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 or 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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PRODUCT LINEUP
SPLIT & MULTI-SPLIT
VRF
VENTILATION
CONTROL SYSTEM & OPTIONAL PARTS
AIR TO WATER

SUPPORT
Sp-002  AIRSTAGE™ Support
Sp-004  AIRSTAGE™/RAC Support Tool
Sp-006  WATERSTAGE™ Support Tool
Sp-008  Quick Service & Maintenance
Sp-018  Service Tool
Sp-018  Web Monitoring Tool
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 save resources
- Reduce waste
- Effective use of resources

**Measures for climate change**
- Pursuit of energy-saving performance
- Convert renewable energy (ATW)
- Introduce natural energy

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

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

**Living together for our future**
- Promote equality and diversity

**Innovation**
- Creating flexible work styles under COVID-19
- Enhancing human resource development

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

**Responsibility**
- Promote CSR procurement
- Responsible procurement

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

**Our People (Care for employees)**
- Strategic implementation of health and productivity management
- Promote equality and diversity

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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 does not prevent infection.

**Plasma Air Clean**
Air passing through the indoor unit is cleaned by a built-in electrostatic dust collector. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.

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

**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.

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.

**Air handling unit**
The Air handling units connected to Fujitsu General’s AIRSTAGE™ system are equipped with technology that provides high energy efficiency and superior comfort to meet the most stringent air conditioning requirements and installation conditions.
R32 refrigerant with reduced global warming potential

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

*1 ODP (Ozone Depletion 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 all substances that is given to the Earth (i.e., the estimated impact on global warming expressed as a ratio to CO2).

Our pioneering efforts to create a green future

Fujitsu General follows the EU Climate Action Plan 20/20/20 by 2020.

- **20% Less primary energy use**
  Fujitsu General’s energy-efficient air conditioners are designed to consume less electricity, thus reducing primary energy usage.

- **20% Less CO₂ emissions**
  Fujitsu General products closely follow the F-Gas regulation 517/2014/EU.

- **20% Coming from renewable energy**
  Fujitsu General is promoting air sourced heat pumps as renewable energy source heating systems.

Our message

The Green refrigerant

Throughout our research and development process, we are constantly striving to create products that we can be proud of in the future. The technologies we have cultivated through these efforts are incorporated into our environmentally friendly products, and are recognized in the European market, which has extremely strict environmental regulations.

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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 outlet ports as well as the 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 trianqually, 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.

Wall-mounted type
Comfortable airflow control to prevent the body from being exposed to direct airflow.
Hybrid Airflow, which combines air currents of different temperatures and velocities, creates a comfortable space.

Comfort pursued through advanced technologies
The dual-fans equipped with the flagship “nocria X” model optimally control airflow. The unique form brings a comfortable airflow to every corner of the room. The power diffuser opens the lower flap of the main unit and blows warm air downward to heat the room from the floor, increasing heating efficiency. The lambda heat exchanger improves the operating efficiency, contributing to the compactness of the indoor units. In addition, the automatic filter cleaning function that we have developed ensures ease of maintenance and operating efficiency. The “nocria X” airflow control system is also used in the cassette type, creating a comfortable space with three types of airflow. Fujitsu General’s unique technology enables the system to create a comfortable space.

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.

**Control**

**Operation from Anywhere**

User-friendly screen display enables easy operation.

With the WLAN adapter and the FGLair app, you can control the heating and cooling of your home anytime, anywhere.

### Should you forget to turn off the system before you leave home, you don’t have to worry.

“FGLair” is a software application that allows users to control Fujitsu General air conditioners from anywhere outside 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, allowing intuitive operation.

### WLAN adapter

The dedicated WLAN adapter enables the air conditioner to be operated by smartphone or tablet PC from outside the home.

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Create a Beautiful 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.

Wall-mounted type

KE Designer Series

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 looks beautiful from any angle.

Design award-winning products

Wall-mounted type, design Series

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.

Different Cassette type Designs

Compatible with grid ceiling systems

Compact cassette Series

for grid ceiling

Beautiful design from any angle

Cassette type Circular flow Series

White panel

For ambience with dimmed lighting

Cassette type Circular flow Series

Black panel
History
Yaou Shoten Ltd. established in 1936

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

1971: Air conditioner exports to the Middle East.
1977: “Super Power, Super Quiet” Series released
1982: Window type 3 + Super Series released
ALAX Series
1985: Large wall mounted type and multi-split air conditioner released
1991: World’s first air conditioner equipped with lambda heat exchanger
1994: World’s first air conditioner with power diffuser

1964
Manufacturing Company Establishment
1955 Head Office established in Kawasaki
1964 Electronic components factory in Ichinoseki
1977 Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office)
1991 Air conditioner manufacturing company in Thailand
1994 Air conditioner manufacturing company in Shanghai, China
1998 Air conditioner motor manufacturing company in Thailand

2001: AIRSTAGE™ Series released VRF air conditioners for large buildings
2002: Air conditioner with the world’s first automatic self-cleaning filter system
2004: Standalone Compact VRF AIRSTAGE™ JII Series released
2006: VRF Heat Pump type Maximum 42 HP AIRSTAGE™ V Series released
2009: Air to water system released

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: Base for creating new value by combining internal and external knowledge
2020 Building self-based manufacturing implementing a real-time IoT system to instantly visualize and analyze various information

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 (INA) and New Zealand sales company
2000 Air conditioner manufacturing and sale technical partnership in India
2002 Taiwan sales company
2006 China sales company

2011 High energy-saving type AIRSTAGE™ J II Series released
2014 Compact & lightweight outdoor unit AIRSTAGE™ J RIS-equipped with a single fan for improved ease of installation
2016 Compact VRF AIRSTAGE™ J III Series with advanced energy efficiency and easy installation released
2017-19 Compact VRF AIRSTAGE™ J IV R Series for light commercial use released
2020 Compact & lightweight outdoor unit AIRSTAGE™ J series, J IV R Series released

1977 Air conditioner manufacturing company in Shanghai, China
2006 VRF air conditioner manufacturing, sale, and service company in China
2007 Air Conditioner Technology Building becomes operational on the premises of the Kawasaki Headquarters.
An air conditioner R&D Center in Kawasaki
2009 Compressor factory begins operation in Thailand

1971 ~1950 ~ 2000 ~
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1998 Joint venture in Thailand to manufacture compressors
2002 Air Conditioner Technology Building becomes operational on the premises of the Kawasaki Headquarters.
An air conditioner R&D Center in Kawasaki
2009 Compressor factory begins operation in Thailand

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2006—VRF Heat Pump type Maximum 42 HP AIRSTAGE™ V Series released
2009—Air to water system released

2012—Heat Recovery Modular type AIRSTAGE™ VRI & Series Maximum 48 HP released
2014—15: Heat Pump Modular type AIRSTAGE™ VRIII Series Maximum 54 HP for large buildings released
2020 Heat Recovery type AIRSTAGE™ VR-IV Series Maximum 48 HP released

2016 Compact VRF AIRSTAGE™ J II Series released
2017-19 Added to this lineup recently are the environment-friendly R32 refrigerant models. (Split & Multi-split type)

2021-22 New Indoor units released for easy installation.

2020 Heat Recovery type AIRSTAGE™ VR-IV for large buildings released
2020 Compact & lightweight outdoor unit AIRSTAGE™ J III Series released
2020 New cassette style released Cassette type 3D flow Series

2019 Hi spec Design model LT Series & LU Series released
2017 Flagship Wall-mounted type *nocria X* released
2020 Air handling unit released

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2022 What’s New
2019 New building constructed at Kawasaki Head Office to strengthen development capabilities: Base for creating new value by combining internal and external knowledge
2020 Building self-based manufacturing implementing a real-time IoT system to instantly visualize and analyze various information

*2: Announced 1994. In the category of room air conditioners for the home (Our company’s investigation).
*4: Announced 2018. In room air conditioner for the home (Our company’s investigation).
*5: Announced 2012. In room air conditioner for the home (Our company’s investigation).
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
- Dealer’s Choice Awards
- AHR Expo
- Dealer convention in Kuwait

Middle East
- Dealer convention in Kuwait
- Technical seminar

Europe
- HVAC trade show in European countries
- Presentation & training
- Call center

Oceania
- HVAC trade show in Australia
- Dealer convention in Thailand

Asia
- New product seminar

International authoritative design awards
- The ACR Show
- North and South Americas
- Middle East
- Europe
- Oceania
- Asia

Superbrands in the world's top independent arbiter of branding

The NEWS Dealer Design Awards
- Gold Award (Category: HVAC & Plumbing) in Reader's Choice Awards
- TOP 10 of MIDE 2016 First Prize in "MIDE DE EQUIPAMIENTOS DE AIRE ACONDICIONADO" category of "CLIMA AIRE ACONDICIONADO" division

The IF Product Design Award is given annually by the International Forum Design GmbH for industrial products from around the world.

The PLUS Award is the world's largest innovation award for technology, sports and lifestyle.

The GOOD DESIGN Award is sponsored by the Japan Institute of Design Promotion and is given once a year to items of outstanding design.

The GOOD DESIGN Award
- China State Construction Engineering Luban Prize
- Voted by Australians as the Most Trusted Brand – Air Conditioning Category 4 Years Running
- Superbrands is the world's largest independent arbiter of branding

red dot winner 2020
A product design competition that has been held since 1955. Products that win the award are given the "Red Dot" seal, a sign of international recognition of quality.

red dot winner 2020
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.

Project references

Introduced in over 50 countries worldwide
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.

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.
High-quality development & Production facilities

Advanced Research Facilities and Equipment

Performance tests
- Calorimeter: Measure the temperature, humidity, and airflow at the inlet and outlet of the air conditioner to evaluate its cooling and heating capacity.
- Silent room: Measure the operating sounds of air conditioners on walls and ceilings with reduced sound reflection.
- Airflow measurement room: Measure the airflow of air conditioners, from compact room air conditioner models to variable refrigerant flow (VRF) systems.

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

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.
2022 New Products

2022 New Products

Wall-mounted type
Designer Series, Standard Series, ECO Series

- 7-36 classes, 23 models
- High efficiency
- New WLAN adapter (option)
- R32 refrigerant & low refrigerant volume
- Easy access to the flare pipe connection

Duct type
High static pressure duct

- 45/54 classes, 2 models
- Link up with a variety of Central Control System (option)
- Easy installation
- Flexible installation

2-unit to 5-unit Multi-split type
Indoor units

Wall-mounted type
Designer Series, Standard Series

- 16 models
- Capacity range from 7,000 to 24,000 BTU

- Standard Series High Efficiency & Large Room
- ECO Series Compact & Comfort
- Designer Series Cool Beauty Design
- Designer Series High Spec & Design
- Standard Series High Efficiency & Large Room
Our Message

VRF

Outdoor Unit V-IV

- 8 - 48 HP model
- 34 models
- New intelligent refrigerant control
- Low noise operation
- Indoor unit capacity range from 1.1 kW to 28.0 kW classes
- Up to 64 indoor units can be connected

Indoor unit

High static pressure duct type

- Normal
- 2 models
- Static pressure mode selection
- Easy installation (Compact & Lightweight)
- Low noise

Wall-mounted type

- 2 models
- Powerful & Comfort airflow
- 6-step fan speed control for quiet operation

CONTROL SYSTEM

Wired remote controller

(with touch panel)

- For tenants in small to midsize commercial premises
- Multi system control
- Refrigerant cycle monitor
- Touch screen LCD
- Built-in daily/weekly timer (ON/OFF, temperature, modes)
- Backlit screen for easy-operation in the dark

Central remote controller

- For tenants in small to midsize commercial premises
- Monitoring room temperature of each room
- 50 Remote controller groups display
- Remote controller groups rename
- Added individual wind direction control
- Occupancy sensor setting of Indoor unit
- Increased the number of accounts for remote management

AIRSTAGE Indoor unit

High Static Pressure Duct

Wall-mounted type

AIRSTAGE Mobile

- Operation from anywhere
- Multiple air conditioning management
- Group management

8, 10 HP
12, 14, 16 HP

8 - 48 HP model
For Light commercial use

Comfortable and economical air conditioning systems, ideal for small and midsize commercial buildings

- Shops and Restaurants
- Small offices
- Hotels
- Schools

For Residences

Smart air conditioning systems with extensive control options for comfort and convenience of use

- Large Buildings
- Residences

Fujitsu General provides the best control solutions for buildings.

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.

Solutions

From Business to private spaces

Fujitsu General’s total solutions are tailored to each property’s unique needs.

- Excellent energy saving
- Enhanced safety
- High durability
- Pleasant comfort
- Easy installation
- The total solution

Fujitsu General provides the best control solutions for buildings.
Compact cassette Series
For dimmed lighting

Circular flow cassette Series
For rooms with bright interiors

R32 large model lineup expanded
Expanded lineup of ceiling, cassette, and duct types suitable for large spaces using environmentally friendly R32 refrigerant

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)

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.

Various indoor unit lineup
You can choose from 3 types of indoor units to suit the atmosphere and layout of your shop.

Restaurant, shops
For Light commercial use

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

Simultaneous multi-split
For Shops
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.

AIRSTAGE™ 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-IVL Series 18 HP model

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.

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.

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.

Central remote controller
UTY-DCGYZ2

Control and monitoring
You can operate the main unit from your desk. Non-administrators can also operate the air conditioners with a computer, smartphone or tablet PC.

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

Small offices
For Light commercial use

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Solutions

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.

Air conditioning for the reception area and lobby
Duct type Big duct Series suitable for large spaces with high ceilings

Centralized control of air conditioning for shared spaces
Lobbies, hallways, and other common spaces are centrally controlled for air conditioning. Temperature and operating conditions can be managed without any adjustments by the guests.

Simple remote controller with sophisticated design
The ease of operation makes it an ideal choice for use in hotels or offices. Simple buttons and a white backlit large LCD screen make it easy to operate in the dark.

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.

Airstage™ J Series compact outdoor unit with appearance-conscious design
The class-leading compact design will not detract from the appearance of the hotel.

Supports ventilation for the entire hotel
Outdoor air processing is essential in an airtight hotel space. The DX kit links up with air conditioners to ensure sufficient ventilation. The system is expandable.

Comfortable airflow by switching the up/down airflow direction
The Auto louver grille kit creates comfortable airflow by adjusting the air direction.

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

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Outdoor air processing is essential in an airtight hotel space. The DX kit links up with air conditioners to ensure sufficient ventilation. The system is expandable.

Centralized control of air conditioning for shared spaces
Lobbies, hallways, and other common spaces are centrally controlled for air conditioning. Temperature and operating conditions can be managed without any adjustments by the guests.

Simple remote controller with sophisticated design
The ease of operation makes it an ideal choice for use in hotels or offices. Simple buttons and a white backlit large LCD screen make it easy to operate in the dark.

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.
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 Occupancy 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.

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-IV
34 models from 8 to 48 HP
• Space saving combination: 21 models from 10 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.

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

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.
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 Series
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
Good Design Award winning, Quiet Series
High performance, low noise with emphasis on design

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

For Bedrooms or Home offices
Standard & ECO Range Series
High performance and compact design suitable for bedrooms, home offices and other small 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.

Residences
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The basic functions and powerful, comfortable airflow volume controls are optimal for large spaces.

For Bedrooms or Home offices
Standard & ECO Range Series
High performance and compact design suitable for bedrooms, home offices and other small spaces

Operation from anywhere
With a single smartphone, you can check the operating status of not only your home air conditioner, but also the air conditioners in your second house or in your parents’ house (up to 24 air conditioners).

