.0</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>BTU kW Class</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASEH07/09/12/14KGTG</td>
<td>7,000</td>
<td>2.0</td>
<td>7,000</td>
<td>2.0</td>
</tr>
<tr>
<td>ASYG07/09/12/14KGTE</td>
<td>9,000</td>
<td>2.5</td>
<td>9,000</td>
<td>2.5</td>
</tr>
<tr>
<td>ASEH07/09/12/14KMCG</td>
<td>12,000</td>
<td>3.5</td>
<td>12,000</td>
<td>3.5</td>
</tr>
<tr>
<td>ASYG07/09/12/14KMCE</td>
<td>14,000</td>
<td>4.0</td>
<td>14,000</td>
<td>4.0</td>
</tr>
<tr>
<td>ASEG07/09/12/14KETF-B</td>
<td>18,000</td>
<td>5.0</td>
<td>18,000</td>
<td>5.0</td>
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<tr>
<td>ASYG07/09/12/14KETE-B</td>
<td>22,000</td>
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<td>6.0</td>
</tr>
<tr>
<td>ASEH07/09/12/14KNCA</td>
<td>5,000</td>
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<tr>
<td>ASYG07/09/12/14KMCA</td>
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<tr>
<td>ASEG07/09/12/14KVCA</td>
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<tr>
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<tr>
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<td>18,000</td>
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</table>

*Please consult your dealer for compatible outdoor units with 5kW models.*
**6-unit Multi-split Connectable Indoor Units**

<table>
<thead>
<tr>
<th>Type</th>
<th>Model Name</th>
<th>Capacity (kW)</th>
<th>Capacity (BTU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-split</td>
<td>AOYG45LBLA6</td>
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<td>42,950</td>
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<tr>
<td>Outdoor Unit</td>
<td></td>
<td>13.5</td>
<td>46,500</td>
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### Indoor Units

<table>
<thead>
<tr>
<th>Make and Model Code</th>
<th>BTU</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYG07/09/12/14LMCE</td>
<td>7,000</td>
<td>2.0</td>
</tr>
<tr>
<td>ASYG07/09/12/14LMCA</td>
<td>9,000</td>
<td>2.5</td>
</tr>
<tr>
<td>ASYG07/09/12/14LMCF</td>
<td>12,000</td>
<td>3.5</td>
</tr>
<tr>
<td>ASYG07/09/12/14LMCD</td>
<td>14,000</td>
<td>4.0</td>
</tr>
<tr>
<td>ASYG07/09/12/14LMCE</td>
<td>16,000</td>
<td>5.0</td>
</tr>
<tr>
<td>ASYG07/09/12/14LMCE</td>
<td>18,000</td>
<td>6.0</td>
</tr>
<tr>
<td>ASYG18/24LFB</td>
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<tr>
<td>ASYG18/24LFC</td>
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<tr>
<td>ASYG18/24LFD</td>
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</tr>
<tr>
<td>ASYG18/24LFE</td>
<td>14,000</td>
<td>4.0</td>
</tr>
<tr>
<td>ASYG18/24LF</td>
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<td>5.0</td>
</tr>
<tr>
<td>ASYG18/24LFA</td>
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<td>6.0</td>
</tr>
<tr>
<td>ABYG14LVTB</td>
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<td>ABYG18LVTB</td>
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<td>5.0</td>
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<td>ARYG07/09/12/14/18LL</td>
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<td>2.5</td>
</tr>
<tr>
<td>ARYG07/09/12/14/18LL</td>
<td>12,000</td>
<td>3.5</td>
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<tr>
<td>ARYG07/09/12/14/18LL</td>
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<td>4.0</td>
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<tr>
<td>ARYG07/09/12/14/18LL</td>
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<tr>
<td>ARYG07/09/12/14/18LL</td>
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<td>6.0</td>
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## Simultaneous Multi-split Connectable Indoor Units

<table>
<thead>
<tr>
<th>Type</th>
<th>4HP</th>
<th>5HP</th>
<th>6HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AOYG72LRLA</td>
<td>AOYG90LRLA</td>
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</tr>
<tr>
<td>Indoor Unit Capacity (kW)</td>
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<tr>
<td>Cooling</td>
<td>19.0</td>
<td>22.0</td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>22.4</td>
<td>27.0</td>
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</tr>
<tr>
<td>Indoor Unit BTU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>Twin</td>
<td>Triple</td>
<td>Double Twin</td>
</tr>
<tr>
<td>AUXG18/22/24KVLA</td>
<td>18,000</td>
<td>22,000</td>
<td>24,000</td>
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<tr>
<td></td>
<td>18</td>
<td>6.5</td>
<td>7.0</td>
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<td>UTP-SX236A</td>
<td>UTP-SX354A</td>
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<td>(18/22/24)</td>
<td>(18)</td>
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</tr>
</tbody>
</table>

**Note:** Please be aware that 2-wired group control is not possible with Simultaneous Multi-split.

## Simultaneous Multi-split Outdoor Unit

<table>
<thead>
<tr>
<th>Type</th>
<th>4HP</th>
<th>5HP</th>
<th>6HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>AOBG24LKAP</td>
<td>AOBG36LKA</td>
<td>AOBG48LKA</td>
</tr>
<tr>
<td>Capacity (kW)</td>
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<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>9.5</td>
<td>12.1</td>
<td>13.4</td>
</tr>
<tr>
<td>Heating</td>
<td>10.8</td>
<td>13.5</td>
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<tr>
<td>Indoor Unit BTU</td>
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<td></td>
</tr>
<tr>
<td>Class</td>
<td>Twin</td>
<td>Triple</td>
<td>Double Twin</td>
</tr>
<tr>
<td>ARXG18KLLBP</td>
<td>18,000</td>
<td>22,000</td>
<td>24,000</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

**Note:** Please be aware that 2-wired group control is not possible with Simultaneous Multi-split.
Models equipped with the New R32 Refrigerant

Wall-mounted type with sophisticated design

Designer Series
- Cool Beauty Design
- Standard Series

Standard Series
- High Spec & Design
- High Efficiency & Comfort
- Compact Size
- High Efficiency & Large Rooms

Middle and small capacity models are available. This makes installation easier in small spaces.

### R32 Refrigerant Model

In addition to its high energy efficiency, the R32 refrigerant has a larger volumetric capacity than the R410A refrigerant, which means the R32 refrigerant models require less refrigerant charge than the R410A models.

### Quiet Operation

The sound power level is reduced by up to 7 dB compared to the current R410 models.

### Space-saving Installation

Multiple indoor units can be connected to 1 outdoor unit by long piping as well. Unlike a single type, the outdoor unit can be installed in the most space-saving location.

### Compact Design

Unlike a single type, the outdoor unit can be installed in the most space-saving location.

### Easy Evacuation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method. Requires evacuation only once.

#### Pre-charge refrigerant amount (kg)

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>R32 model</th>
<th>R410A model</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-unit 14 class</td>
<td>0.9</td>
<td>1.25</td>
</tr>
<tr>
<td>2-unit 18 class</td>
<td>1.02</td>
<td>1.3</td>
</tr>
<tr>
<td>3-unit 18 class</td>
<td>1.8</td>
<td>2.2</td>
</tr>
<tr>
<td>3-unit 24 class</td>
<td>2.2</td>
<td>2.2</td>
</tr>
<tr>
<td>4-unit 30 class</td>
<td>2.5</td>
<td>4.3</td>
</tr>
</tbody>
</table>

* Compared with current 5-unit multi models.

### Highly Efficient DC Twin-Rotary Compressor

**SEER** 8.7  **SCOP** 4.7

* A++

**R32 model**

**R410A model**

**Sound Power Level**

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>R32 model</th>
<th>R410 model</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-unit 24 class (cooling)</td>
<td>61 dB(A)</td>
<td>68 dB(A)</td>
</tr>
</tbody>
</table>

### Wide range of indoor units with various models

We offer 41 models in 5 types in a capacity range from 2.0 kW to 6.0 kW. Wide range of requirements can be realized from private homes through to large shops and hotels.

### High Efficiency & Large Rooms

**18/22/24 kBTU**

**Depth difference** -15.5% !*

**Space requirement** -36.2% !*

* Compared with current 5-unit multi models.

### Depth difference

<table>
<thead>
<tr>
<th>Room</th>
<th>Depth difference</th>
<th>Space requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>-15.5% !*</td>
<td>-36.2% !*</td>
<td></td>
</tr>
</tbody>
</table>

### Compact Size

Unlike a single type, the outdoor unit can be installed in the most space-saving location.

### Easy evacuation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method.

### Models equipped with the New R32 Refrigerant

**Cool Beauty Design**
- 07/09/12/14/18 kW

**High Spec & Design**
- 07/09/12/14/18 kW

**High Efficiency & Comfort**
- 07/09/12/14/18 kW

**Compact Cassette**
- 07/09/12/14/18 kW

**Floor**
- 09/12/14/18 kW

**Ceiling**
- 18/22/24 kW

### Standard Series

**High Efficiency & Large Rooms**
- 07/09/12/14/18 kW

### Middle and small capacity models are available. This makes installation easier in small spaces.

### High energy saving

With the adoption of a high-efficiency DC twin-rotary compressor, all models achieved an energy efficiency scale of A++ for cooling and A+ for heating.

### Quiet operation

The sound power level is reduced by up to 7 dB compared to the current R410 models.
### Specifications (2-unit)

<table>
<thead>
<tr>
<th>Model name</th>
<th>AOEG14KBCA2</th>
<th>AOEG18KBCA2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>kW</td>
<td>3.5</td>
<td>3.9</td>
</tr>
<tr>
<td>Min.-Max. kW</td>
<td>1.4 - 4.6</td>
<td>1.7 - 5.8</td>
</tr>
<tr>
<td>EER Cooling W/W</td>
<td>4.12</td>
<td>4.03</td>
</tr>
<tr>
<td>COP Heating</td>
<td>4.63</td>
<td>4.59</td>
</tr>
<tr>
<td>Sound Pressure Level (High)</td>
<td>47 dB(A)</td>
<td>49 dB(A)</td>
</tr>
<tr>
<td>Sound Power Level (High)</td>
<td>60 dB(A)</td>
<td>62 dB(A)</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>m³/h</td>
<td>1,670/1,670</td>
<td>1,960/2,020</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>H × W × D mm</td>
<td>542 × 799 × 290</td>
</tr>
<tr>
<td>Weight kg</td>
<td>33</td>
<td>37</td>
</tr>
<tr>
<td>Connection Pipe Diameter</td>
<td>Liquid mm</td>
<td>6.35 × 2</td>
</tr>
<tr>
<td>Gas mm</td>
<td>9.52 × 2</td>
<td>9.52 × 2</td>
</tr>
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</table>

### Specifications (3-unit)

<table>
<thead>
<tr>
<th>Model name</th>
<th>AOEG18KBCA3</th>
<th>AOEG24KBCA3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>kW</td>
<td>5.4</td>
<td>6.8</td>
</tr>
<tr>
<td>Min.-Max. kW</td>
<td>1.8 - 7.0</td>
<td>1.8 - 8.5</td>
</tr>
<tr>
<td>EER Cooling W/W</td>
<td>4.78</td>
<td>3.90</td>
</tr>
<tr>
<td>COP Heating</td>
<td>4.89</td>
<td>4.40</td>
</tr>
<tr>
<td>Sound Pressure Level (High)</td>
<td>46 dB(A)</td>
<td>48 dB(A)</td>
</tr>
<tr>
<td>Sound Power Level (High)</td>
<td>59 dB(A)</td>
<td>61 dB(A)</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>m³/h</td>
<td>2,220/2,160</td>
<td>2,270/2,730</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>H × W × D mm</td>
<td>716 × 820 × 315</td>
</tr>
<tr>
<td>Weight kg</td>
<td>46</td>
<td>46</td>
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<tr>
<td>Connection Pipe Diameter</td>
<td>Liquid mm</td>
<td>6.35 × 3</td>
</tr>
<tr>
<td>Gas mm</td>
<td>9.52 × 2</td>
<td>9.52 × 2</td>
</tr>
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</table>

### Specifications (4-unit, 5-unit)

<table>
<thead>
<tr>
<th>Model name</th>
<th>AOEG30KBTA4</th>
<th>AOEG36KBTA5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>kW</td>
<td>8.0</td>
<td>9.5</td>
</tr>
<tr>
<td>Min.-Max. kW</td>
<td>2.4 - 10.1</td>
<td>3.0 - 11.0</td>
</tr>
<tr>
<td>EER Cooling W/W</td>
<td>3.90</td>
<td>3.80</td>
</tr>
<tr>
<td>COP Heating</td>
<td>4.55</td>
<td>4.50</td>
</tr>
<tr>
<td>Sound Pressure Level (High)</td>
<td>50 dB(A)</td>
<td>52 dB(A)</td>
</tr>
<tr>
<td>Sound Power Level (High)</td>
<td>63 dB(A)</td>
<td>65 dB(A)</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>m³/h</td>
<td>2,400/2,950</td>
<td>2,450/2,900</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>H × W × D mm</td>
<td>884 × 820 × 315</td>
</tr>
<tr>
<td>Weight kg</td>
<td>55</td>
<td>59</td>
</tr>
<tr>
<td>Connection Pipe Diameter</td>
<td>Liquid mm</td>
<td>6.35 × 4</td>
</tr>
<tr>
<td>Gas mm</td>
<td>9.52 × 2</td>
<td>9.52 × 2</td>
</tr>
</tbody>
</table>

*Length not applicable when floor units are connected. For details, refer to the installation manual.
A wide variety of models to choose from

We offer 26 models in 5 types in a capacity range from 2.0 kW to 7.0 kW. Wide range of requirements can be realized from private homes through to large shops and hotels.

Compact design

Multiple indoor units can be connected to 1 outdoor unit by long piping as well. Unlike a single type, the outdoor unit can be installed in the most space-saving location.

Easy installation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method. Requires evacuation only once.

Central & Individual control

- Batched control of up to 6 indoor units. Unified setting of room temperature, airflow volume, and local control restrictions across units.
- Language can be selected from English, French, German, Greek, Italian, Portuguese, Russian, Spanish, or Turkish.
- Large backlit LED screen
- Large easy-to-see operation panel

**Specifications**

<table>
<thead>
<tr>
<th>Feature</th>
<th>ADYG45LBLA6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model name</strong></td>
<td>AOYG45LBLA6</td>
</tr>
<tr>
<td><strong>Power Source</strong></td>
<td>Single phase, ~230 V, 50 Hz</td>
</tr>
<tr>
<td><strong>Rated Capacity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Rated Power</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Heating</strong></td>
<td></td>
</tr>
<tr>
<td><strong>EER</strong></td>
<td></td>
</tr>
<tr>
<td><strong>COP</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Sound Pressure Level</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Sound Power Level</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Airflow Rate</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Net Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Connection Pipe Diameter</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Pipe Length</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Height Difference</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Range</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net Dimensions</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Connection Pipe Diameter</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Pipe Length</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Height Difference</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Range</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant</strong></td>
<td></td>
</tr>
</tbody>
</table>
Meets a variety of installation needs from offices to commercial spaces, with up to 3 indoor units in the same room connected to an outdoor unit. Select indoor units according to floor layout and heat load estimated by the number of people working in the room and the direction and intensity of sunlight entering the room. Perfect airflow distribution can be achieved for optimum comfort.

**Design flexibility**

**Slim & Compact Design**

The outdoor unit in this series is 22.7% shorter* than a twin-fan outdoor unit. The reduced height makes it easy to install in tight spaces.

Pipe length of up to 50 m and a height difference of up to 30 m can be accommodated. Multi-split systems can be installed in large residences and multi-story buildings.

Slim & Compact Design

The outdoor unit in this series is 22.7% shorter* than a twin-fan outdoor unit. The reduced height makes it easy to install in tight spaces.

New lineup of indoor units

The indoor units, available in 6 models of 3 types, can be selected according to room size and conditions.

Flexible installation

Pipe length of up to 50 m and a height difference of up to 30 m can be accommodated. Multi-split systems can be installed in large residences and multi-story buildings.

---

**Specifications (Indoor units/Outdoor units)**

<table>
<thead>
<tr>
<th>Indoor units Model name</th>
<th>Compact Cassette</th>
<th>Duct</th>
<th>Slim Duct</th>
<th>Cassette Grille</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUXG18KVLA AUXG22KVLA AUXG24KVLA</td>
<td></td>
<td></td>
<td></td>
<td>UTG-UFYF-W</td>
</tr>
<tr>
<td>Power Source</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling: 680/580/490/410 m³/h</td>
<td>830/740/600/450 m³/h</td>
<td>930/830/600/450 m³/h</td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>800/680/580/450 m³/h</td>
<td>860/760/700/530 m³/h</td>
<td>930/850/700/530 m³/h</td>
<td></td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>H × W × D mm</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>15</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indoor units Model name</th>
<th>Duct</th>
<th>Slim Duct</th>
<th>Cassette Grille</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARXG18KLLAP ARXG22KMLB ARXG24KMLA</td>
<td></td>
<td></td>
<td>UTG-UFYF-W</td>
</tr>
<tr>
<td>Power Source</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling: 940/880/820/750 m³/h</td>
<td>1,100/910/750/580 m³/h</td>
<td>1,100/910/750/580 m³/h</td>
</tr>
<tr>
<td>Heating</td>
<td>940/880/820/750 m³/h</td>
<td>1,100/910/750/580 m³/h</td>
<td>1,100/910/750/580 m³/h</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>H × W × D mm</td>
<td>198 × 900 × 620</td>
<td>270 × 1,135 × 700</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>20</td>
<td>35</td>
</tr>
</tbody>
</table>

| Outdoor Units Model name | AOEG36KBTB AOEG45KBTB AOEG54KBTB AOEG36KRTA AOEG45KRTA AOEG54KRTA |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Capacity | Cooling: 9.5 kW | 12.1 kW | 13.4 kW | 9.5 kW | 12.1 kW | 13.4 kW |
| Heating | 10.8 kW | 13.5 kW | 15.5 kW | 10.8 kW | 13.5 kW | 15.5 kW |
| Power Source | Single phase, ~230 V, 50 Hz | | | 3-phase, ~400 V, 50 Hz | | |
| SEER Cooling | W/W | 6.10 | - | 6.10 | - | - |
| Energy Efficiency Class | A++ | - | - | A++ | - | - |
| Operating Range | Cooling °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| Sound Pressure Level (High) | Cooling dB(A) | 57 | 57 | 57 | 57 | 57 | 57 |
| Sound Power Level (High) | Cooling dB | 71 | 71 | 73 | 71 | 71 | 73 |
| Net Dimensions | H × W × D mm | 788 × 940 × 320 | 998 × 940 × 320 | 998 × 940 × 320 | 788 × 940 × 320 | 998 × 940 × 320 | 998 × 940 × 320 |
| Weight | kg | 52 | 67 | 67 | 53 | 67 | 67 |
| Connection Pipe Diameter (Liquid/Gas) | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Max. Pipe Length (Pre-Charge) | m | 50 | 50 | 50 | 50 | 50 | 50 |
| Max. Height Difference | 30 | 30 | 30 | 30 | 30 | 30 |
| Refrigerant Type (Global Warming Potential) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| Charge kg (CO2eq-T) | 1.90 (1.283) | 2.70 (1.823) | 2.70 (1.823) | 1.90 (1.283) | 2.70 (1.823) | 2.70 (1.823) |
| Separation tube | UTP-SX236A (Twin) | UTP-SX236A (Twin) | UTP-SX236A (Twin) | UTP-SX354A (Triple) | UTP-SX236A (Twin) | UTP-SX236A (Twin) |

---

Note: Please be aware that 2-wired group control is not possible with Simultaneous Multi-split.

(*) Applicable to the 45,000- and 54,000-BTU models

Note: Please be aware that 2-wired group control is not possible with Simultaneous Multi-split.

*2-wired groups of different types and capacities cannot be connected.

The above specifications apply when used with a cassette type indoor unit.

**Dimensions**

- **AOEG36KBTB / AOEG36KRTA**
- **AOEG45KBTB / AOEG45KRTA**
- **AOEG54KBTB / AOEG54KRTA**

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*Model: AOEG36KBTB / AOEG45KBTB / AOEG54KBTB
AOEG36KRTA / AOEG45KRTA / AOEG54KRTA [3-phase]*
### Indoor Unit Lineup

The indoor units, available in 18 models of 6 types, can be selected according to room size and conditions.

#### Indoor Unit Types
- **Compact Cassette**
- **Cassette**
- **Slim Duct**
- **Duct**
- **Floor/Ceiling Universal**
- **Ceiling**

#### Installation Options
- **Simultaneous Multi-split Type**
- **Twin / Triple / Multi-split Type**

#### Remote Controller
- **Compact Cassette Cassette**
- **Duct**
- **Ceiling**

---

**Specifications (Indoor units/Outdoor units)**

<table>
<thead>
<tr>
<th>Indoor Units Model name</th>
<th>Cassette</th>
<th>Universal Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>Cooling</td>
<td>kW</td>
</tr>
<tr>
<td><strong>Operation Range</strong></td>
<td></td>
<td>°CDB</td>
</tr>
<tr>
<td><strong>Sound Pressure Level (High)</strong></td>
<td>Cooling</td>
<td>dB(A)</td>
</tr>
<tr>
<td><strong>Refrigerant Type (Global Warming Potential)</strong></td>
<td>R410A (2,088)</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Pipe Length (Pre-Charge)</strong></td>
<td>m</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Height Difference</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Dimensions</strong></td>
<td>H × W × D</td>
<td>mm</td>
</tr>
</tbody>
</table>

**Outdoor Units Model name**

<table>
<thead>
<tr>
<th>Outdoor Units</th>
<th>AOYG72LRLA</th>
<th>AOYG90LRLA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity</strong></td>
<td>Heating</td>
<td>kW</td>
</tr>
<tr>
<td><strong>Operation Range</strong></td>
<td></td>
<td>°CDB</td>
</tr>
<tr>
<td><strong>Sound Pressure Level (High)</strong></td>
<td>Cooling</td>
<td>dB(A)</td>
</tr>
<tr>
<td><strong>Refrigerant Type (Global Warming Potential)</strong></td>
<td>R410A (2,088)</td>
<td></td>
</tr>
</tbody>
</table>

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**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>H × W × D</th>
<th>mm</th>
</tr>
</thead>
</table>

---

**Notes:**
- The above specifications apply when used with a cassette type indoor unit.
- Indoor units of different types and capacity can be connected.
- The above specifications apply when used with a cassette type indoor unit.
- *The following functions are not provided by a wireless remote controller: Timer operation, Sleep Timer operation, 10°C Heat operation*
### Wall-mounted Type

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>ASHG7ECA</th>
<th>AUGH7ECA</th>
<th>ASHG7ECA</th>
<th>AUGH7ECA</th>
<th>ASHG7ECA</th>
<th>AUGH7ECA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>kW 2.0</td>
<td>kW 2.5</td>
<td>kW 3.5</td>
<td>kW 4.0</td>
<td>kW 5.0</td>
<td>kW 6.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
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<td></td>
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<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
</tbody>
</table>

### Floor

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>ASHG7ECA</th>
<th>AUGH7ECA</th>
<th>ASHG7ECA</th>
<th>AUGH7ECA</th>
<th>ASHG7ECA</th>
<th>AUGH7ECA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>kW 2.0</td>
<td>kW 2.5</td>
<td>kW 3.5</td>
<td>kW 4.0</td>
<td>kW 5.0</td>
<td>kW 6.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
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<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
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</table>
### Ceiling

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>ABXG07KSLAP</th>
<th>ABXG09KSLAP</th>
<th>ABXG12KSLAP</th>
<th>ABXG14KSLAP</th>
<th>ABXG18KSLAP</th>
<th>ABXG22KSLAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW Class</td>
<td>kW</td>
<td>2.0</td>
<td>2.5</td>
<td>3.1</td>
<td>4.0</td>
<td>5.0</td>
<td>6.0</td>
</tr>
<tr>
<td>Power Source</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Pressure Level</td>
<td>Low (A)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>m³/h 6,35/5,72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>mm 245 × 570 × 570</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>External static pressure</td>
<td>Pa 0 to 30</td>
<td></td>
<td></td>
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<tr>
<td>Sound Power</td>
<td>dB(A) 53</td>
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<td>Drain Pump</td>
<td>Option</td>
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<td>Option</td>
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### Mini Duct

<table>
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<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>ABXG07KVLA</th>
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<th>ABXG12KVLA</th>
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<td>Sound Pressure Level</td>
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<tr>
<td>Airflow Rate</td>
<td>m³/h 6,35/490/440</td>
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### Compact Cassette Grid Type

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<th>ABXG14KVLA</th>
<th>ABXG18KVLA</th>
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<td>Sound Pressure Level</td>
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<td>Sound Power</td>
<td>dB(A) 53</td>
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<td>kW 38</td>
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</tr>
<tr>
<td>Drain Pump</td>
<td>Option</td>
<td></td>
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<tr>
<td>Slim duct</td>
<td>Option</td>
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### Medium Static Pressure Duct

<table>
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<th>ABXG09KVLA</th>
<th>ABXG12KVLA</th>
<th>ABXG14KVLA</th>
<th>ABXG18KVLA</th>
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<tbody>
<tr>
<td>kW Class</td>
<td>kW</td>
<td>2.0</td>
<td>2.5</td>
<td>3.1</td>
<td>4.0</td>
<td>5.0</td>
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<td>Single phase, ~230 V, 50 Hz</td>
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</tr>
<tr>
<td>Sound Pressure Level</td>
<td>Low (A)</td>
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<tr>
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<tr>
<td>External static pressure</td>
<td>Pa 30 to 150</td>
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<tr>
<td>Sound Power</td>
<td>dB(A) 58</td>
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<td>Power Consumption</td>
<td>kW 50</td>
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<tr>
<td>Slim duct</td>
<td>Option</td>
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### Level

<p>| | | | | | |</p>
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<td>Sound Pressure</td>
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<tr>
<td>Power Source</td>
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</table>

### Power Source

Single phase, ~230 V, 50 Hz
### Indoor Units Specifications

#### Compact Wall-mounted

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Indoor Unit</th>
<th>AYG18LFCA</th>
<th>AYG24LFCC</th>
<th>AYG30LFCC</th>
<th>AYG36LFCC</th>
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<td>Sound Pressure</td>
<td>dB(A)</td>
<td>51</td>
<td>56</td>
<td>57</td>
<td>62</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling H/M/L/Q m³/h</td>
<td>39/35/30/22</td>
<td>42/38/32/22</td>
<td>44/39/33/22</td>
<td>47/42/37/33</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>14</td>
<td>14</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>mm</td>
<td>270 × 870 × 204</td>
<td>270 × 870 × 204</td>
<td>270 × 870 × 204</td>
<td>270 × 870 × 204</td>
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#### Wall-mounted Type

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<th>AYG24LFLA</th>
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<td>3.5</td>
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<tr>
<td>Power Source</td>
<td></td>
<td>Single phase, ~230 V, 50 Hz</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td>Single phase, ~230 V, 50 Hz</td>
</tr>
<tr>
<td>Sound Pressure</td>
<td>dB(A)</td>
<td>51</td>
<td>56</td>
<td>57</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling H/M/L/Q m³/h</td>
<td>39/37/36/32</td>
<td>42/38/33/28</td>
<td>44/39/34/29</td>
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<td>Weight</td>
<td>kg</td>
<td>8.5</td>
<td>8.5</td>
<td>8.5</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>mm</td>
<td>282 × 870 × 185</td>
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#### Compact Cassette

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<th>Indoor Unit</th>
<th>AYG07LSLAP</th>
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<th>AYG12LVLB</th>
<th>AYG14LVLB</th>
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<td>5.0</td>
<td>5.0</td>
<td>5.0</td>
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<tr>
<td>Sound Pressure</td>
<td>dB(A)</td>
<td>57</td>
<td>57</td>
<td>58</td>
<td>61</td>
<td>59</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling H/M/L/Q dB(A)</td>
<td>28/26/25/24</td>
<td>28/27/26/25</td>
<td>29/28/27/26</td>
<td>32/30/28/27</td>
<td>32/31/30/29</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
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<td>18.5</td>
<td>19.0</td>
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<tr>
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<td>198 × 700 × 450</td>
<td>198 × 700 × 450</td>
<td>198 × 900 × 450</td>
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#### Mini Duct

<table>
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<th>AYG12LSLA</th>
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<th>AYG18LSLA</th>
<th>AYG14LSLB</th>
<th>AYG18LSLB</th>
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<td>2.5</td>
<td>3.5</td>
<td>4.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Sound Pressure</td>
<td>dB(A)</td>
<td>57</td>
<td>57</td>
<td>58</td>
<td>61</td>
<td>59</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling H/M/L/Q dB(A)</td>
<td>28/26/24/23</td>
<td>28/27/25/23</td>
<td>29/28/26/23</td>
<td>32/30/27/23</td>
<td>32/31/30/29</td>
</tr>
<tr>
<td>External Static Pressure</td>
<td>Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 60</td>
<td>0 to 90</td>
<td>0 to 90</td>
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<tr>
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<td>kg</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>mm</td>
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<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
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#### Slim Duct

<table>
<thead>
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<th>Indoor Unit</th>
<th>AYG12LSLA</th>
<th>AYG14LSLA</th>
<th>AYG18LSLA</th>
<th>AYG18LSLB</th>
</tr>
</thead>
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<td>2.5</td>
<td>3.5</td>
<td>5.0</td>
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<tr>
<td>Sound Pressure</td>
<td>dB(A)</td>
<td>57</td>
<td>57</td>
<td>58</td>
<td>59</td>
</tr>
<tr>
<td>Airflow Rate</td>
<td>Cooling H/M/L/Q dB(A)</td>
<td>28/26/24/23</td>
<td>28/27/25/23</td>
<td>29/28/26/23</td>
<td>32/30/27/23</td>
</tr>
<tr>
<td>External Static Pressure</td>
<td>Pa</td>
<td>0 to 30</td>
<td>0 to 50</td>
<td>0 to 60</td>
<td>0 to 90</td>
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<td>Weight</td>
<td>kg</td>
<td>15</td>
<td>15</td>
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<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
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**Note:** The specifications provided are for reference only and may vary based on specific model and region. Always consult the official product documentation for the most accurate and up-to-date information.
## 2-unit Multi-split Combination Table - Cooling/Heating

### 2-unit Multi-split cooling

<table>
<thead>
<tr>
<th>Unit 1 kW</th>
<th>Unit 2 kW</th>
<th>Total Capacity kW (Min. - Max.)</th>
<th>Pdesign kW</th>
<th>SEER (Cooling)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>7</td>
<td>2.00 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>7</td>
<td>9</td>
<td>2.00 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>7</td>
<td>12</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>7</td>
<td>14</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>2.00 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>9</td>
<td>12</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>9</td>
<td>14</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>7</td>
<td>12</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
</tr>
<tr>
<td>7</td>
<td>14</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
<td>4.12</td>
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</table>

### 2-unit Multi-split heating

<table>
<thead>
<tr>
<th>Unit 1 kW</th>
<th>Unit 2 kW</th>
<th>Total Capacity kW (Min. - Max.)</th>
<th>COP (Heating)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>7</td>
<td>2.00 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>7</td>
<td>9</td>
<td>2.00 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>7</td>
<td>12</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>7</td>
<td>14</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>2.00 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>9</td>
<td>12</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>9</td>
<td>14</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>7</td>
<td>12</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
</tr>
<tr>
<td>7</td>
<td>14</td>
<td>1.47 (1.4-4.6)</td>
<td>0.97 (0.25-1.2)</td>
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</table>
### 3-unit Multi-split Combination Table – Cooling/Heating

#### 3-unit Multi-split cooling

<table>
<thead>
<tr>
<th>Combination</th>
<th>Indoor Units</th>
<th>Cooling Capacity (Min. - Max.)</th>
<th>Input Power (Min. - Max.)</th>
<th>Performance Efficiency</th>
<th>Energy Efficiency</th>
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<tbody>
<tr>
<td>7 7 7</td>
<td>2.4 2.4 2.4</td>
<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
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</tr>
<tr>
<td>7 9 14</td>
<td>1.99 3.41 5.41</td>
<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
<td>7 9 12</td>
<td>2.00 3.00 4.50</td>
<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
<td>7 9 18</td>
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<td>3.83 3.83 3.83</td>
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<td>3.83 3.83 3.83</td>
<td>A+++</td>
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#### 3-unit Multi-split heating

<table>
<thead>
<tr>
<th>Combination</th>
<th>Indoor Units</th>
<th>Heating Capacity (Min. - Max.)</th>
<th>Input Power (Min. - Max.)</th>
<th>Performance Efficiency</th>
<th>Energy Efficiency</th>
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</thead>
<tbody>
<tr>
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<td>5.40 5.40 5.40</td>
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<tr>
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<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
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<tr>
<td>7 9 18</td>
<td>2.27 4.53 6.80</td>
<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
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<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
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<td>A+++</td>
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<td>5.40 5.40 5.40</td>
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<td>A+++</td>
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<tr>
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<td>3.83 3.83 3.83</td>
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<tr>
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<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
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<tr>
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<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
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<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
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<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
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<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
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<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
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<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
<td>7 7 18</td>
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<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
<td>7 7 14</td>
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<td>6.80 6.80 6.80</td>
<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
<tr>
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<td>5.40 5.40 5.40</td>
<td>3.83 3.83 3.83</td>
<td>A+++</td>
</tr>
</tbody>
</table>

**Notes:**
- The above specifications apply when connected with a wall-mounted [KG/KM] unit.
- The total capacity of indoor units connected must be between USH and USAR.
- Please refer to the Design Technical Manual for the combination tables with SUB model.
### 4-unit Multi-split Combination Table—Cooling/Heating

#### 4-unit Multi-split Cooling

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Power Consumption</th>
<th>COP</th>
<th>Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 22</td>
<td>4.32</td>
<td>5.28</td>
<td>9.60 (3.0-11.2)</td>
<td>2.47 (0.30-2.95)</td>
<td>A+</td>
</tr>
<tr>
<td>12 18 18</td>
<td>4.32</td>
<td>5.28</td>
<td>9.60 (3.0-11.2)</td>
<td>2.47 (0.30-2.95)</td>
<td>A+</td>
</tr>
</tbody>
</table>

**Notes:**
- The above specifications apply when connected with a wall-mounted [KG/KM] unit.
- For more units, units should be connected.
- Cooling capacity is determined based on 27°C DB/19°C WB (indoor temperature) and 35°C DB/90°C WB (outdoor temperature).
- EPE: EPR x 1.5 (height difference: 1.5 m [Sixth unit in the unit set]).
- Total capacity of indoor units connected must be between 15 kW and 14 kW.
- Please refer to the Design & Technical Manual for the combination tables with SKU models.

#### 4-unit Multi-split Heating

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Power Consumption</th>
<th>COP</th>
<th>Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 9 9 14</td>
<td>2.11</td>
<td>2.11</td>
<td>2.11 3.27</td>
<td>2.11 (0.30-2.95)</td>
<td>A++</td>
</tr>
</tbody>
</table>

**Notes:**
- The above specifications apply when connected with a wall-mounted [KG/KM] unit.
- For more units, units should be connected.
- Heating capacity is determined based on 20°C DB (indoor temperature) and 7°C CB (outdoor temperature).
- EPE: EPR x 1.5 (height difference: 1.5 m [Sixth unit in the unit set]).
- Total capacity of indoor units connected must be between 15 kW and 14 kW.
- Please refer to the Design & Technical Manual for the combination tables with SKU models.
### 5-unit Multi-split Combination Table—Cooling

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
<th>Unit 5</th>
<th>Total Capacity (Min.-Max.)</th>
<th>Pdesign</th>
<th>SEER</th>
<th>Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-034</td>
<td>1.23</td>
<td>1.23</td>
<td>1.58</td>
<td>1.58</td>
<td>3.88</td>
<td>9.50 (3.0-11.0)</td>
<td>2.50 (0.30-3.45)</td>
<td>3.80</td>
<td>9.5</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Multi-split specification applies when connected with a well-rounded [M-034] unit.
- For more details, refer to the Design & Technical manual for the combination tables with M-034 model.
- The design pressure is determined based on 2°F (7°C) [M-034] (indoor temperature) and 13°F (7°C) [M-034] (outdoor temperature).
- Pipe length 5 ft (1.5 m) [M-034] (outdoor unit to indoor unit).
- Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.
- Please refer to the Design & Technical manual for the combination tables with S-034 model.
- * For Model M-034, only well-rounded indoor units are combinable.
5-unit Multi-split Combination Table - Heating

**Table:**

<table>
<thead>
<tr>
<th>AOEG36KBTA5 Combination of Indoor Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-unit connection</td>
</tr>
<tr>
<td>3-unit connection</td>
</tr>
<tr>
<td>12 12 18 - - 3.03 3.03 4.54 - - 10.60 (3.5-12.0) 2.54 (0.25-3.25) 4.18 7.0 4.4 A+</td>
</tr>
<tr>
<td>7 18 18 - - 1.72 4.44 4.44 - - 10.60 (3.5-12.0) 2.54 (0.25-3.25) 4.18 7.0 4.4 A+</td>
</tr>
<tr>
<td>7 12 24 - - 1.72 2.96 5.92 - - 10.60 (3.5-12.0) 2.54 (0.25-3.25) 4.18 7.0 4.4 A+</td>
</tr>
<tr>
<td>7 12 18 - - 2.00 3.44 5.16 - - 10.60 (3.5-12.0) 2.54 (0.25-3.25) 4.18 7.0 4.4 A+</td>
</tr>
<tr>
<td>7 9 9 24 - 1.51 1.95 1.95 5.19 - 10.60 (3.5-12.0) 2.44 (0.25-3.25) 4.34 7.0 4.5 A+</td>
</tr>
<tr>
<td>7 9 12 18 - 1.61 2.07 2.77 4.15 - 10.60 (3.5-12.0) 2.44 (0.25-3.25) 4.34 7.0 4.5 A+</td>
</tr>
<tr>
<td>7 9 12 22 - 1.48 1.91 2.54 4.67 - 10.60 (3.5-12.0) 2.44 (0.25-3.25) 4.34 7.0 4.5 A+</td>
</tr>
<tr>
<td>7 7 7 9 - 2.40 2.40 2.40 3.00 - 10.20 (3.5-12.0) 2.33 (0.25-3.25) 4.37 6.8 4.5 A+</td>
</tr>
<tr>
<td>7 9 9 14 - 1.89 2.45 2.45 3.81 - 10.60 (3.5-12.0) 2.44 (0.25-3.25) 4.34 7.0 4.5 A+</td>
</tr>
<tr>
<td>7 9 9 12 - 2.40 2.40 2.40 3.00 - 10.20 (3.5-12.0) 2.33 (0.25-3.25) 4.37 6.8 4.5 A+</td>
</tr>
</tbody>
</table>

**Notes:**

- Please refer to the Design & Technical manual for the combination tables with 5kW model.
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit).
- For more indoor units should be connected.
- Heating capacity is determined based on 37°C air (indoor temperature) and 70°C water (outdoor temperature).
- Pipe length 5 m, height difference 0 m (outdoor unit to indoor unit).
- Total capacity of indoor units connected must be between 7.5 kW and 11.5 kW.
- Please refer to the Design & Technical manual for the combination tables with 5kW model.
- For Model C1, only well-mounted indoor units are selectable.

**Image:**

[Image of table or graph provided for reference]
### 6-unit Multi-split Combination Table – Cooling

<table>
<thead>
<tr>
<th>COP Value</th>
<th>Cooling Operation</th>
<th>Cooling Capacity</th>
<th>Input Power</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>4-unit</td>
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</tr>
</tbody>
</table>

#### Notes:
- COP: 7000 Btu/h V/ 9500 Btu/h V/ 12,000 Btu/h 18/ 16000 Btu/h V/ 18000 Btu/h V/ 24000 Btu/h V/ 24
- The above specifications apply when connected with a wall-mounted unit.
- COP reflects the performance under conditions of 27°C DB/19°C WB (indoor temperature) and 35°C DB/26°C WB (outdoor temperature).
- Pipe length: 3 m, height difference: 3 m (indoor unit to indoor unit).
- Total capacity of indoor units connected must be between 5.5 kW and 18.5 kW.
### 6-unit Multi-split Multi Combination Table - Cooling/Heating

#### 6-unit Multi-split Cooling

<table>
<thead>
<tr>
<th>Unit</th>
<th>1</th>
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<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
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#### 6-unit Multi-split Heating

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<th>4</th>
<th>5</th>
<th>6</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
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</tr>
</tbody>
</table>

**Notes:**
- The above specifications apply when connected with a wall-mounted unit.
- For more indoor units should be connected.
- Cooling capacity is determined based on 27ºCDB/19ºCWB (indoor temperature) and 35ºCDB (outdoor temperature).
- Pipe length: 5 m (height difference: 5 m (basement unit vs indoor unit).
- Total capacity of indoor units connected must be between 0.5kW and 0.13kW.
### 6-unit Multi-split Combination Table – Heating

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Unit Combination</th>
<th>Compressor Efficiency Class</th>
<th>Rating (KW)</th>
<th>Heating Capacity (KW)</th>
<th>Seasonal Performance Factor (SPF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-043</td>
<td>7 7 7 7 7 7</td>
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<td>3.37</td>
<td>3.37</td>
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<tr>
<td>M-042</td>
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<td>13.5</td>
<td>3.37</td>
<td>3.37</td>
</tr>
</tbody>
</table>

**Notes:**
- The above specifications apply when connected with a wall-mounted unit.
- kW: The above specifications apply when connected with a wall-mounted unit.
- Heating capacity in indoor units (enthalpy difference) and *P034* (enthalpy temperature).
- Height (height): 5 in, height difference: 8 in (5000 Btu/h to indoor unit).
- Total capacity of outdoor units connected: 7.5 kW and 115.5 kW.
## Feature Summary

<table>
<thead>
<tr>
<th>Feature</th>
<th>Wall-mounted type</th>
<th>Standard Series</th>
<th>Wall-mounted type</th>
<th>Standard Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Model name
| | | | |
| Refrigerant | | | | |
| Power Diffuser | | | | |
| **Energy-saving Features** | | | | |
| Save Occupancy sensor | | | | |
| Economy operation | | | | |
| Setting temperature range limitation | | | | |
| Setting temperature auto return | | | | |
| **Features for Comfort** | | | | |
| Power diffuser | | | | |
| EPC Mode | | | | |
| Database unit line noise operation | | | | |
| Auto IEC | | | | |
| EPC/DVR operation | | | | |
| Double swing automatic | | | | |
| Automatic fan speed | | | | |
| Auto restart | | | | |
| Reconnectable fresh air duct | | | | |
| Fresh air intake | | | | |
| **Convenience Features** | | | | |
| Auto-off timer | | | | |
| Sleep timer | | | | |
| Program timer | | | | |
| Weekly timer | | | | |
| Weekly & Temperature setback timer | | | | |
| Filter sign | | | | |
| External error output | | | | |
| External ON/OFF input | | | | |
| Wireless LAN control | | | | |
| Vent deodorization filter | | | | |
| Apple-catechin filter | | | | |
| Long-life filter | | | | |
| Washable panel | | | | |
| Silver ion Filter | | | | |
| **Clean Features** | | | | |
| Ion deodorization filter | | | | |
| Apple-catechin filter | | | | |
| **Installation/Support** | | | | |
| Automatic airflow adjustment | | | | |
| Drain pump as standard | | | | |
| Blue fin | | | | |
| Refrigerant cycle monitor | | | | |

*Optional function*
# Feature Summary

<table>
<thead>
<tr>
<th>Model name</th>
<th>Compact 4-way Flow Series</th>
<th>Compact 4-way Flow Series</th>
<th>Mini 4-way Flow Series</th>
<th>Slim (With drain pump)</th>
<th>Slim (With drain pump)</th>
<th>Medium Static Pressure</th>
<th>Floor</th>
<th>Floor/Ceiling</th>
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<tr>
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</table>

**Refrigerant**

- R410A

**Energy-saving Features**

- Save Occupancy sensor
- Economy operation
- Setting temperature range limitation
- Setting temperature auto return

**Power for Comfort**

- Power diffuser
- Powerful operation
- Outdoor unit low noise operation
- Auto changeover
- OPC Stand
- Double swing automatic
- Automatic fan speed
- Auto start
- Connectable fresh air duct

**Fresh air intake**

- Connectable distributing duct
- Auto-off timer
- Sleep timer
- Program timer
- Weekly timer
- Weekly & Temperature setback timer
- Filter sign
- Externally error output
- External ON/OFF input
- Wireless LAN control
- Ion deodorization filter
- Apple catechin filter
- Long-life filter
- Washable panel
- Silver ion filter
- Automatic airflow adjustment
- Drain pump as standard
- Multi fan
- Refrigerant cycle machine

**Convenience Features**

- Auto-off timer
- Sleep timer
- Program timer
- Weekly timer
- Weekly & Temperature setback timer
- Filter sign
- External error output
- External ON/OFF input
- Wireless LAN control
- Ion deodorization filter
- Apple catechin filter
- Long-life filter
- Washable panel
- Silver ion filter
- Automatic airflow adjustment
- Drain pump as standard
- Multi fan
- Refrigerant cycle machine
Light Commercial & Commercial, Residential

VRF

VRF systems provide air conditioning solutions that meet the requirements of a diverse range of buildings. VRF systems provide air conditioning solutions for large residences as well as large commercial buildings.

V-002  VRF Series Overview
V-004  VRF Outdoor Units Lineup
V-006  Features

VRF Outdoor Units

VRF J Series
Heat Pump for Small-capacity type
V-020  VRF J-VS
V-026  VRF J-IVS
V-030  VRF J-IV
V-034  VRF J-IVL

VRF V Series
Heat Recovery Modular type
V-040  VRF VR-IV
Heat Pump Modular type
V-050  VRF V-IV

VRF INDOOR UNITS
V-058  VRF Indoor Unit Lineup for J-VS
V-066  VRF Indoor Unit Lineup for J-VS, J-IV, J-IVL, VR-IV, V-IV
VRF Series Overview

Recommended VRF products for various buildings.

**NEW VRF J-VS**

Maximum 6 HP Heat Pump
This product uses R32, a new environmentally friendly refrigerant. With TOP-class energy efficiency and compact design, it can be installed in a limited and narrow space without being conspicuous. Indoor unit connectable up to 130%.
- Sustainable (R32)
- Saving CO2
- Small Body

**VRF J-IVS**

Maximum 6 HP Heat Pump
The 998 mm compact design does not obstruct the view even when installed underneath a waist-high window, ideal for large houses and retail stores. Indoor unit connectable up to 130%.
- Spacious saving and low sound level design
- Flexible system configuration for homes, stores, and small buildings

**VRF J-IV**

Maximum 6 HP Heat Pump
J-IV is connectable with up to 14 indoor units (Indoor unit connectable up to 150%) making it suitable for commercial facilities housing a number of small stores.
- High energy efficiency
- Flexible system configuration for small and midsize buildings

**VRF J-IVL**

Maximum 18 HP Heat Pump
J-IVL is an outdoor unit with a slim design. Its flexibility in installation makes it ideal for midsize office buildings and hotels. With the newly added 14/16/18 HP models, up to 42 indoor units* are connectable, making them ideal for hotels and educational facilities with many rooms.
- Slim Outdoor Unit
- Small room application
- Class-leading Low Operating Sound

**VRF VR-IV**

Maximum 48 HP Heat Recovery
Smart, cutting-edge design available in a wide range of models from 8 to 48 HP in 2 HP increments with the capacity ratio of indoor units connectable up to 150%.
- Excellent energy saving
- High design flexibility for placement in any building
- Easy installation and maintenance

**VRF V-IV**

Maximum 48 HP Heat Pump
Smart, cutting-edge design Extensive lineup from 8 HP to 48 HP with the capacity ratio of indoor units connectable up to 150%.
- Simultaneous cooling and heating operation using a single refrigerant system
- Annual cooling operation
- Accommodating changes in temperature difference

**Design Simulator**

When installing air conditioning equipment in each room of a building, it is necessary to select an indoor unit suitable for the heat load in the room and derive an outdoor unit that can cover the capacity of all indoor units. In addition, remote controls and converters are selected according to how the customer will manage the air conditioner, and in some cases, a design combined with options may be required to comply with established standards. The “Design Simulator” can be used to facilitate the selection of such complex equipment and the output of system drawings and estimates. (Software for PC)
## VRF Outdoor Units Lineup

<table>
<thead>
<tr>
<th>Capacity (kW)</th>
<th>Refrigerant 12.1</th>
<th>14.0</th>
<th>15.1-15.5</th>
<th>22.4</th>
<th>28.0</th>
<th>33.5</th>
<th>40.0</th>
<th>45.0</th>
<th>50.0-50.4</th>
<th>55.9</th>
<th>61.5</th>
<th>67.0</th>
<th>73.5</th>
<th>78.5</th>
<th>85.0</th>
<th>90.0</th>
<th>95.0</th>
<th>100.5</th>
<th>107.0</th>
<th>112.0</th>
<th>118.5</th>
<th>123.5</th>
<th>130.0</th>
<th>135.0</th>
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<tbody>
<tr>
<td><strong>J-VS Series</strong></td>
<td>AJY040 @LCLDH</td>
<td>AJY045 @LCLDH</td>
<td>AJY054 @LCLDH</td>
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<tr>
<td><strong>J-IV Series</strong></td>
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<td>AJY045 @LBLDH</td>
<td>AJY054 @LBLDH</td>
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<tr>
<td><strong>J-IVL Series</strong></td>
<td>AJY072 @LELDH</td>
<td>AJY090 @LELDH</td>
<td>AJY108 @LELDH</td>
<td>AJY126 @LELDH</td>
<td>AJY144 @LELDH</td>
<td>AJY162 @LELDH</td>
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<tr>
<td><strong>Space Saving</strong></td>
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<td>AJY108 @GALDH</td>
<td>AJY126 @GALDH</td>
<td>AJY144 @GALDH</td>
<td>AJY162 @GALDH</td>
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<tr>
<td><strong>Energy Efficiency</strong></td>
<td>AJY144 @GALDHH</td>
<td>AJY180 @GALDH</td>
<td>AJY216 @GALDH</td>
<td>AJY234 @GALDH</td>
<td>AJY252 @GALDH</td>
<td>AJY270 @GALDH</td>
<td>AJY288 @GALDH</td>
<td>AJY306 @GALDH</td>
<td>AJY324 @GALDH</td>
<td>AJY342 @GALDH</td>
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<td>AJY378 @GALDH</td>
<td>AJY396 @GALDH</td>
<td>AJY414 @GALDH</td>
<td>AJY432 @GALDH</td>
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</tbody>
</table>

**VRF Outdoor Units Lineup**

- **J-VS Series**
- **J-IV Series**
- **J-IVL Series**
- **Space Saving**
  - **Set Model**
- **Energy Efficiency**
  - **Set Model**

**VR-IV Series Heat Recovery**

- **Space Saving**
  - **Set Model**
- **Energy Efficiency**
  - **Set Model**
High-efficiency design with top-class SEER/SCOP

All the VRF Series, including the J-IVL Series, have DC technology to achieve high-efficiency operation. This enhances the durability and reliability of the VRF Series.

High-efficiency is achieved significantly by the use of a DC twin-rotary compressor, inverter technology, and a large heat exchanger.

* These specifications are determined by ducted combination.
Efficient control of operation

Setting temperature range limitation
Sets the minimum and maximum limits on room temperature to establish an optimum balance between energy-saving performance and a comfortable environment.

Auto-off timer
The wired remote controller is equipped with an auto-off timer function that automatically stops operation after a fixed period of time has elapsed from the start of operation to avoid wasting energy. The function also allows you to set the interval for stopping operations.

Energy-saving management
A variety of energy-saving operations can be set and managed depending on the season, climate, and time period. Excellent energy-saving operation using the system controller.

Capacity-saving mode
Operation capacity can be reduced in 5 steps from the rated capacity. This mode cuts down on peak power consumption and eases the maximum load on the unit.

Intelligent refrigerant control
Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

Current refrigerant control
Thermostat ON/OFF occurs frequently. Frequent changes in room temperature interfere with comfort. The compressor starts and stops repeatedly, wasting energy.

New refrigerant control
The thermostat is turned on and off less frequently than under current control to maintain the room temperature at the target temperature. Compared to current control, the compressor will run longer, thus saving energy.

Current model
The outdoor unit supplies constant capacity regardless of the demand of the indoor unit.

New model
The outdoor unit provides sufficient capacity to meet the demands of the indoor unit.

* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.
More Comfort

Precise control of refrigerant flow
The combination of DC inverter control and individual control of electronic expansion valves of an indoor unit enables precise and smooth control of the refrigerant flow. This means the room temperature can be set in increments of 0.5°C.

Quiet operation

Quiet operation

Two low noise modes can be switched over automatically between one in which low noise is prioritized over performance, and the other in which performance is prioritized over low noise, depending on the room temperature and outdoor temperature. This feature can be controlled by external input from the outdoor unit or a 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.

Auto changeover
In Auto setting, the air conditioner switches between cooling and heating modes automatically according to the set temperature and the room temperature.

Auto changeover settings enable the indoor unit to easily switch between cooling and heating regardless of the operating mode of other indoor units. These settings can be made using a wired remote controller for a specific indoor unit. Provides a comfortable environment all year round.

Automatic cooling/heating operation for each room is possible

Switching room temperature sensing position for improved heating comfort (Option)
The optional remote sensor kit (UTV-XSZXZ1) can be connected to the indoor unit to improve comfort by installing the unit at a height appropriate for the living environment.

Precise control of refrigerant flow

Quiet operation

Non-stop oil recovery operation

Auto changeover

Automatic cooling/heating operation for each room is possible

Switching room temperature sensing position for improved heating comfort (Option)
High Reliability

Outdoor unit rotation

The compressor starting order is rotated to equalize the cumulative running time of each unit.

Backup operation
If one compressor fails, the other compressors will initiate backup operation.

Note: Backup operation may not be possible depending on the cause of failure.

Advanced refrigerant control
Compressor control logic controls the inverter speed to balance the mass airflow rate of refrigerant in each outdoor unit.

Protection against liquid flowback
The use of a large accumulator means that refrigerant that has not been completely vaporized stays inside the accumulator to ensure no liquid refrigerant is fed into the compressor.

Blue fin heat exchanger
The anti-corrosion blue fin treatment is applied to the heat exchanger of the outdoor unit.

Completely vaporized refrigerant
Compressor
Large Accumulator

Hydrophilic coating
Cobalt Blue protection
Standard chromate protection
Aluminium base materials

Evaporator
Liquid refrigerant

Completely vaporized refrigerant

Primary
Secondary / Secondary 2

Unbalanced operating conditions

Completely vaporized refrigerant

Primary
Secondary / Secondary 2

Balanced operating conditions
Design Flexibility

Class-leading compact design
An industry-leading compact outdoor unit with optimal airflow pattern design. (Up to 18 HP)

Long pipe design
Pipe design suitable for long and narrow office buildings with elevation differences and low-rise stores with long distances (VRF J-IV Series)

Max. allowable overall pipe length: 1,000 m
The class-leading pipe length of 1,000 m increases flexibility of installation in a wide variety of buildings.

High-capacity connection

<table>
<thead>
<tr>
<th>Series</th>
<th>Connectable indoor unit capacity range</th>
<th>Connectable indoor units</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRF J-IV Series</td>
<td>50% to 130%</td>
<td>up to 13*</td>
</tr>
<tr>
<td>VRF J-VS Series</td>
<td>50% to 130%</td>
<td>up to 13*</td>
</tr>
<tr>
<td>VRF J-IV Series</td>
<td>50% to 150%</td>
<td>up to 14*</td>
</tr>
<tr>
<td>VRF J-VS Series</td>
<td>50% to 150%</td>
<td>up to 14*</td>
</tr>
<tr>
<td>VRF J-VS Series</td>
<td>25% to 120%</td>
<td>up to 30*</td>
</tr>
<tr>
<td>VRF J-VS Series</td>
<td>50% to 150%</td>
<td>up to 64*</td>
</tr>
</tbody>
</table>

*1: The maximum capacity of the combination that includes the 18 HP outdoor unit is below 120%.
*2: J-IVL Series only.
*3: J-VS Series only.
*4: J-IV Series only.
*5: J-IV Series only.

Designed for low refrigerant charge
The optimal design of the indoor and outdoor units reduces the amount of refrigerant required and can be easily installed in a room as small as 15 m².

Various optional parts
- Fresh air intake kit to bring in fresh air
- Comfortable temperature control with a remote sensor
- DX kit links ventilation equipment and air handling units.

Low ambient operation
Our refrigeration cycle technology enables cooling operation even at -15°C.

Wide operating temperature range
All outdoor units have a wide operating temperature range and can operate in extreme temperature conditions.

<table>
<thead>
<tr>
<th>VRF J-IV Series</th>
<th>Heat Pump type</th>
<th>Capacity range (0-100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRF J-VS Series</td>
<td>Heat Recovery Type</td>
<td>25% to 120%</td>
</tr>
<tr>
<td>VRF J-VS Series</td>
<td>Modular Type</td>
<td>50% to 150%</td>
</tr>
</tbody>
</table>

*1: When multiple outdoor units are connected, their operating temperature range is from -7°C to 46°C in cooling.

*2: The operating range is -15°C to 46°C only for systems with all indoor units rated at 5.6 kW or more.

VRF J Series Compact Outdoor Unit
VRF J-VS Series
VRF J-IV Series
VRF J-IVL Series
VRF VR-IV Series
VRF V-IV Series

*3: J-IVL Series 12 HP model only.
*4: J-VS Series 12 HP model only.
*5: J-VS Series 18 HP model only.
Easy Installation

A lifting strap can be hooked onto an outdoor unit. Design of outdoor unit allows for lifting straps to be used. Transportable by forklift. The outdoor unit can be lifted and transported by forklift. Fits into a small elevator.

A lifting strap can be hooked onto an outdoor unit. Design of outdoor unit allows for lifting straps to be used. Transportable by forklift. The outdoor unit can be lifted and transported by forklift. Fits into a small elevator.

Easy access
The removable L-shaped front panel provides more room for installation and service work. Multiple installations can be performed easily and efficiently even in tight spaces.

Flexible pipe connection
Piping and wiring can be accessed from the front, left, right, and bottom.

Simplified wiring work
The communication wiring can be installed seamlessly among indoor, outdoor, and RB units, which makes the installation of the wiring system easier.

Vacuum mode function for easy evacuation
The vacuum mode function enables all expansion valves of an indoor unit to be opened fully, allowing for easier evacuation of air inside pipe lines and indoor units.

Automatic address setting
Addresses of connected indoor units, RB units, and Signal amplifier can all be set automatically from the PCB in the outdoor unit.Addresses can be set manually from an indoor unit or a remote controller.

Easy commissioning with Tools
- Service Tool (UTY-ASGZ1)
  The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.

- Central Remote Controller (UTY-DCGYZ3)
  After the VRF system has been installed. Conveniently, the "test run" required to verify proper system operation can be performed from a nearby Central RC.
**Easy Service and Maintenance**

A 7-segment indicator lamp panel provides detailed information on the function setting status, refrigerant temperature and pressure, compressor operation time, and other factors, facilitating self-diagnosis for each unit.

**Easy-to-read 7-segment indicator lamp**

Shows the following detailed operation and error status without need of any special tools.

**Error status can be checked on an outdoor unit’s display**

- System operation mode
- Discharge temperature and pressure
- Compressor operation status
- Address, type, and number of outdoor unit

**Error diagnosis by Service tool**

**Connection to Service tool**

- A detailed operation status and recent error history can be checked and analyzed using Service tool.
- The last 5 minutes of operation status can be recorded continuously.

**Remote monitoring**

The Web Monitoring system enables the monitoring of the system’s operation status at any time via the internet to ensure trouble-free operation.

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

**The error status can be checked via a wired remote controller for indoor units.**

Error codes are displayed on an LCD screen.
Heat Pump for Small-capacity type

VRF J-VS

System configuration example

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.

This product uses R32, a new environmentally friendly refrigerant. With TOP-class energy efficiency and compact design, it can be installed in a limited and narrow space without being conspicuous.

R32 refrigerant with reduced global warming potential

- Zero Ozone Depletion Potential
- High environmental properties
- High performance
- Economically efficient

GWP
denotes GWP (Global Warming Potential), a measurement that indicates how much other greenhouse gases are capable of warming the Earth based on carbon dioxide. This is the integrated value of radiant energy given to the Earth by these gases. R32 is a greenhouse gas with a lower impact on global warming compared to CO2.

*1 ODP (Ozone Depleting Potential): a relative value that indicates the impact per unit weight of ozone-depleting substances released into the atmosphere with CFC-11 (trichlorofluoromethane, CCl3F) fixed at 1.0

*2 GWP (Global Warming Potential): a measurement that indicates how much other greenhouse gases are capable of warming the Earth based on carbon dioxide. This is the integrated value of radiant energy given to the Earth by these gases. R32 is a greenhouse gas with a lower impact on global warming compared to CO2.

Outdoor unit

Indoor unit

Gas pipe
Liquid pipe
Separation tube
Header

VRF

NEW

VRF

NEW
**Sustainable**

**European F-Gas Regulation Plan**

The European Union has tightened F-gas rules as part of European Green Deal policy, which aims for Europe climate neutral by 2050. The F-Gas Regulation mainly includes:

1. Reducing the total volume of HFCs and phasing out HFC in 2050.
2. The GWP limits for certain products are required to be strengthened.

Fujitsu General as one of its proactive efforts to preserve the global environment, we are working on technological development to achieve the best balance between refrigerants with lower GWP and energy efficiency of equipment adopting safety measures.

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<th>Year</th>
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<th>SCOP</th>
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<tr>
<td>2050</td>
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</table>

**Refrigerant saving design**

Refrigerant saving design the compact indoor unit, piping design, and optimization of heat exchanger volume significantly reduce the system refrigerant volume.

-32% refrigerant charge

*From current model

**Enhanced disaster safety measures**

The system is designed to meet the environmental safety requirements specified in the EC 60335-2-40 standard for the use of R32 refrigerant. The environment requiring safety measures is determined by the size of the room in relation to the amount of refrigerant required. For example, if the system is designed for maximum pipe length and the refrigerant charge is 6 kg, safety measures are required for rooms of 15 m² or less.

- High pressure shut-off valve kit
- Gas Sensor Kit
- GWP 150 and above prohibited
- GWP 750 and above prohibited
- Refrigerant saving design
- Refrigerant use prohibited
- Refrigerant charge

**Saving CO2**

**TOP Class High Energy Saving**

The use of large heat exchanger and a high-efficiency Rotary compressor achieves class-leading SEER/SCOP in all models.

<table>
<thead>
<tr>
<th>HP</th>
<th>SEER</th>
<th>SCOP</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 HP</td>
<td>8.20</td>
<td>5.37</td>
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<tr>
<td>5 HP</td>
<td>8.27</td>
<td>5.37</td>
</tr>
<tr>
<td>6 HP</td>
<td>7.79</td>
<td>4.93</td>
</tr>
</tbody>
</table>

**More Energy-Saving compressor control**

When the room temperature approaches the set temperature after the start of operation, the capacity required for the outdoor unit becomes lower. The minimum compressor speed at this time can now be controlled at a lower value than with conventional products, enabling more energy-efficient operation.

**Small Body**

**Easy to carry, easy to install**

- Light 74kg
- Height difference 998mm
- 940 mm x 320 mm

**Small, lightweight outdoor unit**

The outdoor units in this series are much more compact than conventional outdoor units of comparable capacity. They can be installed on a balcony, fitting below the height of the railing. With a height of less than 1 m, they can be installed in tight spaces such as under windows.

**Low noise design**

Significantly low noise levels are achieved by the use of a DC twin-rotary compressor, inverter technology, and an advanced airflow pattern design.
Situational Piping Design

Long pipe length

Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 120 m. This provides high flexibility in system design.

Long piping lengths are achieved by installing a large-capacity accumulator. No liquid refrigerant is supplied to the compressor even when the required amount of refrigerant is charged in the long piping.

Up to 13 indoor units* can be connected

The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 13 indoor units, which is the best in its class.

*: 6 HP model

Sightliness installation

External static pressure

External static pressure measures up to 30 Pa for 4/5/6 HP models.
Even if the outdoor unit is installed in a small space to hide it, the grille and duct airflow path required for exhaust air can be installed up to a static pressure value of 30 Pa.

Cooling piping system

New Heat Rejection Technology Cooling piping system “Cooling piping system” is adopted to ensure reliability in high outside air.
Even when the outdoor unit is installed in an environment where heat tends to stay (small space), the cooling system using refrigerant can reduce damage caused by heat from PCBs.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>HP</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<tbody>
<tr>
<td>Cooling piping system</td>
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<tr>
<td>Long pipe length</td>
<td>Maximum 120 m</td>
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<td>Power source</td>
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<tr>
<td>Capacity</td>
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<tr>
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<td>12.1 14.0 15.1</td>
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<tr>
<td>Nominal Heating</td>
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<tr>
<td>Max. Heating</td>
<td>13.6 16.0 16.5</td>
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<tr>
<td>Input power</td>
<td>kW</td>
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<tr>
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<tr>
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<td>W/W</td>
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<tr>
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<td>Max. Heating</td>
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<td>Max. Heating</td>
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<tr>
<td>ηc Cooling</td>
<td>%</td>
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<tr>
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<tr>
<td>Airflow rate</td>
<td>m³/h</td>
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<tr>
<td>Cooling</td>
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<td>Sound pressure level/Power level</td>
<td>dB(A)</td>
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<tr>
<td>Cooling</td>
<td>52 / 70 53 / 71 54 / 72</td>
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<td></td>
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</tr>
<tr>
<td>Heating</td>
<td>54 / 72 55 / 73 56 / 74</td>
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</tr>
<tr>
<td>Heat exchanger fin</td>
<td>Blue fin</td>
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<tr>
<td>Dimensions</td>
<td>Height</td>
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</tr>
<tr>
<td>Cooling</td>
<td>998 998 998</td>
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<tr>
<td>Heating</td>
<td>940 940 940</td>
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<tr>
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<td>Refrigerant Type (Global Warming Potential)</td>
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<tr>
<td>Liquid</td>
<td>mm</td>
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<tr>
<td>9.52 9.52 9.52</td>
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</tr>
<tr>
<td>Gas</td>
<td>mm</td>
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<tr>
<td>15.88 15.88 15.88</td>
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<td>Max. height difference</td>
<td>30 30 30</td>
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</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 protective function may work when using it outside the operation range.

Dimensions

<table>
<thead>
<tr>
<th>Scale unit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
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<tr>
<td>Width</td>
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</tr>
<tr>
<td>Depth</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
</tr>
<tr>
<td>Cooling</td>
<td>74 74 74</td>
</tr>
<tr>
<td>Heating</td>
<td>74 74 74</td>
</tr>
</tbody>
</table>
New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

**Current model (J-IIS)**
- Low capacity operation
- Indoor unit request
- Excess capacity

The outdoor unit supplies constant capacity regardless of the demand of the indoor unit.

**New model (J-IVS)**
- Low capacity operation
- Indoor unit request
- Adequate capacity

The outdoor unit provides sufficient capacity to meet the demands of the indoor unit.

*The improvements due to the control and the actual size were vary depending on the combination of the indoor unit and system operating conditions.*

External static pressure

External static pressure measures up to 25 Pa for 4/5/6 HP models.

Advanced high-efficiency technology

**Large propeller fan**
A large propeller fan with an optimized blade angle achieves both high performance and low noise operation.

**DC fan motor**
A small, multi-stage DC fan motor provides high efficiency and low noise operation.

**Large heat exchanger**
The large 3-row heat exchanger substantially improves heat-exchanging performance.

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

**Compact and high-performance DC twin-rotary compressor**
High-efficiency is achieved across compressor loads. Especially good performance is achieved in the low-to-medium load range.