With the WLAN adapter and the FGLair app, you can control the heating and cooling of your home anytime, anywhere.
SPLIT & MULTI-SPLIT

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 to 8-unit Multi-split
  - Simultaneous Multi-split Twin/Triple/Double Twin

SPLIT & MULTI-SPLIT Light Commercial & Residential
Light Commercial & Residential

**SPLIT**

- Refrigerant R32 models
  - Wall-mounted type
    - S-014   Flagship Series
    - S-016   Designer Series
    - S-020   Standard Series
  - Cassette
    - S-030   Compact 4-way Flow Series – Compact Size
    - S-032   Circular Flow Series – Comfort for Large Rooms
  - Duct
    - S-034   Slim Duct – Slim Design
    - S-036   Medium Static Pressure Duct – Compact & Comfort
    - S-038   Medium Static Pressure Duct – Standard
    - S-040   High Static Pressure Duct
  - Floor, Ceiling
    - S-046   Floor – Compact & Comfort
    - S-048   Ceiling

- Refrigerant R410A models
  - Duct
    - S-042   High Static Pressure Duct
    - S-044   Big Duct
Fujitsu General provides its customers with 6 types and 128 models of air conditioning systems perfect for various customer applications and layouts. Added to this lineup recently are the environment-friendly R32 refrigerant models.

Wall-mounted type
Simple and easy to install, all models, including the flagship model equipped with dual-fan, 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.

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.

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.

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.
## Indoor Units Lineup

| Type                  | Series         | Refrigerant | Model  | Class | J | 9 | 12 | 14 | 18 | 22 | 24 | 30 | 36 | 45 | 54 | 60 | 72 | 90 |
|-----------------------|----------------|-------------|--------|-------|---|---|----|----|----|----|----|----|----|----|----|----|----|
| **Wall-mounted type** |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Flagship Series       | nociareX        |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Designer Series       | High-Efficiency  | ASYG07KUTE | ASYG09KUTE |     |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Designer Series       | Cool Energy     | ASYG12KUTE | ASYG14KUTE | ASYG18KUTE |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Standard Series       | High-Efficiency | ASYG22KXCE | ASYG24KXCE | ASYG30KXCE | ASYG36KXCE | ASYG45KXCE | ASYG54KXCE | ASYG60KXCE | ASYG72KXCE | ASYG90KXCE |     |    |    |    |    |    |
| Standard Series       | High-Efficiency | ASYG22KXCE | ASYG24KXCE | ASYG30KXCE |     |   |    |    |    |    |    |    |    |    |    |    |    |
| Standard Series       | High-Efficiency & Large Rooms | ASYG18KXCE | ASYG20KXCE | ASYG24KXCE | ASYG30KXCE | ASYG36KXCE | ASYG45KXCE | ASYG54KXCE | ASYG60KXCE | ASYG72KXCE | ASYG90KXCE |     |    |    |    |    |
| Standard Series       | High-Efficiency & Large Rooms | ASYG18KXCE | ASYG20KXCE | ASYG24KXCE | ASYG30KXCE | ASYG36KXCE | ASYG45KXCE | ASYG54KXCE | ASYG60KXCE | ASYG72KXCE | ASYG90KXCE |     |    |    |    |    |
| Standard Series       | Compact | ASYG12KXCE | ASYG14KXCE | ASYG18KXCE | ASYG22KXCE | ASYG24KXCE | ASYG30KXCE | ASYG36KXCE | ASYG45KXCE | ASYG54KXCE | ASYG60KXCE | ASYG72KXCE | ASYG90KXCE |     |    |    |
| ECO Series            | Compact Sun      | ASYG12KXCE | ASYG14KXCE | ASYG18KXCE | ASYG22KXCE | ASYG24KXCE | ASYG30KXCE | ASYG36KXCE | ASYG45KXCE | ASYG54KXCE | ASYG60KXCE | ASYG72KXCE | ASYG90KXCE |     |    |    |
| ECO Series            | Comfort for Large Rooms | ASYG12KXCE | ASYG14KXCE | ASYG18KXCE | ASYG22KXCE | ASYG24KXCE | ASYG30KXCE | ASYG36KXCE | ASYG45KXCE | ASYG54KXCE | ASYG60KXCE | ASYG72KXCE | ASYG90KXCE |     |    |    |
| **Cassette**          |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Compact 4-way Flow    | Compact Sun      | ASYG09KVLA | ASYG12KVLA | ASYG14KVLA | ASYG18KVLA | ASYG22KVLA | ASYG24KVLA | ASYG30KVLA | ASYG36KVLA | ASYG45KVLA | ASYG54KVLA | ASYG60KVLA | ASYG72KVLA | ASYG90KVLA |     |    |
| Circular Flow Series  | Compact for Large Rooms | ASYG12KVLA | ASYG14KVLA | ASYG18KVLA | ASYG22KVLA | ASYG24KVLA | ASYG30KVLA | ASYG36KVLA | ASYG45KVLA | ASYG54KVLA | ASYG60KVLA | ASYG72KVLA | ASYG90KVLA |     |    |
| **Slim Duct**         |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Medium Static Pressure | Compact Sun      | ASYG12KVTA | ASYG14KVTA | ASYG18KVTA | ASYG22KVTA | ASYG24KVTA | ASYG30KVTA | ASYG36KVTA | ASYG45KVTA | ASYG54KVTA | ASYG60KVTA | ASYG72KVTA | ASYG90KVTA |     |    |
| Medium Static Pressure | Standard | ASYG12KVTA | ASYG14KVTA | ASYG18KVTA | ASYG22KVTA | ASYG24KVTA | ASYG30KVTA | ASYG36KVTA | ASYG45KVTA | ASYG54KVTA | ASYG60KVTA | ASYG72KVTA | ASYG90KVTA |     |    |
| High Static Pressure   |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Duct                  |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| High Static Pressure   |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |    |
| Big Duct              |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |    |
| **Floor Compact & Comfort** |             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |
| **Ceiling**           |                             |             |        |       |   |   |    |    |    |    |    |    |    |    |    |    |    |    |

**FUJITSU GENERAL (Euro) GmbH** participates in the ECP program for VRF. Check ongoing validity of certificate: www.eurovent-certification.com. *Models so marked are not ECC certified.*
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.

High Energy Saving

Occupancy sensor control

The Occupancy 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.

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)
More Comfort

**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)

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

**Powerful heating**
A large heat exchanger, a large DC rotary compressor, and a high-performance inverter PCB provide high heating capacity even at low outdoor temperature.

**Uniform air conditioning**
Circular airflow to achieve uniform air conditioning without temperature unevenness in workspaces.
**Quiet and Comfort Control**

**Low Noise Technology**

**Outdoor unit fan**
Outdoor unit fan design with a small separation vortex, minimized air volume by fan control, and top-class low noise

**Air stabilizer in Duct**
Low-noise duct structure with a built-in air stabilizer

**Feature Explanation**

**Energy-Saving Features**

- **Dual-fan**
  - Inverter function which accommodates a range of different temperatures and velocities, creating a comfortable room environment.

- **Economy mode**
  - The fan speed is automatically adjusted instantly according to the room temperature to avoid unnecessary cooling or heating.

- **Saw Occupancy sensor**
  - Adjusts the fan speed according to the movement of people in the room and determines whether to switch to energy-saving operation.

- **Setting temperature range limitation**
  - The fan speed is automatically adjusted according to the room temperature to avoid unnecessary cooling or heating.

- **Occupancy sensor for saving/stop modes**
  - The Occupancy sensor (optional) detects the movement of a person in the room and decides whether to save energy or stop the unit.

**Features for Comfort**

- **Powerful heating**
  - The space heating capacity is increased when the outdoor ambient temperature is low.

- **10°C Heat**
  - The temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.

- **UP/DOWN swinging louver**
  - The louver can automatically swing up and down following the changes in room temperature.

- **Auto changeover**
  - In an auto setting, the system automatically switches between cooling and heating modes based on the temperature setting and the room environment.

- **Individual airflow direction control**
  - Each louver of a multi-split type can be controlled individually to provide comfortable airflow.

**Convenience Features**

- **Auto off timer**
  - Automatically stops operation after a fixed time has elapsed from the start of operation.

- **Weekly timer**
  - Weekly ON-OFF times can be set for each day.

- **External error output**
  - Connectable fresh air duct
  - Connectable distributing duct
  - Connectable fresh air duct
  - Connectable distributing duct

**Clean Features**

- **Plasma air cleaner**
  - The plasma air cleaner reduces dust particles such as pollen and house dust. It is weatherproof and thus can operate in any climate.

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

- **Silver Ion Filter**
  - The Silver Ion Filter helps to keep the indoor air free from odors, bacteria, and mold.

**Installation / Support**

- **Auto airflow adjustment**
  - Automatically adjusts airflow based on the room environment.

- **Controller**
  - Controller for controlling the air conditioner from a distance.

**Clean Features**

- **Filter auto clean**
  - The filter is automatically cleaned by the fan to prevent odors from entering the room.

- **Washable panel**
  - The external front panel is easily removable for washing and maintenance.

**Wiring**

- **Drain pump as standard**
- **Blue fin**
  - Blue fin design provides an elegant finish to the outdoor unit.
Comfortable airflow control to prevent the body from being exposed to direct airflow

A comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.

Filter Auto Clean

Dust on the filter is automatically removed to prevent power from being wasted by the clogged filter.

Plasma Air Clean

Air that passes through the indoor unit is cleaned by a built-in electrostatic dust collector. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.

Occupancy sensor

The Occupancy sensor detects movement of people in a room and operates at reduced capacity when people leave the room. When people return to the room, the system automatically returns to the previous room settings.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model: ASYG12KXCA</td>
<td>ASYG12KXCA</td>
<td>AOYG12K XCA</td>
</tr>
</tbody>
</table>

- **Power Source**: Single phase, ~230 V, 50 Hz
- **Capacity**
  - Cooling: kW 3.4 (0.6-5.3)
  - Heating: kW 5.0 (0.6-9.0)
- **Input Power**
  - Cooling/Heating: kW 0.670/1.020
- **EER**
  - Cooling: W/W 5.09
- **COP**
  - Heating: 4.90
- **P_design**
  - Cooling/Heating: kW -10°C 3.4/3.5
- **SEER**
  - Cooling: W/W 8.50
- **SCOP**
  - Heating: Average 5.10
- **Energy Efficiency Class**
  - Cooling: A+++  
  - Heating (Average): A+++  
- **Max. Operating Current**
  - Cooling/Heating: A 9.0/16.0
- **Annual Energy Consumption**
  - Cooling: kWh/a 140  
  - Heating: kWh/a 961
- **Moisture Removal**
  - I/h 1.2
- **Sound Pressure Level**
  - Indoor (Cooling): dB(A) 46/42/38/28  
  - Indoor (Heating): H/M/L/Q 48/43/39/30  
  - Outdoor (Cooling/Heating): High 44/43
- **Sound Power Level**
  - Indoor (Cooling/Heating): High 58/62  
  - Outdoor (Cooling/Heating): High 57/57
- **Airflow Rate**
  - Indoor/Outdoor (Cooling): m³/h 3/670/2,230  
  - Indoor/Outdoor (Heating): 810/1,975
- **Net Dimensions**
  - Indoor: mm 293 × 786 × 378  
  - Outdoor: mm 704 × 820 × 315
- **Weight**
  - Indoor: kg (lbs) 20 (44)  
  - Outdoor: kg (lbs) 41 (90)
- **Connection Pipe Diameter (Liquid/Gas)**
  - mm 6.35/9.52
- **Drain Hose Diameter (I.D./O.D.)**
  - 11.8/15.0 to 16.8
- **Max. Pipe Length (Pre-Charge)**
  - m 15 (15)
- **Max. Height Difference**
  - 10
- **Operating Range**
  - Cooling °CDB -10 to 43  
  - Heating °CDB -15 to 24
- **Refrigerant Type (Global Warming Potential)**
  - R32 (675)
  - Charge kg (CO2eq-T) 1.30 (0.878)

Dimensions

Front view

Side view

* Dimensions when air flowing downward
High energy saving
Top class high efficiency is achieved by high efficient lambda heat exchanger.

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

Ø50mm High density heat exchanger

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

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

Smart Device control (Option)
With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

Specifications

<table>
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<tr>
<th>Model name</th>
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<th>ADJUSTABLE</th>
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<tr>
<td>ASYG07KGTE</td>
<td>ASYG09KGTE</td>
<td>ASYG12KGTE</td>
<td>ASYG14KGTE</td>
<td>ASYG18KGTE</td>
<td></td>
</tr>
</tbody>
</table>

Power Source

- Cooling/Heating kW 2.0/2.3 2.5/2.4 3.4/2.5 4.2/4.0
- COP 2.5 (0.9-3.2) 2.6 (0.9-3.2) 2.8 (0.9-3.4) 3.2 (0.9-3.4)
- SCOP 5.3 (0.9-4.1) 5.5 (0.9-4.1) 5.7 (0.9-4.1) 5.7 (0.9-4.1)
- SEER 9.2 9.0 9.0 8.8
- EER 4.40 4.45 4.45 4.45

Outside unit

- Cooling kW 4.0/4.6 4.6/5.0 5.5/5.4 6.5/6.5
- COP 3.5 (0.9-3.2) 3.0 (0.9-3.2) 3.0 (0.9-3.2) 3.0 (0.9-3.2)
- SCOP 5.00 5.00 5.00 5.00
- SEER 5.20 5.20 5.20 4.50
- EER 4.40 4.40 4.40 4.40

Installation

- Dimensions mm 542 × 799 × 290 542 × 799 × 290 542 × 799 × 290 542 × 799 × 290
- Weight Indoor kg (lbs) 10 (22) 10 (22) 10 (22) 10 (22)

Optional parts

- Compact wired remote controller: UTY-RSRY
- Wired remote controller: UTY-RHRY
- Wired remote controller (touch panel): UTY-RLRY
- Wired remote controller (without operation mode): UTY-RNRYZ5
- Silver Ion filter: UTY-VTGXV
- Communication kit: UTY-TWRXZ2
- External switch controller: UTY-TFSXF2
- External input and output PCB: UTY-TERX
- External connect kit: UTY-XCSXZ2
- External connect kit: UTY-XWZX
- Network Convertor for single split (AC power supply type): UTY-FA5-5
- Network Convertor for single split (DC power supply type): UTY-FA16-5
- Silver Ion filter: UTY-FA5-5
- Communication kit: UTY-RA5-5
- External switch controller: UTY-RX3-5
- External connect kit: UTY-RS3-5
- Silver Ion filter: UTY-RX3-5
- Communication kit: UTY-RA3-5
- External switch controller: UTY-RX1-5
- External connect kit: UTY-RS1-5
- Silver Ion filter: UTY-RX1-5
- Communication kit: UTY-RA1-5
- External switch controller: UTY-RX0-5
- External connect kit: UTY-RS0-5
- Silver Ion filter: UTY-RX0-5
- Communication kit: UTY-RA0-5

Dimensions

- Indoors

S-016  S-017
**Designer Series**

**type**

comfortable airflow & quiet operation.

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

### High energy saving

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

### Comfortable airflow & Quiet operation

The large louver 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 (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

You need to install the FG Lair app on your smart device in order to control the air conditioner.

### Specifications

#### Model name

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<td>Model: ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
<td>ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE</td>
</tr>
</tbody>
</table>

#### Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

#### Dimensions

**Wall-mounted type**

**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-Efficiency & Comfort

Standard Series

Wall-mounted type

type

SPLIT

control the air conditioner.

on your smart device in order to

You need to install the FGLair app

control it from anywhere with your smart device. WLAN adapter can be

installed easily without specialized installation work.

New design

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.

Hybrid heat exchanger

Large cross-flow fan, and the new refrigerant.

High energy saving

High efficiency has been achieved by the lambda 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. WLAN adapter can be

installed easily without specialized installation work.