**DC inverter control**
The active filter module improves efficiency.

**High-efficiency compressor motor**
Optimized refrigerant flow design

**High compressor efficiency**
High-efficiency is achieved across compressor loads. Especially good performance is achieved in the low-to-medium load range.
Easy to carry, easy to install

Easier installation
Connection check function: Wiring connections and address settings can be checked thanks to the quick check run function.

Small, lightweight outdoor unit
The outdoor units in this series are much more compact than conventional outdoor units of comparable capacity. They can be installed on a balcony, fitting below the height of the railing. With a height of less than 1 m, they can be installed in tight spaces such as under windows.

Low noise design
Significantly low noise levels are achieved by the use of a DC twin-rotary compressor, inverter technology, and an advanced airflow pattern design.

Long pipe length
Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 80 m. This provides high flexibility in system design.

Up to 13 indoor units* can be connected
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 13 indoor units, which is the best in its class.

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.

Non-stop oil recovery operation
Connection check function: Wiring connections and address settings can be checked thanks to the quick check run function.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
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<td>AJY045LCLDH</td>
<td>AJY054LCLDH</td>
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<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Input power</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>COP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEER</td>
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<td></td>
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<tr>
<td>SCOP</td>
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<td></td>
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<tr>
<td>EER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEER</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCOP</td>
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<tr>
<td>Terminal blocks (Transmission)</td>
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<tr>
<td>Terminal blocks (Power)</td>
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<td>3-Way valve (Liquid)</td>
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<td>3-Way valve (Gas)</td>
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<tr>
<td>22.2 (Cable port)</td>
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</tr>
<tr>
<td>27.8 (Cable port)</td>
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<tr>
<td>Rated capacity range HP</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Power source</td>
<td>Single phase, ~230 V, 50 Hz</td>
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<tr>
<td>Max. Connectable indoor units</td>
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<td>1-8</td>
<td>1-8</td>
</tr>
<tr>
<td></td>
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<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Cooling</td>
<td>12.1</td>
<td>14.0</td>
<td>15.1</td>
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<tr>
<td>Nominal Heating</td>
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<td>3.71</td>
<td>3.48</td>
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<td>3.99</td>
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<tr>
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<td>220.2</td>
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<tr>
<td>ηh Heating</td>
<td>%</td>
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<td>155.4</td>
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<td>4,400</td>
</tr>
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<td>Sound pressure level/Power level</td>
<td>Cooling dB(A)</td>
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<td>53 / 69</td>
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<td>Heating</td>
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<td>56 / 70</td>
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<td>Blue fin</td>
</tr>
<tr>
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<td>R410A (2,088)</td>
<td>R410A (2,088)</td>
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<td>-5 to 46</td>
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<tr>
<td>Heating</td>
<td>-20 to 21</td>
<td>-20 to 21</td>
<td>-20 to 21</td>
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</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 protective function may work when using it outside the operation range.

Dimensions
<table>
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<tr>
<td>Depth (mm)</td>
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<td>370</td>
<td>370</td>
</tr>
</tbody>
</table>

*: 6 HP model
**Heat Pump**

for Small-capacity type

**VRF J-IV**

**System configuration example**
- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.

**New intelligent refrigerant control**

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

**External static pressure**

External static pressure measures up to 30 Pa for 4/5/6 HP.

**Advanced high-efficiency technology**

- **Large propeller fan**
  A large propeller fan with an optimized blade angle achieves both high performance and low noise operation.

- **DC fan motor**
  A small, multi-stage DC fan motor contributes to high efficiency and low noise operation.

- **Large heat exchanger**
  The large 3-row heat exchanger substantially improves heat exchanging performance.

- **Subcooling heat exchanger**
  The dual-tube heat exchanger improves cooling performance.

- **DC twin-rotary compressor**
  High efficiency is achieved across compressor loads. Especially good performance is achieved in the low-to-medium load range.

- **DC inverter control**
  The active filter module improves efficiency.

*The improvements due to the control and the actual size were vary depending on the combination of the indoor unit and system operating conditions.*
Efficiency in actual operating conditions
The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/CDP (Max. Heating) in all models.

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.

Long pipe length
Our advanced refrigerant control technology allows us to achieve a total refrigerant pipe length of 180 m. This provides high flexibility in system design.

Up to 14 indoor units* can be connected
The combination of smaller but sufficiently powerful indoor units and outdoor units with an optimized heat exchanging structure makes it possible to connect up to 14 indoor units, which is the best in its class.

Total pipe length
Maximum 180 m
- Height difference between outdoor and indoor units: Maximum 50 m
- For an additional unit connected below indoor units: max. 40 m

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Current model (2,3)</th>
<th>New model (2,3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Up to 14 indoor units (HP)</td>
<td>4,5,6</td>
<td>4,5,6</td>
</tr>
<tr>
<td>Height difference between outdoor and indoor units</td>
<td>15 m</td>
<td>15 m</td>
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<tr>
<td>Pipe length from first separation tube to farthest indoor unit</td>
<td>Maximum 40 m</td>
<td>Maximum 40 m</td>
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<tr>
<td>Actual pipe length</td>
<td>Maximum 120 m</td>
<td>Maximum 120 m</td>
</tr>
</tbody>
</table>

- * AHP model
- ** These specifications are determined by cassette combination.

Connection check function: Wiring connections and address settings can be checked thanks to the quick check run function.

• Displays the number of each connected indoor unit.
• Displays the duplicate address number assigned to an indoor unit.

Dimensions

- Previous model
- J-IV Series
- Operation stopped during oil recovery
- Non-stop operation during oil recovery
- Time
- Time

VRF
System configuration example

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.

New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

External static pressure

External static pressure is available up to 60 Pa for 14/16/18 HP (30 Pa for 8/10 HP, 40 Pa for 12 HP).

Capacities are slightly decreased relative to the rated values during high static pressure operations.

Advanced high-efficiency technology

- Large propeller fan
  - A large-diameter propeller fan with our proprietary blade design reduces draft loss, which results in high-efficiency and low-noise operation.

- Large heat exchanger
  - The large 2.6-row heat exchanger substantially improves heat-exchanging performance.

- DC fan motor
  - A small, multi-stage DC fan motor provides high efficiency and low noise operation.

- Subcooling heat exchanger
  - The dual-tube heat exchanger improves cooling performance.

- Scroll compressor
  - The combination of a scroll compressor with a wide rotational frequency range from 15 to 130 rps and our proprietary waveable sine-wave control that smoothly controls the input power into the motor achieves more energy-efficient and quieter operation.

- DC inverter control
  - The active filter module improves efficiency.

* The improvements due to the control and the actual size vary depending on the combination of the indoor unit and system operating conditions.
Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.

**Slim & Compact design**

Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.

**VRF J-IVL**

Installation

**Low noise level in consideration of nearby residents**

Front air discharge type with a width of about 1,000 mm, allowing for flexible installation even in narrow spaces.

**Narrow space behind building**

Space saving

Small and thin, allowing for direct ground or wall mounting installations even in narrow alleys.

**Installation on the back street of a building**

Flexible installation

Slim, low-body front air discharge meets the requirements for installation even in tight spaces. Installation flexibility without blocking the windows of buildings contributes to substantial space savings, even when multiple units are installed.

**Space requirement**

Compared with current 8/10 HP models:

- **-26%**

**Weight**

Compared with current 16 HP models:

- **-62 kg**

**Height difference**

Compared with current 16 HP models:

- **-262 mm**

**Depth difference**

Compared with current all models:

- **-285 mm**
Efficiency in actual operating conditions
The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/COP (Max. Heating) in all models.

Long pipe length
Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 400 m. This provides high flexibility in system design.

Up to 42 indoor units* can be connected.
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 42 indoor units, which is the best in its class. *: 18 HP model

Class-leading low operating sound
The top-class low operating noise makes it ideal for use in densely populated areas. These low operating sound models are ideal for installation in densely populated areas.
Our heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.

The energy-saving technology that boosted operation efficiency

- **Powerful large propeller fan**: The fan uses CFD* technology to achieve both high-performance and low-noise operation.
- **Sine-wave DC inverter control**: High efficiency is realized by the adoption of reduced switching loss IPM.
- **4-face heat exchanger**: The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.
- **Subcooling heat exchanger**: High heat exchange efficiency is achieved by using an internal projection-shape double-pipe construction.
- **High-efficient, large-capacity DC twin-rotary compressor**: Large capacity, high-efficient DC twin-rotary compressor with excellent intermediate capability.

*CFD: Computational Fluid Dynamics

Our heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.

**Highly energy-efficient operation**

*Current model (VR-II) 50% to 150%

*New model (VR-IV) 25% to 150%

*For modular type, 25% to 49.9% operation in the entire system is available (by one unit operation)
**Extended connection ratio (applicable to multiple tenants)**

Especially useful when starting partial air conditioning in a building under construction. Installation can be added flexibly for each tenant.

**Stand-alone**

Current model (VR-II)

**Example**) 50% of 12HP minimum connected indoor unit capacity is required.

**New model (VR-IV)**

**Example**) 25% of 12HP minimum connected indoor unit capacity is required.

**Modular type**

One outdoor unit operates effectively for the capacities of connectable indoor units in the entire system. (Each of the multiple outdoor units does not dare to operate at 25% capacity: any one of the outdoor units will operate at 50% and the remaining units will each output 0%, i.e., stop operating.)

**Example**

One 10HP outdoor unit performs 25% of the total 20HP outdoor units system.

One 10HP outdoor unit performs 50% of its capacity → Two outdoor units do not perform 25% of the operation.

**Additional installation is possible without changing the main pipe.**

A main pipe of a diameter that can be used for the final system is installed at the beginning of the installation. Duplication of the work will be avoided as there is no need to change the main pipe as in the previous model.

**All-inverter compressor**

Large-capacity DC inverter compressor

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

**High-efficiency compressor speed control**

The compressor speed control in 0.1 Hz increments ensures a comfortable space with less change in room temperature and less energy loss.
Efficiency in actual operating conditions

Class-leading high COP (Maximum) The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.

Flexible pipe connection

More flexible refrigerant pipe work is possible due to 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, each compressor carries out sophisticated operation. Instead of operating one compressor at full load to distribute the refrigerant to one heat exchanger, all compressors operate at partial load to distribute the refrigerant to all heat exchangers, thereby improving the efficiency of the entire system.

Heat exchanger refrigerant control

The heat exchanger in the outdoor unit is divided into two parts, upper and lower. 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 and slim design with a height of 198 mm makes it easy to install in tight spaces with height constraints.

- A drain pipe is not required.
- Different positions of a control box can be chosen to accommodate installation conditions.
- Series connection for simplified installation

Easy maintenance in tight spaces

Maintenance can be performed from the side.

Parts can be accessed and replaced easily even in tight spaces inside the ceiling.
Outdoor units lineup

- Combinations other than those listed below are not recommended.

### Space saving combination

<table>
<thead>
<tr>
<th>HP</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>8, 10, 12 HP</td>
<td>AJY090GALDH / AJY108GALDH / AJY126GALDH</td>
</tr>
<tr>
<td>14, 16 HP</td>
<td>AJY144GALDH / AJY172GALDH / AJY200GALDH</td>
</tr>
</tbody>
</table>

### Energy efficiency combination

<table>
<thead>
<tr>
<th>HP</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>14, 16 HP</td>
<td>AJY144GALDHH / AJY198GALDHH / AJY216GALDHH / AJY234GALDHH / AJY252GALDHH</td>
</tr>
</tbody>
</table>

### Dimensions

- **8, 10, 12 HP**
  - 8, 10, 12 HP - 8, 10, 12 HP:
    - 80 mm x 80 mm (8HP)
    - 100 mm x 100 mm (10HP)
    - 125 mm x 125 mm (12HP)

- **14, 16 HP**
  - 14, 16 HP:
    - 80 mm x 80 mm (14HP)
    - 100 mm x 100 mm (16HP)

By reading this document naturally, it clearly outlines the lineup of outdoor units for VR-IV systems, specifying space saving and energy efficiency combinations. Dimensions are provided for both HP ratings, illustrating the size and configuration options available for installation.
### Outdoor units specifications

#### Space-saving combination

| Model name | 06 | 09 | 12 | 12C | 18 | 18C | 24 | 30 | 42K | 50 | 54K | 60K | 72K | 84K | 100K | 120K | 144K |
|------------|----|----|----|-----|----|-----|----|----|-----|----|-----|-----|-----|-----|-----|-----|
| Capacity   | kW | kW | kW | kW  | kW | kW  | kW | kW | kW  | kW | kW  | kW  | kW  | kW  | kW  | kW  | kW  |
| Input power | kW | kW | kW | kW  | kW | kW  | kW | kW | kW  | kW | kW  | kW  | kW  | kW  | kW  | kW  | kW  |
| Sound pressure level* | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) | dB(A) |
| Weight      | kg | kg | kg | kg   | kg | kg   | kg | kg | kg   | kg | kg   | kg   | kg   | kg   | kg   | kg   | kg   |
| Height      | mm | mm | mm | mm   | mm | mm   | mm | mm | mm   | mm | mm   | mm   | mm   | mm   | mm   | mm   | mm   |
| Depth       | mm | mm | mm | mm   | mm | mm   | mm | mm | mm   | mm | mm   | mm   | mm   | mm   | mm   | mm   | mm   |
| Width       | mm | mm | mm | mm   | mm | mm   | mm | mm | mm   | mm | mm   | mm   | mm   | mm   | mm   | mm   | mm   |
| Height      | mm | mm | mm | mm   | mm | mm   | mm | mm | mm   | mm | mm   | mm   | mm   | mm   | mm   | mm   | mm   |
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#### Energy-Efficiency Combination

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<tr>
<th>Model name</th>
<th>06</th>
<th>09</th>
<th>12</th>
<th>12C</th>
<th>18</th>
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Note: Specifications are based on the following conditions: Heating: Indoor temperature: 20°C, Outdoor temperature: 35°C; Cooling: Indoor temperature: 29°C, Outdoor temperature: 35°C; Pipe length: 7.0 m; Height difference between outdoor unit and indoor unit: 0 m.

1. When cooling operation is conducted at an outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to that of the indoor units.
2. The noise level is the value measured in an anechoic room. When measured in an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.
3. EER: Energy Efficiency Ratio
4. COP: Coefficient of Performance
5. SCOP: Seasonal Coefficient of Performance
6. The weight of refrigerant charged in each refrigerant circuit is described below.
7. When cooling operation is conducted at an outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to that of the indoor units.
8. The noise level is the value measured in an anechoic room. When measured in an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.

---

### When cooling operation is conducted at an outdoor air temperature below -5°C,

In an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.
New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

Efficiency in actual operating conditions

The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.

The energy-saving technology that boosted operation efficiency

- **Powerful large propeller fan**
  - The fan uses CFD* technology to achieve both high performance and low noise operation. (*CFD: Computational Fluid Dynamics)

- **3-phase DC fan motor**
  - The use of a DC fan motor with sophisticated driver control improves energy efficiency substantially. In addition, low noise is realized by the DC fan motor.

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

- **4-face heat exchanger**
  - The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.

- **Subcooling heat exchanger**
  - High heat exchange efficiency is achieved by using an internal projection-shape double-pipe construction.

- **High-efficient, large-capacity DC twin-rotary compressor**
  - Large-capacity high-efficient DC twin-rotary compressor with excellent intermediate capability.

- **Front intake port (Corner cut air inlet structure)**
  - In multiple outdoor unit installations, the unique front intake design improves airflow into the heat exchanger.

* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.
Outdoor units lineup

Space saving combination

- 22.4 kW (8 HP)
  - UNIT: AJY072LALDH
- 28.0 kW (10 HP)
  - UNIT: AJY090LALDH
- 33.5 kW (12 HP)
  - UNIT: AJY108LALDH
- 40.0 kW (14 HP)
  - UNIT: AJY126LALDH
- 45.0 kW (16 HP)
  - UNIT: AJY144LALDH

- 56.4 kW (18 HP)
  - UNIT: AJY162LALDH
- 68.0 kW (22 HP)
  - UNIT: AJY180LALDH
- 62.4 kW (22 HP)
  - UNIT: AJY198LALDH
- 88.6 kW (28 HP)
  - UNIT: AJY234LALDH

- 80.0 kW (26 HP)
  - UNIT: AJY252LALDH
- 95.4 kW (34 HP)
  - UNIT: AJY270LALDH
- 90.0 kW (32 HP)
  - UNIT: AJY288LALDH
- 103.0 kW (36 HP)
  - UNIT: AJY324LALDH

Energy efficiency combination

- 44.8 kW (16 HP)
  - UNIT: AJY144LALDH
- 55.9 kW (20 HP)
  - UNIT: AJY160LALDH
- 67.2 kW (24 HP)
  - UNIT: AJY176LALDH
- 72.8 kW (26 HP)
  - UNIT: AJY192LALDH
- 78.3 kW (28 HP)
  - UNIT: AJY208LALDH

- 84.0 kW (30 HP)
  - UNIT: AJY224LALDH
- 95.9 kW (34 HP)
  - UNIT: AJY240LALDH
- 103.3 kW (36 HP)
  - UNIT: AJY256LALDH
- 110.0 kW (38 HP)
  - UNIT: AJY272LALDH
- 113.5 kW (40 HP)
  - UNIT: AJY288LALDH

- 120.0 kW (44 HP)
  - UNIT: AJY312LALDH
- 125.0 kW (44 HP)
  - UNIT: AJY324LALDH
- 130.0 kW (46 HP)
  - UNIT: AJY340LALDH

Dimensions

- 8, 10 HP: AJY072LALDH / AJY090LALDH
- 12, 14, 16 HP: AJY108LALDH / AJY126LALDH / AJY144LALDH

Outdoor units lineup
- Combinations other than those listed below are not recommended.
### Outdoor unit specifications

#### Space-saving combination

<table>
<thead>
<tr>
<th>Unit</th>
<th>24</th>
<th>26</th>
<th>30</th>
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<th>48</th>
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<th>60</th>
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<th>84</th>
<th>96</th>
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<tbody>
<tr>
<td><strong>Input capacity range (HP)</strong></td>
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<td><strong>VRF</strong></td>
<td><strong>VRF</strong></td>
<td><strong>VRF</strong></td>
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#### Energy Efficiency Combination

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<tbody>
<tr>
<td><strong>Input capacity range (HP)</strong></td>
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<td><strong>VRF</strong></td>
<td><strong>VRF</strong></td>
<td><strong>VRF</strong></td>
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</tbody>
</table>

### Notes
- Specifications are subject to the following conditions:
  - **Cooling:** Indoor temperature of 27°C/19°C, and outdoor temperature of 35°C/22°C.
  - **Heating:** Indoor temperature of 20°C/10°C, and outdoor temperature of 7°C/12°C.
- **Pipe length:** 7.5 m. Height difference between outdoor unit and indoor unit: 0m.

*When cooling operation is conducted at an outdoor net temperature below 5°C, the outdoor unit may not be able to maintain the temperature difference between the indoor and outdoor units.

*When specified, the indicated value is the net difference between the indoor and outdoor units.

*The numbers in parentheses are the net differences between the indoor and outdoor units.

*These specifications are determined by actual measurement.

*The values indicated are the values measured in an actual installation.
VRF INDOOR UNITS

17 types and 95 models available to meet the requirements of any building design.

Indoor units for the VRF Systems are compact, highly efficient, quiet, and user-friendly. Fujitsu General offers a variety of types and capacities for its indoor units that are easy to install and maintain. In addition, a variety of optional parts are available to provide an even more desirable air conditioning experience to users.

V-058  VRF Indoor Unit Lineup for J-V
V-060  Compact Cassette Grid type
V-062  Low Static Pressure Duct Slim Duct Slim Concealed Floor
V-064  Wall-mounted type
V-066  VRF Indoor Unit Lineup for J-IVS, J-IV, J-IVL, VR-IV, V-IV
V-068  Compact Cassette Grid type
V-070  Cassette Slim type Circular Flow
V-072  Cassette Large type Circular Flow
V-074  Cassette One-way Flow type
V-076  3D Flow Cassette
V-078  Low Static Pressure Duct Mini Duct
V-080  Low Static Pressure Duct Slim Duct Slim Concealed Floor
V-082  Low Static Pressure Duct
V-084  Medium Static Pressure Duct
V-086  High Static Pressure Duct
V-088  Compact Floor
V-090  Floor/Ceiling
V-092  Ceiling
V-094  Wall-mounted (EEV:Internal/external)
## VRF Indoor Unit Lineup for J-VS

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<thead>
<tr>
<th>Capacity range (kW)</th>
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<th>2.2</th>
<th>2.8</th>
<th>3.6</th>
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</table>

*1: Production by order

Specifications and design are subject to change without notice.

*Products other than ducts can be connected to J-IV, J-IVS, J-IVL, V-IV, VR-IV.

**This model requires the EV kit to be connected.**
Compact and stylish panel
The compact and stylish panel fits nicely into a grid type ceiling. The linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.

Easy maintenance
You can access the unit for maintenance just by removing a ceiling panel right next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.

Flexible installation
The unit fits nicely into the decor of a grid type ceiling and can be installed near a lighting or a ventilation opening.

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

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXB004HLAH</th>
<th>AUXB005HLAH</th>
<th>AUXB007HLAH</th>
<th>AUXB009HLAH</th>
<th>AUXB012HLAH</th>
<th>AUXB014HLAH</th>
<th>AUXB018HLAH</th>
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<td>Single phase, 220-240V, 50Hz</td>
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Optional parts
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Model: AUXB004HLAH / AUXB005HLAH / AUXB007HLAH / AUXB009HLAH / AUXB012HLAH / AUXB014HLAH / AUXN009HLAH / AUXN012HLAH / AUXN014HLAH * Production by order

Note: Specifications are subject to 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
*The value is the same for cooling and heating if there is one value.

Optional parts
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Dimensions
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<th>View B</th>
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New
Slim design
Slim design allows for installation in a tight ceiling space.

Air intake
Air intake direction can be selected to match the installation site.

Wide range of static pressures
The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa.
The static pressure range can be changed by a remote controller.

Auto louver grille kit (Option)
The optional clean-looking flat Auto louver blends into any interior and provides a comfortable airflow.

Filter (Accessory)
ARXD004-018
ARXD004

Specifications

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<tr>
<th>Model name</th>
<th>ARXD004HLAH</th>
<th>ARXD005HLAH</th>
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<th>ARXP009HLAH</th>
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<tbody>
<tr>
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<td>2.8</td>
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<td>7.1</td>
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<td>4.5</td>
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<td>(Heating) kW</td>
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</table>
| Airflow rate
  - High m3/h | 530 | 530 | 550 | 600 | 580 | 790 | 930 | 1,250 | 770 | 940 | 940 |
  - Med-High m3/h | 480 | 480 | 520 | 550 | 550 | 720 | 880 | 1,180 | 630 | 810 | 810 |
  - Med m3/h | 440 | 440 | 480 | 500 | 520 | 640 | 780 | 1,060 | 530 | 660 | 660 |
  - Med-Low m3/h | 410 | 410 | 450 | 460 | 480 | 560 | 670 | 930 | 480 | 580 | 580 |
  - Low m3/h | 370 | 370 | 400 | 400 | 430 | 470 | 580 | 810 | 430 | 490 | 490 |
  - Quiet m3/h | 320 | 320 | 360 | 360 | 350 | 370 | 510 | 640 | 380 | 390 | 390 |
| Static pressure range Pa | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 50 | 0 to 25 | 0 to 25 | 0 to 25 |
| Sound pressure level
  - High dB(A) | 26 | 26 | 28 | 29 | 30 | 34 | 34 | 35 | 36 | 40 | 40 |
  - Med-High dB(A) | 26 | 26 | 26 | 27 | 28 | 32 | 31 | 32 | 32 | 38 | 38 |
  - Med dB(A) | 25 | 25 | 25 | 25 | 27 | 30 | 29 | 30 | 28 | 33 | 33 |
  - Med-Low dB(A) | 24 | 24 | 24 | 24 | 26 | 28 | 27 | 27 | 27 | 31 | 31 |
  - Low dB(A) | 22 | 22 | 22 | 22 | 24 | 25 | 25 | 24 | 25 | 27 | 27 |
  - Quiet dB(A) | 21 | 21 | 21 | 21 | 22 | 22 | 23 | 21 | 23 | 24 | 24 |
| Net Dimensions (H × W × D) mm | 198 × 700 × 620 | 198 × 900 × 620 | 198 × 1,100 × 620 | 198 × 700 × 620 | 198 × 900 × 620 | 198 × 1,100 × 620 | 198 × 700 × 620 | 198 × 900 × 620 | 198 × 1,100 × 620 | 198 × 700 × 620 | 198 × 900 × 620 |
| Weight kg | 16 | 16 | 16.5 | 16.5 | 17 | 17 | 21 | 25 | 16.5 | 17 | 17 |

Note: Specifications are subject to the following conditions:
Cooling: Indoor temperature of 27°C(DB)/19°C(WB), and outdoor temperature of 35°C(DB)/24°C(WB).
Heating: Indoor temperature of 20˚C(DB)/(15˚C(WB)), and outdoor temperature of 7˚C(DB)/6˚C(WB).
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].
*1: This value is under cooling operation.

Optional parts
* For more details, please refer to the chapter “Optional parts.”

- Wireless remote controller: UTY-LMN*1
- Auto louver grille kit: UTY-GDKX (S.001, D.016)
- Remote sensor unit: UTY-GS07
- IR receiver unit: UTY-TRHX
- WLAN adapter: UTY-TG5C
- Gas sensor kit: UTY-LFZC (S.004)
- Expansion kit: UTY-ZEXA
- Gas sensor kit: UTY-ZLZY
  * IR receiver unit (UTY-TRHX) is required.

Dimensions

Note: Specifications are subject to 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].

*1: This value is under cooling operation.

For more details, please refer to the chapter “Optional parts.”

Model: ARXD004HLAH / ARXD005HLAH / ARXD007HLAH / ARXD009HLAH / ARXD012HLAH / ARXD014HLAH / ARXD018HLAH / ARXD024HLAH / ARXP009HLAH / ARXP012HLAH / ARXP014HLAH
* Production by order

* IR receiver unit (UTY-TRHX) is required.

Model name: ARXD004HLAH / ARXD005HLAH / ARXD007HLAH / ARXD009HLAH / ARXD012HLAH / ARXD014HLAH / ARXD018HLAH / ARXD024HLAH / ARXP009HLAH / ARXP012HLAH / ARXP014HLAH
* Production by order

Dimensions

Note: Specifications are subject to 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].
*1: This value is under cooling operation.

For more details, please refer to the chapter “Optional parts.”

Model: ARXD004HLAH / ARXD005HLAH / ARXD007HLAH / ARXD009HLAH / ARXD012HLAH / ARXD014HLAH / ARXD018HLAH / ARXD024HLAH / ARXP009HLAH / ARXP012HLAH / ARXP014HLAH
* Production by order

* IR receiver unit (UTY-TRHX) is required.
Highly-efficient, compact design

The 004-014 models share the same design. The high-density and large heat exchanger achieves a highly-efficient and compact design. The compact body blends in well with conference rooms and offices, providing comfortable air conditioning.

More comfortable airflow

The unique power diffuser provides comfortable air conditioning.

Quiet operation & 6-Step fan speed control

The airflow pattern achieves significant noise reduction. Multistep airflow adjustment to suit the environment.

The Occupancy sensor contributes to further energy savings.

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

*If you want to use the Occupancy sensor control function, you need a setting device that can set the Occupancy sensor control function. For example: Wired RC (Touch panel).

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ASYA004HCAH</th>
<th>ASYA005HCAH</th>
<th>ASYA007HCAH</th>
<th>ASYA009HCAH</th>
<th>ASYA012HCAH</th>
<th>ASYA014HCAH</th>
<th>ASYE004HCAH</th>
<th>ASYE005HCAH</th>
<th>ASYE007HCAH</th>
<th>ASYE009HCAH</th>
<th>ASYE012HCAH</th>
<th>ASYE014HCAH</th>
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<td>Single phase, 220-240V, 50Hz</td>
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<td>2.8</td>
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<td>4.0</td>
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<td>268 × 840 × 203</td>
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Optional parts

Wireless remote controllers: UTY-KA6Y
Multi-link adapter: UTY-TFCA1, UTY-TFCA3, FC-AC-WF1ZT
Silver ion filter: UTR-IFSK-5
Remote sensor kit: UTY-XSZXZ1
Gas sensor kit: UTY-SGZY
Expansion kit: UTZ-JZLX

*For more details, please refer to the chapter "Optional parts".

Dimensions

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<th>Model</th>
<th>S04</th>
<th>203</th>
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<tbody>
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<td>Drain hose</td>
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<td>Gas pipe</td>
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<tr>
<td>Drain hose</td>
<td>Approximate 400</td>
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</tbody>
</table>

Note: Specifications are subject to 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 connecting ASY*004G**H, ASY*007G**H, ASY*009G**H to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.
### VRF Indoor Unit Lineup for J-VS J-IV J-IVL VR-IV V-IV

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<th>2.8</th>
<th>3.6</th>
<th>4.5</th>
<th>5.6</th>
<th>6.7</th>
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</tbody>
</table>

### Specifications and Design
- Specifications and design are subject to change without notice.
- *2: ARXDA/GALDH cannot be connected to J-VS/J-IVL Series.
- *3: Production by order.
Compact and stylish panel
The compact and stylish panel fits nicely into a grid type ceiling. The linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.

Easy maintenance
You can access the unit for maintenance just by removing a ceiling panel right next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.

Flexible installation
The unit fits nicely into the decor of a grid type ceiling and can be installed near a lighting or a ventilation opening.

High ceiling mode
The cassette can be installed up to a height of 3 m. (012/014/018/024).

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXB004GLEH</th>
<th>AUXB007GLEH</th>
<th>AUXB009GLEH</th>
<th>AUXB012GLEH</th>
<th>AUXB014GLEH</th>
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<td>Input power W</td>
<td>23</td>
<td>25</td>
<td>25</td>
<td>29</td>
<td>35</td>
<td>36</td>
<td>84</td>
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<tr>
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<td>High</td>
<td>530/530</td>
<td>540</td>
<td>550</td>
<td>600</td>
<td>680</td>
<td>710</td>
</tr>
<tr>
<td></td>
<td>Med-High</td>
<td>490/480</td>
<td>500</td>
<td>520</td>
<td>560</td>
<td>620</td>
<td>660</td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>450/430</td>
<td>460</td>
<td>480</td>
<td>520</td>
<td>560</td>
<td>590</td>
</tr>
<tr>
<td></td>
<td>Med-Low</td>
<td>420/380</td>
<td>420</td>
<td>440</td>
<td>480</td>
<td>500</td>
<td>520</td>
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<td>Low</td>
<td>390/340</td>
<td>390</td>
<td>400</td>
<td>430</td>
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<td>460</td>
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<td>350</td>
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<td>34</td>
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<td>41</td>
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<td>33</td>
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<td>Med</td>
<td>30/29</td>
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<td>33</td>
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<td>36</td>
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<td>28/26</td>
<td>28</td>
<td>29</td>
<td>31</td>
<td>32</td>
<td>33</td>
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<td>Low</td>
<td>27/24</td>
<td>27</td>
<td>27</td>
<td>29</td>
<td>30</td>
<td>30</td>
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<td>25/21</td>
<td>25</td>
<td>25</td>
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<td>Net Dimensions (H × W × D) mm</td>
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<td>Weight kg</td>
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<td>Gas (Flare)</td>
<td>9.52</td>
<td></td>
<td></td>
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<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
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Note: Specifications are subject to 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]

Optional parts
Air Outlet Shutter Plate: UTG-UFYE-W/UTG-UFYC-W
Flesh Air Intake Kit: UTZ-VXAA
Insulation kit for high humidity: UTD-KXGC
Silver Ion Filter: UTD-HFAA
Remote sensor kit: UTY-XSZXZ1
Cassette Grille: UTG-UFYC-W, UTG-UFYE-W
External power supply unit: UTR-YDZB
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1

Dimensions

Service access
Indoor unit: 148
Max. 700mm

Note: For more details, please refer to the chapter “Optional parts.”

Model code | Maximum height from floor to ceiling (m)
-----------|---------------------------------
004 | 2.7
007 | 2.7
009 | 2.7
012 | 2.7
014 | 2.7
018 | 2.7
024 | 2.7
### Specifications

<table>
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<tr>
<th>Feature</th>
<th>AUXM018GLEH</th>
<th>AUXM024GLEH</th>
<th>AUXM030GLEH</th>
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<tr>
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<td>AUXM018GLEH</td>
<td>AUXM024GLEH</td>
<td>AUXM030GLEH</td>
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<td><strong>Power source</strong></td>
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<td>Single phase, ~230 V, 50 Hz</td>
<td>Single phase, ~230 V, 50 Hz</td>
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<tr>
<td><strong>Capacity</strong></td>
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<td><strong>Cooling kW</strong></td>
<td>5.6</td>
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<td><strong>Heating kW</strong></td>
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<td><strong>Input power W</strong></td>
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<tr>
<td><strong>High m³/h</strong></td>
<td>1,050</td>
<td>1,120</td>
<td>1,470</td>
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<tr>
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<td>1,160</td>
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<td>900</td>
<td>930</td>
<td>1,070</td>
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<td><strong>Med-Low m³/h</strong></td>
<td>870</td>
<td>900</td>
<td>930</td>
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<td><strong>Low m³/h</strong></td>
<td>810</td>
<td>870</td>
<td>900</td>
</tr>
<tr>
<td><strong>Quiet m³/h</strong></td>
<td>780</td>
<td>780</td>
<td>780</td>
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<td><strong>Sound pressure level dB(A)</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>High</strong></td>
<td>33</td>
<td>35</td>
<td>40</td>
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<td><strong>Med-High</strong></td>
<td>32</td>
<td>33</td>
<td>36</td>
</tr>
<tr>
<td><strong>Med</strong></td>
<td>31</td>
<td>32</td>
<td>34</td>
</tr>
<tr>
<td><strong>Med-Low</strong></td>
<td>30</td>
<td>31</td>
<td>32</td>
</tr>
<tr>
<td><strong>Low</strong></td>
<td>29</td>
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<td>31</td>
</tr>
<tr>
<td><strong>Quiet</strong></td>
<td>28</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td><strong>Dimensions (H × W × D) mm</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Indoor unit</td>
<td>246 × 840 × 840</td>
<td>246 × 840 × 840</td>
<td>246 × 840 × 840</td>
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<tr>
<td><strong>Height difference</strong></td>
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<td>0 m</td>
<td>0 m</td>
</tr>
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<td><strong>Voltage</strong></td>
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<td>230 V</td>
<td>230 V</td>
</tr>
<tr>
<td><strong>Pipe length</strong></td>
<td>7.5 m</td>
<td>7.5 m</td>
<td>7.5 m</td>
</tr>
<tr>
<td><strong>Gas pipe diameter (Liquid/Gas)</strong></td>
<td>Ø9.52/Ø15.88 mm</td>
<td>Ø9.52/Ø15.88 mm</td>
<td>Ø9.52/Ø15.88 mm</td>
</tr>
<tr>
<td><strong>Drain Hose Diameter (I.D./O.D.)</strong></td>
<td>25/32</td>
<td>25/32</td>
<td>25/32</td>
</tr>
<tr>
<td><strong>Dimensions (H × W × D) mm</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Height difference</strong></td>
<td>0 m</td>
<td>0 m</td>
<td>0 m</td>
</tr>
</tbody>
</table>

Note: Specifications are subject to 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 AUX*018GLEH is connected to an outdoor unit other than one of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).
- When connecting AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

### Optional parts

- **Human sensor** Kit: UTY-425E7C
- **Remote controller** with touch panel: UTY-340E7C
- **Central remote controller only** UTY-280E7C
- **Fresh air intake kit**: UTY-5G3E7C
- **Air Outlet Shutter Plate**: UTY-EXE7C
- **Insulation kit for high humidity**: UTY-EXE7C
- **Cassette Grille**:
  - UTG-UKYC-W
  - UTG-UKYA-B
- **External power supply unit**: UTY-EXE7C
- **IR Receiver Unit**: UTY-5G3E7C
- **WLAN adapter**: UTY-5G3E7C
- **Silver Ion Filter**: UTY-5G3E7C
- **Remote sensor kit**:
  - UTY-5G3E7C
  - UTY-5G3E7C

*For more details, please refer to the chapter "Optional parts".

### Individual Louver Control

Each louver can be set individually by the Touch panel wired remote controller so the user can enjoy the comfort of different directional airflows according to the room layout.

* UTY-340E7C Wired remote controller with touch panel and UTY-340E7C Central remote controller only

### The Human Sensor contributes to further energy savings.

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

* UTY-425E7C Wired remote controller with touch panel and UTY-340E7C Central remote controller only

2 modes are available to choose from:

- **Auto economy mode**: The air conditioner stops operating when it detects that the room is unoccupied.
- **Auto stop mode**: The air conditioner stops operating when it detects that the room is unoccupied.

### Human sensor

This Cassette type air conditioner is equipped with a high performance DC fan motor, a turbo fan, and a louver to propel powerful airflows in all directions.

### Unique Circular Flow Design

- Ø7 mm high-density heat exchanger
- New DC fan motor
- High efficiency turbo fan
- Seamless airflow louver

### Uniform Temperature Air Conditioning

Achieve a comfortable air conditioning spread to every corner of the room thanks to the circular flow and wide vertical airflow.

### Comfortable Air Conditioning by Preventing Direct Blowing of Cold Air and Providing Swinging Airflow Simultaneously.

Provides efficient air conditioning based on the room layout.

### Energy Saving Operation by Detecting the Motion of a Person

The Human sensor contributes to further energy savings.

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

* UTY-425E7C Wired remote controller with touch panel and UTY-340E7C Central remote controller only

2 modes are available to choose from:

- **Auto economy mode**: The air conditioner stops operating when it detects that the room is unoccupied.
- **Auto stop mode**: The air conditioner stops operating when it detects that the room is unoccupied.

### Dimensions (Unit: mm)

- Indoor unit: 246 × 840 × 840
- Height difference: 0 m
- Voltage: 230 V
Cassette
Large type
Circular Flow

Unique circular flow design
This Cassette type air conditioner is equipped with a high performance DC fan motor, a turbo fan, and a louver to propel powerful airflows in all directions.

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

Individual louver control
Each louver can be set individually by the Touch panel wired remote controller so the user can enjoy the comfort of different directional airflows according to the room layout.
* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller only

The Human sensor contributes to further energy savings.
Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.
* UTY-RNY25 Wired remote controller with touch panel and UTY-DCGYZ3 Central remote controller only

Specifications
Model name | AUXK018GLEH | AUXK024GLEH | AUXK030GLEH | AUXK034GLEH | AUXK036GLEH | AUXK045GLEH | AUXK054GLEH
--- | --- | --- | --- | --- | --- | --- | ---
Capacity
Cooling kW | 5.6 | 7.1 | 9.0 | 10.0 | 11.2 | 12.5 | 14.0
Heating | 6.3 | 8.0 | 10.0 | 11.2 | 12.5 | 14.0 | 16.0
Input power W | 40 | 40 | 47 | 47 | 61 | 89 | 116
Airflow rate
High m³/h | 1,420 | 1,420 | 1,440 | 1,440 | 1,620 | 1,820 | 2,040
Med-High | 1,360 | 1,360 | 1,400 | 1,400 | 1,500 | 1,590 | 1,800
Med | 1,300 | 1,300 | 1,340 | 1,340 | 1,400 | 1,500 | 1,590
Med-Low | 1,270 | 1,270 | 1,300 | 1,300 | 1,340 | 1,400 | 1,440
Low | 1,200 | 1,200 | 1,280 | 1,280 | 1,280 | 1,300 | 1,300
Quiet | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 | 1,150
Sound pressure level
High dB(A) | 38 | 38 | 39 | 39 | 41 | 44 | 47
Med-High | 37 | 37 | 38 | 38 | 40 | 42 | 45
Med | 36 | 36 | 37 | 37 | 38 | 40 | 42
Med-Low | 35 | 35 | 36 | 36 | 37 | 38 | 39
Low | 34 | 34 | 35 | 35 | 36 | 36 | 36
Quiet | 33 | 33 | 33 | 33 | 33 | 33 | 33

Dimensions (H × W × D) mm
288 × 840 × 840
Weight kg
26.5 26.5 29.5 29.5 29.5 29.5 29.5
Connection pipe diameter
Liquid (Flare) mm
6.35 9.52 9.52 9.52 9.52 9.52 9.52
Gas (Flare) 12.70 15.88 15.88 15.88 15.88 15.88 15.88

Dimensions (Unit: mm)
View A
View B
View C

Optional parts
Human sensor Kit: UTY-LBHXD
Mode Panel: UTY-AXAX-W
Panel Finish: UTY-IXAX-W
Rear air intake kit: UTY-VAXA
Air outlet shutter plate: UTZ-1SCA
Insulation kit for high humidity: UTZ-10X1
Cassette grille: UTY-1SCAXA-W, UTY-1SCBXA-B
External power supply unit: UTZ-GXXA, UTZ-GXXC*
IR Receiver Unit: UTY-18F05
WLAN adapter: UTY-17NM6, UTY-17MS1-5S, AC-MF21
Silver Ion Filter: UTY-18F05
Remote sensor kit: UTY-18F05

* For more details, please refer to the chapter "Optional parts".
Cassette
One-way Flow type

Compact chassis size
The compact size allows easy installation in a variety of commercial facilities and environments.
- The height of the chassis is less than 200 mm for all models.
- All 4 to 12 kBTU models are less than 1,000 mm wide.
- The depth of the chassis is 570 mm, which fits nicely into a grid type ceiling.

Wide airflow range
A large flap with a wide range of movements, equipped with boxers arranged triangularly, sends air into every corner of the room.

Quiet mode
The low operating noise makes the model ideal for use in hotel rooms.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXV004GLEH</th>
<th>AUXV007GLEH</th>
<th>AUXV009GLEH</th>
<th>AUXV012GLEH</th>
<th>AUXV014GLEH</th>
<th>AUXV018GLEH</th>
<th>AUXV024GLEH</th>
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<td><strong>Model name</strong></td>
<td>AUXV004GLEH</td>
<td>AUXV007GLEH</td>
<td>AUXV009GLEH</td>
<td>AUXV012GLEH</td>
<td>AUXV014GLEH</td>
<td>AUXV018GLEH</td>
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<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Dimensions (H × W × D) mm</strong></td>
<td>198 × 785 × 570</td>
<td>198 × 785 × 570</td>
<td>198 × 785 × 570</td>
<td>198 × 785 × 570</td>
<td>198 × 1,190 × 570</td>
<td>198 × 1,190 × 570</td>
<td>198 × 1,190 × 570</td>
</tr>
<tr>
<td><strong>Weight kg</strong></td>
<td>18</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>26</td>
<td>26</td>
<td>27</td>
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</table>

Model: AUXV004GLEH / AUXV007GLEH / AUXV009GLEH / AUXV012GLEH / AUXV014GLEH / AUXV018GLEH / AUXV024GLEH
3D Flow Cassette

3 individually controlled air outlet ports
The Comfortable airflow setting enables the left and right air outlet ports as well as the central port to work together to provide a comfortable room environment.

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

Testing conditions: Model AUXS018GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in an 8m² experimental room.

Testing conditions: Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in an 8m² experimental room.

Individual airflow setting
The individual airflow setting function optimizes the airflow direction to match the room layout.

Individual control of air outlet ports
Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller. The airflow from each air outlet port can be set individually.

High energy saving
The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
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<th>Single phase</th>
<th>AUXS024GLEH</th>
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<tr>
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<td>Cooling</td>
<td>kW</td>
<td>5.60</td>
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<tr>
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<td>Heating</td>
<td>kW</td>
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<tr>
<td>Input power</td>
<td>W</td>
<td>20/28</td>
<td>34/43</td>
<td></td>
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<tr>
<td>Airflow rate*</td>
<td>High</td>
<td>m³/h</td>
<td>750/870</td>
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<tr>
<td></td>
<td>Med-High</td>
<td>m³/h</td>
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<td></td>
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<td>m³/h</td>
<td>690/780</td>
<td>860/930</td>
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<td></td>
<td>Med-Low</td>
<td>m³/h</td>
<td>660/740</td>
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<td></td>
<td>Low</td>
<td>m³/h</td>
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<td></td>
<td>Quiet</td>
<td>m³/h</td>
<td>540/540</td>
<td>540/540</td>
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<tr>
<td>Sound pressure level*</td>
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<td>dB(A)</td>
<td>38/41</td>
<td>43/46</td>
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<td>Med</td>
<td>dB(A)</td>
<td>35/39</td>
<td>41/43</td>
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<tr>
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<td>Med-Low</td>
<td>dB(A)</td>
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<td>40/42</td>
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<td>Low</td>
<td>dB(A)</td>
<td>33/36</td>
<td>38/40</td>
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<tr>
<td></td>
<td>Quiet</td>
<td>dB(A)</td>
<td>29/29</td>
<td>29/29</td>
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<td>200 x 1,240 x 500</td>
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<tr>
<td>Weight kg</td>
<td>25</td>
<td>25</td>
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<td></td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid (Flare)</td>
<td>mm</td>
<td>6.35</td>
<td>9.52</td>
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<td></td>
<td>Gas (Flare)</td>
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<td>12.70</td>
<td>15.88</td>
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<td>Drain Hose Diameter (I.D./O.D.)</td>
<td>mm</td>
<td>25/32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Individual airflow setting

The airflow is optimally directed to provide a comfortable room environment.

Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller. The airflow from each air outlet port can be set individually.

High energy saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.

3D Flow Cassette

3 individually controlled air outlet ports

The Comfortable airflow setting enables the left and right air outlet ports as well as the central port to work together to provide a comfortable room environment.

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

Testing conditions: Model AUXS018GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in an 8m² experimental room.

Testing conditions: Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in an 8m² experimental room.

Individual airflow setting

The individual airflow setting function optimizes the airflow direction to match the room layout.

Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller. The airflow from each air outlet port can be set individually.

High energy saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.

3D Flow Cassette

3 individually controlled air outlet ports

The Comfortable airflow setting enables the left and right air outlet ports as well as the central port to work together to provide a comfortable room environment.

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

Testing conditions: Model AUXS018GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in an 8m² experimental room.

Testing conditions: Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in an 8m² experimental room.

Individual airflow setting

The individual airflow setting function optimizes the airflow direction to match the room layout.

Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller. The airflow from each air outlet port can be set individually.

High energy saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.

3D Flow Cassette

3 individually controlled air outlet ports

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

Testing conditions: Model AUXS018GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in an 8m² experimental room.

Testing conditions: Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in an 8m² experimental room.

Individual airflow setting

The individual airflow setting function optimizes the airflow direction to match the room layout.

Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller. The airflow from each air outlet port can be set individually.

High energy saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.
Space saving design
- Fits into a space 198 mm high and 450 mm deep
- 30% smaller than previous-generation models
- Weighs 16 kg, 10% lighter

Optimum airflow path and low noise operation
The stabilized airflow reduces the noise level significantly.

6-speed control*
Multistep airflow adjustment allows installation in a quiet location.

Auto Louver Grille Kit (Optional)
The slim design of the unit provides comfortable cooling and heating air conditioning over a wide area.
The optional automatic louver grille, which fits neatly into any interior decor, provides comfortable air conditioning (Optional).

Easy to design and maintain for drain
Indoor unit design for easy maintenance. Parts can be replaced from the side of the unit for easy maintenance.
Slim design
Slim design allows for installation in a tight ceiling space.

Air intake
Air intake direction can be selected to match the installation site.

Flexible installation
Ceiling concealed
Floor concealed

Wide range of static pressures
The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa.
The static pressure range can be changed by a remote controller.

Filter (Accessory)
ARXD04GALH / ARXD007GLEH / ARXD009GLEH / ARXD012GLEH / ARXD014GLEH / ARXD018GLEH / ARXD024GLEH

Optional parts
Remote sensor unit: UTY-KZ(E)R
Wireless unit: UTY-BR6 (04), UTY-BR8 (06), UTY-BR9 (07-24)
IR AR adapter: UTY-FIS24 (07-24), FG-BR9W24 (24)
UAW adapter: UTY-FIS24 (07-24), FG-BR9W24 (24)
Silver ion filter: UTY-MAF, UTY-MAT (14-24)

Dimensions
ARXD04GALH / ARXD007GLEH / ARXD009GLEH / ARXD012GLEH / ARXD014GLEH / ARXD018GLEH / ARXD024GLEH

Notes:
- Specifications are subject to the following conditions:
  - Cooling: Indoor temperature of 27°C (DB)/19°C (WB), and outdoor temperature of 35°C (DB)/24°C (WB).
  - Heating: Indoor temperature of 20°C (DB)/(15°C (WB)), and outdoor temperature of 7°C (DB)/6°C (WB).
  - Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 V.
  - *1: This value is under cooling operation.
  - *: ARXD04GALH cannot be connected to J-IVS/J-IV/J-IVL/VR-IV Series.

For more details, please refer to the chapter "Optional parts."
Low Static Pressure Duct
High Efficiency

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

Easy maintenance
Structural improvement has been developed by making the bottom panel in two pieces, front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. The motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing with the main chassis remaining in place.

Installation styles
Embedded in Ceiling
Hanging From Ceiling

High-efficiency DC fan motor achieves low-energy consumption.
Improved motor efficiency from previous model.

Wide range of static pressures
Static pressures can be changed in the range of 0 to 150 Pa.

See below for rear suction type

Optional parts
*For more details, please refer to the chapter “Optional parts.”

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

Dimensions

Model: ARXP018GLFH / ARXP030GLFH  * Production by order

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXP018GLFH</th>
<th>Single-phase</th>
<th>ARXP030GLFH</th>
</tr>
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<tbody>
<tr>
<td>Nominal capacity</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Cooling</td>
<td>5.6</td>
<td>9.0</td>
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<tr>
<td>Heating</td>
<td>6.3</td>
<td>10.0</td>
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<tr>
<td>Input power</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>Cooling</td>
<td>128</td>
<td>228</td>
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<tr>
<td>Heating</td>
<td>360</td>
<td>550</td>
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<tr>
<td>Airflow rate</td>
<td>m3/h</td>
<td>m3/h</td>
<td>m3/h</td>
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<tr>
<td>High</td>
<td>1,540</td>
<td>1,440</td>
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<tr>
<td>Med-High</td>
<td>1,460</td>
<td>1,380</td>
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<td>Med</td>
<td>1,380</td>
<td>1,320</td>
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<td>Med-Low</td>
<td>1,300</td>
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<td>1,150</td>
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<td>Pa</td>
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<td>0 to 80</td>
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<td>Pa</td>
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<td>50</td>
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<td>Sound pressure level</td>
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<td>39 / 36</td>
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<tr>
<td>High</td>
<td>35 / 34</td>
<td>39 / 36</td>
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<tr>
<td>Med-High</td>
<td>34 / 32</td>
<td>38 / 35</td>
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<tr>
<td>Med</td>
<td>32 / 31</td>
<td>36 / 34</td>
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</tr>
<tr>
<td>Med-Low</td>
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<td>34 / 33</td>
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<tr>
<td>Low</td>
<td>29 / 29</td>
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</tr>
<tr>
<td>Quiet</td>
<td>28 / 28</td>
<td>30 / 30</td>
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<td>270 × 1,135 × 700</td>
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<td>Weight</td>
<td>kg</td>
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<td>kg</td>
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<td>Connection pipe diameter</td>
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<tr>
<td>Liquid (Flare)</td>
<td>mm</td>
<td>6.35</td>
<td>9.52</td>
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<tr>
<td>Gas (Flare)</td>
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<td>12.70</td>
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<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
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<td>25/32</td>
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Note: Specifications are subject to the following conditions:

For more details, please refer to the chapter “Optional parts.”

Optimal parts

<table>
<thead>
<tr>
<th>Optional part</th>
<th>UTD-LF25A</th>
<th>UTD-SF045T</th>
<th>UTD-RF204</th>
<th>UTY-XSZXZ1</th>
<th>UTY-TRHX</th>
<th>UTD-PX1NBA</th>
<th>UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1</th>
<th>UTD-HFND</th>
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</thead>
<tbody>
<tr>
<td>Long-life filter</td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>Flange (square)</td>
<td>UTD-SF050T</td>
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<tr>
<td>Flange (round)</td>
<td>UTD-SF024</td>
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<tr>
<td>External power supply unit</td>
<td>UTD-80845, UTD-8G4XM3</td>
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<td></td>
<td></td>
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<tr>
<td>Remote sensor unit</td>
<td>UTY-TRHZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IR receiver unit</td>
<td>UTY-TRHZ</td>
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<td></td>
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<td></td>
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<tr>
<td>Drain pump unit</td>
<td>UTD-PR30A</td>
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<tr>
<td>Mains adapter</td>
<td>UTY-73501, UTY-73503, FG-AC-WIF121</td>
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<tr>
<td>Silver Ion Filter</td>
<td>UTD-8G2507</td>
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</tbody>
</table>

*The design of the service access depends on the installation method. Refer to the installation manual for more information.
**Medium Static Pressure Duct**

**Normal**

**Slim & Compact design**

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

**Easy maintenance**

Structural improvement has been developed by making the bottom panel in two pieces, front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. The motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing with the main chassis remaining in place.

**Installation styles**

- Embedded in Ceiling
- Hanging from Ceiling

**A drain pipe can be installed on either the left or right side of the unit**

**High-efficiency DC fan motor achieves low-energy consumption.**

Improved motor efficiency from previous model.

**Wide range of static pressures**

Static pressures can be changed in the range of 0 to 150 Pa.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXA024GLEH</th>
<th>ARXA030GLEH</th>
<th>ARXA036GLEH</th>
<th>ARXA045GLEH</th>
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</thead>
<tbody>
<tr>
<td>Capacity Cooling kW</td>
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<td>9.0</td>
<td>11.2</td>
<td>12.5</td>
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<td>Heating</td>
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<td>10.0</td>
<td>12.5</td>
<td>14.0</td>
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<td>Input power W</td>
<td>94</td>
<td>108</td>
<td>194</td>
<td>240</td>
</tr>
<tr>
<td>Airflow rate</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>1,280</td>
<td>1,410</td>
<td>1,840</td>
<td>1,970</td>
</tr>
<tr>
<td>Med-High</td>
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<td>1,750</td>
<td>1,910</td>
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<tr>
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<td>1,090</td>
<td>1,280</td>
<td>1,660</td>
<td>1,860</td>
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<td>Med-Low</td>
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<td>1,240</td>
<td>1,600</td>
<td>1,780</td>
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<td>1,190</td>
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<td>1,470</td>
<td>1,640</td>
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<td>Static pressure range Pa</td>
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<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>
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<td>60</td>
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<tr>
<td>Sound pressure level</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>High</td>
<td>31</td>
<td>34</td>
<td>37</td>
<td>41</td>
</tr>
<tr>
<td>Med-High</td>
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<td>33</td>
<td>36</td>
<td>40</td>
</tr>
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<td>Med</td>
<td>27</td>
<td>32</td>
<td>35</td>
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<td>Med-Low</td>
<td>26</td>
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<tr>
<td>Low</td>
<td>24</td>
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<td>37</td>
</tr>
<tr>
<td>Quiet</td>
<td>23</td>
<td>29</td>
<td>33</td>
<td>36</td>
</tr>
<tr>
<td>Net 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>
</tr>
<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></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquid (Flare) mm</td>
<td>9.52</td>
<td>9.52</td>
<td>9.52</td>
<td>9.52</td>
</tr>
<tr>
<td>Gas (Flare)</td>
<td>15.88</td>
<td>15.88</td>
<td>15.88</td>
<td>15.88</td>
</tr>
</tbody>
</table>

**Optional parts**

- Long-life filter:
- Flange (square):
- Flange (round):
- External power supply unit:
- Remote sensor unit:
- IR receiver unit:
- Drain pump unit:
- WLAN adapter:
- Silver Ion Filter:

**Dimensions**

- **Air inlet**
- **Gas pipe**
- **Liquid pipe**
- **Drain port**

*For more details, please refer to the chapter “Optional parts.”

---

**Note:** Specifications are subject to 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.

*The design of the service access depends on the installation method. Refer to the installation manual for more information.*
Static pressure mode selection

The use of a DC fan motor makes it possible to adjust the static pressure between 0 to 200 Pa (ARXC036/045/060 type) / 300 Pa (ARXC072/090/096 type).

Easy installation (Compact & Lightweight)

The indoor unit is designed to be compact and light by reducing the basic chassis size and the overall compact and light by reducing the material weight.

Low noise

Models: ARXC036/045/060GTEH

The corners of the front panel and fan casing of the indoor unit are shaved to reduce air turbulence. The use of a plastic casing and fan reduces the noise level generated by the unit.

High-efficiency DC fan motor achieves low energy consumption.

Improved motor efficiency compared to the previous model.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXC036GTEH</th>
<th>ARXC045GTEH</th>
<th>ARXC060GTEH</th>
<th>ARXC072GTEH</th>
<th>ARXC090GTEH</th>
<th>ARXC096GTEH</th>
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<tr>
<td>Height</td>
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<td>1,700</td>
<td>1,740</td>
<td>1,687</td>
<td>1,990</td>
<td>2,050</td>
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<tr>
<td>Width</td>
<td>700</td>
<td>700</td>
<td>700</td>
<td>700</td>
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Note: Specifications are based on the following conditions:

- Heating: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚CWB.
- Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
- Voltage: 230 [V]
- Power source: Single phase

Dimensions

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXC036/045/060</th>
<th>ARXC072/090/096</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm)</td>
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<tr>
<td>Width (mm)</td>
<td>560</td>
<td>560</td>
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<tr>
<td>Depth (mm)</td>
<td>300</td>
<td>300</td>
</tr>
</tbody>
</table>

Optional parts

- For more details, please refer to the chapter "Optional parts".

- Long Air filter: UTD-U1010CA / UTD-U1210CA
- Silver ion Filter: UTD-MS10S
- Silver ion filter: UTD-MS10S
- Remote sensor unit: UTY-XZ1, UTY-XZ2, FG-AC-WIF1Z1
- Silver ion Filter: UTD-MS10S
- Remote sensor unit: UTY-XZ1
- Silver ion Filter: UTD-MS10S
- Remote sensor unit: UTY-XZ1

- The design of the service access depends on the installation method. Refer to the installation manual for more information.

- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
2-fan and wide airflow
A 2-fan individual vertical airflow cools or warms the entire room comfortably.

Flexible and easy installation
The compact and whole-surface suction design provides flexible installation options, including floor-standing, embedded, partially embedded, and wall-mounted installation to match the room layout.

Quiet operation
6-fan speed control for quiet operation (via 2-wire controller)

Flexible pipe connection enables draining and piping in 6 directions
The drain hose and pipe can be connected to the unit in the right, left, straight in depth, or downward direction.

---

Optional parts
"For more details, please refer to the chapter "Optional parts."

Partially concealed kit: UTR-STA
External power supply unit: UZT-GXXX, UYT-GXXX*
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
Silver ion filter: UTR-FA03-5

---

Dimensions
Unit: mm

---

Compact floor

---

2-fan wide airflow

---

Flexible and easy installation

---

Quiet operation

---

Flexible pipe connection enables draining and piping in 6 directions

---

Specifications

---

Model: AGYA004GCGH / AGYA007GCGH / AGYA009GCGH
AGYA012GCGH / AGYA014GCGH
AGYE004GCEH / AGYE007GCEH / AGYE009GCEH
AGYE012GCEH / AGYE014GCEH

---

Model name
AGYA004GCGH AGYA007GCGH AGYA009GCGH AGYA012GCGH AGYA014GCGH AGYE004GCEH AGYE007GCEH AGYE009GCEH AGYE012GCEH AGYE014GCEH

---

Power source
Single phase, ~230 V, 50 Hz

---

Capacity
Cooling kW 1.1 2.2 2.8 3.6 4.0 1.1 2.2 2.8 3.6 4.0
Heating 1.3 2.8 3.2 4.0 4.5 1.3 2.8 3.2 4.0 4.5

---

Input power W 12/14 16 17 22 29 14 16 17 22 29

---

Airflow rate
High m3/h 380/430 470 500 590 670 380/430 470 500 590 670
Med-High 350 420 450 520 590 350 420 450 520 590
Med 320 390 400 470 520 320 390 400 470 520
Med-Low 310 360 360 420 450 310 360 360 420 450
Low 280 330 330 390 390 280 330 330 390 390
Quiet 210 270 270 340 340 210 270 270 340 340

---

Sound pressure level
High dB(A) 35/36 37 38 42 46 35/36 37 38 42 46
Med-High 33 35 36 39 42 33 35 36 39 42
Med 31 33 34 37 39 31 33 34 37 39
Med-Low 30 31 31 35 36 30 31 31 35 36
Low 28 29 29 33 33 28 29 29 33 33
Quiet 22 22 22 30 30 22 22 22 30 30

---

Net Dimensions (H × W × D) mm 600 × 740 × 200 600 × 740 × 200

---

Weight kg 15.0 15.0 15.0 15.0 15.0 14.5 14.5 14.5 14.5 14.5

---

Connection pipe diameter
Liquid (Flare) 6.35 6.35 6.35 6.35 6.35 6.35 6.35 6.35 6.35 6.35
Gas (Flare) 9.52 9.52 9.52 12.70 12.70 9.52 9.52 9.52 12.70 12.70

---

Drain Hose Diameter (I.D./O.D.) 13.8/15.8 to 16.7 13.8/15.8 to 16.7

---

EV kit (optional) - UTR-EV09XB UTR-EV14XB

Note: Specifications are subject to 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 connecting AGYA004/007/009GCGH, AGYE004/007/009GCEH to an outdoor unit other than an outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.
Floor/Ceiling

Flexible installation

Example of floor standing installation
Floor standing console with the back against the wall

Example of ceiling installation
Under ceiling

Double auto swing

The combination of horizontal and vertical swings enables 3-dimensional control of the airflow direction.

High-power DC fan motor

- High power
- Wide rotation range
- High efficiency

Compact design

Symmetrical, slim and compact design.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>ABYA012GTEH</th>
<th>ABYA014GTEH</th>
<th>ABYA018GTEH</th>
<th>ABYA024GTEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>ABYA012GTEH</td>
<td>ABYA014GTEH</td>
<td>ABYA018GTEH</td>
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<td>780</td>
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<td>620</td>
<td>740</td>
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<td>930</td>
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<td>Med</td>
<td>580</td>
<td>690</td>
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<td>800</td>
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<td>Low</td>
<td>520</td>
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<td>660</td>
<td>740</td>
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<tr>
<td>Quiet</td>
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<td>550</td>
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<tr>
<td>Low</td>
<td>29</td>
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<td>37</td>
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<td>Silent</td>
<td>28</td>
<td>34</td>
<td>35</td>
<td>37</td>
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<tr>
<td>Net Dimensions (H × W × D) mm</td>
<td>199 × 990 × 655</td>
<td>199 × 990 × 655</td>
<td>199 × 990 × 655</td>
<td>199 × 990 × 655</td>
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<td>Weight kg</td>
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<td>Connection pipe diameter mm</td>
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<tr>
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<td>6.35</td>
<td>6.35</td>
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<tr>
<td>Gas (Flare)</td>
<td>12.70</td>
<td>12.70</td>
<td>12.70</td>
<td>15.88</td>
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<tr>
<td>Drain hose Diameter (I.D./O.D.) mm</td>
<td>25/32</td>
<td>25/32</td>
<td>25/32</td>
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Note: Specifications are subject to 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]

Optional parts

- External power supply unit: UZU-GXXA, UZU-GXXC
- WLAN adapter: UTZ-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1

*For more details, please refer to the chapter "Optional parts".

Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>ABYA012GTEH</th>
<th>ABYA014GTEH</th>
<th>ABYA018GTEH</th>
<th>ABYA024GTEH</th>
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<tbody>
<tr>
<td>Liquid pipe</td>
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<td>Gas pipe</td>
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<td></td>
<td></td>
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<tr>
<td>Pipe port</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Hole (Drain hose)</td>
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<tr>
<td>600</td>
<td>56</td>
<td>86</td>
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<tr>
<td>900</td>
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<td></td>
</tr>
<tr>
<td>742</td>
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<td></td>
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</tr>
<tr>
<td>900</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Ceiling

Installation

Open
- General installation with indoor unit installed on the ceiling

Concealed
- Wall-mounting brackets are used to mount the indoor unit on the wall. (Locally available)
- This type of installation is used when the ceiling space is insufficient.

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

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

Fresh air intake

Long airflow
- Long airflow provides comfort in every corner of a large room.

Slim & Compact design

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ABYA030GTEH</th>
<th>ABYA036GTEH</th>
<th>ABYA045GTEH</th>
<th>ABYA054GTEH</th>
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<td>Cooling kW</td>
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<td>Heating</td>
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<td>14.0</td>
<td>16.0</td>
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<td>W</td>
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<td>85</td>
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</tr>
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<td>1,560</td>
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</tr>
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<td>Med</td>
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</tr>
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</tr>
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<td></td>
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<tr>
<td></td>
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<td>41</td>
<td>46</td>
</tr>
<tr>
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<td>Med</td>
<td>39</td>
<td>39</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>Med-Low</td>
<td>37</td>
<td>38</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>35</td>
<td>36</td>
<td>38</td>
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<tr>
<td></td>
<td>Quiet</td>
<td>33</td>
<td>34</td>
<td>35</td>
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<tr>
<td>Net Dimensions (H × W × D)</td>
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<td>240 × 1,660 × 700</td>
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<tr>
<td>Connection pipe diameter</td>
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<td>Liquid (Flare)</td>
<td>9.52</td>
<td>9.52</td>
</tr>
<tr>
<td></td>
<td>Gas (Flare)</td>
<td>15.88</td>
<td>15.88</td>
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</tr>
</tbody>
</table>

Note: Specifications are subject to 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].
Wall-mounted type

Highly-efficient, compact design
The 004-014 models share the same design. The high-density and large heat exchanger achieves a highly-efficient and compact design. The compact body blends in well with conference rooms and offices, providing comfortable air conditioning.

More comfortable airflow
The unique power diffuser provides comfortable air conditioning.

Power diffuser
High-density heat exchanger

Highly-efficient, compact design

The airflow pattern achieves significant noise reduction. Multistep airflow adjustment to suit the environment.

Quiet operation & 6-Step fan speed control

The airflow pattern achieves significant noise reduction. Multistep airflow adjustment to suit the environment.

The Human sensor contributes to further energy savings.
Energy-saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

*If you want to use the Human sensor control function, you need an setting device that can select the Human sensor control function. For example: Wired RC (touch panel).
**Powerful & Comfort airflow**

**Powerful Airflow**

ASYA030GTEH

**Power diffuser**

ASYA18/24GBCH

**Airflow**

20% up!

The Human sensor contributes to further energy savings. (ASYA030/034GTEH only)

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

*If you want to use the Human sensor control’ function, you need an setting device that can set the Human sensor control function. For example: Wired RC (Touch panel).*

### 6-step fan speed control for quiet operation

The airflow pattern achieves significant noise reduction. A 6-step sound level setting allows for multi-step silent operations.

#### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ASYA18GBCH</th>
<th>ASYA24GBCH</th>
<th>ASYA030GTEH</th>
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<td>-</td>
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<td>Sound pressure level</td>
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</tr>
<tr>
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<td>Quiet</td>
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<td>-</td>
<td>33</td>
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<tr>
<td>Net Dimensions (H × W × D) mm</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>320 × 998 × 238</td>
<td>320 × 998 × 238</td>
<td>340 × 1,150 × 280</td>
<td>340 × 1,150 × 280</td>
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<td>Connection pipe diameter (mm)</td>
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</tr>
<tr>
<td>Liquid (Flare)</td>
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<td>9.52</td>
<td>9.52</td>
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<tr>
<td>Gas (Flare)</td>
<td>12.70</td>
<td>15.88</td>
<td>15.88</td>
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</table>

Note: Specifications are subject to 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 connecting ASYA18GBCH to an outdoor unit other than the outdoor unit of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

### Optional parts

- External power supply unit: UTZ-GXXA (030/034), UTZ-GXXC* (030/034)
- WLAN adapter: UTY-TFSXJ3 (030/034), UTY-TFSXZ1 (030/034)
- Silver Ion Filter: FG-RC-WIF1Z1 (18/24), FG-AC-WIF1Z1 (030/034)

*For more details, please refer to the chapter “Optional parts”.

### Dimensions

#### Models:

- ASYA030 / ASYA034
  - Control box: 238 × 998 × 280
  - Drain hose: 617
  - Gas pipe: 566
  - Liquid pipe: 513

- Models: ASYA18 / ASYA24
  - Control box: 238 × 998 × 280
  - Drain hose: 619
  - Gas pipe: 568
  - Liquid pipe: 514
### VENTILATION Lineup

| Vn-002  | Energy Recovery Ventilator
| Vn-004  | DX kit for Air handling applications
|         | • for VRF Outdoor unit
| Vn-006  | DX kit for Air handling applications
|         | • for Single Split Outdoor Units

### Lineup

<table>
<thead>
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<th>Airflow rate (m³/h)</th>
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<th>350</th>
<th>500</th>
<th>800</th>
<th>1000</th>
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<td>UTZ-BD100C</td>
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<table>
<thead>
<tr>
<th>Connectable capacity class (kW)</th>
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<th>3.0</th>
<th>6.0</th>
<th>8.0</th>
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<th>12.5</th>
<th>15.0</th>
<th>20.0</th>
<th>25.0</th>
<th>40.0</th>
<th>50.0</th>
</tr>
</thead>
</table>
| **DX kit**
| for Air handling applications
| for VRF Outdoor unit |     |     |     |     |      |      |      |      |      |      |      |
| EV unit | UTZ-XX010A | Control unit | UTY-VDGX | | | | | | | | |
| EV unit | UTZ-XX015A | Control unit | UTY-VDGX | | | | | | | | |
| EV unit | UTZ-XX030A | Control unit | UTY-VDGX | | | | | | | | |
| EV unit | UTZ-XX040A | Control unit | UTY-VDGX | | | | | | | | |
| EV unit | UTZ-XX060A | Control unit | UTY-VDGX | | | | | | | | |

<table>
<thead>
<tr>
<th>Connectable capacity class (kW)</th>
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<th>22.0</th>
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</table>
| **DX kit**
| for Air handling applications
| for Single Split Outdoor Units |     |      |
| UTY-XX020 | | |

Efficient heat exchange combined with fresh ventilation

The use of a high-efficiency heat-exchanging process achieves outstanding energy efficiency and quiet operation. The heat-exchanging mode or the normal ventilation mode can be appropriately selected according to the air-conditioning requirements of the space to create a comfortable air-conditioned space.

Residential, Commercial & Light Commercial VENTILATION
### Energy Recovery Ventilator

The energy recovery ventilator unit provides energy efficiency for comfort and improved savings.

### Heat exchange ventilation and normal ventilation

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

#### Normal ventilation
Used when the indoor space does not require cooling or heating, i.e., when there is little temperature difference between the indoor and outdoor environments.

### Energy efficiency and ecology
The use of a counter-flow heat-exchanging element, designed to recover up to 77% of heat from the outgoing air, significantly reduces energy consumption. The air conditioning load is reduced by approximately 20%, which results in substantial savings in energy cost.

### Comparison of heat-exchanging elements
Air flows in a straight line through a crossflow element. In contrast, air flows for a longer time (a longer distance) through a counter-flow element to achieve more consistent heat exchanging performance.

### Quiet operation
Significantly lower noise levels are achieved by reducing pressure loss.

### Extended range of external static pressure
The use of a powerful fan motor improves the external static pressure. This allows it to be installed in a variety of buildings.

### Slim design for easier installation
The use of a counter-flow heat-exchanging element made it possible to design a quieter, slimmer unit.

### Reverse-mountable direct air supply and exhaust system
Simplifies the duct design, due to its straight ducts for air supply and exhaust. Since each unit can be mounted facing opposite directions, only one inspection hole is needed for two units. This makes duct work easier and more flexible.

#### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Ratings</th>
<th>Input Power (W)</th>
<th>External Static Pressure (Pa)</th>
<th>Airflow Rate (m³/h)</th>
<th>Temperature Exchange Efficiency %</th>
<th>Sound Pressure Level (dB)</th>
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<tbody>
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<td>UTZ-BD025C</td>
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<td>105</td>
<td>250</td>
<td>63</td>
<td>31.5</td>
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<td>UTZ-BD035C</td>
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<td>190</td>
<td>95</td>
<td>350</td>
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<tr>
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<td>289</td>
<td>95</td>
<td>500</td>
<td>62</td>
<td>33.0</td>
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<tr>
<td>UTZ-BD080C</td>
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<td>418</td>
<td>110</td>
<td>800</td>
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<td>38.5</td>
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<tr>
<td>UTZ-BD100C</td>
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<td>464</td>
<td>110</td>
<td>1000</td>
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#### Dimensions

<table>
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<tr>
<th>Model</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Model Name</th>
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<td>580</td>
<td>640</td>
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<td>UTZ-BD035C</td>
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<td>UTZ-BD100C</td>
<td>388</td>
<td>580</td>
<td>640</td>
<td>UTZ-BD100C</td>
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</tbody>
</table>

### Simple remote operation
Easy operation with connected liquid crystal switch

- Power On/Off
- Air volume High/Low
- On/Off Timer
- Clean filter display
- Heat exchange ventilation and normal ventilation

### Model: UTZ-BD025C/UTZ-BD035C/UTZ-BD050C/UTZ-BD080C/UTZ-BD100C

#### Easy operation with connected liquid crystal switch

- Reverse-mountable direct air supply and exhaust

#### Simple remote operation

- Power On/Off
- Air volume High/Low
- On/Off Timer
- Clean filter display
- Heat exchange ventilation and normal ventilation
Multiple temperature sensors optimally control an Air handling unit and a fan coil unit.

Supports a wide range of capacity classes
- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube required)

A variety of control options that meet application requirements

CENTRAL CONTROL

A control unit (IP54 class) and an EEV unit can be installed outdoors.

Pipe and wire length
- Max. pipe length: 5 m
- Max. wire length: 15 m

Optional separation tube to connect two EEV units: UTP-LX180A

Control unit: UTY-VDGX
EEV unit: UTP-VX30A/UTP-VX60A/UTP-VX90A

Pipe length: 7.5 m    Voltage: 230 [V].
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.

Connectable capacity
- Single connection
- Wood connection

Connectable capacity range: 5 kW to 50 kW
- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube required)
- Connectable EEV unit systems with indoor units: 30% of capacity
- Connectable EEV unit systems with outdoor units: 50 to 100% of capacity

Central control enabled by our VRF controllers or central management controllers

External I/O Third-party control unit

Central I/O

Connectable capacity
- Connectable VRF Series: All VRF Series
- Capacity range of connectable DX kit systems with indoor units: 30% of capacity
- Capacity range of connectable DX kit systems with outdoor units: 50 to 100% of capacity
- Max. wire length from a control unit: 10 m
- Max. pipe length between EEV unit and indoor unit: 5 m
- A control unit (IP54 class) and an EEV unit can be installed outdoors.

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    Voltage: 230 [V].
With this kit, other manufacturers’ Air handling units (AHUs) and fan coil units (FCUs) can be incorporated into Fujitsu General Split outdoor units.

Flexible connectivity
This kit allows connections to third-party equipment. This control unit can also be used in conjunction with Fujitsu General single-split outdoor units, providing a perfect solution when a stand-alone Air handling unit is needed.

Supports a wide range of capacity classes
Capable of connecting large capacities in the range of 2.5 kW to 22.0 kW (Nominal)

Mobile devices allow for operation from anywhere
Can be operated and managed remotely using your smartphone or tablet.

Summary of functions
<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
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</thead>
<tbody>
<tr>
<td>• On/Off</td>
<td>• Status of Compressor, Defrost, and Errors (Potential free relays)</td>
</tr>
<tr>
<td>• Heating/Cooling operation modes</td>
<td>• Status indicator with LED</td>
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<tr>
<td>• Capacity demand (analogue 0 to 10 V)</td>
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<tr>
<td>• Heat exchanger temperature</td>
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</tbody>
</table>

Easy installation
• Compact DIN rail mountable enclosure for easy installation
• No expansion devise required
• No separate external power supply required

Wireless LAN Control
Wireless LAN control through cloud connectivity enables secure remote monitoring and control from anywhere.

Model: UTY-XDZX

Specifications

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<thead>
<tr>
<th>Model name</th>
<th>DX kit</th>
<th>DX kit</th>
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<tr>
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<td>Outdoor unit</td>
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<td>Air handling</td>
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</table>

Note: Specifications are based on the following conditions.
Cleaning: 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: 5.0 m. Voltage: 230 [V].
A wide product lineup to meet a variety of needs
We can flexibly meet customer needs through a variety of offerings including wired and wireless individual remote controllers, central remote controllers that simultaneously control multiple indoor units, and a variety of converters that link with other systems.
Control System Overview
for Split & Multi-split

All indoor units* are equipped with a wireless or wired remote controller as standard. Additional options are available, such as individual remote controllers and central remote controllers. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.

* Except for some products

Air Conditioning

Individual control

Wired remote controller
A built-in thermo sensor monitors and controls room temperature accurately.

Wireless remote controller
Simple and versatile operations with a choice of 4 different types of timers

Simple remote controller
Compact remote controller with basic functionality

For Cassette type
IR receiver unit
This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.

For Duct type
IR receiver unit

For Ceiling type

Centralized control

Home central remote controller
for 5 & 6-unit Multi-split type
Enables individual and central control

Online Control (Wireless Control via Smartphone/Tablet)

With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.

WLAN adapter
The dedicated WLAN adapter enables the air conditioner to be operated by smartphone or tablet computer.

Simple, user-friendly interface design
The designed screen display makes it easier than ever to operate.

Converters/Adapters
For external control via BMS/Home Automation Systems

MODBUS® converter
for indoor units
UTY-VMSX

MODBUS® interface
for indoor units

KNX® converter
for indoor units
UTY-VKESX

KNX® interface
for indoor units

WLAN adapter

Network converter
DC power supply type
UTY-VTGK

AC power supply type
UTY-VTGKV

Air Conditioning

Centralized control

Home central remote controller
for 5 & 6-unit Multi-split type
Enables individual and central control

For Split & Multi-split
To meet the diverse needs of customers, we offer a variety of control options for our VRF systems, such as individual control, centralized control, and building management system (BMS) options.

**Air Conditioning Individual control**

- Wired remote controller (Design type) UTY-IRBY
- Wired remote controller (with touch panel) UTY-KSYZ
- Wired remote controller UTY-BRY
- Compact wired remote controller UTY-RCRY
- Simple remote controller UTY-IRBY UTY-IRHY
- Without operation mode
- Wireless Remote Controller UTY-LNHY
- IR receiver unit
  - For Duct type UTY-YWC
  - For One-way flow cassette Series UTY-THX
  - For Circular flow cassette Series UTY-LBH

**Air Conditioning Centralized control**

- System controller
  - Software
  - For Individual control
    - Central remote controller UTY-DG4Z1
  - System controller (Lite version) UTY-AP4Z1/UTY-AL4Z1
  - USB adapter*1 (Locally available)
  - Internet or landline
  - Maximum 400 indoor units

- Central remote controller UTY-DG4Z1
  - Up to 100 indoor units

**Conversors/Adapters**

- BACnet® gateway UTY-ARGXZ1
- BACnet® interface for Indoor units UTY-IRBM1Z1
- Network converter (for LONWORKS™) UTY-ILGX
- MODBUS® converter for indoor units UTY-VMGX
  - UTY-VMG
  - UTY-VXG
  - UTY-VHG
  - UTY-VXG
  - UTY-VXG
- WLAN adapter UTY-TFSGX1 / UTY-TFSGZ1
  - External switch controller UTY-TXG

**Conversors/Adapters for system expansion**

- Network converter DC power supply type UTY-VGDX
- Network converter AC power supply type UTY-VGDX
  - Single split
- Signal amplifier UTY-VG5Z1

**For Duct type**

- For One-way flow cassette Series UTY-THX
  - For Circular flow cassette Series UTY-LBH

**Building Management System (BMS)**

*3: BMS/BAS: Building Management System/Building Automation System

**For system expansion**

- Network converter UTY-VGDX
- Signal amplifier UTY-VG5Z1

**Card-key**

- Single split

**Internet device**

- BMS, Home automation system

**Card-key**

- BMS/BAS

**For One-way flow cassette Series**

- For Circular flow cassette Series
Best control solution for each building structure

Fujitsu General provides the best control solutions suitable for various building structures.

### HOTEL

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual control</th>
<th>Centralized control</th>
<th>Integrating control (Interface)</th>
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<thead>
<tr>
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<th>Central remote controller</th>
<th>Touch panel controller</th>
<th>System controllers</th>
<th>Network controller for Building Management</th>
<th>MODBUS® connection</th>
<th>KNX® connection</th>
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<tbody>
<tr>
<td>Local control for head guests</td>
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<tr>
<td>Controls linked to staff</td>
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<tr>
<td>Remote controller prohibition</td>
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<tr>
<td>Controls with door contact</td>
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<td>Controls with interlock</td>
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### OFFICE

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<th>System controllers</th>
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<tr>
<td>Controls linked to staff</td>
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<td>Controls with door contact</td>
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### SHOP

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<th>Mixed remote controller</th>
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### General

- **Automatic control of air conditioning (Schedule timer, Weekly operation, etc.)**
- **Controls linked to staff**
- **Remote controller prohibition**
- **Controls with door contact**
- **Integrate Fujitsu General air conditioning into BMS**
- **Remote controller prohibition, control for management**
## Comparison table of controllers

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</tbody>
</table>

### Items

- **Displayed items**
  - **Air conditioning control functions**
    - Individual louver control
    - Horizontal louver setting
    - Vertical louver setting
    - Human sensor control
    - Defrosting
    - Anti-freeze setting
    - Refrigerant Cycle Monitor
    - Energy-saving management
    - Remote monitoring management system
    - Emergency stop
    - Minimum unit of timer setting (minutes)
    - Day off
    - Auto-off timer
    - Logo Display
    - Room temperature setting
    - Error history
    - Setting temperature range limitation
    - Operation mode setting
    - ON/OFF timer
    - Current time
    - Day of week
    - Limited Visibility of Settings
    - Error
    - ON/OFF
    - E-mail notification in case of failure
    - Test operation
    - Refrigerant leak detector
    - Group setting
    - Key lock
    - Password setting
    - Software setting
    - System controller
    - Central remote controller
    - Wired remote controller
    - Password setting
    - Wired remote controller
    - Central remote controller
    - Central remote controller
    - Simple Remote Controller
    - Password setting
    - Wired remote controller
    - Central remote controller
    - Simple Remote Controller
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    - Password setting
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    - Central remote controller
    - Simple Remote Control...
Simple and stylish design that harmonizes with the space

- The new stylish design controller, UTY-RVRY, enables intuitive operation with touch screen. It is compatible with many 2-wired indoor units.

Harmonizes with the Installation Space

When not in use, the controller is a part of the interior décor. This is achieved by using mirrors, glass, and clear panels, and it appears to be one with the wall. The sleek and stylish design won the 2023 Good Design Award and was selected as a finalist for the 2023 IDEA award.

Intuitive operation

The touch screen is easily operated by swiping vertically and horizontally, and users can operate the controller without using manuals.

Status LED Colors

When not in use, the operation mode is indicated through LED lamp colors shown under the controller. The LED lamp can be switched ON and OFF to avoid glare at night.

Features: Wired Remote Controller (Design type)

Refrigerant cycle monitor

The controller will display specific sensor values of outdoor and indoor units for maintenance and service support.

* Display screen example
* The function is only supported by split units, using the Serial communication protocol. Example: ACHR34XNTB.

Logo Display

The controller can display hotel logos when not in use. Images are sent via Bluetooth® connection where data is saved in the flash memory built into each controller.

* Color display available

AIRSTAGE Remo Set application (free download)

Set up your new Wired Remote Controller via Bluetooth from your smartphone (or directly at the controller).

Features:
- Initial configuration
- Function setting
- Custom logo import
- Copy settings between controllers

Initial Settings / Indoor Unit Function

The initial controller settings and indoor unit function settings can be sent from a smartphone by pairing with the controller via Bluetooth. It also can read the setting values of a paired controller, and send a copy of them to one or more additional controllers, significantly reducing installation time.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>UTY-RVRY</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>225</td>
<td></td>
</tr>
<tr>
<td>Dimensions (H × W × D)</td>
<td>121.5 × 116 × 26</td>
<td></td>
</tr>
<tr>
<td>Power Source</td>
<td>DC12V</td>
<td></td>
</tr>
</tbody>
</table>

For Android

COPYRIGHT 

For further information, please contact:

Airstage Corporation

Head Office: 830 10-5 Nagoya Shinagawa-ku, Tokyo 141-0031, Japan

Tel: +81-3-5455-1141 Fax: +81-3-5455-1142

www.airstage.com
**Wired remote controller** (with touch panel)

**UTY-RNYZ5**

**Easy operation due to large high-resolution STN-LCD touch panel screen**
- Touch screen LCD
- Built-in daily/weekly timer (ON/OFF, temperature, modes)
- Backlit screen for easy operation in the dark.
- Room temperature display
- Controls up to 16 indoor units
- Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish
- Nonpolar 2-core type

**High performance and compact size**
A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.

**Accurate control for comfort**
A thermo sensor built into the remote controller monitors room temperature accurately.

**Energy saving controls**
- **Custom Auto**
  - Maintains 2 separate setpoints for heating and cooling operations.
  - Automatically switches between heating and cooling modes.
- **Auto-off timer**
  - When the Auto-off timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
  - A desired time frame can be specified for the Auto-off timer.
  - The off-time can be set from 30 to 240 minutes.
- **2 setting weekly timer**
  - Temperature control
  - Setting temperature range limitation

**Features**
- **Wired Remote Controller (Touch Panel)**
- **Refrigerant cycle monitor (Option)**
- **Multi System Control**
  - **1) Lead Lag Operation**
    - Standby Indoor Unit can be selected in lead lag operation.
    - By this, the Indoor units will last longer than operating by nonstop.
  - **2) Back up operation**
    - In case of unexpected Indoor unit error, other Indoor units will start providing back up operation.
  - **3) Lag Operation**
    - In case of unexpected room temperature rise, other Indoor Units will start providing lag operation.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-RNYZ5</th>
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</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>DC 12V</td>
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<tr>
<td>Dimensions</td>
<td>120 × 120 × 20.4 (mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>220 (g)</td>
</tr>
</tbody>
</table>

DC 12V is supplied by the indoor unit.
**Wired remote controller**

**UTY-RLYV**

- **High performance and compact size**
  - A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.
  - Nonpolar 2-core type

- **Visually intuitive operation**
  - Each function is displayed as an icon.
  - The control guide makes it simple and straightforward to operate a remote controller.

**Compact wired remote controller**

**UTY-RCV21**

- **Large screen and simple display**
  - Large screen but compact size
  - Easy to read letters are used.
  - The controls are simple and easy to understand.

- **System overview**
  - Large letters for high visibility
  - Touch key keys for easy operation
  - Operation panel
  - 4-way navigation pad

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power source</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-RLYV</td>
<td>12 V DC</td>
<td>120 × 120 × 17</td>
<td>170 g</td>
</tr>
<tr>
<td>UTY-RCV21</td>
<td>12 V DC</td>
<td>86 × 86 × 44</td>
<td>135 g</td>
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</tbody>
</table>

**Connecting Methods**

- **VRF connection**
  - Built-in IR receiver
  - Can be operated both by wireless and wired remote controller.
  - Nonpolar 2-core type

- **RAC connection**
  - Compact wired remote controller
  - Nonpolar 2-core type

**Examples of sensor changes**

- Remote sensor
  - Day
  - Night
  - Indoor unit

**Built-in timer**

- Weekly timer: ON/OFF time can be set to operate twice for each day of the week.
  - Temperature setback timer:
    - Temperature setting and the time to hold the setting
  - Auto off timer:
    - ON/OFF time can be set to operate twice for each day of the week.

**Hi-grade individual control with a wide range of functions.**

- 3.7-inch backlit LCD screen
- Supports energy-saving functions with simple operation.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish

- **Visually intuitive operation**
  - Each function is displayed as an icon.
  - Main functions are indicated by large icons: “Mode,” “Set Temp.”, “Fan”
  - Easy operation with control guide display
  - Simple operation with easy 4-way navigation pad

- **High performance and compact size**
  - A single remote controller controls each connected indoor unit and provides a variety of energy-saving options.

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power source</th>
<th>Dimensions</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>UTY-RINVM</td>
<td>12 V DC</td>
<td>120 × 120 × 17</td>
<td>170 g</td>
</tr>
<tr>
<td>UTY-RNNVM</td>
<td>12 V DC</td>
<td>86 × 86 × 44</td>
<td>135 g</td>
</tr>
</tbody>
</table>

**Connecting Methods**

- **VRF connection**
  - Built-in timer
  - Weekly/Daily Timer
  - Accurate control for comfort
  - A thermo sensor built into the remote controller monitors room temperature accurately. The wired remote controller and an optional Remote sensor can be installed in any location to meet any requirement.

- **Examples of sensor changes**
  - The detection point can be easily changed.

- **Built-in timer**
  - Weekly timer: ON/OFF time can be set to operate twice for each day of the week.
  - Temperature setback timer:
    - Temperature setting and the time to hold the setting
  - Auto off timer:
    - ON/OFF time can be set to operate twice for each day of the week.

- **Accurate control for comfort**
  - A thermo sensor built into the remote controller monitors room temperature accurately. The wired remote controller and an optional Remote sensor can be installed in any location to meet any requirement.
Simple remote controller
UTY-RSRY / UTY-RHRY (without operation mode)

Compact remote controller with basic functionality
• 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.
• Simple design that matches stylish interiors.
• Large LCD screen and easy-to-use control buttons.
• Backlight: White backlight makes it easy to operate in the dark.
• Nonpolar 2-core type

Supports a variety of applications
- Vertical louver control: Adjusts the vertical airflow direction of a duct-type indoor unit with an auto louver or a cassette type installed in a hotel room or a conference room.
- Setting temperature range limitation: Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.
- Built-in room temperature sensor: Monitors and controls room temperature accuracy.

Wireless remote controller
UTY-LNVY

New stylish design with backlight
• It has adopted a new simple and stylish design.
• The built-in backlight allows the screen to be seen even in dark rooms.

Built-in timer
4 timer programs: ON/OFF/Program/Sleep
Program timer: Sets ON/OFF time once for every 24 hours.
Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Error diagnosis
It can detect the reason for system errors easily.
When an error is detected, the error code number can be checked using the remote controller display.

Precise control
The setting temperature can be adjusted precisely depending on the environment as the controller can set the temperature via 0.5 °C.
*Depends on the indoor unit.

Specifications
Model name UTY-RSRY UTY-RHRY UTY-LNVY
Power source 12 V DC 12 V DC 3.0V (1.5V R03/LR03/AAA x 2)
Dimensions (H × W × D) (mm) 120 × 75 × 19.4 120 × 75 × 19.4 205 × 61 × 17
Weight (g) 120 120 125
12 V DC supplied by an indoor unit

Specifications
Model name UTY-LNVY UTY-LNHY
Battery 3.0V (1.5V R03/LR03/AAA x 2) 3.0V (1.5V R03/LR03/AAA x 2)
Dimensions (H × W × D) (mm) 181 × 58 × 17 170 × 56 × 19
Weight (g) 116 85
12 V DC supplied by an indoor unit

Wireless remote controller
UTY-LNHY

Simple and versatile operations with a choice of 4 different types of timers
• Controls up to 16 indoor units.

Built-in timer
4 timer programs: ON/OFF/Program/Sleep
Program timer: Sets ON/OFF time once for every 24 hours. Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy installation and operation
Different codes can be assigned to up to 4 indoor units to prevent a mix-up. Wide and precise transmitting range

Specifications
Model name UTY-LNVY UTY-LNHY
Battery 3.0V (1.5V R03/LR03/AAA x 2) 3.0V (1.5V R03/LR03/AAA x 2)
Dimensions (H × W × D) (mm) 181 × 58 × 17 170 × 56 × 19
Weight (g) 116 85
12 V DC supplied by an indoor unit
### Control System – Individual Control

#### Wireless Remote Controller

- **Model Name:** UTY-LRHYM / UTY-LBTYM / UTY-LBTYC / UTY-LBTYH
- **Battery:** 1.5 V (R03/LR03/AAA)
- **Dimensions (H × W × D) (mm):**
  - UTY-LRHYM: 170 × 56 × 19
  - UTY-LBTYM: 205 × 61 × 17
  - UTY-LBTYC: 205 × 61 × 17
  - UTY-LBTYH: 205 × 61 × 17
- **Weight (g):**
  - UTY-LRHYM: 85
  - UTY-LBTYM: 125
  - UTY-LBTYC: 125
  - UTY-LBTYH: 125

#### IR Receiver Unit

- **Battery:** DC5V
- **Dimensions (H × W × D) (mm):**
  - UTY-LRHYM: 145 × 90 × 30
- **Weight (g):**
  - UTY-LRHYM: 150
- **Note:** DC5V is supplied to the indoor unit.

#### Cassette Type Indoor Unit

- **UTY-LBTYM:** Cassette type indoor unit can be controlled with a Wireless remote controller.
- **UTY-LBTYC:** Cassette type indoor unit can be controlled with a Wireless remote controller.

#### Ceiling Type Indoor Unit

- **UTY-LBTYH:** The wireless remote controller controls ceiling type indoor units.

---

### Control System – Optional Parts

#### Wireless Remote Controller

- **Model Name:** UTY-LNHY
- **Battery:** 1.5 V (R03/LR03/AAA)
- **Dimensions (H × W × D) (mm):**
  - UTY-LNHY: 170 × 56 × 19
- **Weight (g):**
  - UTY-LNHY: 85

#### IR Receiver Unit

- **Battery:** DC5V
- **Dimensions (H × W × D) (mm):**
  - UTY-LNHY: 145 × 90 × 30
- **Weight (g):**
  - UTY-LNHY: 150
- **Note:** DC5V is supplied to the indoor unit.

#### Cassette Type Indoor Unit

- **UTY-LNHY:** Cassette type indoor unit can be controlled with a Wireless remote controller.

---

### Additional Notes

- *Large airflow duct types do not work with this IR receiver unit.
- *A separate wireless remote control (model: UTY-LNHY) is required.
- *It will replace the parts of the indoor unit to be connected.
**CONTROL SYSTEM – Converters/Adapters**

**WLAN adapter**

**UTY-TFSXJ3/UTY-TFSXH3**

**AIRSTAGE Mobile**

“**AIRSTAGE Mobile**” is an application software that enables you to manage the Fujitsu General’s air conditioner(s) with a mobile device from anywhere.

- Maximum 5 accounts per 1 indoor unit
- Room / Outdoor temperature display
- Can be used for a Single / Multi and VRF indoor units
- No separate external power supply required

“AIRSTAGE Mobile” is an application software that enables you to operate the Fujitsu General’s air conditioners with a mobile device.

**User Friendly for Everyone**

Enjoy easy-to-use centralized operation of air conditioners via a smartphone anytime, anywhere.

**Main Functions**

- ON / OFF
- Operation mode
- Fan speed
- Louver position
- Set temperature control
- Weekly timer
- Room temperature display
- Outdoor temperature display
- Error display

*Contents of display differ depending on the type of indoor unit.

**New Design!**

Ease of use is pursued to achieve a stylish design.

The more legible and accessible timer UI enables effortless schedule management.

**Features: AIRSTAGE Mobile**

Centralized operation for flexible remote management of all air conditioners

AIRSTAGE Mobile is ideal for a wide range of applications, from large residential buildings to smaller commercial spaces such as offices and stores. Anyone who has a smartphone and an adapter can easily manage the system at a low cost.

**Hierarchical group management**

Multiple air conditioners can be combined into a single group for centralized operation. Several groups can also be organized at once. Grouping the air conditioners by building, floor, or room makes it easy for users to monitor their operation status and operate them quickly.

**Operate air conditioner and check its operation status just by talking to it**

Connecting with a smart speaker allows the user to operate the air conditioner and check its operation status just by talking to it.

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TFSXJ3</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
<tr>
<td>UTY-TFSXH3</td>
<td>56.7 × 34 × 9.72</td>
<td>30</td>
</tr>
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</table>

*The new WLAN adapters for AIRSTAGE Mobile are upper compatible for the indoor units that can connect the following WLAN adapters for FGLair.

CN connector type USB type

- for FGLair: UTY-TFSXZ1, UTY-TFSXF2
- for AIRSTAGE Mobile: UTY-TFSXJ3, UTY-TFSXH3

“AIRSTAGE Mobile” is an application software that enables you to manage the Fujitsu General’s air conditioner(s) with a mobile device from anywhere.

- Maximum 5 accounts per 1 indoor unit
- Room / Outdoor temperature display
- Can be used for a Single / Multi and VRF indoor units
- No separate external power supply required

*The new WLAN adapters for AIRSTAGE Mobile are upper compatible for the indoor units that can connect the following WLAN adapters for FGLair.

CN connector type USB type

- for FGLair: UTY-TFSXZ1, UTY-TFSXF2
- for AIRSTAGE Mobile: UTY-TFSXJ3, UTY-TFSXH3

For iOS

For Android
### WLAN adapter

**UTY-TFNXZ1 / UTY-TFSXZ1 / UTY-TFSXF2**

- **USB type for single-split models, UTY-TFSXF2**

This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.

- **No separate external power supply required**
- **Can be used for a Single / Multi and VRF indoor units.**

#### Basic control

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

#### Multiple air conditioning management

- Manage multiple air conditioning systems in different locations.

#### Error alert and e-mail notice

- E-mail notification alerts
- Air conditioning malfunction alert
- Enables quick service response when errors occur.

#### Specifications

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TFNXZ1 (3-wire RC-line type)</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
<tr>
<td>UTY-TFSXZ1 (CN connector type)</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
<tr>
<td>UTY-TFSXF2</td>
<td>56.7 × 34 × 9.72</td>
<td>30</td>
</tr>
</tbody>
</table>

---

### WLAN adapter

**FG-RC-WIF1Z2 / FG-IR-WIF1Z2 / FG-AC-WIF1Z1**

- **WLAN adapter**
- **Basic control**
  - Turning air conditioner on and off
  - Mode select (Heat, Cool, Dry, Auto, Fan)
  - Louver position (airflow direction setting)
- **Multiple language support**
- **One single scene is created.**
- **Fan speed control**
- **Room temperature display**
- **Setting temperature**

#### Advanced control (optional functions)

- Climate-based operation modes (ECO, Comfort, and Powerful) (to be available in the future)
- Schedule functions (ON/OFF, modes, set temperature, fan speed, louver position)
- Setting temperature range limitation
- Multiple Scenes and Calendars are created.
- Smart Speaker compatibility
- Advanced internet service connections

#### Notification and operation history

- E-mail notification alerts
- Air conditioning malfunction alert
- Connectivity monitoring and alert
- Operation history (to be available in the future)

#### Specifications

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Number of controllable groups</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG-RC-WIF1Z2 (3-wire RC-line type)</td>
<td>1</td>
<td>108 × 50 × 28</td>
<td>80</td>
</tr>
<tr>
<td>FG-IR-WIF1Z2 (IR connector type)</td>
<td>1</td>
<td>50 × 70 × 20</td>
<td>80</td>
</tr>
<tr>
<td>FG-AC-WIF1Z1 (IR type)</td>
<td>1</td>
<td>127 × 50 × 17</td>
<td>80</td>
</tr>
</tbody>
</table>

---

### Installation example

- **1 indoor unit**

---

*IR receiver required.*
Multiple protocol WLAN adapter

**FG-RC-WMP1Z1 / FG-IR-WMP1Z1 / FG-AC-WMP1Z1**

**AC Cloud Control**
- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required.

**Installation example**

**[3-wire RC-line type/CN connector type]**

![Diagram of installation example]

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>FG-RC-WMP1Z1 (3-wire RC-line type)</th>
<th>FG-AC-WMP1Z1 (CN connector type)</th>
<th>FG-IR-WMP1Z1 (IR type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of controllable groups</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>81 × 78 × 28</td>
<td>127 × 50 × 17</td>
<td>98</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>76</td>
<td>80</td>
<td>98</td>
</tr>
</tbody>
</table>

**Multiple protocol LAN adapter**

**FG-TL-MBS16Z1**

**Installation example**

**[IR type]**

![Diagram of installation example]

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>FG-TL-MBS16Z1 (IR type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of controllable indoor units</td>
<td>16</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>90 × 88 × 56</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>330</td>
</tr>
</tbody>
</table>

**Home central remote controller**

**FG-RC-WMP1Z1 / FG-AC-WMP1Z1 / FG-IR-WMP1Z1**

**Home central remote controller**

**UTY-DMMYM / UTY-DMMYM1**

**For 5-unit and 6-unit multi-split type**
- Batched control of up to 6 indoor units connected to the remote controllers, the Home central remote controller sets room temperature, airflow volume, and remote controller prohibition from other remote controllers at once.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish.
- Large backlit LCD screen
- Large, easy-to-see operation panel

**Example of system configuration**

- **Up to 1 multi-split system up to 6 indoor units**
  - **Home central remote controller:**
    - Weekly timer:
      - Up to 4 ON/OFF settings can be programmed per day. Two weekly patterns can be set, one for the cooling season and the other for the heating season.
    - Low noise operation:
      - You can choose from 4 low noise levels depending on the installation environment. ON/OFF timing of low noise mode can be set with the timer.
    - 10°C heat operation:
      - When you leave the house, the air conditioner runs a minimum heating operation to maintain the room temperature at 10°C.
      - *Consult your dealer for conditions of use.
    - Economy operation:
      - When you select energy-saving economy mode, the temperature setting for the indoor unit increases (during cooling operation) or decreases (during heating operation) by 1°C and the maximum electric value of the outdoor unit is suppressed.
    - Prohibiting local control, including settings such as child lock:
      - The Home central remote controller is equipped with a lock function to prevent unauthorized operation from the remote controllers of the indoor unit in each room. The Home central remote controller is equipped with a child lock to prevent children from accidentally turning the air conditioner on or off or changing its settings.