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

Model name

Model: ASYG07KMCE/ASYG09KMCE/ASYG12KMCE/ASYG14KMCE

Power Source

Single phase, ~230 V, 50 Hz

Input Power

Cooling/Heating kW 0.450/0.555 0.630/0.620 0.935/0.960 1.220/1.410

COP Cooling 2.5 (0.9-3.0) 2.8 (0.9-4.0) 4.0 (0.9-5.3) 5.4 (0.9-6.0)

COP Heating (Average) A+ A+ A+ A+

SEER Cooling 7.4 7.4 7.3 6.9

SCOP Cooling 4.4 4.4 4.3 4.0

Cooling W/W 7.40 7.40 7.30 6.90

SEER SCOP

Cooling W/W

R32 (675)

Refrigerant

Operating Range

Cooling °CDB -10 to 46 -10 to 46 -10 to 46 -10 to 46

Heating (Average) 4.10 4.10 4.40 4.10

Max. Pipe Length (Pre-Charge) mm 100/100/100/100

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

Sound Power Level

Indoor (Cooling/Heating) 20 dB(A) 20 dB(A) 22 dB(A) 22 dB(A)

Sound Pressure Level

Indoor (Cooling) HIGH HIGH HIGH HIGH

Outdoor (Cooling/Heating) HIGH HIGH HIGH HIGH

Annual Energy

Cooling kWh/a 95 118 163

Heat source

Type (Global Warming Potential)  R32 (675)  R32 (675)  R32 (675)  R32 (675)

Charge kg (CO2eq-T) 0.6 (0.405) 0.6 (0.405) 0.7 (0.473) 0.85 (0.574)

Weight

Indoor kg (lbs) 10 (22) 10 (22) 10 (22) 10 (22)

Outdoor kg (lbs) 22 (49) 22 (49)

Net Dimensions

Indoor mm 270 × 834 × 222 270 × 834 × 222 270 × 834 × 222 270 × 834 × 222

Outdoor mm 541 × 663 × 290 541 × 663 × 290 541 × 663 × 290 542 × 799 × 290

Dimensions

Indoor mm 222 270

Outdoor mm 834

Model name

Model: UTY-RSRY/UTY-RHY/UTY-RLRY/UTY-RCRYZ1

Dimensions

Indoor mm 61/61 61/62 65/65 65/66

Outdoor mm 46/46 46/46 50/50 50/50

Indoor/Outdoor (Cooling) High High High High

Indoor/Outdoor (Heating) High High High High

Optional parts

For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Compact wired remote controller: UTY-RCRY1

Communication kit: UTY-TMXY2

Network Camera for single split (AC power supply type): UTY-VTGC

Mood remote controller (touch panel): UTY-RLRY

External input and output PCB: UTY-RCRY2

Network Camera for single split (DC power supply type): UTY-VTGG

Single remote controller: UTY-RCRY

External switch controller: UTY-DEE

Network Convertor for single split (AC power supply type): UTY-CRGS

Silver Ion filter:

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Optional parts

For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Compact wired remote controller: UTY-RCRY1

Communication kit: UTY-TMXY2

Network Camera for single split (AC power supply type): UTY-VTGC

Mood remote controller (touch panel): UTY-RLRY

External input and output PCB: UTY-RCRY2

Network Camera for single split (DC power supply type): UTY-VTGG

Silver Ion filter:

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.
Top class high efficiency is achieved by high efficient lambda heat exchanger, large cross flow fan and new refrigerant.

High energy saving

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

Hybrid-heat exchanger

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

Ø107 Large cross-flow fan

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. WLAN adapter can be installed easily without specialised installation work.

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.

Wireless RC

You need to install the FGLair app on your smart device in order to control the air conditioner.

You need to install the FGLair app on your smart device in order to control the air conditioner.

Model: ASYG18KMTA/ASYG24KMTA

** Specifications **

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Standard Type</th>
<th>ASYG18KMTA</th>
<th>ASYG24KMTA</th>
<th>ASYG24KMTA</th>
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</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Single phase</td>
<td>1.39/1.56 kW</td>
<td>2.08/1.91 kW</td>
<td>2.08/1.91 kW</td>
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<tr>
<td>Capacity</td>
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<td>Outdoor</td>
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<tr>
<td>Power (Winter)</td>
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<td>1.56</td>
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<tr>
<td>Power (Summer)</td>
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<td>Tonnage</td>
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<td>4.6</td>
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<tr>
<td>SEER *1</td>
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<tr>
<td>COP *1</td>
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<tr>
<td>Cooling/Heating (Winter)</td>
<td>kW</td>
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<tr>
<td>Cooling/Heating (Summer)</td>
<td>kW</td>
<td>5.2/4.8</td>
<td>7.1/ 7.1</td>
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<tr>
<td>COP</td>
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<td>COP</td>
<td>4.04</td>
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<tr>
<td>SCOP</td>
<td>7.8</td>
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** Dimensions **

<table>
<thead>
<tr>
<th>Type</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
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<tbody>
<tr>
<td>Indoor</td>
<td>632</td>
<td>799</td>
<td>290</td>
</tr>
<tr>
<td>Outdoor</td>
<td>280</td>
<td>980</td>
<td>240</td>
</tr>
</tbody>
</table>

---

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

---

** NEW **

Wall-mounted type

Standard Series

High-Efficiency & Large Rooms

---

**NEW**

Wall-mounted type

Standard Series

High-Efficiency & Large Rooms

---

**For ASYG18KMTA For ASYG24KMTA**

---

**Wireless RC**

You need to install the FGLair app on your smart device in order to control the air conditioner.

---

**NEW**

Wall-mounted type

Standard Series

High-Efficiency & Large Rooms

---

**For ASYG18KMTA For ASYG24KMTA**

---

**Wireless RC**

You need to install the FGLair app on your smart device in order to control the air conditioner.
Model: ASYG30KMTA / ASYG36KMTA

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model No.</th>
<th>ASYG30KMTA</th>
<th>ASYG36KMTA</th>
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<tr>
<td><strong>Power Source</strong></td>
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<td></td>
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<tr>
<td>Input Power (Cooling) kW</td>
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<td>2.33</td>
<td>3.16</td>
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<tr>
<td>Input Power (Heating) kW</td>
<td>Single</td>
<td>2.97</td>
<td>3.70</td>
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<tr>
<td><strong>EER</strong></td>
<td>Ceiling</td>
<td>3.43</td>
<td>2.97</td>
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<tr>
<td><strong>COP</strong></td>
<td>Heating</td>
<td>4.00</td>
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<tr>
<td><strong>SEER</strong></td>
<td>Cooling</td>
<td>6.67</td>
<td>6.14</td>
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<td><strong>SCOP</strong></td>
<td>Heating (Average)</td>
<td>4.54</td>
<td>4.52</td>
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<tr>
<td><strong>Operating Current</strong> kW</td>
<td>Cooling</td>
<td>21.0</td>
<td>21.5</td>
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<td><strong>Annual Energy Consumption</strong> kWh/a</td>
<td>Cooling</td>
<td>419</td>
<td>535</td>
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<td><strong>Moisture Removal</strong> I/h</td>
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<td>2.6</td>
<td>3.8</td>
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<tr>
<td><strong>Sound Pressure Level</strong></td>
<td>Indoor (Cooling) dB(A)</td>
<td>50/44/40/33</td>
<td>50/44/40/33</td>
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<td></td>
<td>Indoor (Heating)   dB(A)</td>
<td>49/44/39/33</td>
<td>49/44/39/33</td>
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<td></td>
<td>Outdoor (Cooling/Heating) dB(A)</td>
<td>78/55/55</td>
<td>78/55/55</td>
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<tr>
<td><strong>Sound Power Level</strong> dB(A)</td>
<td>Indoor (Cooling/Heating)</td>
<td>65/65</td>
<td>65/65</td>
</tr>
<tr>
<td></td>
<td>Outdoor (Cooling/Heating)</td>
<td>68/69</td>
<td>70/70</td>
</tr>
<tr>
<td><strong>Airflow Rate</strong> m³/h</td>
<td>Indoor / Outdoor (Cooling)</td>
<td>1,330/3,750</td>
<td>1,330/3,750</td>
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<tr>
<td></td>
<td>Indoor / Outdoor (Heating)</td>
<td>1,330/3,750</td>
<td>1,330/3,750</td>
</tr>
</tbody>
</table>

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.

Adopting new R32 refrigerant

R32 refrigerant is an environmentally friendly refrigerant with a significantly lower Global Warming Potential (GWP) than conventional refrigerant.

Occupancy sensor

The Occupancy 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.

Smart Device control (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

You need to install the FG Air app on your smart device in order to control the air conditioner.
**Model: ASYG07KPCE/ASYG09KPCE/ASYG12KPCE**

### Specifications

**Dimensions (Unit: mm)**

- **Indoor unit:**
  - ASYG07KPCE: 270 × 784 × 224
  - ASYG09KPCE: 270 × 784 × 224
  - ASYG12KPCE: 270 × 784 × 224

- **Outdoor unit:**
  - AOYG07KPCA: 541 × 663 × 290
  - AOYG09KPCA: 541 × 663 × 290
  - AOYG12KPCA: 541 × 663 × 290

### Power Source

- Single phase, ~230 V, 50 Hz

### Capacity

- **Cooling kW:**
  - ASYG07KPCE: 2.0 (0.9-2.8)
  - ASYG09KPCE: 2.5 (0.9-3.0)
  - ASYG12KPCE: 3.4 (0.9-3.7)

- **Heating kW:**
  - ASYG07KPCE: 2.5 (0.9-3.4)
  - ASYG09KPCE: 2.8 (0.9-3.8)
  - ASYG12KPCE: 3.8 (0.9-4.8)

### Input Power

- **Cooling/Heating kW:**
  - ASYG07KPCE: 0.48/0.63
  - ASYG09KPCE: 0.71/0.79
  - ASYG12KPCE: 1.00/1.14

### EER

- **Cooling W/W:**
  - ASYG07KPCE: 4.17
  - ASYG09KPCE: 3.52
  - ASYG12KPCE: 3.40

### COP

- **Heating:**
  - ASYG07KPCE: 3.97
  - ASYG09KPCE: 3.54
  - ASYG12KPCE: 3.33

### Pdesign

- **Cooling/Heating (-10°C) kW:**
  - ASYG07KPCE: 2.0/2.2
  - ASYG09KPCE: 2.5/2.4
  - ASYG12KPCE: 3.4/2.5

### SEER

- **Cooling W/W:**
  - ASYG07KPCE: 6.70
  - ASYG09KPCE: 6.70
  - ASYG12KPCE: 6.30

### SCOP

- **Heating (Average):**
  - ASYG07KPCE: 4.00
  - ASYG09KPCE: 4.00
  - ASYG12KPCE: 4.10

### Energy Efficiency Class

- **Cooling:**
  - A++
  - A++
  - A++

- **Heating (Average):**
  - A+
  - A+
  - A+

### Max. Operating Current

- **Cooling/Heating A:**
  - ASYG07KPCE: 6.5/9.0
  - ASYG09KPCE: 6.5/9.0
  - ASYG12KPCE: 6.5/9.0

### Annual Energy Consumption

- **Cooling kWh/a:**
  - ASYG07KPCE: 104
  - ASYG09KPCE: 131
  - ASYG12KPCE: 189

- **Heating kWh/a:**
  - ASYG07KPCE: 769
  - ASYG09KPCE: 840
  - ASYG12KPCE: 853

### Moisture Removal

- **L/h:**
  - ASYG07KPCE: 1.0
  - ASYG09KPCE: 1.3
  - ASYG12KPCE: 1.8

### Sound Pressure Level

- **Indoor (Cooling) dB(A):**
  - ASYG07KPCE: 45/38/31/22
  - ASYG09KPCE: 45/38/31/22
  - ASYG12KPCE: 46/40/33/22

- **Indoor (Heating) dB(A):**
  - ASYG07KPCE: 45/40/36/26
  - ASYG09KPCE: 45/40/36/26
  - ASYG12KPCE: 46/40/35/27

- **Outdoor (Cooling/Heating) High dB(A):**
  - ASYG07KPCE: 45/46
  - ASYG09KPCE: 47/47
  - ASYG12KPCE: 49/51

### Sound Power Level

- **Indoor (Cooling/Heating) High dB(A):**
  - ASYG07KPCE: 57/58
  - ASYG09KPCE: 58/58
  - ASYG12KPCE: 59/59

- **Outdoor (Cooling/Heating) High dB(A):**
  - ASYG07KPCE: 57/58
  - ASYG09KPCE: 59/59
  - ASYG12KPCE: 62/62

### Airflow Rate

- **Indoor (Cooling) m³/h:**
  - ASYG07KPCE: 251 (Low) / 368 (Mid) / 485 (High)
  - ASYG09KPCE: 251 (Low) / 368 (Mid) / 485 (High)
  - ASYG12KPCE: 251 (Low) / 368 (Mid) / 485 (High)

- **Indoor (Heating) m³/h:**
  - ASYG07KPCE: 231 (Low) / 361 (Mid) / 481 (High)
  - ASYG09KPCE: 231 (Low) / 361 (Mid) / 481 (High)
  - ASYG12KPCE: 231 (Low) / 361 (Mid) / 481 (High)

### Weight

- **Indoor kg (lbs):**
  - ASYG07KPCE: 8 (18)
  - ASYG09KPCE: 8 (18)
  - ASYG12KPCE: 8 (18)

- **Outdoor kg (lbs):**
  - ASYG07KPCE: 23 (51)
  - ASYG09KPCE: 23 (51)
  - ASYG12KPCE: 25 (55)

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

- ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: 6.35/9.52

### Drain Hose Diameter (I.D./O.D.) mm

- ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: 11.8/15.0 to 16.8

### Max. Pipe Length (Pre-Charge) m

- ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: 20 (15)

### Max. Height Difference

- ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: 15

### Operating Range

- **Cooling °C:**
  - ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: -10 to 46

- **Heating °C:**
  - ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: -15 to 24

### Refrigerant

- **Type (Global Warming Potential):**
  - ASYG07KPCE/ASYG09KPCE/ASYG12KPCE: R32 (675)

- **Charge kg (CO2eq-T):**
  - ASYG07KPCE: 0.55 (0.371)
  - ASYG09KPCE: 0.55 (0.371)
  - ASYG12KPCE: 0.59 (0.398)

---

**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 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 airflow 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. WLAN adapter can be installed easily without specialized installation work.

**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.
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 Heating

Cooling 46°C

Heating 24°C

-10°C

-15°C
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.

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.

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 airflow patterns according to the room layout.

*Wired remote controller (touch panel) (UTY-RNRYZ3) 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 MOBUS, KNX interfaces.

Various Cassette Grilles

Both 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.

- **UTG-UKYK-W** White Grille (Remote controller (touch panel))
- **UTG-UKYK-B** Black Grille
- **UTG-UKYK-W** White Grille

**Specifications**

- **Model**: AUXG/UTG-UKYA-18/22/24KRLB
- **For AUXG/UTG-UKYA-B**
- **For AUXG/UTG-UKYA-R**
- **For AUXG/UTG-UKYA-W**
- **For AUXG/UTG-UKYB-18/22/24KRLB**
- **For AUXG/UTG-UKYB-R**
- **For AUXG/UTG-UKYB-W**
- **For AUXG/UTG-UKYK-18/22/24KRLB**
- **For AUXG/UTG-UKYK-R**
- **For AUXG/UTG-UKYK-W**

**Dimensions**

- **Height**: -22.7%

**Optional parts**

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list on Page C-046.

- **Compact wired remote controller (touch panel)**: UTY-RNRYZ3
- **Wired remote controller**: UTY-10521
- **Wired remote controller (touch panel)**: UTY-10522
- **Central Control System**: MOBUS, KNX interfaces

**More comfortable air conditioning**

- **More comfortable air conditioning**

**Central Control System**

- **Central Control System**

**Link up with a variety of Central Control System (Option)**

Centralized control including fixtures and equipment in addition to air conditioning is possible by linking central control systems with MOBUS, KNX interfaces.
**SPLIT**

**Slim Duct**

*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 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.

---

**Specifications**

### Basic Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXG09KLLAP</th>
<th>ARXG12KLLAP</th>
<th>ARXG14KLLAP</th>
<th>ARXG18KLLAP</th>
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<tbody>
<tr>
<td>Power Source</td>
<td>Single phase</td>
<td>Single phase</td>
<td>Single phase</td>
<td>Single phase</td>
</tr>
<tr>
<td>Capacity</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Indoor (Cooling) kW Power factor</td>
<td></td>
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<td></td>
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<tr>
<td>Outdoor (Cooling/Heating) kW Power factor</td>
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<td></td>
<td></td>
<td></td>
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<td>Static pressure range (Standard)</td>
<td>0 to 90 Pa</td>
<td>0 to 90 Pa</td>
<td>0 to 90 Pa</td>
<td>0 to 90 Pa</td>
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<td>0.85 (0.574)</td>
<td>0.85 (0.574)</td>
<td>1.02 (0.689)</td>
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<tr>
<td><strong>Dimensions</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoor kg (lbs)</td>
<td>32 (71)</td>
<td>33 (73)</td>
<td>33 (73)</td>
<td>36 (79)</td>
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<tr>
<td>Outdoor kg (lbs)</td>
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<td>168</td>
<td>174</td>
<td>178</td>
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<td><strong>Power Consumption</strong></td>
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<tr>
<td>Indoor kW</td>
<td>0.60/0.79</td>
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<td>3.5/3.4</td>
<td>4.3/3.8</td>
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<td>R32</td>
<td>R32</td>
<td>R32</td>
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<tr>
<td><strong>Operating Range</strong></td>
<td>Indoor (-10°C) kW</td>
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<td><strong>Cooling/Heating (-10°C) kW</strong></td>
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<td>4.3/3.8</td>
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<tr>
<td><strong>SCOP</strong></td>
<td>A++</td>
<td>A++</td>
<td>A+</td>
<td>A++</td>
</tr>
<tr>
<td><strong>SEER</strong></td>
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<td>A+++</td>
<td>A++</td>
<td>A+++</td>
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<td><strong>COP</strong></td>
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<td><strong>Moisture Removal</strong></td>
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<td>33</td>
<td>33</td>
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<td><strong>Sound Pressure Level</strong></td>
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<td>940/2,160</td>
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<td>10.2/10.2</td>
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<td>10.2/10.2</td>
<td>12.1/12.1</td>
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<td>48</td>
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<td><strong>External switch controller</strong></td>
<td>UTY-RSNYM</td>
<td>UTY-RSRY</td>
<td>UTY-RHRY</td>
<td>UTY-RVNYM</td>
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<td><strong>Network Convertor</strong></td>
<td>UTY-RNNYM</td>
<td>UTY-RLRY</td>
<td>UTY-RCRYZ1</td>
<td>UTY-RSNYM</td>
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<td>UTY-LBTYM</td>
<td>UTD-GXTB-W (18)</td>
<td>UTD-GXTA-W (09-14)</td>
<td>UTY-LBYZ</td>
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<td>UTD-GXTA-W (09-14)</td>
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<td>UTY-VTGX</td>
<td>UTY-VTGX</td>
<td>UTY-VTGX</td>
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<td>UTY-VTGX</td>
<td>UTY-VTGX</td>
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<tr>
<td><strong>WLAN adapter</strong></td>
<td>UTY-RSNYM</td>
<td>UTY-RSRY</td>
<td>UTY-RHRY</td>
<td>UTY-RVNYM</td>
</tr>
</tbody>
</table>

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*For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.*
Medium Static Pressure Duct
Compact Size

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.

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

<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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<td>ARXG45KHTAP</td>
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<tr>
<td>Refrigerant</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
<td>R32 model</td>
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<td>W x H x D</td>
<td>W x H x D</td>
<td>W x H x D</td>
<td>W x H x D</td>
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<td>33 kg</td>
<td>33 kg</td>
<td>33 kg</td>
<td>33 kg</td>
<td>33 kg</td>
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</tbody>
</table>
| Energy Efficiency & Quiet Operation
  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.
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 skin 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.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit</th>
<th>ARXG22KMLB</th>
<th>ARXG24KMLA</th>
<th>ARXG30KMLA</th>
<th>ARXG45KMLA</th>
<th>ARXG54KMLA</th>
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<tbody>
<tr>
<td>Power Source</td>
<td>Single phase, 50 Hz 240 V</td>
<td>Single phase, 50 Hz 240 V</td>
<td>3-phase, 400 V, 50 Hz</td>
<td>3-phase, 400 V, 50 Hz</td>
<td>3-phase, 400 V, 50 Hz</td>
<td>3-phase, 400 V, 50 Hz</td>
<td>3-phase, 400 V, 50 Hz</td>
<td>3-phase, 400 V, 50 Hz</td>
</tr>
<tr>
<td>Capacity</td>
<td>2.0 kW</td>
<td>2.5 kW</td>
<td>3.0 kW</td>
<td>4.0 kW</td>
<td>5.0 kW</td>
<td>6.0 kW</td>
<td>7.0 kW</td>
<td>8.0 kW</td>
</tr>
<tr>
<td>Indoor Power (Cooling)</td>
<td>1,900 W</td>
<td>2,500 W</td>
<td>3,000 W</td>
<td>4,000 W</td>
<td>5,000 W</td>
<td>6,000 W</td>
<td>7,000 W</td>
<td>8,000 W</td>
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<tr>
<td>Indoor Power (Heating)</td>
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<td>4,000 W</td>
<td>5,000 W</td>
<td>6,000 W</td>
<td>7,000 W</td>
<td>8,000 W</td>
<td>9,000 W</td>
<td>10,000 W</td>
</tr>
<tr>
<td>Indoor Power (Cooling/Heating)</td>
<td>2,050 W</td>
<td>2,800 W</td>
<td>3,350 W</td>
<td>4,800 W</td>
<td>5,750 W</td>
<td>6,800 W</td>
<td>8,200 W</td>
<td>9,500 W</td>
</tr>
<tr>
<td>Indoor Power (Cooling/Heating)</td>
<td>2,100 W</td>
<td>3,000 W</td>
<td>3,500 W</td>
<td>4,800 W</td>
<td>5,800 W</td>
<td>6,800 W</td>
<td>8,000 W</td>
<td>9,500 W</td>
</tr>
<tr>
<td>Indoor Power (Cooling/Heating)</td>
<td>2,200 W</td>
<td>3,100 W</td>
<td>3,700 W</td>
<td>4,800 W</td>
<td>5,800 W</td>
<td>6,800 W</td>
<td>8,000 W</td>
<td>9,500 W</td>
</tr>
<tr>
<td>Indoor Power (Cooling/Heating)</td>
<td>2,300 W</td>
<td>3,300 W</td>
<td>4,000 W</td>
<td>5,000 W</td>
<td>6,000 W</td>
<td>7,000 W</td>
<td>8,000 W</td>
<td>9,500 W</td>
</tr>
<tr>
<td>Indoor Power (Cooling/Heating)</td>
<td>2,400 W</td>
<td>3,500 W</td>
<td>4,300 W</td>
<td>5,500 W</td>
<td>6,500 W</td>
<td>7,500 W</td>
<td>9,000 W</td>
<td>10,000 W</td>
</tr>
<tr>
<td>Indoor Power (Cooling/Heating)</td>
<td>2,500 W</td>
<td>3,700 W</td>
<td>4,700 W</td>
<td>6,000 W</td>
<td>7,000 W</td>
<td>8,000 W</td>
<td>10,000 W</td>
<td>12,000 W</td>
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</table>

Optional parts
- For optional parts compatibility of indoor units, refer to the optional parts compatibility list on page C-046.

Options
- Link up with a variety of Central Control System (Option)
- Centrally control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, KNX interfaces.

Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Side view</th>
</tr>
</thead>
<tbody>
<tr>
<td>Side view 1</td>
<td></td>
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<tr>
<td>Side view 2</td>
<td></td>
</tr>
<tr>
<td>Side view 3</td>
<td></td>
</tr>
<tr>
<td>Side view 4</td>
<td></td>
</tr>
</tbody>
</table>
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.

Design also suits high static pressure

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

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<td>kW</td>
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<tr>
<td>Input Power</td>
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<td>Dimensions</td>
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<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Heating</td>
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<td>Connected power</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Input Power</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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</tr>
<tr>
<td>Indoor unit</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
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<td>kW</td>
<td>kW</td>
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</tr>
<tr>
<td>Heating</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Indoor (Cooling/Heating)</td>
<td>kW</td>
<td>3.74</td>
<td>3.71</td>
<td>3.74</td>
</tr>
<tr>
<td>Outdoor (Cooling/Heating)</td>
<td>kW</td>
<td>3.74</td>
<td>3.71</td>
<td>3.74</td>
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<td>kW</td>
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<tr>
<td>Input Power</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Indoor unit</td>
<td>kW</td>
<td>kW</td>
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<tr>
<td>Heating</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>Indoor (Cooling/Heating)</td>
<td>kW</td>
<td>3.74</td>
<td>3.71</td>
<td>3.74</td>
</tr>
<tr>
<td>Outdoor (Cooling/Heating)</td>
<td>kW</td>
<td>3.74</td>
<td>3.71</td>
<td>3.74</td>
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</tbody>
</table>

Optional parts

- For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Dimensions

<table>
<thead>
<tr>
<th>Dimensions (Unit: mm)</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>45 model 46 (101)</td>
<td>Height 46 model 46 (101)</td>
</tr>
<tr>
<td>Width</td>
<td>46 (101)</td>
<td>46 (101)</td>
</tr>
<tr>
<td>Depth</td>
<td>46 (101)</td>
<td>46 (101)</td>
</tr>
<tr>
<td>Weight</td>
<td>kg (lbs)</td>
<td>13.4 (5.0-14.5)</td>
</tr>
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</table>

Models:
- ARXG45KHTB/ARXG54KHTB
- ARXG45KHTB [3-phase]/ARXG54KHTB [3-phase]
**Model: ARYG60LHTA [3-phase]**

### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Name</td>
<td>ARYG60LHTA</td>
<td>AOYG60LATT</td>
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<tr>
<td><strong>Power Source</strong></td>
<td>3-phase, ~400 V, 50 Hz</td>
<td></td>
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<tr>
<td><strong>Capacity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cooling kW</strong></td>
<td>15.0 (6.2-17.5)</td>
<td></td>
</tr>
<tr>
<td><strong>Heating kW</strong></td>
<td>18.0 (6.2-20.0)</td>
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<tr>
<td><strong>Input Power</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Cooling/Heating kW</strong></td>
<td>4.70/5.15</td>
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<td><strong>EER</strong></td>
<td>3.19</td>
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<tr>
<td><strong>COP</strong></td>
<td>3.50</td>
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<tr>
<td><strong>Max. Operating Current</strong></td>
<td>12.5/12.5</td>
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<td><strong>Moisture Removal</strong></td>
<td>I/h 2.0</td>
<td></td>
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<tr>
<td><strong>Sound Pressure</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Indoor (Cooling) dB(A)</strong></td>
<td>45/40/36/-</td>
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</tr>
<tr>
<td><strong>Indoor (Heating) dB(A)</strong></td>
<td>45/40/36/-</td>
<td></td>
</tr>
<tr>
<td><strong>Outdoor (Cooling/Heating) dB(A)</strong></td>
<td>56/58</td>
<td></td>
</tr>
<tr>
<td><strong>Airflow Rate</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Indoor/Outdoor (Cooling) m³/h</strong></td>
<td>3,550/6,900</td>
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</tr>
<tr>
<td><strong>Indoor/Outdoor (Heating) m³/h</strong></td>
<td>3,550/7,300</td>
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</tr>
<tr>
<td><strong>Static pressure range</strong></td>
<td>Pa 60 to 260 (60)</td>
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<td><strong>Net Dimensions</strong></td>
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<tr>
<td><strong>Indoor mm</strong></td>
<td>425 × 1,250 × 490</td>
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<td><strong>Outdoor mm</strong></td>
<td>1,290 × 900 × 330</td>
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<tr>
<td><strong>Weight</strong></td>
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<td></td>
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<tr>
<td><strong>Indoor kg (lbs)</strong></td>
<td>54 (119)</td>
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<tr>
<td><strong>Outdoor kg (lbs)</strong></td>
<td>104 (229)</td>
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<tr>
<td><strong>Connection Pipe Diameter</strong></td>
<td>mm 9.52/15.88</td>
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<tr>
<td><strong>Drain Hose Diameter</strong></td>
<td>23.4/25.4</td>
<td></td>
</tr>
<tr>
<td><strong>Max. Pipe Length</strong></td>
<td>m 75 (30)</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Range</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cooling °C</strong></td>
<td>-15 to 46</td>
<td></td>
</tr>
<tr>
<td><strong>Heating °C</strong></td>
<td>-15 to 24</td>
<td></td>
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<tr>
<td><strong>Refrigerant</strong></td>
<td>Type (Global Warming Potential) R410A (2,088)</td>
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<tr>
<td><strong>Charge kg (CO²eq-T)</strong></td>
<td>3.45 (7.204)</td>
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</tbody>
</table>

### Optional parts

- Wired remote controller: UTY-RR0W
- Wired remote controller: UTY-RY0W
- Single remote controller: UTY-RR0W
- External switch controller: UTY-SCRX
- WLAN adapter: UTY-WL02
- Remote sensor unit: UTY-KS2K

### 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.

- Optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.
### 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>Indoor Unit</th>
<th>ARYG72LHTA</th>
<th>ARYG90LHTA</th>
<th>ARYG96LHTA</th>
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</thead>
<tbody>
<tr>
<td>Power Source Indoor</td>
<td>Single phase, 208V, 60 Hz</td>
<td>208V, 60 Hz</td>
<td>208V, 60 Hz</td>
<td>208V, 60 Hz</td>
</tr>
<tr>
<td>Capacity (Cooling)</td>
<td>kW</td>
<td>19.0 (8.4-20.9)</td>
<td>22.0 (10.3-24.2)</td>
<td>27.0 (8.5-29.7)</td>
</tr>
<tr>
<td>Capacity (Heating)</td>
<td>kW</td>
<td>22.4 (7.2-24.6)</td>
<td>27.0 (8.5-29.7)</td>
<td>37.0 (8.5-37.0)</td>
</tr>
<tr>
<td>Input Power (Cooling)</td>
<td>kW</td>
<td>6.46/6.59</td>
<td>7.77/8.18</td>
<td>8.63/9.06</td>
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<td>EER (Cooling)</td>
<td>W/W</td>
<td>2.94</td>
<td>2.83</td>
<td>2.76</td>
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<td>COP (Heating)</td>
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<tr>
<td>Max. Operating Current</td>
<td>A</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Moisture Removal</td>
<td>I/h</td>
<td>4.5</td>
<td>6.0</td>
<td>6.0</td>
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<tr>
<td>Sound Pressure Indoor</td>
<td>dB(A)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Airflow Rate Indoor</td>
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<td>3,400/8,400</td>
<td>3,400/8,400</td>
<td>3,400/8,400</td>
</tr>
<tr>
<td>Static pressure range</td>
<td>Pa</td>
<td>50 to 150 (72)</td>
<td>50 to 200 (72)</td>
<td>50 to 150 (72)</td>
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<tr>
<td>Net Dimensions Indoor</td>
<td>mm</td>
<td>360 × 1,400 × 850</td>
<td>360 × 1,400 × 850</td>
<td>360 × 1,400 × 850</td>
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<td>Weight Indoor</td>
<td>kg</td>
<td>69 (152)</td>
<td>80 (176)</td>
<td>89 (196)</td>
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<tr>
<td>Connection Pipe Diameter (Liquid/Gas)</td>
<td>mm</td>
<td>12.7/25.4</td>
<td>12.7/25.4</td>
<td>12.7/25.4</td>
</tr>
<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
<td>mm</td>
<td>25/32</td>
<td>25/32</td>
<td>25/32</td>
</tr>
<tr>
<td>Max. Pipe Length (Pre-Charge)</td>
<td>m</td>
<td>100 (30)</td>
<td>100 (30)</td>
<td>100 (30)</td>
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<td>Max. Height Difference</td>
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<td>30</td>
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<td>Operating Range Cooling</td>
<td>°C</td>
<td>-15 to 46</td>
<td>-15 to 46</td>
<td>-15 to 46</td>
</tr>
<tr>
<td>Refrigerant Type</td>
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<td>R410A (2,088)</td>
<td>R410A (2,088)</td>
<td>R410A (2,088)</td>
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<tr>
<td>Charge kg (CO2eq-T)</td>
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<td>5.6 (11.693)</td>
<td>7.1 (14.825)</td>
<td>7.1 (14.825)</td>
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</table>

### Optional parts

- **Compact wired remote controller:** LTY-ERDV21
- **WLAN adapter:** LTY-ERDV21
- **Central Control System (Option):** MODBUS, KNX interfaces

### Central Control System

- **Network interface:** LTY-ERDV21 (MODBUS, KNX)
- **Remote sensor unit:** LTY-ERDV21
- **Daisy chain kit:** LTY-ERDV21

### Dimensions

- **Top View**
- **Side View (R) & (L)**
- **Rear View**
- **Front View**

![Image of central control system](image-url)
High energy saving
The Floor 09 class achieves a top-class MER of 8.50 and an A++ seasonal efficiency rank for cooling. The Floor 09 class achieves an improved SCOP of 4.30 and an A+++ seasonal efficiency rank for heating.