**Home central remote controller**

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DMMYM / UTY-DMMYM1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Dimensions (W × D × H)</td>
<td>127 × 30 × 13</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>200</td>
</tr>
</tbody>
</table>

**Low noise operation**

**Operating 8 low noise modes**

- **Quiet priority setting**
  - Quiet priority low noise mode

**Seasonal set temperatures**

<table>
<thead>
<tr>
<th><strong>Summer season</strong></th>
<th><strong>Winter season</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday to Friday</td>
<td>Saturday to Sunday</td>
</tr>
<tr>
<td>Heat</td>
<td>Heat</td>
</tr>
<tr>
<td>Cool</td>
<td>Cool</td>
</tr>
<tr>
<td>Cool</td>
<td>Heat</td>
</tr>
</tbody>
</table>

**Prohibiting local control**

**Batched control**

- Up to 1 multi-split system up to 6 indoor units

**Example of system configuration**

- **Up to 1 multi-split system up to 6 indoor units**
  - **Home central remote controller:**
    - Weekly timer:
      - Up to 4 ON/OFF settings can be programmed per day. Two weekly patterns can be set, one for the cooling season and the other for the heating season.
    - Low noise operation:
      - You can choose from 4 low noise levels depending on the installation environment. ON/OFF timing of low noise mode can be set with the timer.
    - 10°C heat operation:
      - When you leave the house, the air conditioner runs a minimum heating operation to maintain the room temperature at 10°C.
      - *Consult your dealer for conditions of use.
    - Economy operation:
      - When you select energy-saving economy mode, the temperature setting for the indoor unit increases (during cooling operation) or decreases (during heating operation) by 1°C and the maximum electric value of the outdoor unit is suppressed.
    - Prohibiting local control, including settings such as child lock:
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**Home central remote controller**

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DMMYM / UTY-DMMYM1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Dimensions (W × D × H)</td>
<td>127 × 30 × 13</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>200</td>
</tr>
</tbody>
</table>
CONTROL SYSTEM – CENTRALIZED CONTROL

Central remote controller

UTY-DCGYZ3

For tenants in small to midsize commercial premises

- Individual control and monitoring of up to 100 indoor units
- 7.0inch TFT color screen
- Visually intuitive operation
- Room temperature display by indoor unit sensor & remote controller sensor
- 50 Remote Controller Groups Display & remote controller group rename
- Supports 14 languages: Chinese (Simplified/Traditional), Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, Turkish, and Thai (Remote Management only)

Easy operation

Air conditioning management by detecting room temperatures of each room

The room temperature detected with indoor unit sensor or remote controller sensor can be displayed. New model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.

Features: Central Remote Controller

- Easy intuitive operation from the touch panel display.
- All functions can be accessed through the monitoring screen showing a pop-up window for detailed operation.

Easy operation

Air conditioning management by detecting room temperatures of each room

The room temperature detected with indoor unit sensor or remote controller sensor can be displayed. New model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.

Remote Management

Remote monitoring / Remote operation

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

When the central remote controller manages the indoor units of some tenants, air conditioning of each tenant can be managed separately online.

Increased the Number of Accounts

- Annual schedule
  - An annual schedule can be arranged for each remote controller group or user-defined group.
  - Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.

Administrator

(Building owner)

Online users

(Tenant owner)

Maximum

30

accounts

Schedule management

Annual schedule

- An annual schedule can be arranged for each remote controller group or user-defined group.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.

Low noise schedule

Low noise operation of outdoor units can be scheduled.

Automatic return to set temperature

A function that automatically returns the changed temperature to its original value over time.

Specifications

Model name: UTY-DCGYZ3

- Power Supply: 100-240 V 50/60 Hz
- Dimensions (H × W × D): 134.6 × 216.2 × 37.9
- Weight: 800 g

Monitoring screen

Specifications

Model name: UTY-DCGYZ3

- Power Supply: 100-240 V 50/60 Hz
- Dimensions (H × W × D): 134.6 × 216.2 × 37.9
- Weight: 800 g
**Touch panel controller**

**UTY-DTGYZ1**

- Large 7.5-inch TFT color LCD screen
- Touch screen operation
- Stylish design to fit nicely into any room environment
- Controls up to 400 indoor units.
- Icon or list view can be selected in monitoring mode.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.
- Mounted with LAN adapter for remote control & operation, external input/output with emergency stop and batch ON/OFF.

**Easy operation**

- Wide range of simple-to-understand icons
- Operate by pressing the icons on the screen with your finger or a stylus.
- The color on the back identifies the current control operation; blue is for monitoring and green is for operational control.

**Easy maintenance**

- The flat touch panel can be easily cleaned.
- Touch panel controller with non-glare coating to prevent finger marks.
- Front cover for easy removal.

**Controls up to 400 indoor units.**

- Controls up to 400 indoor units.
- Up to 100 outdoor units
- Up to 400 groups

**Features:**

**Control & monitoring**

- Control and monitor Fujitsu General air conditioners via LAN or internet.
- Users and tenants can manage their assigned equipment from anywhere by computer or tablet.
- When something goes wrong, an error notice is sent by e-mail for prompt troubleshooting.

**Flexible access permissions can be granted to users at each point level.**

The administrator can register multiple users and permit them to access any indoor unit and any functions.

**Easy installation**

- The touch panel controller can be mounted on a wall.
- Flat back surface enables easy installation anywhere on a wall.
- No additional parts or components required for installation.

**Additional languages**

Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish.

Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.

**Electricity charge apportionment (Option: UTY-PFGZA)**

- Energy cost can be calculated and allocated to each billing user in proportion to the amount of energy used for air conditioning.

- Appportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment
- Individual calculations for cooling and heating
- Electricity meter supported
**Automatic setting for daylight saving time**

Functions provided

1) Schedule setting for daylight saving time
   - Prevents the user from forgetting to set daylight saving time. In addition, it saves time and effort for the user.

2) Time can be set for all controllers in a batch automatically.

**Outdoor unit low noise operation**

You can choose from 4 low noise levels depending on the installation environment. ON/OFF timing of low noise mode can be set with the timer.

**Energy-saving controls**

Custom Auto
- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models.

**Refrigerant leak detector**

Refrigerant leakage status is indicated by the management equipment. A pop-up message is displayed to notify the user, and the refrigerator is shut off.

---

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DTGYZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Single phase ~100 to 240 V 50/60 Hz</td>
</tr>
<tr>
<td>Dimensions (W x H x D) (mm)</td>
<td>260 x 246 x 54</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>2,150</td>
</tr>
<tr>
<td>Interfaces</td>
<td>Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW</td>
</tr>
</tbody>
</table>

---

### FUNCTIONS SUMMARY

<table>
<thead>
<tr>
<th>Air conditioning control functions</th>
<th>UTY-DTGYZ1</th>
<th>Monitoring side</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/OFF</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Temperature mode setting*</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Fan speed control</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Room temperature setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Setting temperature range limitation</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Test operation</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Vertical louver setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Horizontal louver setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Individual louver control</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Autotele handling</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Remote controller prohibition</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Anti-fan setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Room temperature auto set</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Energy-saving controls</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>
<tr>
<td>Day of week</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Day of week</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Cooling/heating priority</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Address display</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Room temperature</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Multiple language support</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Setting for daylight saving</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Time zone setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Name registration</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Backlighting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Language setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Filter sign reset</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Memory operations</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Refrigerant leak detector</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

* Supported / ○: Optional function / —: Not supported
*1 Only setting cancellation can be operated.
*2 Only available for external input control.
*3 Available only when using a Wired remote controller.

---

### Control

- Remote monitoring management system: ●
- Electricity charge apportionment: ○
- Error history: ●
- Day off: ●
- Economy mode setting: ●
- Remote monitoring management: ●
- Energy-saving management: ●
- E-mail notification in case of failure: ●
- Key lock: ●
- Password setting: ●
- Defrosting: ●
- Low noise mode: ●
- Day of week: ●
- Cooling/heating priority: ●
- Address display: ●
- Room temperature: ●
- Multiple language support: ●
- Setting for daylight saving: ●
- Time zone setting: ●
- Name registration: ●
- Backlighting: ●
- Language setting: ●
- Filter sign reset: ●
- Memory operations: ●
- Refrigerant leak detector: ●
- Auto-off timer: ●
- Air conditioning control functions: ●

---

### Displayed Items

- Time
- Temperature
- Current time
- Day of week
- Remote controller prohibition
- Cooling/heating priority
- Address display
- Room temperature
- Multiple language support
- Setting for daylight saving
- Time zone setting
- Name registration
- Backlighting
- Language setting
- Filter sign reset
- Memory operations
- Refrigerant leak detector

---

### Refrigerant leakage status

Refrigerant leakage status is indicated by the management equipment. A pop-up message is displayed to notify the user, and the refrigerator is shut off.

---

### Automatic clock adjustment

1) Schedule setting for daylight saving time
2) Time can be set for all controllers in a batch automatically.

---

### Automatic setting for daylight saving time

Function provided

- Schedule setting for daylight saving time
- Prevents the user from forgetting to set daylight saving time. In addition, it saves time and effort for the user.
System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- Up to 1,600 indoor units and 400 outdoor units on up to 4 VRF network systems can be controlled.
- To accommodate facility management needs, the system controller offers in addition to precise air conditioning control—remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.

System controller Lite

System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.

Features:

Third-party devices connected via MODBUS® can be controlled.

Wide-ranging operation and data management

Schedule management
- An annual schedule can be arranged for each remote controller group or user-defined group.
- ON/OFF, operation mode, remote controller prohibition, and temperature settings can be programmed for up to 143 times per day at 10-minute intervals and for up to 101 configurations for each remote controller group.
- Settings can be programmed for a period that spans midnight.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.
- Low noise operation of outdoor units can be scheduled.

Wide-ranging control of indoor and outdoor units
- The operation status and mode of each indoor unit are displayed.
- Turn on and off each indoor unit and switch its operation mode.
- Setting temperature range limitation
- Low noise setting of outdoor units

Remote controller prohibition
- Prohibits the operation mode, temperature setting, or ON/OFF of an indoor unit.
- Error alert and e-mail notice
- When something goes wrong, an error message is shown in a popup on a computer display with a chime, and an e-mail notice is sent. Errors of the past one year are logged and can be reviewed.

Operation and control history
- A history of operation status and control can be maintained and reviewed.

Importing and exporting databases
- Only an administrator is authorized to import and export registration, layout, and image data.

Automatic clock adjustment
- Time can be set for all controllers in batch automatically.

Electricity charge apportionment

This is a method to calculate monthly energy costs to be allocated to each tenant based on the amount of energy used by their air conditioners. The first step is to determine exactly how much energy is consumed by air conditioners in each tenant space. The second step is to divide the total energy charge billed by an electric power company based on the amount of energy used by each tenant to determine the energy cost to be allocated to each of them. (See figure on right)

The calculation takes into consideration such factors as the number of unused rooms, and nighttime electricity rate, which are shown in detail on an energy cost allocation schedule.
**CONTROL SYSTEM – CENTRALIZED CONTROL**

### Remote monitoring management

- **Standard** on System controller
- **Option** System controller Lite UTY-PLGXE2

The system controller can be used on site or remotely over networks for remote central control. The system controller requires 2 software programs working together. The VRF controller runs on site and communicates with the VRF system; The VRF explorer, which runs at a remote location, provides a user interface and communicates with the VRF controller. The VRF controller and the VRF explorer run on a single computer or on different computers connected on a network. A computer running VRF explorer can centrally control up to 10 VRF system sites having up to 20 buildings each.

### Energy-saving management

- **Option** System controller UTY-PLGZX1
- **Option** System controller Lite UTY-PLGXE2

A variety of energy-saving options can be selected depending on the season, weather, and time of day. Excellent energy-saving operation is performed while keeping users comfortable.

### On site central control

Max. 6 VRF system sites per network

### Remote control

- Building management company’s central control, etc.

### Energy-saving performance

With the same month of the previous year to keep track of energy-saving performance.

### Remote monitoring management

- Features:
  - Detailed monitoring screen for special properties
  - VRF explorer
  - Company A
  - Building Management
  - VRF explorer
  - Company B
  - Landline or Internet
  - Setting for a specific date
  - Pattern operations
  - Web Operation

### Summary of functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Type</th>
<th>System controller UTY-APGZX1</th>
<th>System controller UTY-PLGZX1</th>
<th>System controller Lite UTY-PLGXE2</th>
</tr>
</thead>
<tbody>
<tr>
<td>System controller</td>
<td>UTY-APGZX1</td>
<td>UTY-PLGZX1</td>
<td>UTY-PLGXE2</td>
<td></td>
</tr>
<tr>
<td>System controller Lite</td>
<td>UTY-PLGZX1</td>
<td>UTY-PLGXE2</td>
<td>UTY-PLGXE2</td>
<td></td>
</tr>
<tr>
<td>Remote access</td>
<td>UTY-RLBR2</td>
<td>UTY-RLGXE2</td>
<td>UTY-RLGXE2</td>
<td></td>
</tr>
<tr>
<td>Energy saving</td>
<td>UTY-EPGZX1</td>
<td>UTY-EPGXE2</td>
<td>UTY-EPGXE2</td>
<td></td>
</tr>
<tr>
<td>Centralized control</td>
<td>UTY-EPGZX1</td>
<td>UTY-EPGXE2</td>
<td>UTY-EPGXE2</td>
<td></td>
</tr>
</tbody>
</table>

### Computer requirements

The specifications required for the computer are shown in the table below:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB or more (for Windows® 7 [32-bit])</td>
</tr>
<tr>
<td>Intel® Core™ i3</td>
<td>2 GHz or higher</td>
</tr>
<tr>
<td>HDD</td>
<td>30 GB or more</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB or more (for Windows® 7 [32-bit])</td>
</tr>
<tr>
<td>Intel® Core™ i3</td>
<td>2 GHz or higher</td>
</tr>
<tr>
<td>HDD</td>
<td>30 GB or more</td>
</tr>
</tbody>
</table>

### Packing list

<table>
<thead>
<tr>
<th>Type</th>
<th>System controller Lite</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>System controller Lite</td>
<td>System controller Lite</td>
</tr>
<tr>
<td>Machine type</td>
<td>System controller Lite</td>
<td>System controller Lite</td>
</tr>
</tbody>
</table>

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

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**C-034**

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**C-035**
**MODBUS® converter for indoor unit**

**UTILITY-VMSX**

MODBUS® converter enables air conditioners to be fully integrated into a MODBUS® network.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS® converter must be connected to an indoor unit on a one-to-one basis.
- The MODBUS® converter enables central monitoring and control of air conditioners from BMS, central, or home controller.

**Easy Installation**

Easy to install with minimal wiring and without the need for a power supply cable to the converter.

**Basic control**

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed control
- Louver position (airflow direction setting)
- Room temperature setting and display
- Economy mode setting
- Error status

**Specifications**

<table>
<thead>
<tr>
<th>MODBUS® converter</th>
<th>UTILITY-VMSX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>Max. 1.2 W</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>140 × 117 × 43</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>200</td>
</tr>
<tr>
<td>Maximum number of connectable indoor units per MODBUS® converter</td>
<td>1</td>
</tr>
</tbody>
</table>

**Modbus communication specifications**

<table>
<thead>
<tr>
<th>Transfer mode</th>
<th>0x03</th>
<th>0x04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication speed</td>
<td>9600 bps</td>
<td>19200 bps</td>
</tr>
<tr>
<td>Data bit</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Parity</td>
<td>even/odd/none</td>
<td></td>
</tr>
<tr>
<td>Stop bit</td>
<td>1/2 (no parity)</td>
<td></td>
</tr>
<tr>
<td>Network</td>
<td>RS485</td>
<td></td>
</tr>
</tbody>
</table>

**MODBUS® interface**

**FG-RC-MBS1Z1 / FG-AC-MBS1Z1 / FG-IR-BMG1Z1**

MODBUS® interface enables air conditioners to be fully integrated into a MODBUS® network.

- Small, compact, and easy to install on DIN rails.
- No separate external power supply required.
- MODBUS® interface enables central monitoring and control of air conditioners from BMS.

**Installation example**

- BMS/Central controller
- VRF Indoor unit
- Split Indoor unit
- Wired Remote controller
- Wall-mounted type indoor unit

**Specifications**

<table>
<thead>
<tr>
<th>MODBUS® interface</th>
<th>FG-RC-MBS1Z1 (3-wire RC-line type)</th>
<th>FG-AC-MBS1Z1 (CN connector type)</th>
<th>FG-IR-BMG1Z1 (IR type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of controllable groups</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>93 × 53 × 58</td>
<td>93 × 53 × 58</td>
<td>93 × 60 × 21</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>85</td>
<td>85</td>
<td>55</td>
</tr>
</tbody>
</table>

**[IR type] Connection to wall-mounted type**

- Central/Home Controller
- Wall-mounted type indoor unit
MODBUS® converter enables air conditioners to be fully integrated into a MODBUS® network.

- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® converter enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

### Specifications

#### MODBUS® converter for VRF

- **Model name**: UTY-VMGX / FG-TL-MBS1Z1
- **Power supply**: Single phase ~220 to 240 V 50/60 Hz, 9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA
- **Input power (W)**: Max. 2
- **Dimensions (H × W × D) (mm)**: 54 × 260 × 150
- **Weight (g)**: 1,100

#### BACnet® interface

- **Model name**: FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- **BACnet® interface connects BMS and a Fujitsu General split/multi-split/VRF system.**
- **Compatible with BACnet® (ANSI/ASHRAE-135-2012) application-specific controller (B-ASC)**
- **Compatible with BACnet®/IP over Ethernet.**

### Installation example

**MODBUS® converter for VRF**

1. VRF System
2. MODBUS® converter for VRF
3. VRF Indoor unit
4. VRF Outdoor unit
5. Outdoor unit
6. Indoor unit
7. MODBUS® Network
8. MODBUS® converter for VRF
9. BACnet® interface
10. BACnet® network
11. BMS/Central controller
12. VRF Indoor unit
13. VRF Split Indoor unit
14. Lighting facilities
15. Security system
16. Automatic fire alarm interface
17. Window blinds

**BACnet® interface**

1. VRF System
2. BACnet® converter (CN connector type)
3. BACnet® converter (IR type)
4. BACnet® interface
5. BMS/Central controller
6. BACnet® network
7. VRF Indoor unit
8. VRF Split Indoor unit
9. VRF Outdoor unit
10. Lighting facilities
11. Security system
12. Automatic fire alarm interface
13. Window blinds

* BMS: Building Management System

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**MODBUS® converter for VRF**

- Up to 9 units per VRF system
- Up to 128 indoor units

**BACnet® interface**

- Up to 1 indoor units
- Up to 16 indoor units
- Up to 100 outdoor units
- Up to 16 outdoor units
- Up to 128 indoor units

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit

---

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit

---

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit

---

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit

---

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit

---

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit

---

**MODBUS® converter**

- UTY-VMGX / FG-TL-MBS1Z1
- 2 MODBUS® converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

**BACnet® interface**

- FG-AC-BAC1Z1 (CN connector type) / FG-IR-BMG1Z1 (IR type)
- 12 V DC supplied by an indoor unit
BACnet® gateway

**UTY-ABGXZ1**

- A medium to large BMS can be connected to a VRF network system via BACnet®, a standard communication protocol for open networks.
- Up to 1,600 indoor units on up to 4 VRF network systems (up to 400 indoor units and 100 outdoor units per system) can be connected to a single BACnet® gateway.
- The VRF network system can be controlled or monitored from BMS via BACnet® gateway.
- Compatible with BACnet®/IP over Ethernet.
- Scheduling, alarm and event setting, and energy cost allocation are provided on the BACnet® gateway.
- The VRF network system can be connected to a computer via a U10 USB interface. Note that Fujitsu General does not supply a U10 USB interface or a computer. They must be purchased separately by the user.
- Corresponds to 7 different languages: English, Chinese, French, German, Spanish, Russian, Polish.

**Installation example**

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>Max. 4 VRF network systems</th>
<th>Max. 5 USB ports</th>
<th>Max. 4 VRF network systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor unit</td>
<td>Indoor unit</td>
<td>USB adapter</td>
<td>USB adapter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Locally available)</td>
<td>(Locally available)</td>
</tr>
</tbody>
</table>

**Computer requirements**

- Name and shape: UTY-VBGX, C-041
- Number of connectable indoor units: 128
- Number of controllable VRF networks: 1
- Number of controllable refrigerant systems: 32
- Number of controllable indoor units: Max. 128 indoor units & Max. 32 refrigerant systems

**Specifications**

- Model name: UTY-VBGX (Hardware)
- Specifications:
  - Single-phase, 100-240 V, 50/60 Hz
  - Dimensions (H × W × D): 59.6 × 270.4 × 176 mm
  - Weight: 1200 g

- Interfaces:
  - 1 USB port to connect to a White-USB-key/WibuKey
  - 1 USB port to connect to a BACnet® gateway

- Software:
  - *Software Protection Key* (UTY-ABGXZ1)
  - BACnet® gateway
  - BACnet® Operator Workstation (B-OWS)
  - BACnet® Security system

- Manuals:
  - Software, user’s manual, and license for BACnet® gateway.

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

**Support**

- Fujitsu General does not supply a U10 USB interface or a computer. They must be purchased separately by the user.
- Corresponds to 7 different languages: English, Chinese, French, German, Spanish, Russian, Polish.

**System**

- Fujitsu General VRF Outdoor unit
- Fujitsu General VRF Indoor unit
- VRF Outdoor unit
- VRF Indoor unit
- Security system
- Lighting facilities
- Automatic fire alarm interface
- Window blinds

**Hardware**

- Fujitsu General BACnet® gateway
- Fujitsu General BACnet® Operator Workstation
- Fujitsu General BACnet® Security system

**BACnet® gateway**

- Fujitsu General BACnet® gateway connects BMS and a Fujitsu General VRF system.
- Up to 128 indoor units and 32 refrigerant systems can be connected to a single BACnet® gateway.
- Compatible with BACnet®/IP over Ethernet.
- Installation example:
  - Up to 1 VRF network systems
  - Up to 32 refrigerant systems
  - Up to 128 indoor units
**BACnet®/MODBUS® router**

**FG-RTB-BAC32Z1 / FG-RTB-MBS32Z1**

Routing between BaCnet® MS/TP and BaCnet® IP networks

- Routing between BaCnet® MS/TP and BaCnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FG-RTB-BAC32Z1</th>
<th>FG-RTB-MBS32Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of routable devices (max.)</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Power supply</td>
<td>9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA</td>
<td>9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>93 × 53 × 58</td>
<td>93 × 53 × 58</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

**Installation example**

- **BACnet® Router**
- **MODBUS® Router**
- **BMS/Central Controller**
- **Indoor unit**
- **BaCnet® IP**
- **MODBUS® RTU**

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**BACnet®/MODBUS® cloud device**

**FG-CLD-BMG4Z1 / FG-CLD-BMG8Z1 / FG-CLD-BMG16Z1 / FG-CLD-BMG32Z1**

- The most powerful configuration tool common to all BACnet® gateways provides the system integrators with the power to configure and monitor their systems in an easy and reliable manner.
- A simple, easy-to-use description for the ST Cloud Web and App User Interface, with all widgets customizable to the user’s needs, enabling system integrators to easily offer the best user experience to customers who are in control of their BACnet® or MODBUS® devices.

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>FG-CLD-BMG4Z1</th>
<th>FG-CLD-BMG8Z1</th>
<th>FG-CLD-BMG16Z1</th>
<th>FG-CLD-BMG32Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of connectable BaCnet® (IP/MSTP) or MODBUS® (TCP/RTU) devices</td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>32</td>
</tr>
<tr>
<td>Power supply</td>
<td>9 to 24 V DC, 50/60Hz</td>
<td>9 to 24 V DC, 50/60Hz</td>
<td>9 to 24 V DC, 50/60Hz</td>
<td>9 to 24 VDC, 50/60Hz</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>1.7</td>
<td>1.7</td>
<td>1.7</td>
<td>1.7</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>98 × 53 × 58</td>
<td>98 × 53 × 58</td>
<td>98 × 53 × 58</td>
<td>98 × 53 × 58</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

**Gateway features**

- BaCnet® IP/MSTP or MODBUS® TCP/RTU connectivity
- Up to 32 devices can be connected to each gateway.
- Up to 12 widgets per device
- Easy device configuration with Intesis MAPS

**Next-generation services**

- Industrial-grade connectivity now for building automation
- Fast and scalable real-time edge connectivity over HMS HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

**System Features**

- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices
- Calendar that shows the daily planned installation commands
- Notifications keep you updated about system status
- Device sharing and usage permissions management
- Multiple site management from a common dashboard

---

**BMS/Central Controller**

- **MODBUS® Network**
- **Security system**
- **Automatic fire alarm interface**
- **Window blinds**
KNX® converter for indoor unit

KNX® Converter enables individual control of an indoor unit.

- The new KNX® converter connects a central or home controller and a Fujitsu General indoor unit.
- Compact and lightweight design

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VKSX</th>
<th>UTY-VKGX</th>
<th>FG-TL-KNX16Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>12 V DC</td>
<td>Single phase</td>
<td>12 V DC, Max: 140 mA</td>
</tr>
<tr>
<td>Input power</td>
<td>0.6 W</td>
<td>1.5 W</td>
<td>1.6 W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>140 × 117 × 43</td>
<td>54 × 260 × 150</td>
<td>90 × 88 × 56</td>
</tr>
<tr>
<td>Weight</td>
<td>215 g</td>
<td>1,200 g</td>
<td>340 g</td>
</tr>
</tbody>
</table>

*24 V DC power supply is recommended.

KNX® converter for VBF

KNX® converter enables centralized control of a system.

- KNX® converter connects a central or home controller and a Fujitsu General VBF system.
- Up to 128 indoor units and 100 outdoor units can be connected to a single KNX® converter (UTY-VKSX)

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VKSX</th>
<th>UTY-VKGX</th>
<th>FG-TL-KNX16Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>12 V DC</td>
<td>Single phase</td>
<td>12 V DC, Max: 140 mA</td>
</tr>
<tr>
<td>Input power</td>
<td>0.6 W</td>
<td>1.5 W</td>
<td>1.6 W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>140 × 117 × 43</td>
<td>54 × 260 × 150</td>
<td>90 × 88 × 56</td>
</tr>
<tr>
<td>Weight</td>
<td>215 g</td>
<td>1,200 g</td>
<td>340 g</td>
</tr>
</tbody>
</table>

*24 V DC power supply is recommended.

KNX® interface

The KNX® interface enables air conditioners to be fully integrated into a KNX® network system.

- Simple installation due to small and compact size
- No separate external power supply required (only KNX® bus power required)

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>FG-RC-KNX1Z1</th>
<th>FG-AC-KNX1Z1</th>
<th>FG-IR-KNX1Z1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of controllable groups</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Dimensions</td>
<td>70 × 70 × 28</td>
<td>45 × 59 × 21</td>
<td>81 × 78 × 28</td>
</tr>
<tr>
<td>Weight</td>
<td>70 g</td>
<td>35 g</td>
<td>76 g</td>
</tr>
</tbody>
</table>

Installation example

- KNX® interface can be used with or without a Wired remote controller.
- Connection to wall-mounted type
- Connection to a product other than wall-mounted type

KNX® converter for indoor unit

Central/Home controller

KNX® converter for indoor unit

VRF Indoor unit

Wireless remote controller

Duct type indoor unit

Wall-mounted type indoor unit

KNX® converter for VRF

Central/Home controller

KNX® converter for VRF

Central/Home controller

KNX® interface

Wireless remote controller

Duct type indoor unit

Wall-mounted type indoor unit

*IR receiver required.
Network converter for single-split type

UTE-VTGX / UTY-VTGXV

- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation example
- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50/60 Hz) is required for the 2-remote-controllers type.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model name</th>
<th>UTY-VTGX</th>
<th>UTY-VTGXV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply</td>
<td></td>
<td>Polar 2-core 12 V DC</td>
<td>Nonpolar 2-core 12 V DC</td>
</tr>
<tr>
<td>Input power (W)</td>
<td></td>
<td>Max. 1.2 W</td>
<td>Max. 3 W</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td></td>
<td>140 × 117 × 43</td>
<td>54 × 260 × 150</td>
</tr>
<tr>
<td>Weight (g)</td>
<td></td>
<td>250</td>
<td>1,100</td>
</tr>
</tbody>
</table>

- Both nonpolar 2-core and polar 3-core type Wired remote controllers can be connected.
- Central control can be provided for single-split systems. (Up to 100 network converters can be connected in a VRF network system)

Network converter for LonWORKS™
UTE-VLGX

- Connects the VRF network system to a LonWORKS™ open network to manage small and mid-sized BMS and VRF network system.
- The UTY-VLGX enables centralized monitoring and control of VRF network system from a BMS via a LonWORKS™ interface.
- Up to 128 Indoor units can be connected to one network converter for LonWORKS™

Installation example
- Up to 4 units to BMS
- Up to 100 outdoor units
- Up to 128 indoor units

Specifications

Model name | UTY-VLGX |
----------|----------|
Power supply | Single phase, 208 to 240 V, 50/60 Hz |
Power consumption (W) | 4.5 |
Dimensions (H × W × D) (mm) | 67 × 288 × 211 |
Weight (g) | 1,500 |

Transmission specifications (BMS side)
- Transmission speed: 2.5 kbps
- Termination: 75 Ω (termination resistor(s) provided)
- Transmission line form: No clipping
- Terminal resistor: None (resistor(s) to be installed at the terminal(s) customer)
External switch controller

UTY-TERX

Air conditioner switching can be controlled by connecting this external switch controller to other sensor switches.

• In combination with a commercially available card-key switch or other sensors, this External switch controller enables the control of ON/OFF, room temperature, and fan speed of connected air conditioners as well as master control functions. This makes this product an ideal choice for use in hotel rooms.
• Card key or other sensor switches are locally available.
• The set temperature can be specified at two points each for cooling and heating operations (4 points in total).

Installation example

Human sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.

Signal amplifier

UTY-VSGXZ1

• The transmission line can be extended up to 3,600 m using multiple Signal amplifiers.
• Up to 8 Signal amplifiers can be added in a VRF network system.
• A Signal amplifier is required.
  (1) When the total wiring length of the transmission line exceeds 500 m.
  (2) When the total number of units on the transmission line exceeds 64.

Installation example

Human sensor equipment needs to be purchased separately. Human sensor is not mounted on an External switch controller.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>UTY-VSGXZ1</th>
<th>UTY-TERX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Single phase ~208 to 240 V/50/60 Hz</td>
<td>UTY-TERX</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>4.5</td>
<td>6.5 to 12.0</td>
</tr>
<tr>
<td>Transmission (m)</td>
<td>67 × 288 × 211</td>
<td>140 × 117 × 43</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,500</td>
<td>250</td>
</tr>
<tr>
<td>DC 12 V supplied by an indoor unit</td>
<td></td>
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</tr>
</tbody>
</table>
### Controller system list (available) for Split/Multi-split

**Controller Options/Accessories:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Background</th>
<th>Indoor and Outdoor unit</th>
<th>Wall mounted</th>
<th>Indoor and outdoor unit</th>
<th>Wall mounted</th>
<th>Wall mounted</th>
<th>Indoor and outdoor unit</th>
<th>Wall mounted</th>
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<th>Wall mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>Standard Duct type</td>
<td>Standard Cassette type</td>
<td>For Duct type</td>
<td>For Cassette type</td>
<td>For Duct type</td>
<td>For Cassette type</td>
<td>For Duct type</td>
<td>For Cassette type</td>
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</tr>
</tbody>
</table>

*There are no optional parts for the EJ Series.*

1. Available only when the LCR4 adapter (YH-70432) is removed.
2. Available only when the LCR4 adapter (YH-70432) is removed.
3. Consult your dealer for conditions of use.
## Controller system list (available) for Split/Multi-split

### Controller Options/Accessories:

<table>
<thead>
<tr>
<th>Type</th>
<th>Background</th>
<th>Subsystem</th>
<th>Wall mounted</th>
<th>Ceiling</th>
<th>Recessed</th>
<th>High static pressure</th>
<th>RSL</th>
<th>Floor</th>
<th>Wall mounted</th>
<th>Ceiling</th>
<th>Recessed</th>
<th>RSL</th>
<th>Floor</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

### Types:

- Single-split
- Multi-split

### CN connector type:

- 3-wire RC-line
- USB type
- IR type

### Accessory:

- ASSG
- ASHG
- UTY-TFSXH3, UTY-TFSXH2
- UTY-LBTYH
- FG-AC-KNX1Z1
- FG-RC-WIF1Z1
- FG-AC-WMP1Z1
- FG-RC-WMP1Z1
- FG-AC-MBS1Z1

### Range:

- 07/09/12
- 12/14
- 18/22/24/30

### Medium static pressure:

- 36/45/54

### High static pressure:

- 9/12/14

### Pressure:

- 07KLLAP

---

*For compatibility of the new WKN adapters with the indoor units which are not listed in this catalogue, please refer to page C-053.

*1: Available only when the WKN adapters (FG-T501Z1) are removed.  
*2: Available only when the WKN adapters (FG-T602Z1) are removed.