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.

Smart device Control (Option)
With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

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.

SPLIT

Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>SCOP</th>
<th>SEER</th>
<th>COP Heating</th>
<th>SEER Cooling</th>
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<tbody>
<tr>
<td>AGYG09/12KVCA</td>
<td>4.30</td>
<td>8.50</td>
<td>4.00</td>
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<tr>
<td>AGYG14KVCA</td>
<td>4.30</td>
<td>8.50</td>
<td>4.00</td>
<td>8.10</td>
</tr>
</tbody>
</table>

Optional parts
* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.
Ceiling

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.

The drain pan can be removed for cleaning.

Components in the control box can be easily accessed from the wide side opening.

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>2.0 Ton</th>
<th>3.0 Ton</th>
<th>4.0 Ton</th>
<th>5.0 Ton</th>
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<td>Power</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
<td>kW</td>
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<td>Noise</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
<td>dB(A)</td>
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<td>Airflow</td>
<td>m³/min</td>
<td>m³/min</td>
<td>m³/min</td>
<td>m³/min</td>
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<td>Energy</td>
<td>kW</td>
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<td>Power Source</td>
<td>DC</td>
<td>DC</td>
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<td>DC</td>
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Optional parts

- For optional parts compatibility of indoor devices, refer to the optional parts compatibility list on page C-56.

Dimensions

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<thead>
<tr>
<th></th>
<th>A</th>
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<tbody>
<tr>
<td>ABYG18/22KRTA</td>
<td>1,080</td>
<td>503</td>
</tr>
<tr>
<td>ABYG24/30KRTA</td>
<td>1,100</td>
<td>515</td>
</tr>
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<td>ABYG36/45/54KRTA</td>
<td>1,130</td>
<td>534</td>
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<td>ABYG36KRTA</td>
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<td>ABYG45/54KRTA</td>
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<td>ABYG54KRTA</td>
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<td>534</td>
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<tr>
<td>ABYG60KRTA</td>
<td>1,150</td>
<td>543</td>
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</table>

Wired remote controller:
- For ABYG18/22KRTA: UTY-RSRY
- For ABYG24KRTA: UTY-RLRY
- For ABYG30/36KRTA: UTY-RNRYZ5

External switch controller:
- For ABYG18/22KRTA: UTY-XWZXZ3
- For ABYG24KRTA: UTY-VTGX

Drain pump unit:
- For ABYG18/22KRTA: UTP-FX35A (30/36/45/54)
- For ABYG24KRTA: UTP-FX50A (36/45/54/60)
- For ABYG30/36KRTA: UTP-FX70A (45/54/60/75)
- For ABYG45/54KRTA: UTP-FX90A (54/60/75/90)
- For ABYG54KRTA: UTP-FX110A (60/75/90/110)
- For ABYG60KRTA: UTP-FX130A (75/90/110/130)

Network Convertor for single split (DC power supply type):
- For ABYG18/22KRTA: UTY-VK03A
- For ABYG24KRTA: UTY-VK06A
- For ABYG30/36KRTA: UTY-VK09A
- For ABYG45/54KRTA: UTY-VK12A
- For ABYG54KRTA: UTY-VK15A
- For ABYG60KRTA: UTY-VK18A

Network Convertor for single split (AC power supply type):
- For ABYG18/22KRTA: UTY-VK3A
- For ABYG24KRTA: UTY-VK6A
- For ABYG30/36KRTA: UTY-VK9A
- For ABYG45/54KRTA: UTY-VK12A
- For ABYG54KRTA: UTY-VK15A
- For ABYG60KRTA: UTY-VK18A
### Compact cassette

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor coil</th>
<th>Outdoor coil</th>
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<th>Indoor coil</th>
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<th>Indoor coil</th>
<th>Outdoor coil</th>
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</thead>
<tbody>
<tr>
<td>Power Source</td>
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<td>Airflow Rate</td>
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<td>Dimensions (H × W × D)</td>
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<tr>
<td>Refrigerant Type (Global Warming Potential)</td>
<td>Indoor coil</td>
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### Circular cassette

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor coil</th>
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<tbody>
<tr>
<td>Power Source</td>
<td>Indoor coil</td>
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<tr>
<td>Capacity</td>
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<td>Indoor coil</td>
<td>Outdoor coil</td>
<td>Indoor coil</td>
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<td>Airflow Rate</td>
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<td>SCOP</td>
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<td>Weight</td>
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<td>Outdoor coil</td>
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<td>Outdoor coil</td>
</tr>
<tr>
<td>Dimensions (H × W × D)</td>
<td>Indoor coil</td>
<td>Outdoor coil</td>
<td>Indoor coil</td>
<td>Outdoor coil</td>
<td>Indoor coil</td>
<td>Outdoor coil</td>
<td>Indoor coil</td>
<td>Outdoor coil</td>
</tr>
<tr>
<td>Refrigerant Type (Global Warming Potential)</td>
<td>Indoor coil</td>
<td>Outdoor coil</td>
<td>Indoor coil</td>
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<td>Indoor coil</td>
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</tr>
</tbody>
</table>

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**ECO Series Lineup Specifications**

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**Compact cassette**

- **Model name**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Capacity**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Airflow Rate**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **SCOP**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **EER**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Weight**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Dimensions (H × W × D)**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Refrigerant Type (Global Warming Potential)**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil

**Circular cassette**

- **Model name**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Capacity**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Airflow Rate**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **SCOP**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **EER**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Weight**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Dimensions (H × W × D)**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil
- **Refrigerant Type (Global Warming Potential)**: Indoor coil, Outdoor coil, Indoor coil, Outdoor coil

---

**Disclaimer**

The information provided is for reference purposes only and may not be 100% accurate. Always consult the manufacturer's specifications for the most up-to-date and accurate information.
### Medium Static Pressure Duct

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Capacity Cooling kW</th>
<th>Capacity Heating kW</th>
<th>Input Power Cooling/kW</th>
<th>Input Power Heating/kW</th>
<th>EER Cooling</th>
<th>SCOP Heating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling</td>
<td>ARYG09KATA AOYG12KATA AOYG14KATA AOYG18KATA AOYG22KATA AOYG24KATA AOYG30KATA AOYG36KATA AOYG45KATA</td>
<td>ARXG09KLLA ARXG12KLLA ARXG14KLLA ARXG18KLLA ARXG22KMLA ARXG24KMLA ARXG30KMLA ARXG36KMLA ARXG45KMLA</td>
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<td>3.9</td>
<td>3.9</td>
<td>3.9</td>
<td>3.9</td>
<td>3.9</td>
</tr>
<tr>
<td>Slim Duct</td>
<td>AOYG09KATA AOYG12KATA AOYG14KATA AOYG18KATA AOYG22KATA AOYG24KATA AOYG30KATA AOYG36KATA AOYG45KATA</td>
<td>ARXG09KLLA ARXG12KLLA ARXG14KLLA ARXG18KLLA ARXG22KMLA ARXG24KMLA ARXG30KMLA ARXG36KMLA ARXG45KMLA</td>
<td>3.9</td>
<td>3.9</td>
<td>3.9</td>
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</tr>
</tbody>
</table>

### Medium Static Pressure Duct

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Capacity Cooling kW</th>
<th>Capacity Heating kW</th>
<th>Input Power Cooling/kW</th>
<th>Input Power Heating/kW</th>
<th>EER Cooling</th>
<th>SCOP Heating</th>
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<tbody>
<tr>
<td>Ceiling</td>
<td>ARYG09KATA AOYG12KATA AOYG14KATA AOYG18KATA AOYG22KATA AOYG24KATA AOYG30KATA AOYG36KATA AOYG45KATA</td>
<td>ARXG09KLLA ARXG12KLLA ARXG14KLLA ARXG18KLLA ARXG22KMLA ARXG24KMLA ARXG30KMLA ARXG36KMLA ARXG45KMLA</td>
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</tr>
<tr>
<td>Slim Duct</td>
<td>AOYG09KATA AOYG12KATA AOYG14KATA AOYG18KATA AOYG22KATA AOYG24KATA AOYG30KATA AOYG36KATA AOYG45KATA</td>
<td>ARXG09KLLA ARXG12KLLA ARXG14KLLA ARXG18KLLA ARXG22KMLA ARXG24KMLA ARXG30KMLA ARXG36KMLA ARXG45KMLA</td>
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</tbody>
</table>
## Feature Summary

<table>
<thead>
<tr>
<th>Feature Category</th>
<th>Wall-mounted Type</th>
<th>Wall-mounted Type</th>
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</thead>
<tbody>
<tr>
<td><strong>Energy-Saving Features</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual-fan</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Sensor Occupancy sensor</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Sensor &amp; Stop Occupancy sensor</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Economy mode</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Setting temperature range limitation</td>
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<td>Set temperature auto-return</td>
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<td>○</td>
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<tr>
<td><strong>Features for Comfort</strong></td>
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<td>Powerful heating</td>
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<tr>
<td>Powerful mode</td>
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<tr>
<td>ECO heat</td>
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<td>ECO mode</td>
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<tr>
<td>Auto changeover</td>
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<tr>
<td>ECO Mode saving feature</td>
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<tr>
<td>Double swing automatic</td>
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<tr>
<td>Automatic fan speed</td>
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<tr>
<td>Auto restart</td>
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<tr>
<td>Connectable fresh air duct</td>
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<tr>
<td>Fresh air intake</td>
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<tr>
<td>Connectable distributing duct</td>
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<tr>
<td>Individual airflow direction control</td>
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<tr>
<td>Auto-off timer</td>
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<tr>
<td>Sleep timer</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Program timer</td>
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<tr>
<td>Weekly timer</td>
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<tr>
<td>Weekly &amp; Temperature setback timer</td>
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<tr>
<td>Filter sign</td>
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<td>External error output</td>
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<td>External ON/OFF input</td>
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<td>Wireless LAN control</td>
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<td>Multi system control</td>
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<tr>
<td>Plasma air clean</td>
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<tr>
<td>Filter auto-clean</td>
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<tr>
<td>Hot deodorisation filter</td>
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<tr>
<td>Apple-catechin filter</td>
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<tr>
<td>Long-life filter</td>
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<tr>
<td>Workable panel</td>
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<tr>
<td>Silver ion filter</td>
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<tr>
<td>Automatic airflow adjustment</td>
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<tr>
<td>Drain pump as standard</td>
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<td>○</td>
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<tr>
<td>Bike rod</td>
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## Feature Summary

<table>
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<tr>
<th>Type</th>
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<th>Duct</th>
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<td>ARKBA</td>
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</tr>
</tbody>
</table>

### Additional Features

- **Energy-Saving Features**
  - Dual-fan
  - Save Occupancy sensor
  - Save & Stop Occupancy sensor
  - Economy mode
  - Setting temperature range limitation
  - Set temperature auto-round

- **Features for Comfort**
  - Powerful heating
  - Power diffuser
  - Powerful mode
  - 50Hz
  - Low noise mode
  - Auto changeover
  - ERD30HR use
  - BP50HR use automatic
  - Automatic fan speed
  - Auto restart
  - Connectable fresh air duct
  - Fresh air intake
  - Connectable distributing duct
  - Auto-off timer
  - Sleep timer
  - Program timer
  - Weekly timer
  - Connectable fresh air direction control

- **Convenience Features**
  - Auto-off timer
  - Sleep timer
  - Program timer
  - Weekly timer
  - Connectable fresh air direction control
  - Auto-off timer
  - Sleep timer
  - Program timer
  - Weekly timer
  - Connectable fresh air direction control

- **Clean Features**
  - Plasma air clean
  - Filter auto clean
  - Ion deodorization filter
  - Apple catechin filter
  - Long-life filter
  - Washable panel
  - Silver Ion Filter
  - Automatic airflow adjustment
  - Drain pump as standard
  - Blink

- **Installation / Support**
  - Automatic airflow adjustment
  - Drain pump as standard
  - Blink

- **Optional function**
  - Blue fin

### Model Names

- **AUXG**
  - 09/12/14/18/22/24
  - KVLA

- **KVCA**
  - 09/12/14/18

- **ARXG**
  - 09/12/14/18
  - KLLP

- **AKYG**
  - 09/12/14/18
  - KVCA

- **KRTA**
  - 09/12/14/18

- **AKYG**
  - 09/12/14/18

- **KRLA**
  - 09/12/14/18

- **KMLA**
  - 09/12/14/18

- **KHTA**
  - 09/12/14/18
Light Commercial & Residential

MULTI-SPLIT

Refrigerant type R32 models
- M-012 2-unit to 5-unit Multi-split
- M-018 Simultaneous Multi-split Twin/Triple
- M-022 2-unit to 5-unit Multi-split Indoor Units Specifications
- M-026 2-unit to 5-unit Multi-split Combination Table

Refrigerant type R410A models
- M-014 6-unit Multi-split
- M-016 8-unit Multi-split
- M-020 Simultaneous Multi-split Type
- M-024 6-unit to 8-unit Multi-split Indoor Units Specifications
- M-036 6-unit to 8-unit Multi-split Combination Table

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.

### 2-unit to 8-unit Multi-split

Recommended for residences, offices, and other situations where multiple rooms require air conditioning. Each of the 2 to 8 connected indoor units can also 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.