*There are no optional parts for the SH Series.
# Controller System & Optional Parts

## Controller System List (Available) for VRF

### Controller Options:

<table>
<thead>
<tr>
<th>Type</th>
<th>Background</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Outdoor unit</th>
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<td>Outdoor unit</td>
</tr>
</tbody>
</table>

### Examples:

- **Wired remote controller**
  - Nonpolar 2-core type
  - UTY-RSRY
  - UTY-RHRY
- **Wireless remote controller**
  - AR-RRF1E
  - UTY-LNHY
  - UTY-LNVY
- **IR receiver unit**
  - UTY-TRHX
- **Central remote controller**
  - System controller, System controller Lite
  - UTY-DCGYZ3
  - UTY-APGXZ1, UTY-ALGXZ1
- **Touch panel controller**
  - System controller, System controller Lite
  - UTY-DTGYZ1
  - UTY-APGXZ1, UTY-ALGXZ1

---

**Note:**

- The table and images are not fully visible due to the resolution limitations of the image.
## Controller system list (available) for VRF

### Controller Options:

<table>
<thead>
<tr>
<th>Type</th>
<th>Background</th>
<th>Controller Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-way flow</td>
<td>Controller Options:</td>
<td></td>
</tr>
<tr>
<td>Cell lines</td>
<td>Controller system list (available) for VRF</td>
<td></td>
</tr>
<tr>
<td>High efficiency</td>
<td>Interfaces</td>
<td></td>
</tr>
<tr>
<td>3-wire RC-line type</td>
<td>KNX® converter</td>
<td></td>
</tr>
<tr>
<td>CN connector type</td>
<td>MODBUS® converter</td>
<td></td>
</tr>
<tr>
<td>High efficiency</td>
<td>LONWORKS gateway</td>
<td></td>
</tr>
<tr>
<td>3-wire RC-line type</td>
<td>IR type</td>
<td></td>
</tr>
<tr>
<td>CN connector type</td>
<td>Refridrnt</td>
<td></td>
</tr>
<tr>
<td>High efficiency</td>
<td>One-way flow</td>
<td></td>
</tr>
<tr>
<td>Circular flow</td>
<td>3D flow</td>
<td></td>
</tr>
</tbody>
</table>

---

*For compatibility of the new WLAN adapters with the indoor units which are not listed in this catalogue, please refer to page C-021.
Optional parts Overview
For Split & Multi-split, VRF

A variety of optional parts are available to enable installation of the selected indoor unit properly according to the environment.

Optional Parts
For Cassette

- Human sensor kit
  A built-in thermo sensor monitors and controls room temperature accurately.

- Cassette grille
  A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.

- Silver ion filter
  The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*

- Fresh air intake kit
  Fresh air can be taken in by a fan connected to an external control unit.

- Insulation kit for high humidity
  Insulation kit for high humidity is used when the installation location is in a high humidity environment.

- Air outlet shutter plate
  Airflow directions can be changed to 3 directions using the Air outlet shutter plate depending on the installation location.

Optional Parts
For R32 VRF products

- Gas Sensor kit
  Used to ensure standards compliance and safety when R32 VRF products are installed.

- Expansion kit
  Connect to indoor units to expand the number of inputs and outputs when using multiple safety devices or external input/output functions.

Optional Parts
For V-IV

- Pressure sensor kit
  When installed, the height difference between the outdoor unit and indoor unit can be allowed up to 110 m.

Optional Parts
For Floor

- Wide Panel
  When a cassette type is installed in a narrow space in the ceiling, the wide panel fills in that space.

- Panel spacer
  If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

Optional Parts
For Duct & Ceiling

- Auto louver grille kit
  The optional clean-looking flat auto louver grille blends into any interior and provides a comfortable airflow.

- Remote sensor unit
  The remote sensor provides additional convenience.

- Silver ion Filter
  The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*

- Long-life filter
  Captures dust and dust. Long-life design with consideration of running costs.

- Drain pump unit
  Drains water that has accumulated during operation.

Connection Parts

- Communication kit
  Required for a wall mounted type when the External connect kit set or a Wired remote controller is connected to the indoor unit.

- External connect kit & set
  Connect the printed circuit board (PCB) to external devices.

- External input and output PCB
  Required for a wall mounted type and Cassette type, these parts are required when the external input and output function is used.

- Connection Units
  Connection units are available to separate the pipes when connecting multiple indoor units in a Multi-split type or VRF system.

- External power supply unit
  The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

- External input and output PCB box & bracket
  Box and bracket for installing the External input and output PCB.

*Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganisms, but do not prevent infection.
Silver Ion Filter
UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W

The Silver Ion filter helps to keep indoor air free from viruses, bacteria and molds.

(Not a result of experiments in an actual use environment. Silver Ion filter inhibits activity or growth of microorganism, but do not prevent infection.)

The silver ion filter inhibits the activities of viruses*, bacteria*2 and molds*3 trapped on the filter.

(Only effective when the microorganism is trapped on the filter with dust or droplet)

The filter is easily removable* and hand-washable.

(*Wall mounted and floor models only)

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>For Wall mounted / Floor</th>
<th>For Cassette</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTD-GXTA-W</td>
<td>UTD-GXTB-W</td>
<td>UTD-GXTC-W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For Wall mounted / Floor</th>
<th>For Cassette</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specifications</td>
<td>Net Dimensions</td>
</tr>
<tr>
<td>(H × W × D) mm</td>
<td>290 × 70 × 6</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>2</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>0.4</td>
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</table>

<table>
<thead>
<tr>
<th>For Duct</th>
<th>Specifications</th>
<th>Net Dimensions</th>
<th>Extension Square duct limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTD-HFNA</td>
<td>For Wall mounted / Floor</td>
<td>(H × W × D) mm</td>
<td>290 × 70 × 6</td>
</tr>
<tr>
<td>UTD-HFNB</td>
<td>500 × 79 × 6</td>
<td>500 × 79 × 6</td>
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<tr>
<td>UTD-HFNA</td>
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<tr>
<td>UTD-HFNA</td>
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<tr>
<td>Extension Square duct limit</td>
<td>1.0 m (Max. duct length between indoor unit and Auto louver grille)</td>
<td></td>
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</tr>
</tbody>
</table>

• Auto-closing louver
• Flexible Control

The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.

• Vertical auto swing
• Airflow direction and auto swing
• 4 steps selectable
• Auto-closing louver

The louvers will automatically close when the indoor unit stops operating.

Auto louver grille kit
UTD-GATA-W / UTD-GATB-W / UTD-GATC-W

The optional cleaning flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

Dimensions

<table>
<thead>
<tr>
<th>Model name</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTD-GATA-W</td>
<td>Net Dimensions</td>
</tr>
<tr>
<td>(W × H × D) mm</td>
<td>350 × 210 × 6</td>
</tr>
<tr>
<td>Operating range</td>
<td>16 °C to 30 °C</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>6</td>
</tr>
<tr>
<td>Weight (g)</td>
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</tr>
<tr>
<td>Extension Square duct limit</td>
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</tr>
</tbody>
</table>

The silver ions disrupt the activity of these enzymes and consequently inhibit the growth of the microorganism.

The silver ions react with metabolic enzymes of the microorganism.

The silver ions disrupt the activity of these enzymes and consequently inhibit the growth of the microorganism.

Easy installation and removal

Fitting frame

Flexible Control

• The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.

• Vertical auto swing

• Airflow direction and auto swing

• 4 steps selectable

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The louvers will automatically close when the indoor unit stops operating.

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The Silver Ion filter helps to keep indoor air free from viruses, bacteria and molds.

(Not a result of experiments in an actual use environment. Silver Ion filter inhibits activity or growth of microorganism, but do not prevent infection.)

The silver ion filter inhibits the activities of viruses*, bacteria*2 and molds*3 trapped on the filter.

(Only effective when the microorganism is trapped on the filter with dust or droplet)

The filter is easily removable* and hand-washable.

(*Wall mounted and floor models only)

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• Auto-closing louver
• Flexible Control

The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.

• Vertical auto swing

• Airflow direction and auto swing

• 4 steps selectable

• Auto-closing louver

The louvers will automatically close when the indoor unit stops operating.

Auto louver grille kit
UTD-GATA-W / UTD-GATB-W / UTD-GATC-W

The optional cleaning flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

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Easy installation and removal

Fitting frame

Flexible Control

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</tbody>
</table>
Pressure sensor kit

**UTY-SPWX**

**Design flexibility**

The height difference between the outdoor unit and the indoor unit is normally 50 m for the V-IV Series, but can be extended to 110 m by installing the Pressure sensor kit. (Can only be connected to the V-IV Series. Also, it can only be connected to outdoor units using outdoor unit software compatible with the product.)

**Specifications**

- **Model name**: UTY-SPWX
- **Power supply**: 9 to 16 V DC
- **Dimensions (H × W × D) (mm)**: 140 × 117 × 43
- **Weight (g)**: 200

**System overview**

![System overview diagram](image)

**Pressure sensor kit**

![Pressure sensor kit diagram](image)

**External power supply unit**

**UTZ-GXXA / UTZ-GXXC**

The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

Connects to the External power supply unit to supply power to the indoor unit from the auxiliary power supply. This allows for continuous operation without system errors. Built-in relays reduce installation time and cost. The UTZ-GXXA have a built-in relay, which reduces installation time and cost.

**High reliability**

- **A**: Interruption of the main power supply is detected by the power cut-off detection part.
- **B**: Supplies power for driving the expansion valve of the indoor unit. (12 V or 5 V DC)
- **C**: Gives notification of the power supply from the External power supply unit.

**Specifications**

<table>
<thead>
<tr>
<th>Power supply</th>
<th>UTY-GXXA</th>
<th>UTY-GXXC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>24 V AC</td>
<td>24 V AC</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>97 × 200 × 178</td>
<td>50 × 171</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>800</td>
<td>600</td>
</tr>
</tbody>
</table>

**Notes**

- When changing the power supply voltage to 24 V AC, use a power transformer with an insulated structure that complies with the regulations* of the installation region.
- The pressure sensor kit is treated in the same way as an operation-off unit in the electricity charge appointment function. If standby power is generated, the result of the electricity charge appointment may not be zero.

*UL Class II or IEC 61558 Class III, for example.

**AIR BEAM**

**Radiation air outlet unit**

*Production by order. Contact us for more details.

**Key component**

- Cool and warm air supply port
- Attraction slit
- Radiation rectification panel

**Cross-section view**

- External air flow duct system, supplying cool and warm air
- Air into and out of the room is dispersed by heat dissipating fins and rectification panels
- Drawn in air from the room directly and mixed with the conditioned supply to create a comfortable airflow
- Built-in aluminum heat dissipating fins and rectification panels help to disperse and warm airflow

**Airflow rate (m³/h)**

- **UTZ-GXXA**: 180 (160-215) m³/h
- **UTZ-GXXC**: 270 (240-325) m³/h

**Dimensions (H × W × D) (mm)**

- **UTZ-GXXA**: 50 × 171
- **UTZ-GXXC**: 50 × 171

**Optional parts**

- Pressure sensor kit
- Refrigerant pressure sensor

**Pressure sensor kit**

**UTY-SPWX**

**System overview**

![System overview diagram](image)

**Pressure sensor kit**

![Pressure sensor kit diagram](image)

**Specifications**

- **Model name**: UTY-SPWX
- **Power supply**: 9 to 16 V DC
- **Dimensions (H × W × D) (mm)**: 140 × 117 × 43
- **Weight (g)**: 200
Enhanced disaster safety measures

The system is designed to meet the environmental safety requirements specified in the IEC 60335-2-40 standard for the use of R32 refrigerant. The environment requiring safety measures is determined by the size of the room in relation to the amount of refrigerant required.

For example, if the system is designed for maximum pipe length and the refrigerant charge is 6 kg, safety measures are required for rooms of 15 m² or less.

For Example: Total pipe length 120m

Conditions requiring safety measures

The graph below will help you determine if a safety design is required when installing R32 VRF products. The amount of refrigerant in a refrigerant system determines the floor area, and if the room to be conditioned by the system is less than that area, a "shut off valve kit" and a "gas sensor kit" must be installed.

Specifications

- **Model name**: UTY-SGZY

<table>
<thead>
<tr>
<th>Dimensions (H × W × D) (mm)</th>
<th>80 × 130 × 35</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight (g)</strong></td>
<td>500</td>
</tr>
</tbody>
</table>

Features: Gas sensor kit

Refrigerant leak detector connection pattern

1) Corresponds to the case where the classification of air conditioner installation differs from property to property.

Installation position of "Shut off valve kit"

- **A** Indoor unit 1-4 in one room
- **B** Indoor units 1, 2 and 3, 4, if they are set up in two separate rooms.
- **C** Indoor units 1-4 are installed in different rooms.

2) Multiple rooms or areas are air conditioned using ducted airflow paths

3) When operating multiple indoor units with a remote control group

Gas sensor kit

UTY-SGZY

Gas Sensor kit Used to ensure standards compliance and safety when R32 VRF products are installed.

*Connection cable (UTY-XWZXZL) is required.*
## Optional parts list for Split/Multi-split

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Picture</th>
<th>Option</th>
<th>Picture</th>
<th>Option</th>
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</thead>
<tbody>
<tr>
<td>Remote control RC</td>
<td>The remote sensor provides additional convenience.</td>
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<tr>
<td>Cassette grille</td>
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<td>Auto-door grille kit</td>
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<td>Fireproof panel</td>
<td>The fireproof panel provides additional protection.</td>
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</tbody>
</table>
### Optional parts list for VRF

<table>
<thead>
<tr>
<th>Optional parts</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Control system &amp; Optional parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor kit</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Flame</td>
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<td>Flange</td>
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<td>Wind Turbine</td>
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<td>Panel spacer</td>
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<tr>
<td>Panel 600</td>
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<tr>
<td>Indoor unit</td>
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<tr>
<td>Indoor unit</td>
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</tbody>
</table>

**Notes:**
- Optional parts can be added to enhance system functionality.
- Check the compatibility of parts with specific models before purchase.
- Consult the manufacturer for installation instructions and guidelines.

---

**Table Note:**
- Each category lists compatible parts for specific applications.
- Indoor and Outdoor units require specific components for proper functioning.
- Control system parts ensure remote monitoring and control.

---

**Diagram:**
- Visual representation of components and their connections.
- Helps in understanding the layout and placement of parts.
- Essential for effective installation and troubleshooting.

---

**References:**
- Manufacturer’s manual for detailed specifications.
- Local distributors for parts availability.
- Technical forums for community support and advice.
## Function list for Split/Multi-split

### External input and output function/External connect kit/Communication kit

<table>
<thead>
<tr>
<th>Type</th>
<th>Function List</th>
<th>Optional parts</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>External input and output function</td>
<td></td>
</tr>
<tr>
<td></td>
<td>External connect kit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Communication kit</td>
<td></td>
</tr>
</tbody>
</table>

### Communication System

<table>
<thead>
<tr>
<th>Communication kit</th>
<th>External input and output PCB</th>
<th>External input and output PCB box</th>
<th>External input and output PCB bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TWZX2</td>
<td>UTY-TWZX2</td>
<td>UTY-XC3SIM</td>
<td>UTZ-GXIA (for Duct) UTZ-GXEA (for Cassette)</td>
</tr>
<tr>
<td>UTY-TWZX2</td>
<td>UTY-TWZX29</td>
<td>UTY-XC3SIM</td>
<td>UTZ-GXIA (for Duct) UTZ-GXEA (for Cassette)</td>
</tr>
<tr>
<td></td>
<td>UTY-TWZX26</td>
<td></td>
<td>UTZ-GXIA (for Duct) UTZ-GXEA (for Cassette)</td>
</tr>
</tbody>
</table>

### External control set

<table>
<thead>
<tr>
<th>External control set</th>
<th>For indoor unit</th>
<th>For outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-XWZX25</td>
<td>UTY-XWZX26</td>
<td>UTY-XWZX22</td>
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<tr>
<td>UTY-XWZX27</td>
<td>UTY-XWZX28</td>
<td>UTY-XWZX23</td>
</tr>
</tbody>
</table>

---

**Notes:**
1. *Required as standard kits (UTY-TWZX2 or UTY-TWZX29)*
2. *Functionality for installation in a set unit only* 

---

*Dry Contact* or *Apply Voltage*
### Optional parts

#### CONTROL SYSTEM & OPTIONAL PARTS

* For VRF

**Optional parts**

- **External input and output function/External connect kit**

<table>
<thead>
<tr>
<th>Type</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Other</th>
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<tbody>
<tr>
<td>Input</td>
<td>UTZ-JXXA</td>
<td><strong>UTY-XWZXZC</strong></td>
<td><strong>UTY-XWZXZC</strong></td>
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<tr>
<td>Output</td>
<td>UTY-XWZXZL</td>
<td><strong>UTY-XWZXZD</strong></td>
<td><strong>UTY-XWZXZD</strong></td>
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</table>

**Communication system**

<table>
<thead>
<tr>
<th>For VRF</th>
<th>For indoor unit</th>
<th>For outdoor unit</th>
<th>For RB unit</th>
<th>Central remote controller</th>
<th>For Touch panel controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expansion kit</td>
<td><strong>UTY-XWZXZ7</strong></td>
<td><strong>UTY-XWZXZ6</strong></td>
<td><strong>UTY-XWZXZ6</strong></td>
<td><strong>UTY-XWZXZ6</strong></td>
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<tr>
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<td><strong>UTY-XWZXZB</strong></td>
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<tr>
<td>Communication system</td>
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</tbody>
</table>

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2. The Touch panel controller has the functions of dry contact and voltage application, but the external connection kit described above is not necessary because the touch panel controller has an external input terminal block.

---

<table>
<thead>
<tr>
<th>Type</th>
<th>Type</th>
<th>Type</th>
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<tbody>
<tr>
<td>Input</td>
<td>Output</td>
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</tr>
<tr>
<td>UTZ-JXXA</td>
<td><strong>UTY-XWZXZC</strong></td>
<td><strong>UTY-XWZXZD</strong></td>
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<td><strong>UTY-XWZXZD</strong></td>
<td><strong>UTY-XWZXZD</strong></td>
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**Communication system**

<table>
<thead>
<tr>
<th>For VRF</th>
<th>For indoor unit</th>
<th>For outdoor unit</th>
<th>For RB unit</th>
<th>Central remote controller</th>
<th>For Touch panel controller</th>
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<tbody>
<tr>
<td>Expansion kit</td>
<td><strong>UTY-XWZXZ7</strong></td>
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<td><strong>UTY-XWZXZB</strong></td>
<td><strong>UTY-XWZXZB</strong></td>
<td><strong>UTY-XWZXZB</strong></td>
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<td>Communication system</td>
<td><strong>UTY-XWZXZF</strong></td>
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<td><strong>UTY-XWZXZF</strong></td>
<td><strong>UTY-XWZXZF</strong></td>
</tr>
</tbody>
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* The Touch panel controller has the functions of dry contact and voltage application, but the external connection kit described above is not necessary because the touch panel controller has an external input terminal block.
Optional parts

**For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT**

<table>
<thead>
<tr>
<th>Separation tube</th>
<th>UTP-SK236A / UTP-SK244A for 3-phase simultaneous multi-split</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTP-SK222A</td>
<td>For simultaneous multi-split Twin/Triple/Double Twin</td>
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**Specifications**

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<td>Double type</td>
<td>Triple type</td>
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</table>

| Header | Model name | UTR-H0906L / UTR-H1806L UTR-H0908L / UTR-H1808L UTP-J0906A / UTP-J1808A |
|--------|------------|------------|------------|------------|
| Total cooling capacity of indoor unit (Q) kW | 8.0 Q | 8.0 Q | 8.0 Q | 8.0 Q |

<table>
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**Shut off valve kit**

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**RB unit**

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Residential

AIR TO WATER

W-002  AIR TO WATER Overview
W-004  AIR TO WATER Lineup
W-006  Benefits
W-008  Home Heating & Domestic Hot Water Supply
W-010  High Efficiency Technology
W-012  Split Type
   - Comfort Series
   - Super High Power Series
   - High Power Series
W-018  Split DHW Integrated Type
   - Comfort Series
   - Super High Power Series
   - High Power Series
W-024  Control Overview
W-026  Comfort Control
W-028  System Configuration
W-030  Case Studies
W-032  Simple installation
W-034  Easy Installation & Maintenance
W-034  Installation requirements
W-035  AIR TO WATER Optional Parts
AIR TO WATER Overview

Solutions that meet a variety of needs
Water heated by Air to water using clean energy is delivered reliably and comfortably throughout the house, including the living room.

Heat Pump System Framework
Heat is absorbed from the atmosphere by expanding the refrigerant. Higher-temperature heat is generated by compressing the refrigerant, and the indoor unit transfers that heat to the water.

Our Goal
Decarbonisation
European Commission is committed to decarbonisation and has a national target of “Net Zero” carbon emissions by 2050.

What is a heat pump?
A heat pump extracts heat energy from the atmosphere. It requires only 1 kW of electricity to generate 3 to 5 kW of thermal energy.

Primary energy usage reduced substantially
Proportion of primary energy converted into heating energy is 100%

Primary Energy Consumption*
- Direct electrical heating 271%
- Fuel boiler 117%
- Gas condensing boiler 109%
- Air to water 79%

* The amount of electricity loss varies according to the power plant. Typical energy efficiency of a power plant 39%
# AIR TO WATER Lineup

<table>
<thead>
<tr>
<th>Type</th>
<th>Split Type</th>
<th>Split DHW Integrated Type</th>
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<tbody>
<tr>
<td></td>
<td>Comfort Series</td>
<td>Super High Power Series</td>
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<tr>
<td>Hydraulic unit</td>
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<tr>
<td>Outdoor unit</td>
<td><img src="#" alt="Image" /></td>
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## System outline

- Supplies 55°C hot water even when the outdoor temperature is -10°C.
- Heating and DHW supply in one system.*
- Equipped with additional electric heater for backup
- Up to two independent control circuits.*
- Operating range is -20 to 35°C.
- Cooling operation is possible.*
- Operating range is -25 to 35°C.
- Can be used with a variety of heating systems, including underfloor heating and radiators.*

## Capacity range

<table>
<thead>
<tr>
<th>Capacity (KW)</th>
<th>Single phase, 230 V, 50 Hz</th>
<th>3-phase, 400 V, 50 Hz</th>
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* Please refer to page W-038 and W-039 for optional parts information.

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*Power source*:
- Single phase, ~230 V, 50 Hz
- 3-phase, ~400 V, 50 Hz

*Approval*:
- CEN KEYMARK
- EHPA
**Benefits**

**Less CO₂ Emissions**
Air to water is an environmentally friendly system that emits substantially less carbon dioxide than conventional gas and hydrocarbon combustion systems.

**Average annual CO₂ emissions**
- Direct electric heating: 960 kg/year
- Fuel boiler: 1100 kg/year
- Gas condensing boiler: 550 kg/year
- Air to water: 75 kg/year

*Calculations based on energy efficiency data provided by the European Programme for Energy Efficiency in BU 27. 88% for fuel boilers, 93% for gas boiler.

**Low Running Cost**
High-efficiency heat pump technology keeps the running cost of an Air to water system.

**Average annual running cost**
- Direct electric heating: €2,000/year
- Fuel boiler: €2,500/year
- Gas condensing boiler: €1,500/year
- Air to water: €750/year

*The running cost may vary depending on a system’s installation, geographical location, and operating conditions.

**Clean and Healthy**
As an Air to water system does not use a chimney to heat water, it does not produce NOx or other harmful substances.

**Easy Installation and Maintenance**
All components are built into a compact outdoor unit or a Hydraulic unit.

**Energy Efficiency Standards**

**Product labels**

**Space heaters**

**Combination heaters**

**The Ecodesign Directive Lot 1 Regulation 813/2013**
The Ecodesign directive defines a regulatory framework for improving the environmental performance of energy-related products (ErP) through design.

Since September 26, 2015, the Ecodesign Directive has applied to space heaters, including heat pumps and fossil fuel fired boilers, combination heaters for space and hot water heating, water heaters, and water storage tanks.

All of these products must meet minimum requirements for energy efficiency* and maximum sound power level. The minimum energy efficiency class were raised on September 26, 2017, and the maximum sound levels were lowered on September 26, 2018.

*Energy efficiency is expressed in terms of seasonal space heating efficiency (η).

**The Energy Labelling Directive (EU) No. 811/2013**
Energy Label is intended to enable consumers to make direct comparisons of energy use and product features. All labels should indicate the product identifier, efficiency class, sound power level, and heat output. Heat generators are rated A+++ to D. There are two different product labels. One for space heaters and one for combination heaters.

**The EHPA Quality Label**
Fujitsu General’s Air to water  has acquired the EHPA Quality Label* through testing in accordance with the International Standards EN14511 and EN1930. The EHPA-Quality Label is a label that shows the end-consumer a quality heat pump unit.

**SG ready Label**
SG ready is a label issued to heat pumps and the control technologies that meet the requirements set by DIN** and technologies that conform to EN standards can be integrated into a smart grid. SG ready labelled heat pumps connect signals from the grid guidance and PV operators with regards to energy and renewable energy sources such as wind, solar, and water. All of Fujitsu’s heat pumps series are SG ready compatible.

**The CEN Heat Pump KEYMARK**
The Heat Pump KEYMARK is a full certificate, independent, European certification mark (SG Type 5 Certification) for all heat pumps, combination heat pumps, and hot water heaters on the European market.

The Heat Pump KEYMARK is a voluntary, independent, European certification mark (SG Type 5 Certification) for all heat pumps, combination heat pumps, and hot water heaters on the European market. Fujitsu General’s Air to water has acquired the KEYMARK certificate*.

*EHPA International* (www.ehpa-international.org)
**DIN Certification**
Home Heating & Domestic Hot Water Supply

A wide range of products to suit regional characteristics, family structures, and usage patterns. We provide a variety of products to meet the needs of customers from the heating-centered High Power Series to the reasonably priced Compact Series.

Adopting R32 refrigerant

R32 refrigerant is an environmentally friendly refrigerant with a significantly lower Global Warming Potential (GWP) than conventional refrigerants.

Built-in DHW tank saves a great deal of space.

Existing boilers can be replaced easily. A higher heating capacity can be achieved with the flexibility to cascade more units.

+ DHW tank

A DHW tank (optional) can be connected to supply hot water.

+ Boiler

By combining with an existing boiler, powerful heating can be achieved even at low outdoor temperature.

Smart control

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

Floor heating and domestic hot water supply

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

 adopting R32 refrigerant

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Smart control

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

Floor heating and domestic hot water supply

Outdoor units and hydraulic indoor units can be installed flexibly and easily. Hydraulic units installed inside the house prevent the circulating water from freezing. More units can be cascaded together to provide a greater heating capacity with greater flexibility.*1

*1: High Power Series only

High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

+ DHW tank

A DHW tank (optional) can be connected to supply hot water.

+ Boiler

By combining with an existing boiler, powerful heating can be achieved even at low outdoor temperature.

Smart control

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

Floor heating and domestic hot water supply

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

* Please refer to page W-038 and W-039 for optional parts information.
High-Efficiency Technology

Twin-Rotary Compressor with Linear Control Injection Port

The compressor achieves a high condensing temperature without overheating the discharge gas temperature due to the Linear control injection process used during compression. This makes the condensing temperature higher than in a normal circuit. Higher water temperatures can be achieved by controlling the injection volume according to usage conditions.

DC inverter technology controls temperatures precisely.

High-durability coaxial heat exchanger

Stainless steel buffer tank

Heat exchange amount is 25% higher than the previous model. Energy-saving performance has also been improved.

- Anti-corrosion protection
- No flow switch required
- Anti-freeze protection not required

Class A Pump

Energy-saving pump with the ability to adjust the flow rate and pressure to a constant level.
High water flow temperature
The temperature of water flow is up to 55°C without a backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.

High COP
Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

DC Motor
High-performance, high-efficiency small DC fan motor mounted

DC Twin-Rotary Compressor
High-efficiency DC twin-rotary compressor

DC Inverter
DC inverter provides smooth water temperature control.

Hydraulic unit technology

Seasonal space heating energy efficiency ($h_s$)

Energy efficiency class
A+++

Outdoor unit technology

Hydraulic unit

Specifications

Dimensions

Hydraulic unit:
WSYA050ML3 / WSYA080ML3 / WSYA100ML3
Outdoor unit:
WOYA060KLT / WOYA080KLT / WOYA100KLT

Performance

Condition: Outdoor Temp. 7°C   Heating Temp. 35°C
η 998 mm
175%
**High water flow temperature**

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C. The system can supply 55°C water without a backup heater at an outdoor temperature of -22°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.

**High COP**

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

**Seasonal space heating energy efficiency (η)**

<p>| Conditions: Outdoor Temp. 7°C, Heating Temp. 35°C |</p>
<table>
<thead>
<tr>
<th>16°C Heating temp.</th>
<th>COP</th>
<th>η (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single phase 16 kW class</td>
<td>4.33</td>
<td>163%</td>
</tr>
<tr>
<td>3-phase 15 kW class</td>
<td>4.15</td>
<td>161%</td>
</tr>
</tbody>
</table>

* Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

**Operating range extended to -25°C**

Operating range improved down to -25°C outdoor temperature.

---

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Hydraulic unit WSYG160DJ6</th>
<th>WSYK170DJ9</th>
<th>Outdoor unit WOYG160LJL</th>
<th>WOYK150LJL</th>
<th>WOYK170LJL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>WSYG160DJ6</td>
<td>WSYK170DJ9</td>
<td>WSYK170DJ9</td>
<td>WOYG160LJL</td>
<td>WOYK150LJL</td>
</tr>
<tr>
<td><strong>Capacity range</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7°C/35°C floor heating</td>
<td>Heating capacity kW</td>
<td>16.00</td>
<td>15.00</td>
<td>17.00</td>
<td></td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td>Input power</td>
<td>3.86</td>
<td>3.46</td>
<td>4.10</td>
<td></td>
</tr>
<tr>
<td>COP</td>
<td>4.15</td>
<td>4.33</td>
<td>4.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2°C/35°C floor heating</td>
<td>Heating capacity kW</td>
<td>13.30</td>
<td>13.20</td>
<td>13.50</td>
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<tr>
<td>Heating capacity kW</td>
<td>Input power</td>
<td>4.25</td>
<td>4.06</td>
<td>4.27</td>
<td></td>
</tr>
<tr>
<td>COP</td>
<td>3.13</td>
<td>3.25</td>
<td>3.16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-7°C/35°C floor heating</td>
<td>Heating capacity kW</td>
<td>14.50</td>
<td>13.20</td>
<td>15.00</td>
<td></td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td>Input power</td>
<td>5.27</td>
<td>4.55</td>
<td>5.32</td>
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<tr>
<td>COP</td>
<td>2.75</td>
<td>2.90</td>
<td>2.82</td>
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<tr>
<td>-7°C/55°C Radiator</td>
<td>Heating capacity kW</td>
<td>10.90</td>
<td>13.20</td>
<td>14.20</td>
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<td>Heating capacity kW</td>
<td>Input power</td>
<td>5.89</td>
<td>6.77</td>
<td>7.40</td>
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<tr>
<td>COP</td>
<td>1.85</td>
<td>1.95</td>
<td>1.92</td>
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<tr>
<td><strong>Space heating characteristics</strong></td>
<td></td>
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<tr>
<td>Temperature application °C</td>
<td>55</td>
<td>35</td>
<td>55</td>
<td>35</td>
<td>55</td>
</tr>
<tr>
<td>Energy efficiency class</td>
<td>A++</td>
<td>A++</td>
<td>A++</td>
<td>A++</td>
<td>A++</td>
</tr>
<tr>
<td><strong>Rated heat output (P rated)</strong> kW</td>
<td>14</td>
<td>16</td>
<td>16</td>
<td>17</td>
<td>17</td>
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<tr>
<td><strong>Seasonal space heating energy efficiency (η)_S</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Conditions: Outdoor Temp. 7°C, Heating Temp. 35°C</td>
<td>125%</td>
<td>163%</td>
<td>130%</td>
<td>164%</td>
<td>130%</td>
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<tr>
<td><strong>Annual energy consumption kWh</strong></td>
<td>8,757</td>
<td>8,014</td>
<td>9,915</td>
<td>8,606</td>
<td>10,232</td>
</tr>
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<td><strong>Sound power level</strong> Hydraulic unit dB(A)</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>67</td>
<td>66</td>
<td>67</td>
<td>66</td>
<td>67</td>
</tr>
<tr>
<td><strong>Hydraulic unit specifications</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power source</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td>3-phase, ~400 V, 50 Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions H × W × D mm</td>
<td>805 × 450 × 471</td>
<td>805 × 450 × 471</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (Net) kg</td>
<td>52.5</td>
<td>52.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water circulation</strong> Min./Max. L/min</td>
<td>26.4/57.8</td>
<td>24.0/54.2</td>
<td>27.3/61.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Buffer tank capacity</strong> L</td>
<td>22</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Expansion vessel capacity</strong> L</td>
<td>10</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water flow temperature range</strong> Max. °C</td>
<td>60</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Connection pipe</strong> Diameter Liquid mm</td>
<td>Ø9.52</td>
<td>Ø9.52</td>
<td>Ø9.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gas</strong> Ø15.88</td>
<td>Ø15.88</td>
<td>Ø15.88</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Backup heater</strong> Capacity kW</td>
<td>6.0 (3.0 kW × 2 pcs.)</td>
<td>9.0 (3.0 kW × 3 pcs.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Dimensions**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Outdoor unit: WOYG160LJL</th>
<th>WOYK150LJL</th>
<th>WOYK170LJL</th>
<th>Hydraulic unit: WSYG160DJ6</th>
<th>WSYK170DJ9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Outdoor unit</strong></td>
<td>5-phase: WOYG160LJL</td>
<td>WOYK150LJL</td>
<td>WOYK170LJL</td>
<td>Single phase: WSYG160DJ6</td>
<td>WSYK170DJ9</td>
</tr>
<tr>
<td><strong>Dimensions (Unit: mm)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top view</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Side view</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Connection pipe</strong> Diameter Liquid mm</td>
<td>Ø9.52</td>
<td>Ø9.52</td>
<td>Ø9.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gas</strong> Ø15.88</td>
<td>Ø15.88</td>
<td>Ø15.88</td>
<td>Ø15.88</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Length Min./Max. m</strong></td>
<td>5/30</td>
<td>5/30</td>
<td>5/30</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Length (Pre-charge) m</strong></td>
<td>15</td>
<td>15</td>
<td>15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Hydraulic unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WSYG140DG6</td>
<td>WOYG112LHT</td>
</tr>
<tr>
<td></td>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td></td>
<td>WSYG140DG6</td>
<td>WOYG140LCTA</td>
</tr>
<tr>
<td></td>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td></td>
<td>WSYK160DG9</td>
<td>WOYK112LCTA</td>
</tr>
<tr>
<td></td>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td></td>
<td>WSYK160DG9</td>
<td>WOYK140LCTA</td>
</tr>
<tr>
<td></td>
<td>3-phase</td>
<td>3-phase</td>
</tr>
<tr>
<td></td>
<td>WSYK160DG9</td>
<td>WOYK160LCTA</td>
</tr>
</tbody>
</table>

#### Capacity range

- **Capacity kW**
  - Single phase: 10.80, 13.50, 15.17
  - 3-phase: 10.77, 12.00, 13.50
  - 3-phase: 10.38, 11.54, 13.50

- **Input power (kW)**
  - Single phase: 2.54, 3.23, 3.20
  - 3-phase: 3.44, 3.87, 4.15
  - 3-phase: 4.32, 5.08, 5.13

- **COP**
  - Single phase: 4.25, 4.18, 4.22
  - 3-phase: 3.13, 3.10, 3.13
  - 3-phase: 2.40, 2.27, 2.38

#### Temperature application

- **Heating temp. 35°C**
  - Single phase: 55°C, 35°C, 55°C
  - 3-phase: 55°C, 35°C, 55°C
  - 3-phase: 55°C, 35°C, 55°C

#### Energy efficiency class

- **A**
- **A++**

#### Sound power level

- **Hydraulic unit**
  - Single phase: 46 dB(A)
  - 3-phase: 46 dB(A)

- **Outdoor unit**
  - Single phase: 68 dB(A)
  - 3-phase: 69 dB(A)

### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Unit: mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor</td>
<td>Single phase: 780 × 547</td>
</tr>
<tr>
<td>Outdoor</td>
<td>Single phase: 900 × 330</td>
</tr>
<tr>
<td>Weight</td>
<td>Single phase: 42 kg</td>
</tr>
<tr>
<td><strong>Buffer tank capacity</strong></td>
<td>16 L</td>
</tr>
<tr>
<td><strong>Expansion vessel capacity</strong></td>
<td>8 L</td>
</tr>
<tr>
<td><strong>Water pipe connection diameter</strong></td>
<td>Ø25.4/Ø25.4</td>
</tr>
<tr>
<td><strong>Backup heater</strong></td>
<td>Capacity kW: 6.0 (3.0 kW × 2 pcs.)</td>
</tr>
</tbody>
</table>

### Energy efficiency

- **Seasonal space heating energy efficiency (η)**
  - Conditions: Outdoor Temp. 7°C, Heating Temp. 35°C
  - Single phase: 4.25, 151%
  - 3-phase: 4.30, 151%

### High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

### High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

---

**Note:**

1. Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

2. Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search
High water flow temperature

The temperature of water flow is up to 55°C without a backup heater. Hot water supply temperature can be maintained even at -30°C outdoor temperature.