### 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>8-unit Multi-split Up to 8 units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AOYG14KBTA2</td>
<td>AOYG18KBTA2</td>
<td>AOYG24KBTA3</td>
<td>AOYG30KBTA4</td>
<td>AOYG45LBLA6*</td>
<td>AOYG45LBT8*</td>
</tr>
<tr>
<td>2-unit</td>
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</tr>
<tr>
<td>8-unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### Notes:

1. **2-unit Multi-split**: Connectable indoor units are 2 units.
   - AOYG14KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
   - AOYG18KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 7.5 kW.
2. **3-unit Multi-split**: Connectable indoor units are 2 to 3 units.
   - AOYG18KBTA3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
   - AOYG24KBTA3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.
3. **4-unit Multi-split**: Connectable indoor units are 2 to 4 units.
   - AOYG30KBTA4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.
4. **5-unit Multi-split**: Connectable indoor units are 2 to 5 units.
   - AOYG36KBTA5*: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.
5. **6-unit Multi-split**: Connectable indoor units are 2 to 6 units.
   - AOYG45LBLA6*: Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.
6. **8-unit Multi-split**: Connectable indoor units are 2 to 8 units.
   - AOYG45LBT8*: Total capacity of indoor units connected must be between 11.0 kW and 18.0 kW.

---

**Cooling rated capacity:**

- **2-unit Multi-split**: 4.0 kW
- **3-unit Multi-split**: 4.0 kW to 7.5 kW
- **4-unit Multi-split**: 6.8 kW to 14.0 kW
- **5-unit Multi-split**: 10.0 kW to 15.5 kW
- **6-unit Multi-split**: 12.5 kW to 18.0 kW
- **8-unit Multi-split**: 14.0 kW to 18.0 kW

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**FUJITSU GENERAL (Euro) GmbH participates in the ECP program for VRF.**

Check ongoing validity of certificate: www.eurovent-certification.com

*Models so marked are not ECC certified.*

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**Cooling rated capacity:**

- **Class 14 18 18 24 30 36 45 54 72 90**
- **Cooling rated capacity:**
  - **2-unit Multi-split:** 4.0 kW
  - **3-unit Multi-split:** 4.0 kW to 7.5 kW
  - **4-unit Multi-split:** 6.8 kW to 14.0 kW
  - **5-unit Multi-split:** 10.0 kW to 15.5 kW
  - **6-unit Multi-split:** 12.5 kW to 18.0 kW
  - **8-unit Multi-split:** 14.0 kW to 18.0 kW

---

**Separation tube**
**Branch box**
### 2-unit to 8-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>
<th>6-unit</th>
<th>8-unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model frame</td>
<td>AOYG14KBTA2</td>
<td>AOYG18KBTA2</td>
<td>AOYG18KBTA3</td>
<td>AOYG24KBTA3</td>
<td>AOYG30KBTA4</td>
<td>AOYG36KBTA5</td>
</tr>
<tr>
<td>Multi-split Type</td>
<td>Indoor Unit</td>
<td>(Branch Box)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity (kW)</td>
<td>Cooling</td>
<td>Heating</td>
<td>Cooling</td>
<td>Heating</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>4.0</td>
<td>-</td>
<td>-</td>
<td>8.0</td>
<td>-</td>
<td>9.5</td>
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<tr>
<td>5.0</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>10.6</td>
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</tr>
<tr>
<td>5.4</td>
<td>-</td>
<td>-</td>
<td>8.0</td>
<td>-</td>
<td>9.6</td>
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<td>6.8</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>8.0</td>
<td>-</td>
<td>-</td>
<td>8.0</td>
<td>-</td>
<td>9.6</td>
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<tr>
<td>9.5</td>
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<td>9.6</td>
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<td>10.6</td>
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<table>
<thead>
<tr>
<th>Type</th>
<th>6-unit</th>
<th>8-unit</th>
</tr>
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<tbody>
<tr>
<td>Model frame</td>
<td>AOYG45LBLA6</td>
<td>AOYG45LBT8</td>
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<tr>
<td>Multi-split Type</td>
<td>Indoor Unit</td>
<td>(Branch Box)</td>
</tr>
<tr>
<td>Capacity (kW)</td>
<td>Cooling</td>
<td>Heating</td>
</tr>
<tr>
<td>12.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13.5</td>
<td>-</td>
<td>-</td>
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<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>BTU</th>
<th>kW Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYG07/09/12/14KGTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASYG07/09/12/14KMCE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASYG07/09/12/14KETE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASYG07/09/12/14KETE-B</td>
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<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>BTU</th>
<th>kW Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASYG18/22/24KMTE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASYG18/22KRTA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABYG14LVTA</td>
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<td></td>
</tr>
<tr>
<td>ABYG18LVTB</td>
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<td></td>
</tr>
<tr>
<td>ARYG07/09/12/14/18KSLAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARYG07/09/12/14/18LL</td>
<td></td>
<td></td>
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</table>
Simultaneous Multi-split Connectable Indoor Units

<table>
<thead>
<tr>
<th>Model name</th>
<th>Type</th>
<th>EER</th>
<th>EER</th>
<th>EER</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOYG72LRLA</td>
<td>8HP</td>
<td>19.0</td>
<td>22.0</td>
<td></td>
</tr>
<tr>
<td>AOYG90LRLA</td>
<td>10HP</td>
<td>22.4</td>
<td>27.0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (kW)</th>
<th>Indoor Unit BTU</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cooling</td>
<td>kW</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Heating</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indoor Unit</th>
<th>BTU</th>
<th>kW</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUYG18/22/24LV</td>
<td>18,000</td>
<td>5.0</td>
<td>Twin</td>
</tr>
<tr>
<td>AUYG22/24/30/36/45LR</td>
<td>22,000</td>
<td>6.5</td>
<td>Twin</td>
</tr>
<tr>
<td>AUYG30/36/45LR</td>
<td>30,000</td>
<td>8.8</td>
<td>Twin</td>
</tr>
<tr>
<td>AUYG36/42/48LR</td>
<td>36,000</td>
<td>10.6</td>
<td>Twin</td>
</tr>
<tr>
<td>AUYG45/54/60LR</td>
<td>45,000</td>
<td>12.5</td>
<td>Twin</td>
</tr>
</tbody>
</table>

Separation tube: UTP-SX272A UTILITY R-32 Fitting UTP-SX372A

Simultaneous Multi-split Outdoor Unit

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity (kW)</th>
<th>Outdoor Unit BTU</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heating</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outdoor Unit</th>
<th>BTU</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>AYG18/24LV</td>
<td>18,000</td>
<td>5.0</td>
</tr>
<tr>
<td>AYG18/24/30/36/45LM</td>
<td>22,000</td>
<td>6.5</td>
</tr>
<tr>
<td>AYG30/36/45LR</td>
<td>30,000</td>
<td>8.8</td>
</tr>
<tr>
<td>AYG36/42/48LR</td>
<td>36,000</td>
<td>10.6</td>
</tr>
<tr>
<td>AYG45/54/60LR</td>
<td>45,000</td>
<td>12.5</td>
</tr>
</tbody>
</table>

Separation tube: UTP-SX236A (18/22/24) UTP-SX354A (18)
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.

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.

Sound Power Level
* 3 unit 24 class (cooling)

61 dB(A)
68 dB(A)

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.

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.

Models equipped with the New R32 Refrigerant
Wall-mounted type with sophisticated design

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

Models

*: Compared with current 5-unit multi models.
### Specifications (2-unit)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>AOYG14KBTA2</th>
<th>AOYG18KBTA3</th>
<th>AOYG24KBTA3</th>
<th>AOYG30KBTA4</th>
<th>AOYG36KBTA5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>Single phase</td>
<td>3.8 kW (13.1)</td>
<td>5.0 kW (16.8)</td>
<td>6.3 kW (21.9)</td>
<td>8.0 kW (27.5)</td>
</tr>
<tr>
<td>COP Heating</td>
<td>4.89</td>
<td>4.40</td>
<td>4.91</td>
<td>5.00</td>
<td>5.10</td>
</tr>
<tr>
<td>EER Cooling</td>
<td>3.90</td>
<td>3.80</td>
<td>4.34</td>
<td>4.03</td>
<td>4.10</td>
</tr>
<tr>
<td>HVAC Cooling/Heating</td>
<td>m³/h</td>
<td>2,400/2,950</td>
<td>2,450/2,900</td>
<td>2,720/3,270</td>
<td>3,060/3,620</td>
</tr>
<tr>
<td>Sound Power Level</td>
<td>dB(A)</td>
<td>64</td>
<td>64</td>
<td>65</td>
<td>66</td>
</tr>
<tr>
<td>Sound Pressure Level</td>
<td>dB(A)</td>
<td>56</td>
<td>57</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>Max Height Difference</td>
<td>m</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Max. Pipe Length* Total/Each</td>
<td>m</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Connection Pipe Diameter</td>
<td>mm</td>
<td>6.35 × 2</td>
<td>6.35 × 2</td>
<td>6.35 × 2</td>
<td>9.52 × 2</td>
</tr>
<tr>
<td>Weight</td>
<td>kg (lbs)</td>
<td>46 (102)</td>
<td>46 (102)</td>
<td>50 (110)</td>
<td>55 (121)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>542 × 799 × 290</td>
<td>632 × 799 × 290</td>
<td>716 × 820 × 315</td>
<td>884 × 820 × 315</td>
</tr>
</tbody>
</table>

### Specifications (3-unit)

<table>
<thead>
<tr>
<th>Model Name</th>
<th>AOYG18KBTA3</th>
<th>AOYG24KBTA3</th>
<th>AOYG30KBTA4</th>
<th>AOYG36KBTA5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>Single phase</td>
<td>5.4 kW (18.5)</td>
<td>6.3 kW (21.9)</td>
<td>8.0 kW (27.5)</td>
</tr>
<tr>
<td>COP Heating</td>
<td>4.4 (1.1-5.5)</td>
<td>4.4 (1.1-5.5)</td>
<td>5.6 (1.8-6.6)</td>
<td>6.6 (2.0-8.0)</td>
</tr>
<tr>
<td>EER Cooling</td>
<td>4.0 (1.4-4.6)</td>
<td>4.0 (1.4-4.6)</td>
<td>5.0 (1.7-5.8)</td>
<td>6.8 (1.8-8.5)</td>
</tr>
<tr>
<td>HVAC Cooling/Heating</td>
<td>m³/h</td>
<td>2,220/2,730</td>
<td>2,450/3,000</td>
<td>2,950/3,500</td>
</tr>
<tr>
<td>Sound Power Level</td>
<td>dB(A)</td>
<td>56</td>
<td>56</td>
<td>58</td>
</tr>
<tr>
<td>Sound Pressure Level</td>
<td>dB(A)</td>
<td>46</td>
<td>46</td>
<td>48</td>
</tr>
<tr>
<td>Max Height Difference</td>
<td>m</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Max. Pipe Length* Total/Each</td>
<td>m</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Connection Pipe Diameter</td>
<td>mm</td>
<td>9.52 × 2</td>
<td>9.52 × 2</td>
<td>9.52 × 2</td>
</tr>
<tr>
<td>Weight</td>
<td>kg (lbs)</td>
<td>55 (121)</td>
<td>59 (130)</td>
<td>71 (155)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>716 × 820 × 315</td>
<td>884 × 820 × 315</td>
<td>923 × 1270 × 350</td>
</tr>
</tbody>
</table>

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

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<thead>
<tr>
<th>Model Name</th>
<th>AOYG24KBTA3</th>
<th>AOYG30KBTA4</th>
<th>AOYG36KBTA5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Capacity</td>
<td>Single phase</td>
<td>6.8 kW (24.0)</td>
<td>8.0 kW (27.5)</td>
</tr>
<tr>
<td>COP Heating</td>
<td>4.63</td>
<td>4.59</td>
<td>4.89</td>
</tr>
<tr>
<td>EER Cooling</td>
<td>4.12</td>
<td>4.03</td>
<td>4.78</td>
</tr>
<tr>
<td>HVAC Cooling/Heating</td>
<td>m³/h</td>
<td>2,270/2,730</td>
<td>2,950/3,500</td>
</tr>
<tr>
<td>Sound Power Level</td>
<td>dB(A)</td>
<td>66</td>
<td>67</td>
</tr>
<tr>
<td>Sound Pressure Level</td>
<td>dB(A)</td>
<td>46</td>
<td>48</td>
</tr>
<tr>
<td>Max Height Difference</td>
<td>m</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Max. Pipe Length* Total/Each</td>
<td>m</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Connection Pipe Diameter</td>
<td>mm</td>
<td>9.52 × 2</td>
<td>9.52 × 2</td>
</tr>
<tr>
<td>Weight</td>
<td>kg (lbs)</td>
<td>59 (130)</td>
<td>71 (155)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>mm</td>
<td>884 × 820 × 315</td>
<td>923 × 1270 × 365</td>
</tr>
</tbody>
</table>

### Dimensions

#### 2-unit: AOYG14KBTA2

- Side view
- Front view
- Top view
- Bottom view

#### 3-unit: AOYG18KBTA3/AOYG24KBTA3

- Side view
- Front view
- Top view
- Bottom view (valve part)

#### 4-unit: AOYG30KBTA4

- Side view
- Front view
- Top view
- Bottom view (valve part)

#### 5-unit: AOYG36KBTA5

- Side view
- Front view
- Top view
- Bottom view (valve part)
A wide variety of models to choose from

We offer 16 models in 4 types in a capacity range from 2.0 kW to 4.0 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 8 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 (1-unit, 6-unit)

<table>
<thead>
<tr>
<th>Model name</th>
<th>AOYG45LBA6</th>
<th>ADYG45LBA6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity (Min., Max.)</td>
<td>Cooling: 12.5 (3.5-14.0)</td>
<td>Heating: 13.5 (3.5-16.0)</td>
</tr>
<tr>
<td></td>
<td>Heating: 10.0</td>
<td>Heating: 10.0</td>
</tr>
<tr>
<td>Voltage</td>
<td>100V</td>
<td>100V</td>
</tr>
<tr>
<td>Current</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Rated Power Factor</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td>Rated Pressure Drop</td>
<td>Heating</td>
<td>55</td>
</tr>
<tr>
<td>Rated Power</td>
<td>Heating</td>
<td>450W</td>
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<tr>
<td>Dimensions</td>
<td>Heating</td>
<td>55</td>
</tr>
<tr>
<td>H × W × D</td>
<td>Heating</td>
<td>55</td>
</tr>
<tr>
<td>mm</td>
<td>Heating</td>
<td>55</td>
</tr>
<tr>
<td>Weight</td>
<td>Heating</td>
<td>94 (207)</td>
</tr>
<tr>
<td>kg (lbs)</td>
<td>Heating</td>
<td>94 (207)</td>
</tr>
<tr>
<td>Connection Pipe Diameter</td>
<td>Liquid</td>
<td>13.0 x 2, 6.35 x 2</td>
</tr>
<tr>
<td>Gas</td>
<td>12.70 x 2, 9.52 x 2</td>
<td></td>
</tr>
<tr>
<td>Max. Pipe Length</td>
<td>Total/Each</td>
<td>80/25</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H × W × D</td>
<td>998 × 970 × 370</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>94 (207)</td>
<td></td>
</tr>
<tr>
<td>Net Dimensions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H × W × D</td>
<td>998 × 970 × 370</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>94 (207)</td>
<td></td>
</tr>
<tr>
<td>Operating Range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>-10°C to 46°C</td>
<td>-15°C to 24°C</td>
</tr>
<tr>
<td>Heating</td>
<td>-15°C to 24°C</td>
<td>-15°C to 24°C</td>
</tr>
<tr>
<td>Refrigerant Type</td>
<td>R410A</td>
<td>R410A</td>
</tr>
<tr>
<td>Charge kg (CO2eq-T)</td>
<td>4.00 (8.352)</td>
<td>4.00 (8.352)</td>
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<tr>
<td>Dimensions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(cable port)</td>
<td>78.3</td>
<td></td>
</tr>
</tbody>
</table>

6-unit: AOYG45LBA6

Max. Controllable
1 multi-system
Max. Controllable
8 indoor units
Compact outdoor unit

The compact design outdoor unit can be installed below a window or in a narrow space.