* If you want to raise the temperature of the water supply to above the maximum heater. Hot water supply temperature can be maintained even at -30°C outdoor temperature.

High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

> Energy efficiency class

A+++ A+++ A++ A++

Seasonal space heating energy efficiency ($\eta$)

<table>
<thead>
<tr>
<th>Condition: Indoor Temp.</th>
<th>Heating capacity kW</th>
<th>COP</th>
<th>$\eta$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating °C -20 to 35</td>
<td>3.0</td>
<td>4.74</td>
<td>175%</td>
</tr>
<tr>
<td>Heating °C -20 to 35</td>
<td>3.0</td>
<td>4.43</td>
<td>177%</td>
</tr>
<tr>
<td>Heating °C -20 to 35</td>
<td>3.0</td>
<td>4.50</td>
<td>178%</td>
</tr>
</tbody>
</table>

DC Fan Motor

High-performance, high-efficiency small DC fan motor mounted.

DC Twin-Rotary Compressor

High-efficiency DC twin-rotary compressor.

DC Inverter

DC inverter provides smooth water temperature control.

Outdoor unit technology

Hydraulic unit: WGYA050ML3 / WGYA080ML3 / WGYA100ML3

Outdoor unit: WOYA060KLT / WOYA080KLT / WOYA100KLT

Specifications

<table>
<thead>
<tr>
<th>Dimensions (H × W × D mm)</th>
<th>Outdoor unit specifications</th>
<th>Hydraulic unit specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOYA060KLT</td>
<td>632 × 799 × 290</td>
<td>1,863 × 648 × 700</td>
</tr>
<tr>
<td>WOYA080KLT</td>
<td>632 × 799 × 290</td>
<td>1,863 × 648 × 700</td>
</tr>
<tr>
<td>WGYA080ML3</td>
<td>716 × 820 × 315</td>
<td></td>
</tr>
<tr>
<td>WGYA100ML3</td>
<td>998 × 940 × 320</td>
<td></td>
</tr>
</tbody>
</table>

Refrigerant Type (Global Warming Potential) R32 (675)

Weight (Net) kg

Outdoor unit: 39 39 42 62

Current Max. A

Outdoor unit: 13.0 13.0 18.0 19.0

Max. °C

Outdoor unit: 55 55 55 55

Buffer tank capacity L

Outdoor unit: 16 16 16 16

Electrical heater capacity Heating kW

Outdoor unit: 3.0 3.0 3.0 3.0

DHW capacity L

Outdoor unit: 190 190 190 190

Dimensions H × W × D mm

Outdoor unit: 1,863 × 648 × 700

Hydraulic unit: 1,863 × 648 × 700

Hydraulic unit: 1,863 × 648 × 700

Hydraulic unit: 1,863 × 648 × 700

Hydraulic unit: 1,863 × 648 × 700

DC Inverter provides smooth water temperature control.
Operating range extended to -25°C
Operating range improved down to -25°C outdoor temperature

High water flow temperature
The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C. The system can supply 55°C water without a backup heater at an outdoor temperature of -22°C.

High COP
Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Operating range improved down to -25°C outdoor temperature

Seasonal space heating energy efficiency (η)
Conditions: Outdoor temp. 7°C  Heating temp. 35°C

Energy efficiency class
A++

COP
4.33

COP
4.15

3-phase
15 kW class.

Single phase
16 kW class.

Stylish space saving solution with Built-in High-performance DHW tank 190 L

 Coil heat exchanger optimizes DHW supply performance.

Temperature rises quickly due to the large surface of the exchanger.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Outdoor unit</th>
<th>Outdoor unit</th>
<th>Outdoor unit</th>
<th>Outdoor unit</th>
<th>Outdoor unit</th>
<th>Outdoor unit</th>
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<td>DHW tank capacity</td>
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<td>190</td>
<td>190</td>
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<td>Water circulation Min./Max. L/min</td>
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<td>26.4/57.8</td>
<td>24.0/54.2</td>
<td>27.3/61.4</td>
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</tr>
<tr>
<td>Buffer tank capacity</td>
<td>L</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td></td>
<td>14.50</td>
<td>13.20</td>
<td>15.00</td>
<td></td>
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</tr>
<tr>
<td>Electrical heater capacity Heating kW</td>
<td></td>
<td>6.0 (3.0 kW × 2 pcs.)</td>
<td>9.0 (3.0 kW × 3 pcs.)</td>
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<td></td>
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<tr>
<td>Expansion vessel capacity L</td>
<td></td>
<td>12</td>
<td></td>
<td></td>
<td></td>
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<td>Power source Single phase, ~230 V, 50 Hz</td>
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<td>Power source 3-phase, ~400 V, 50 Hz</td>
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<tr>
<td>Refrigerant Type (Global Warming Potential)</td>
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<td>R410A (2,088)</td>
<td>R410A (2,088)</td>
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<tr>
<td>Dimensions H × W × D mm</td>
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<td>1,841 × 648 × 698</td>
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</tr>
<tr>
<td>Dimensions H × W × D mm</td>
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<td>1,428 × 1,080 × 480</td>
<td>1,428 × 1,080 × 480</td>
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<tr>
<td>Dimensions H × W × D mm</td>
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<td>1,428 × 1,080 × 480</td>
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<tr>
<td>Dimensions H × W × D mm</td>
<td></td>
<td>1,428 × 1,080 × 480</td>
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</table>
High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.

High COP

Heat pumps of ATW Systems work more efficiently and consume less energy than conventional heating systems.

Seasonal space heating energy efficiency (η)

| Conditions: Outdoor Temp. 7°C  Heating Temp. 35°C |
|  | Single phase | 3-phase |
| Heating capacity | 151% | 154% |
| COP | 4.25 | 4.30 |

Optimized refrigerant cycle operation

The High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.

* Temperature application: Heating temp. 35°C
**Comfort Control**

The high-grade heating controller automatically adjusts the flow temperature according to the climate conditions to maintain the room and domestic hot water temperatures at the desired levels.

### Useful Features

**Automatic heating curve control**
Automatic temperature regulation according to heating curve (depending on heating terminal and outdoor temperature)

**Auto changeover**
When cooling mode is selected, the system automatically switches between cooling and heating modes depending on the outdoor temperature to serve as an all-season air conditioner.

**2-zone independent control**
2-zone independent control (For example, the individual control of 2 underfloor heating zones or the combination of 1 underfloor heating zone and 1 radiator zone)*1

*1: Optional parts required

**Quick recovery from defrosting**
Maintains room temperature by boost start operation during defrosting.

### Energy Saving

**Time program**
- The timer is easy to set.
- You can select the heating mode in conjunction with various times of the day.

**Day-weekly timer**
- Allows up to 3 settings per day.
- Allows individual settings for each day of the week.

**Holiday timer**
- Allows up to 8 settings.
- While you are away from home for an extended period during winter, the system prevents your room or house from freezing.

**Peak cut Function**
Sets the peak current value to reduce power consumption.

**Safety Features**

**Anti-Legionella function**
Prevents the growth of Legionella bacteria in the DHW tank to supply safe and clean hot water at all times.

**Backup heater**
Backup heater maintains a comfortable room temperature even when the outside temperature is low. The backup heater is intelligently controlled as a safety backup for very cold days and nights, and only operates when really needed.

**Error and Maintenance Alarm**
Enables quick error-handling services and maintenance.

This page includes diagrams and tables to illustrate the features and functions of the heating controller.
Simple installation

Presetting configurations
A controller installed makes it easy to configure the system without having to set each component or unit individually.

Outdoor temperature simulation
It verifies that each unit operates properly under the set conditions and expected outdoor air temperature when the system is actually assembled.

Concrete floor drying
Allows the concrete surrounding the hot water pipes to dry more quickly, shortening the construction period for underfloor heating installations.

Controller with a large liquid crystal display and buttons for easy function setting

Easy Installation & Maintenance

- All hydraulic safety and control components are built in with no additional selection required.
- Lifting bars for installation free of difficulty or risk
- Easy access for maintenance
- Refrigerant pump down operation

Maintenance Support
Diagnostics functions for troubleshooting

How to check for the errors displayed:

- If an error occurs, the green and red LEDs will blink along with the cause of the error.

- Press “Info” button

- LED 2 (GREEN)

- LED 1 (RED)

- Error display

- Error code

- Error designation

- Clear text info (UART)

Errors displayed:
- If an error occurs, the green and red LEDs will blink along with the cause of the error.

- LED 2 (GREEN)

- LED 1 (RED)

- Error code

- Error designation

- Clear text info (UART)

- Check the error code table

- Error display

- Error code

- Error designation

- Clear text info (UART)

- Error code

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Installation requirements

Installation of equipment & electrical wiring

Split type Hydraulic unit
- The Hydraulic unit is hung on the wall.
- Weight: 88 kg (including water)
- Space for maintenance needs to be taken into consideration.

Split DHW Integrated Type Hydraulic Unit
- Floor standing
- Weight: 393 kg (including water)
- Space for maintenance needs to be taken into consideration.

Piping and Wiring Split type

<table>
<thead>
<tr>
<th>Series</th>
<th>Capacity range (kW)</th>
<th>Pipe diameter (Liquid/Gas)</th>
<th>H1 (m)</th>
<th>H2 (m)</th>
<th>L (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R32 Comfort</td>
<td>5, 6, 8</td>
<td>6.35/12.70, 8.00</td>
<td>+20</td>
<td>+20</td>
<td>3-30</td>
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<tr>
<td>High Power</td>
<td>10, 10</td>
<td>8.00</td>
<td>+15</td>
<td>+15</td>
<td>5-20</td>
</tr>
<tr>
<td>Super High Power</td>
<td>15, 15</td>
<td>8.00</td>
<td>+15</td>
<td>+15</td>
<td>5-30</td>
</tr>
</tbody>
</table>
System Configuration

Split Type

- **Basic unit**
- **Heat pump**
  - Super High Power Series
    - WSYG140DJ6
    - WSYG160DJ6
  - High Power Series
    - WSYG140DG6
    - WSYG160DG9
  - Comfort Series
    - WSYGA050ML3
    - WSYGA080ML3
    - WSYGA100ML3

- **System Components (Optional Parts)**
  - Room thermostat
  - Wired remote controller
  - Wireless remote controller
  - Web server

- **Remote controller**
  - Cable
  - Plumbing and wiring

- **Heating & Hot Water (Locally available)**

- **Cascade Kit**
  - UTW-KCMXE (for master)
  - UTW-KCSXE (for slave)
  - *High Power Series only

- **Second circuit kit**

- **DHW Tank**
  - Locally available

- **Internet**

- **附属组件**
  - Boiler (Locally available)
  - Second circuit kit
  - Boiler connection kit & Balancing vessel
  - Cascade kit
  - Web server

- **Wired remote controller**
  - Room thermostat

- **Wireless remote controller**
  - Room thermostat

- **Remote controller**
  - Cable
  - Plumbing and wiring

- **Heating & Hot Water (Locally available)**

Split DHW Integrated Type

- **Basic unit**
- **Heat pump**
  - Super High Power Series
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  - Room thermostat

- **Remote controller**
  - Cable
  - Plumbing and wiring

- **Heating & Hot Water (Locally available)**

*Regulation extension kit required.
Case Studies

Split Type

2-emitter simultaneous heating (Individual control)
Underfloor heating + Radiator

Boiler connected to heating (Boiler + Heating)

2-emitter simultaneous heating &
domestic hot water supply (Cascade)

Split DHW Integrated Type

Single heating & domestic hot water supply
Radiator + domestic hot water supply

2-emitter simultaneous heating (Individual control) &
domestic hot water supply
Radiator + domestic hot water supply

Boiler connected to heating (Boiler + Heating)
and domestic hot water supply

*The hydraulic layouts shown are mainly representation. Please check with local dealer for actual hydraulic connections.*
Control Overview

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

Individual Control

- Wireless room thermostat (option) UTW-C58XA
- Wired room thermostat (option) UTW-C55XA
- Wired remote controller (option) UTW-C74TXF*1 UTW-C74HXF*1

Adapters for external devices

- Web server (option) UTW-KW1XD UTW-KW4XD
- MODBUS® clip (option) UTW-KMBXJ*2

Hydraulic unit Controller

- Easy-to-set operation modes
  - Selecting the heating mode and domestic hot water (DHW) operation
- Large liquid crystal display
  - Shows operation status
  - Shows error messages
  - Messages in plain text
- Navigation and setting
  - Select from heating menu
  - Setting Time program

Service & Maintenance Tool

- Service tool (option)
- Web server (option) UTW-KW1XD UTW-KW4XD
- LPB clip (option) UTW-KL1XD

* Please refer to pages W-036 and W-039 for system compatibility information.
Optional Parts Overview

Various optional parts are available to use ATW according to needs and environments.

**for Locally units**

- **Second circuit Kit**
  UTW-KZanke**
  It can supply hot water at different temperatures to each two types of heating equipment, such as radiators and underfloor heating.

- **Boiler connection kit**
  UTW-KSDXE**
  UTW-KSDXJ
  It can build hybrid systems using both boilers and heat pumps. Boiler and heat pumps are switched according to outside air temperature.

- **DHW kit**
  UTW-KZDXX (External)
  Required to connect locally purchased DHW tanks to air to water.

- **DHW tank**
  200 Liters: UTW-T20AXH / UTW-T20BXH
  300 Liters: UTW-T30AXH / UTW-T30BXH
  The BXH series is a more efficient tank than the AXH series.

- **DHW expansion kit**
  UTW-KZDXE
  UTW-KDXJ
  The expansion vessel is for connection to DHW water piping.

**for DHW**

**for Outdoor unit**

- **DHW kit**
  UTW-KDXXE (External)
  Required to connect locally purchased DHW tanks to air to water.

- **DHW tank**
  200 Liters: UTW-T20AXH / UTW-T20BXH
  300 Liters: UTW-T30AXH / UTW-T30BXH
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- **DHW expansion kit**
  UTW-KZDXE
  UTW-KDXJ
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**for Hydraulic unit**

- **Circulating pump**
  UTW-PHXXG
  The high-output pump for replacement of the standard pump in the hydraulic unit. It can be used in properties with longer and more complex water piping.

- **Cascade master/slave kit**
  Up to 3 hydraulic units can be connected for large-capacity use. It is need to install a primary kit in one unit and a secondary kit in one or two other units.

- **Cooling kit**
  Required when using ATW also for cooling operation.
  It is used to prevent condensation occurring in the indoor unit.

- **Drain pan**
  UTW-KLXXX
  It is used to collect and drain condensation water generated by outdoor units.

- **External connect kit**
  UTW-XWXXJ
  UTW-XWXXZ
  The signal input (low noise mode, peak cut) and signal output (compressor operation, base pan heater control) for outdoor units are possible externally.

**for Locally units**

- **Electrical backup heater relay**
  UTW-KBXXL
  It allows the backup heater for heating at 3 kW as standard can be used at 6 kW.

- **Cascade master kit**
  UTW-KCLX
  (incl. LPB clip)

- **Cascade slave kit**
  UTW-KCLE
  (incl. LPB clip)

- **Boiler connection kit**
  UTW-KBSXXJ
  UTW-KBSXJ

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## Optional Parts List

### Table: Optional Parts List

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Model Name</th>
<th>High Type</th>
<th>High Power</th>
<th>BSR Control</th>
<th>Pre-Set</th>
<th>Split (SRW) Type</th>
<th>Max Power</th>
<th>ESI Control</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>FF</td>
<td>HT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- The LPB clip is required for the connection.
- The DHW kit is required for the connection.
- The Web server is required for the connection.
- The heater relay is required for the connection.
- The cascading kit is required for the connection.

### Optional Parts List Diagram

- **HMI kit**
  - [HMI kit](#)
  - UTW-KW1XD or UTW-KW4XD (Web server) is required for the connection.

- **Remote controller**
  - [Remote controller](#)
  - UTW-CNT200

- **Basin thermostat**
  - [Basin thermostat](#)
  - UTW-CS60A

- **Outdoor sensor transmitter**
  - [Outdoor sensor transmitter](#)
  - UTW-MG400

- **RF modules**
  - [RF modules](#)
  - UTW-MR800

- **Web server**
  - [Web server](#)
  - UTW-KW400A

- **LPR clip**
  - [LPR clip](#)
  - UTW-KL1XD

- **MO200P/LP clip**
  - [MO200P/LP clip](#)
  - UTW-KR400B

- **Service tool (inc. UFT102 Adapter)**
  - [Service tool (inc. UFT102 Adapter)](#)
  - UTW-KST2D

- **Service tool software**
  - [Service tool software](#)
  - UTW-KJPS2D

- **External connect kit**
  - [External connect kit](#)
  - UTW-YKMO2CC2

- **External backup heater relay**
  - [External backup heater relay](#)
  - UTW-KWRH1

### Available vs. Not Available
- Available — Not Available

---

**Notes:**
- UTW-KBXL (Cascade slave kit) includes LPB clip.
- UTW-KCSXE (Balancing vessel) includes LPB clip.
- UTW-K225 (Cascade master kit) includes LPB clip.
- UTW-K225 (Cascade slave kit) includes LPB clip.
- UTW-K225 (Balancing vessel) includes LPB clip.
- Includes 21 languages with no need to prepare an RC for Eastern Europe separately.
- Split DHW integrated type supplies DHW without the DHW kit and DHW tank.
- UTW-KL1XD (LPB clip) is required for the connection.
- UTW-KW1XD or UTW-KW4XD (Web server) is required for the connection.
Our knowledgeable sales and service representatives assist you, from product selection to installation and maintenance.

<table>
<thead>
<tr>
<th>Category</th>
<th>Information material</th>
<th>Tool</th>
</tr>
</thead>
<tbody>
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<td>Product training</td>
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<tr>
<td>Installation</td>
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<tr>
<td>After-sales service</td>
<td>After-sales service</td>
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SUPPORT

Sp-002 VRF Support
Sp-004 HVAC system design Support Tool
Sp-006 Air To Water Support Tool
Sp-008 Quick Service & Maintenance
Sp-010 Service monitoring tool
Sp-012 Service Tool
Sp-013 Web monitoring tool

Service & Support Website
www.fujitsu-general.com/global/support/
VRF Support

Fujitsu General provides engineers and consultants with a wide range of product and technical information. In addition, we conduct research on new products and support design activities. We provide a wide range of support services from design to installation to maintain high quality.

Technical information

We provide equipment selection software that facilitates the design of air conditioning systems by providing performance data for the units and estimation for model selection.

Features
• Design & Technical manuals
• Model selection & estimation
• Certification data
• 2D/3D CAD data

Product information

Information on new models is provided in the form of documents and movies in a timely manner for release, readily downloadable from the private section of our website. Contact your Fujitsu General representative for access information.

Features
• Product news
• Brochures & manuals
• Promotional movies

Technical support

Technical support is offered at every stage, from design through to installation, to assist in optimizing air conditioning solutions.

Features
• CFD simulation
• Guidelines
• Commissioning support

Fujitsu General regularly provides professional product, technical and service training at its training facilities worldwide. These research facilities also support the development of human resources with advanced technical skills.

Features
• Designing VRF systems
• On-site training for control systems

https://www.fujitsu-general.com/eu/support/downloads/vrf/
HVAC system design
Support tool

Put the charts and pens away and design your projects on a computer using the Design simulator. Everything from selecting indoor and outdoor units, allocating controls and optional parts through to designing the piping and wiring systems is made easier using the program’s built-in features.

Once the project design is complete, the Export function makes it easy to generate material lists, product specifications, and refrigerant calculations, and more. You can also export in Word, Excel, and Acrobat formats, as well as group CAD data related to your project.

**Design simulator**

- Automatically create model selection information
  - The required performance, type, and temperature conditions for each indoor unit are entered and then dragged and dropped onto the outdoor unit to automatically set each unit.
  - Creates piping and wiring diagrams automatically to facilitate branching, grouping, and option settings.
  - The additional refrigerant charging is automatically calculated when the pipe length is entered.
  - Easy configuration of remote controller groups, central controller, and converters.
  - The equipment list including the equipment information is created automatically.

- Outputs in the format that matches the application
  - You can export your project information in a number of industry standard file formats.
    - Word format (rtf) (doc)
    - Excel format (csv)
    - Acrobat format (pdf)
    - 2D CAD data (DXF)

- Update your Design simulator
  - The database can be updated easily online with the AutoUpdate function using FTP.

**BIM**

Building information modeling

BIM files of Fujitsu General’s products are available on BIMobject®

Fujitsu General is releasing BIM files of our products on the BIMobject® website BIMobject.com.

Outline of BIMobject®

BIMobject® is a game changer for the construction industry, offering development, maintenance, and syndication of objects on the world’s largest BIM platform.

About BIM files

- BIM files can be viewed in Autodesk Revit® 2018 version or later.
- In each BIM file, the location of the connectors for the refrigerant and drain pipe is different.
- Each BIM file includes several family types.
- A catalog and specification sheet is available in Revit file format for each product.

**BIM files of Fujitsu General’s products are available on BIMobject®**

**RFA (Revit data)**
A data format available for BIM-designed projects

**DWG**
A standard data format used for Autodesk products

**DXF**
Intermediate data commonly available in CAD products

Data content

- Shape (Size)
- Drain direction
- Pipe direction
- Power supply location
- It contains information about the above specifications.

To learn more about how to use BIM files, refer to the instructional videos on each product page.

[link](youtu.be/wfL-hwFQ7dM)

**Outlines of BIMfiles**

- **Data content**
  - Shape (Size)
  - Drain direction
  - Pipe direction
  - Power supply location
  - It contains information about the above specifications.

- **RFA (Revit data)**
  - A data format available for BIM-designed projects

- **DWG**
  - A standard data format used for Autodesk products

- **DXF**
  - Intermediate data commonly available in CAD products
Air To Water (ATW) Support tool

Fujitsu General’s software for ATW automatically creates a combination of ATW equipment by simply providing a few parameters. Supports multiple languages with an automatic update function.

**Air To Water proposer**

Selecting models with detailed technical information

- Simply enter the region where the equipment will be installed, the required heating capacity, the method of heating and other factors, and the software will select the appropriate equipment automatically.

* From now on, the name will be changed to the new name above.
The current name is WATERSTAGE Proposer.

![Image of ATW proposer interface]

The selected unit can be modified after reviewing the overall system configuration. The images and the list of devices are displayed at the same time, helping to avoid mistakes in device selection.

**Air To Water Package label creator**

Download Energy labels and Fiches from our website

ERP documents such as Energy labels, Product fiches, Package labels, Package lists, Information sheets, and EC Declarations can be searched for and downloaded from our website. We will also provide an online service in the future so that installers can easily create various package labels and package fiches for different models.

* From now on, the name will be changed to the new name above.
The current name is WATERSTAGE Package label creator.

![Image of Energy label and Fiche]

Sp-006 Sp-007
Quick service & maintenance

In the unlikely event that a problem should occur with the unit or system, a wide variety of support tools are available to assist with prompt service and maintenance anytime, anywhere, including error code displays on the product, service tools to check the detailed status of the entire system, and remote monitoring tools using the internet.

Easy maintenance & monitoring

Designed for easy maintenance

The operating status of the air conditioner and detailed trouble conditions are displayed on the 7-segment indicator lamp on the outdoor unit printed circuit board (PCB) and on the screen of the remote controller. Check the status of the unit quickly for a prompt response.

- Display the operation mode at the time
- Discharge temperature and pressure
- Compressor operation status
- “Address/Type/Number” of the outdoor unit
- Error code

Error diagnosis by Service tool

Connect Service tool to check the status details of units, from single split to VRF, on a computer screen. Check the errors quickly for prompt countermeasures.

- Operating status/control
- Monitoring operating conditions
- Monitoring sensor data
- Indicating trend graphs
- Error history
- Indicating refrigerant circuit diagrams (for VRF)

Service monitoring tool

We will release an App for troubleshooting tools for iPhone, iPod touch and other Apple devices, and Android products for Fujitsu General air conditioners (Room air conditioner/ Packaged air conditioners VRF and ATW, “AIRSTAGE Mobile”, and R32 calculation of allowable refrigerant capacity)

Use Error Code Check, Troubleshooting, and Sensor Check to understand the status of your air conditioner.

Mobile troubleshooting App for iOS and Android™ devices

Service monitoring tool for Single split, Multi-split & Air to water

Mobile Technician

FREE

UTY-ASGXZ1

Software

Internet or landline Web Monitoring Tool

UTY-AMGXZ1

Remote Monitoring Sof tware

UTY-ASSX (Communication box and Software)

VRF system operating status and trouble status details can be monitored remotely at any time via the internet. Prompt coordination is available with service personnel.

Dimensions (H × W × D) [mm]

<table>
<thead>
<tr>
<th>Dimension</th>
<th>UTY-ASX200</th>
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</thead>
<tbody>
<tr>
<td>Height</td>
<td>600 - 1000</td>
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<tr>
<td>Weight</td>
<td>300</td>
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</table>

Actual operating conditions

Graphs

Operational histories

Mobile Technician

FREE

UTY-ASGXZ1

Software

Internet or landline Web Monitoring Tool

UTY-AMGXZ1

Remote Monitoring Sof tware

UTY-ASSX (Communication box and Software)
AIRSTAGE Service Monitor Tool for Single-split, Multi-split, Air to water

New application with simple design
New application for smart devices has been released. The stylish design makes the application easy to use for everyone.

Refrigerant cycle diagram display
The operating status can be displayed with a simple, clear diagram on the smart device. It reduces the time for diagnosis and makes diagnosis easier. It can complement abundant experience and advanced knowledge of refrigerant cycle. This shortens the training time for service personnel.

*2 List and graph displays are also available.

Specifications

<table>
<thead>
<tr>
<th></th>
<th>UTY-ASSXZ1</th>
<th>UTY-AXS1</th>
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</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>20 x 35 x 60 (adapter)</td>
<td>60</td>
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<tr>
<td>Communication cable (cm)</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>25 (adapter)</td>
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<tr>
<td>Communication method</td>
<td>Bluetooth 5.3</td>
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<tr>
<td>Max. communication distance (m)</td>
<td>10*3</td>
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<tr>
<td>Compatible device</td>
<td>Android 8.0 or above</td>
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Function List

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<tr>
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<th>UTY-ASSXZ1</th>
<th>UTY-AXS1</th>
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</thead>
<tbody>
<tr>
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<td>Multi-split</td>
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<tr>
<td>Signal type distinction</td>
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<td></td>
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<tr>
<td>Operating status</td>
<td>List</td>
<td>List</td>
</tr>
<tr>
<td>Refrigerant cycle</td>
<td>List</td>
<td>Graph</td>
</tr>
</tbody>
</table>

Improved work efficiency
AIRSTAGE Service Monitor Tool can diagnose the cause of the error for a wide range of products. It makes maintenance or service support faster and can also reduce the number of visits and maintenance costs.

Bluetooth communication
AIRSTAGE Service Monitor Tool can diagnose by the smart device*1 and reduce the working time compared with diagnosis by PC. No need to connect a PC makes diagnosis easier even in narrow spaces.

Compact and lightweight design
New model is easy to carry by compact and lightweight design. The service personnel can visit the maintenance site with small luggage.

*1 Android only. You need to install the “AIRSTAGE Service Monitor Tool” app on your smart device.

*2 The values in the pictures are examples.
Service tool
UTY-ASGXZ1

Extensive monitoring and analysis functions that make installation and maintenance easier

- The operation status of the system can be monitored and analyzed to detect any malfunctions.
- Data on the operation status of the system can be stored on a computer to allow for remote access.
- Up to 400 indoor units in a single VRF network system can be controlled and monitored for a large building or hotel.
- This software can be connected to any point of transmission line with a USB adapter (locally available).

* Prior software applications cannot be displayed.

1. USB port for U10 USB Network interface and software protection key

2. Interface

- 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])
- 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
- Microsoft® Windows® 10 Pro (32-bit or 64-bit)
- Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
- Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1

- Requires either a dedicated internet connection or landline to operate.
- An error notification is automatically transmitted to several locations via the internet.
- Troubleshooting is performed by monitoring each air conditioning unit remotely during a periodical system check.

Remote technical support and maintenance

On-site check screen can be shared between on-site staff and a service technician in a remote location. When a service technician visits the site for troubleshooting, the system’s operation status can be shared in real time with a remote service center to get further assistance.

Trend charts

Previous-generation application could display only 3 sets of data from sensors. However, the current generation of the service tool displays multiple charts simultaneously so that refrigeration cycles can be monitored and checked in greater detail.

Automatic operation check for refrigeration cycles

Once installed, the Service tool automatically checks for refrigeration cycles. The self-diagnosis function determines whether each sensor value is normal, which reduces the need for manual checks. The result of a diagnosis can be provided in a report:

These sensor values are checked automatically:
- The discharge temperature is normal: “OK”
- The high pressure pipe value is normal: “OK”
- The low pressure pipe value is normal: “OK”
- And the values for other items will also be diagnosed.

Web monitoring tool
UTY-AMGXZ1

Features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during a periodical system check.
- An error notification is automatically transmitted to several locations via the internet.
- Requires either a dedicated internet connection or landline to operate.
- The occurrence of an error can be confirmed through an error alert and equipment status information obtained from a remote location.
- Monitoring data can be downloaded in a remote location. These data can be accessed and displayed even when the service tool is in offline mode.
- Can be viewed on the monitoring computer’s Web browser without installing any special software.

Web Monitoring System

Supporting up to 4 VRF network systems

Up to 4 USB adapters can be connected to a computer, enabling the monitoring of up to 1,600 indoor units. Suitable for use in a large building or hotel.

Computer requirements

**Operating system**
- Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1
- Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
- Microsoft® Windows® 10 Pro (32-bit or 64-bit)
- Microsoft® Windows® 8.1 Pro (64-bit)
- Windows® 10 (64-bit)

**CPU**
- 1 GHz or higher

**Memory**
- 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])
- 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])

**Screen resolution**
- 1,366 × 768 pixels or higher

**Network interface**
- Internet using LAN: Ethernet port is required.
- Landline: Modem is required.
- USB ports (one for U10 USB Network interface and up to 4 ports for software protection keys)

**Software**
- Internet Explorer® 11 or Microsoft Edge

**Packaging list**

- White USB key (Software protection key) 1
- White USB key (Software protection key) 1

- Computer requirements:
  - Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1
  - Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
  - Microsoft® Windows® 10 Pro (32-bit or 64-bit)
  - Microsoft® Windows® 8.1 Pro (64-bit)
  - Windows® 10 (64-bit)
  - 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])
  - 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
  - Microsoft® Windows® 10 Pro (32-bit or 64-bit)
  - Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
  - Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1

- Computer requirements:
  - Internet e-mail access required.

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

* Sp-013