High seasonal energy efficiency

An air conditioner operates under a wide range of outdoor temperatures depending on the season and climate conditions. Moreover, a multi-split system does not have to cool or warm every room in a house or building all the time. This means that an air conditioner operates at partial capacity, instead of rated capacity, for more than 90% of its operation time. Therefore, we pay attention to the energy-saving performance of our air conditioners based on real-world usage.

The use of our all DC design and proprietary inverter system significantly improves the energy efficiency of our air conditioners operating in partial-load efficiency.

Optimized refrigerant control for faster air conditioning

Optimized refrigerant control allows for faster cooling of every room in a house or building to the desired temperature.

Specifications (Outdoor unit/Branch box)

<table>
<thead>
<tr>
<th>Specifications</th>
<th>AOYG45LBT8</th>
<th>AOYG45LBT8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch Box Model Name</td>
<td>UTP-PY03A</td>
<td>UTP-PY02A</td>
</tr>
<tr>
<td>Connectable Indoor Unit</td>
<td>1 to 3 Units</td>
<td>1 to 2 Units</td>
</tr>
<tr>
<td>Power source</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td>Single phase, ~230 V, 50 Hz</td>
</tr>
<tr>
<td>Available Voltage Range</td>
<td>198-264 V</td>
<td>198-264 V</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>W</td>
<td>10</td>
</tr>
<tr>
<td>Running Current</td>
<td>A</td>
<td>0.05</td>
</tr>
<tr>
<td>Net Dimensions H × W × D mm</td>
<td>195 × 433 × 370</td>
<td>195 × 433 × 370</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>9 (20)</td>
<td>9 (20)</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid °CDB</td>
<td>Main: 9.52 × 1, Branch: 6.35 × 3</td>
</tr>
<tr>
<td>Branch Box Type</td>
<td>Flare</td>
<td>Flare</td>
</tr>
<tr>
<td>Notes: Specifications are determined based on the following conditions:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Two indoor units (7-kW class each) are connected.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Measured in the manufacturer’s anechoic chamber.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Cooling: Indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Heating: Indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Pipe length: 5 m (Outdoor unit - Branch box), 3 m (Branch box - Indoor unit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Height difference: 0 m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>914 × 970 × 370</td>
<td>914 × 970 × 370</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>98 (216)</td>
<td>98 (216)</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid °CDB</td>
<td>Main: 9.52 × 1, Branch: 6.35 × 3</td>
</tr>
</tbody>
</table>

Innovated technology

High-efficiency DC fan: The use of a small DC motor achieves both high performance and high efficiency.

DC fan motor: The use of high-density piping and the 3-row design achieves a compact and energy-efficient heat exchanger.

Heat exchanger: The use of high-density piping and the 3-row design achieves a compact and energy-efficient heat exchanger.

High-efficiency DC in-motor compressor: A high-performance, low noise, large-capacity DC in-motor compressor is used.

Refrigerant control by branch-box

Optimized refrigerant control allows for faster cooling of every room in a house or building to the desired temperature.
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.

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.

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

Specifications (Indoor units/Outdoor units)

### Indoor Units

**Model name**
- Compact Cassette: AUXG18KVLA, AUXG22KVLA, AUXG24KVLA
- Duct: ARXG18KLLAP, ARXG22KMLB, ARXG24KMLA

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

**Airflow Rate**
- Cooling: H/M/L/Q m³/h
- Heating: H/M/L/Q

**Net Dimensions**
- H × W × D mm

**Weight**
- kg (lbs)

**Cassette Grille**
- UTG-UFYF-W

### Outdoor Units

**Model name**
- AOYG36KBTB, AOYG36KRTA
- AOYG45KBTB, AOYG45KRTA
- AOYG54KBTB, AOYG54KRTA

**Capacity**
- Cooling kW
- Heating kW

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

**Design**
- Cooling kW
- Heating (-10°C)

**SEER**
- Cooling W/W

**SCOP**
- Heating

**Annual Energy Consumption**
- Cooling kWh/a
- Heating kWh/a

**Energy Efficiency Class**
- Cooling A++
- Heating A+

**Sound Pressure Level (High)**
- Cooling dB(A)
- Heating dB(A)

**Sound Power Level (High)**
- Cooling dB(A)
- Heating dB(A)

**Airflow Rate**
- Cooling/Heating m³/h

**Net Dimensions**
- H × W × D mm

**Weight**
- kg (lbs)

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

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

**Max. Height Difference**
- m

**Operating Range**
- Cooling °CDB
- Heating °CDB

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

**Charge kg (CO₂eq-T)**
- 1.90 (1.283)
- 2.70 (1.823)

**Separation tube**
- UTP-SX236A (Twin)
- UTP-SX236A (Twin)
- UTP-SX354A (Triple)

* * * *

*Indoor units of different types and capacity cannot be connected.
* The above specifications apply when used with a cassette type indoor unit.

---

### Dimensions

**Model: AOYG36KBTB/AOYG36KRTA**

**AOYG45KBTB/AOYG45KRTA**

**AOYG54KBTB/AOYG54KRTA**

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Meets a variety of installation needs from an open-plan office to a retail store, with up to 4 indoor units 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.

Simultaneous control

Up to 16 indoor units can be controlled simultaneously with a wired remote controller.

Installation according to floor layout
Installation according to lighting conditions
Installation according to layout and lighting conditions
Installation according to large space

Indoor units lineup

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

Specifications (Indoor units/Outdoor units)

<table>
<thead>
<tr>
<th>Indoor Units Model name</th>
<th>Compact Cassette, Cassette</th>
<th>Floor/Ceiling, Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Single phase, ~230 V, 50 Hz</td>
<td>3-phase, ~400 V, 50 Hz</td>
</tr>
<tr>
<td>Refrigerant Type</td>
<td>R410A (2,088)</td>
<td>R410A (2,088)</td>
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<tr>
<td>Max. Pipe Length (Pre-Charge)</td>
<td>m</td>
<td>m</td>
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<td>Max. Height Difference</td>
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<td>30</td>
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<tr>
<td>Operating Range</td>
<td>Cooling °C DB</td>
<td>Heating °C DB</td>
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<td>Capacity Cooling kW</td>
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<td>22.4</td>
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<tr>
<td>Capacity Heating kW</td>
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<td>27.0</td>
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<td>Indoor Units Model name</td>
<td>AUYG18LVLB</td>
<td>AUYG22LVTA</td>
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<td>AUYG24LVLA</td>
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<td>AUYG36LRLE</td>
<td>AUYG45LRLA</td>
</tr>
<tr>
<td>Indoor Units Model name</td>
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<td>ABYG22LVTA</td>
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<td>ABYG36LRTE</td>
<td>ABYG45LRTA</td>
</tr>
<tr>
<td>Airflow Rate Cooling m/h</td>
<td>8,400/8,400</td>
<td>8,400/9,000</td>
</tr>
<tr>
<td>Airflow Rate Heating m/h</td>
<td>780/700/560/500</td>
<td>980/820/680/540</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
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</tr>
<tr>
<td>Net Dimensions H × W × D mm</td>
<td>1,428 × 1,080 × 480</td>
<td>1,428 × 1,080 × 480</td>
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<tr>
<td>Dimensions</td>
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Dimensions

(Unit: mm)
# 2-unit to 5-unit Multi-split Indoor Units Specifications

## Wall-mounted type

<table>
<thead>
<tr>
<th>Model Frame</th>
<th>Indoor unit</th>
<th>Cooling H/M/L/Q</th>
<th>Heating 46/40/35/29</th>
<th>Heating 41/35/31/22</th>
<th>Heating 42/36/31/22</th>
<th>Heating 42/38/33/22</th>
<th>Heating 44/39/33/24</th>
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<tbody>
<tr>
<td></td>
<td>kW Class</td>
<td>kW</td>
<td>dB(A)</td>
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<td>dB(A)</td>
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<td>dB(A)</td>
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<tr>
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<td>44/39/33/24</td>
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## Compact Cassette Grid Type

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<tr>
<th>Model Frame</th>
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<th>Cooling H/M/L/Q</th>
<th>Heating 550/440/390/360</th>
<th>Heating 38/36/33/31</th>
<th>Heating 62</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>dB(A)</td>
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## Mini duct

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<th>Model Frame</th>
<th>Indoor unit</th>
<th>Cooling H/M/L/Q</th>
<th>Heating 3840/3790/3710/3650</th>
<th>Heating 540/490/440/390</th>
<th>Heating 62</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>kW Class</td>
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<td>dB(A)</td>
<td>dB(A)</td>
<td>Level</td>
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## Slim duct

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<td>dB(A)</td>
<td>dB(A)</td>
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<td></td>
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## Medium Static Pressure Duct

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## Floor

<table>
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</table>
## Indoor Units Specifications

### 6-unit to 8-unit Multi-split

#### Compact wall-mounted

<table>
<thead>
<tr>
<th>Model number</th>
<th>Indoor unit</th>
<th>AYG07LUCA</th>
<th>AYG09LUCA</th>
<th>AYG12LUCA</th>
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#### Wall-mounted type

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<th>AYG07LMCE</th>
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<td>52</td>
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<td></td>
<td>Cooling</td>
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</tbody>
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#### Compact cassette

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<tr>
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<td>40/36/31/23</td>
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</tr>
<tr>
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## Floor ceiling

<table>
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<th>AYG09LVB</th>
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<td>42/37/33/25</td>
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<tr>
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<td>58</td>
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## Mini duct

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<td>42/37/33/25</td>
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<tr>
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<td>Cooling</td>
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<td>52</td>
<td>54</td>
<td>57</td>
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## Slim duct

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<th>AYG12LVB</th>
<th>AYG14LVB</th>
<th>AYG18LVB</th>
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</thead>
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<td>kW Class</td>
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<td>4.0</td>
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<tr>
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<td>Heating</td>
<td>36/32/29/22</td>
<td>34/32/29/22</td>
<td>37/33/29/22</td>
<td>42/37/33/25</td>
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<tr>
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<td>Cooling</td>
<td>35/30/28/21</td>
<td>36/32/28/21</td>
<td>40/36/30/21</td>
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<tr>
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<td>57</td>
<td></td>
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<tr>
<td></td>
<td>Heating</td>
<td>58</td>
<td>64</td>
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<td>Cooling</td>
<td>58</td>
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</tbody>
</table>
## 2-unit Multi-split Combination Table - Cooling/Heating

### Multi-split Cooling Operation

<table>
<thead>
<tr>
<th>Combination of Indoor Units</th>
<th>Cooling Operation</th>
<th>Cooling Capacity</th>
<th>Input Power (Min.-Max.)</th>
<th>EER</th>
<th>SEER</th>
<th>Energy efficiency class</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 7</td>
<td>7.00</td>
<td>2.00</td>
<td>2.00</td>
<td>4.00</td>
<td>0.97</td>
<td>A+++</td>
<td>1.4-4.6</td>
<td>0.25-1.20</td>
<td>4.12</td>
<td>4.0</td>
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<tr>
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<td>1.75</td>
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<td>4.00</td>
<td>0.97</td>
<td>4.12</td>
<td>A+++</td>
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<td>0.25-1.20</td>
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<td>0.97</td>
<td>4.12</td>
<td>A+++</td>
<td>1.4-4.6</td>
<td>0.25-1.20</td>
<td>4.0</td>
<td>8.7</td>
<td></td>
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<tr>
<td>9 9</td>
<td>2.00</td>
<td>2.00</td>
<td>4.00</td>
<td>0.97</td>
<td>4.12</td>
<td>A+++</td>
<td>1.4-4.6</td>
<td>0.25-1.20</td>
<td>4.0</td>
<td>8.7</td>
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</tr>
<tr>
<td>9 12</td>
<td>1.71</td>
<td>2.29</td>
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<td>0.97</td>
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<td>A+++</td>
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<td>0.25-1.20</td>
<td>4.0</td>
<td>8.7</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Notes:
- 7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h models
- The above specifications apply when connected with a wall-mounted [KG] unit.
- 2 or 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: 0 m (Outdoor unit to Indoor unit)
- Total capacity of indoor units connected must be between 4.0 kW and 8.0 kW.

### Multi-split Heating Operation

<table>
<thead>
<tr>
<th>Combination of Indoor Units</th>
<th>Heating Operation</th>
<th>Heating Capacity</th>
<th>Input Power (Min.-Max.)</th>
<th>COP</th>
<th>SECP</th>
<th>Energy efficiency class</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
<th>kW</th>
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</thead>
<tbody>
<tr>
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<td>4.7</td>
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<td>A+++</td>
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<td>0.25-1.65</td>
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<td>4.7</td>
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<tr>
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<td>4.63</td>
<td>A+++</td>
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<td>4.0</td>
<td>4.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- 7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h models
- The above specifications apply when connected with a wall-mounted [KG] unit.
- 2 or more indoor units should be connected.
- Heating capacity is determined based on 20ºCDB (indoor temperature) and 7ºCDB/6ºCWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
### 3-unit Multi-split Combination Table - Cooling/Heating

#### 3-unit Multi-split cooling

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CONNECTED</th>
<th>INDOOR UNIT</th>
<th>OUTDOOR UNIT</th>
<th>TOTAL POWER</th>
<th>COP</th>
<th>EER</th>
<th>COP</th>
<th>EER</th>
<th>SEASONAL COEFFICIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9</td>
<td>1.90</td>
<td>1.80</td>
<td>6.80</td>
<td>2.01</td>
<td>3.84</td>
<td>5.0</td>
<td>4.89</td>
<td>4.42</td>
</tr>
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<td>9</td>
<td>9</td>
<td>1.90</td>
<td>1.80</td>
<td>6.80</td>
<td>2.01</td>
<td>3.84</td>
<td>5.0</td>
<td>4.89</td>
<td>4.42</td>
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<td>9</td>
<td>1.90</td>
<td>1.80</td>
<td>6.80</td>
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<td>5.0</td>
<td>4.89</td>
<td>4.42</td>
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<tr>
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<td>9</td>
<td>1.90</td>
<td>1.80</td>
<td>6.80</td>
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<td>3.84</td>
<td>5.0</td>
<td>4.89</td>
<td>4.42</td>
</tr>
</tbody>
</table>

#### 3-unit Multi-split heating

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CONNECTED</th>
<th>INDOOR UNIT</th>
<th>OUTDOOR UNIT</th>
<th>TOTAL POWER</th>
<th>COP</th>
<th>EER</th>
<th>COP</th>
<th>EER</th>
<th>SEASONAL COEFFICIENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9</td>
<td>1.90</td>
<td>1.80</td>
<td>6.80</td>
<td>2.01</td>
<td>3.84</td>
<td>5.0</td>
<td>4.89</td>
<td>4.42</td>
</tr>
<tr>
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<td>9</td>
<td>1.90</td>
<td>1.80</td>
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<td>2.01</td>
<td>3.84</td>
<td>5.0</td>
<td>4.89</td>
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<td>6.80</td>
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<td>6.80</td>
<td>2.01</td>
<td>3.84</td>
<td>5.0</td>
<td>4.89</td>
<td>4.42</td>
</tr>
</tbody>
</table>

### Notes:

- The above specifications apply when connected with a wall-mounted unit.
- A more reliable unit should be connected.
- Cooling capacity is determined based on 27°C (indoor temperature) and 35°C (outdoor temperature).
- A more reliable unit should be connected.
- Heating capacity is determined based on 20°C (indoor temperature) and 7°C (outdoor temperature).
- A more reliable unit should be connected.
- The total capacity of indoor units connected must be between 15 kW and 35 kW.
## 4-unit Multi-split Combination Table – Cooling/Heating

### 4-unit Multi-split cooling

<table>
<thead>
<tr>
<th>Indoor Units</th>
<th>Cooling Operation</th>
<th>Seasonal Data</th>
<th>Energy efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

### 4-unit Multi-split heating

<table>
<thead>
<tr>
<th>Indoor Units</th>
<th>Heating Operation</th>
<th>Seasonal Data</th>
<th>Energy efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
### 5-unit Multi-split Combination Table - Cooling

#### 5-unit Multi-split cooling

<table>
<thead>
<tr>
<th>Unit</th>
<th>Indoor Unit 1</th>
<th>Indoor Unit 2</th>
<th>Indoor Unit 3</th>
<th>Indoor Unit 4</th>
<th>Indoor Unit 5</th>
<th>Outdoor Unit</th>
<th>EER</th>
<th>Energy Efficiency</th>
</tr>
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<tbody>
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<td></td>
</tr>
<tr>
<td>3-way combination</td>
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<td></td>
</tr>
<tr>
<td>2-way combination</td>
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<td></td>
</tr>
</tbody>
</table>

**Notes:**
- 1: Fan coil unit shall be connected with a wall-mounted unit.
- 2: Fan coil units should be connected.
- 3: Pipe length: 5 m, Heading difference: 6 m (Outdoor unit to Indoor unit).
- 4: Unit capacity of indoor units must be between 7.5 kW and 11.5 kW.
- 5: Only 1 model, only wall-mounted indoor units are connectable.
5-unit Multi-split Combination Table – Heating

<table>
<thead>
<tr>
<th>APR Size</th>
<th>Combination</th>
<th>L Capacity (Min - Max)</th>
<th>Pdesign (kW)</th>
<th>SCOP</th>
<th>Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
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<td>1.48</td>
<td>10.60</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>1.48</td>
<td>10.60</td>
<td></td>
<td></td>
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<td>4</td>
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</tr>
<tr>
<td>2</td>
<td>5</td>
<td>1.48</td>
<td>10.60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>1.48</td>
<td>10.60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- For Model 22, only wall-mounted indoor units are connectable.
- Pipe length: 5 m, height difference: 5 m (Indoor unit to Indoor unit)
- Total capacity of indoor units connected must be between 7.44 kW and 11.5 kW

For more indoor units should be connected:
- Heating capacity is determined based on 27°C (Indoor temperature) and 10°C (Outdoor temperature).
- Horsepower: 1 Wind 9, 2 Wind 8, 3 Wind 7, 4 Wind 6, 5 Wind 5, 6 Wind 4

For Unit 1 to Unit 5:
- APR Size: 7, 9, 12, 14, 18, 22
- Combination: 2, 3, 4, 5, 6
- L Capacity (Min - Max): 10.60 kW
- Pdesign (kW): 1.48 kW
- SCOP: 1.48
- Energy Efficiency: A++
#### 6-unit Multi-split Multi Combination Table - Cooling/Heating

**6-unit Multi-split cooling**

<table>
<thead>
<tr>
<th>Units Operated</th>
<th>Combination</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 units</td>
<td>1 unit</td>
<td></td>
</tr>
<tr>
<td>3 units</td>
<td>2 unit</td>
<td></td>
</tr>
<tr>
<td>4 units</td>
<td>3 unit</td>
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</tr>
<tr>
<td>5 units</td>
<td>4 unit</td>
<td></td>
</tr>
<tr>
<td>6 units</td>
<td>5 unit</td>
<td></td>
</tr>
</tbody>
</table>

**6-unit Multi-split heating**

<table>
<thead>
<tr>
<th>Units Operated</th>
<th>Combination</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 units</td>
<td>1 unit</td>
<td></td>
</tr>
<tr>
<td>3 units</td>
<td>2 unit</td>
<td></td>
</tr>
<tr>
<td>4 units</td>
<td>3 unit</td>
<td></td>
</tr>
<tr>
<td>5 units</td>
<td>4 unit</td>
<td></td>
</tr>
<tr>
<td>6 units</td>
<td>5 unit</td>
<td></td>
</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 27°F/°C/°F outdoor temperature and 80°F/°C/°F indoor temperature.
- Pipe length: 5 in (3.5 in + Indoor unit to indoor unit).
- Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

**AOYG45LBLA6 Combination of Indoor Units**

<table>
<thead>
<tr>
<th>Total Units Operated</th>
<th>Units Operated</th>
<th>Indoor Units</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>Combination</td>
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</tr>
<tr>
<td>14</td>
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</table>

**Cooling Capacity Input Power**

<table>
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<tr>
<th>Total Units Operated</th>
<th>Units Operated</th>
<th>Indoor Units</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>Combination</td>
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<tr>
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</tr>
<tr>
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**Heating Operation**

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<th>Units Operated</th>
<th>Indoor Units</th>
<th>Total Capacity (Min. - Max.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>Combination</td>
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<tr>
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<td>1</td>
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<td></td>
</tr>
</tbody>
</table>

M-038
6-unit Multi-split Combination Table – Heating

Notes:
- 7000 Btu/h to 9000 Btu/h: 12000 Btu/h/18000 Btu/h/24000 Btu/h models.
- The above specifications apply when connected with a wall-mounted unit.
- Heating capacity is determined based on 20ºCDB (indoor temperature) and 7ºCDB/6ºCWB (outdoor temperature).
- Pipe length: 5 m, height difference: 0 m (Outdoor unit to Indoor unit).
- The total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.
MULTI-SPLIT

8-unit Multi-split Cooling

### 8-unit Multi-split Combination Table—Cooling

<table>
<thead>
<tr>
<th>Model</th>
<th>Combination of Indoor units</th>
<th>Outdoor unit size</th>
<th>Indoor unit size</th>
<th>Total Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-unit connection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4-unit connection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3-unit connection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2-unit connection</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes:
- Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
- Height difference: 0 m (Outdoor unit to Indoor unit).
- Specifications in the table are for reference only. These values are calculated at standard conditions.
- Refer to "Model Selection" in the D&T manual to select your model.
- **1** in the table indicates no available for this combination.

---

MULTI-SPLIT

8-unit Multi-split Cooling

### 8-unit Multi-split Combination Table—Cooling

<table>
<thead>
<tr>
<th>Model</th>
<th>Combination of Indoor units</th>
<th>Outdoor unit size</th>
<th>Indoor unit size</th>
<th>Total Power (kW)</th>
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</thead>
<tbody>
<tr>
<td>5-unit connection</td>
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</tr>
<tr>
<td>4-unit connection</td>
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<td>3-unit connection</td>
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</tr>
<tr>
<td>2-unit connection</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

Notes:
- Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
- Height difference: 0 m (Outdoor unit to Indoor unit).
- Specifications in the table are for reference only. These values are calculated at standard conditions.
- Refer to "Model Selection" in the D&T manual to select your model.
- **1** in the table indicates no available for this combination.
## 8-unit Multi-split Combination Table – Cooling/Heating

### 8-unit Multi-split cooling

<table>
<thead>
<tr>
<th>Unit A</th>
<th>Unit B</th>
<th>Unit C</th>
<th>Unit D</th>
<th>Unit E</th>
<th>Unit F</th>
<th>Unit G</th>
<th>Unit H</th>
<th>Input power</th>
</tr>
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<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Notes:**
- Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
- Pipe length: 5 m (indoor unit and branch line), 10 m (branch line only).
- Height difference: 0 m (indoor unit to outdoor unit).
- The specifications in the table are for reference only. These values are calculated at standard conditions.
- Refer to "Model Selection" in the D&T manual to select your model.

### 8-unit Multi-split heating

<table>
<thead>
<tr>
<th>Unit A</th>
<th>Unit B</th>
<th>Unit C</th>
<th>Unit D</th>
<th>Unit E</th>
<th>Unit F</th>
<th>Unit G</th>
<th>Unit H</th>
<th>Input power</th>
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</table>

**Notes:**
- Heating capacity is determined based on 27°CDB (indoor temperature) and 7°CDB (outdoor temperature).
- Pipe length: 5 m (indoor unit and branch line), 10 m (branch line only).
- Height difference: 0 m (indoor unit to outdoor unit).
- The specifications in the table are for reference only. These values are calculated at standard conditions.
- Refer to "Model Selection" in the D&T manual to select your model.
- *: Unit size is not available for this combination.
8-unit Multi-split Combination Table - Heating

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<tr>
<th>Combination of Indoor Units</th>
<th>Heating Capacity Input power</th>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Unit 3</th>
<th>Unit 4</th>
<th>Unit 5</th>
<th>Unit 6</th>
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<td></td>
</tr>
</tbody>
</table>

Notes:
- Heating capacity is determined based on 20°CDB (indoor temperature) and 7°CDB/6°CWB (outdoor temperature).
- Height difference: (m) (Downstream to Indoor unit).
- The specifications in the table are for reference only. These values are calculated at standard conditions. Refer to "Model Selection" in the D&T manual to select your model.
### Feature Summary

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<th>Cassette</th>
<th>Duct</th>
<th>Floor</th>
<th>Floor/Ceiling</th>
<th>Ceiling</th>
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<tr>
<td>Series</td>
<td>Designer Series</td>
<td>Standard Series</td>
<td>Design Series</td>
<td>Standard Series</td>
<td>Compact 4-way (Duct type) Series</td>
<td>Cassette 4-way Flow Series</td>
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<td>Model name</td>
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<td>ASYG 07/09/12/14 KMCE</td>
<td>ASYG 07/09/12/14 KETE, ASYG 07/09/12/14 KETE-B</td>
<td>ASYG 07/09/12/14 KMTE, ASYG 07/09/12/14 KMTE-B</td>
<td>ASYG 07/09/12/14 KMCE, ASYG 07/09/12/14 KMCE-B</td>
<td>ASYG 07/09/12/14 KETE, ASYG 07/09/12/14 KETE-B</td>
<td>ASYG 07/09/12/14 KETE</td>
</tr>
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<td>Economy mode</td>
<td>Setting temperature change limitation</td>
<td>Setting temperature auto return</td>
<td>Power diffuser</td>
<td>FPC heat</td>
<td>Low-noise mode</td>
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<tr>
<td>Energy-saving Features</td>
<td>Save Occupancy sensor</td>
<td>Economy mode</td>
<td>Setting temperature change limitation</td>
<td>Setting temperature auto return</td>
<td>Power diffuser</td>
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<td>Low-noise mode</td>
</tr>
</tbody>
</table>
AIRSTAGE™ VRF systems provide air conditioning solutions that meet the requirements of a diverse range of buildings.

AIRSTAGE™ VRF systems provide air conditioning solutions for large residences as well as large commercial buildings.

V-002  AIRSTAGE™ J Series Overview
V-004  AIRSTAGE™ V Series Overview
V-006  VRF Outdoor Units Lineup
V-008  Features

VRF Outdoor Units

AIRSTAGE™ J Series
Heat Pump for Small-Capacity Type
V-032  AIRSTAGE™ J-IVL
V-028  AIRSTAGE™ J-IV
V-032  AIRSTAGE™ J-IVS

AIRSTAGE™ V Series
Heat Recovery Modular Type
V-036  AIRSTAGE™ VR-IV

Heat Pump Modular Type
V-046  AIRSTAGE™ V-IV

VRF INDOOR UNITS
V-054  VRF Indoor Units Lineup
V-056  VRF Indoor Units
AIRSTAGE™ J Series Overview

Fujitsu General provides air conditioning systems for a wide range of applications, from residences, small offices, hotels, to large retailers.

**Maximum 18 HP Heat Pump**

**AIRSTAGE™ J-IVL**

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 hospitals and educational facilities with many rooms.

* 18 HP model

**Slim Outdoor Unit**

Although the new 14/16/18 HP models support slightly higher capacities, they have a slim depth of just 480 mm. This means they can be installed even in tight spaces.

**Small room application**

The optimum heat exchanger structure allows up to 30–42 indoor units to be connected to an outdoor unit, easily accommodating a number of small rooms.

**Class-leading Low Operating Sound**

The top-class low operating noise makes it ideal for use in densely populated areas.

**Maximum 6 HP Heat Pump**

**AIRSTAGE™ J-IV**

J-IV is connectable with up to 13 indoor units, making it suitable for commercial facilities housing a number of small stores.

**High energy efficiency**

Heat pump inverter control achieves efficient cooling and heating operation for any combination of indoor units.

**Flexible system configuration for small and midsize buildings**

The space saving design and long pipe connection enable flexible installation on the roof or balcony of a small or midsize building. Multiple indoor units of various capacities and types can be connected.

**Maximum 6 HP Heat Pump, Compact Design**

**AIRSTAGE™ J-IVS**

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.

**Spaces saving and low sound level design**

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

**Flexible system configuration for homes, stores, and small buildings**

The compact size and flexible pipe design make the J-IVS Series an ideal choice for installation in tight spaces in residences, stores, and small offices. Multiple indoor units of various capacities and types can be connected.

**Slim Outdoor Unit**

Although the new 14/16/18 HP models support slightly higher capacities, they have a slim depth of just 480 mm. This means they can be installed even in tight spaces.

**Small room application**

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**Class-leading Low Operating Sound**

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**AIRSTAGE™ J Series Overview**

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**Maximum 18 HP Heat Pump**

**AIRSTAGE™ J-IVL**

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* 18 HP model

**Slim Outdoor Unit**

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**Flexible system configuration for homes, stores, and small buildings**

The compact size and flexible pipe design make the J-IVS Series an ideal choice for installation in tight spaces in residences, stores, and small offices. Multiple indoor units of various capacities and types can be connected.
AIRSTAGE™ V Series Overview

AIRSTAGE™ V provides air conditioning solutions for large residences as well as large commercial buildings.

AIRSTAGE™ V provides air conditioning solutions for large residences as well as large commercial buildings.

Maximum 48 HP Heat Recovery

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
Cooling and heating operations can be selected individually for each indoor unit to provide a comfortable room environment in each room by accommodating widely varying temperature requirements.

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

Accommodating changes in temperature difference
When there are large temperature differences during the day, such as with the change of seasons, the operation mode can be readily changed between heating and cooling.

Maximum 48 HP Heat Pump

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
The inverter heat pump model achieves high energy savings for individual cooling or heating operation by making full use of inverter technology to achieve seasonal efficiency.

High design flexibility for placement in any building
Superb design flexibility meets the diverse installation needs of high-rise buildings for air conditioners, such as a concentrated rooftop installation of outdoor units combined with individual floor installation of indoor units. This flexibility is achieved by large-capacity combination, ample connection capacity, and high static pressure design.

Easy installation and maintenance
The flexible communication method and pipe connections make installation and maintenance easy— even for large systems.

AIRSTAGE™ V provides air conditioning solutions for large residences as well as large commercial buildings.

AIRSTAGE™ V provides air conditioning solutions for large residences as well as large commercial buildings.
### VRF Outdoor Units Lineup

#### J-IVL Series

| Capacity (kW) | 12.1 | 14.0 | 15.9-15.5 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0-50.4 | 55.9 | 61.5 | 67.0 | 73.5 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 107.0 | 112.0 | 118.5 | 123.5 | 130.0 | 135.0 |
|----------------|-------|-------|------------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| HP             | 4     | 5     | 6          | 8     | 10    | 12    | 14    | 16    | 18         | 20    | 22    | 24    | 26    | 28    | 30    | 32    | 34     | 36      | 38      | 40      | 42      | 44      | 46      | 48      |

#### J-IV Series

- J-IV Series [Images]
  - [Images] AJY072 L/LELDH
  - [Images] AJY090 L/LELDH
  - [Images] AJY108 L/LELDH
  - [Images] AJY126 L/LELDH
  - [Images] AJY144 L/LELDH
  - [Images] AJY162 L/LELDH

#### J-IVS Series

- J-IVS Series [Images]
  - [Images] AJY040 L/LELDH
  - [Images] AJY045 L/LELDH
  - [Images] AJY054 L/LELDH

#### VR-IV Series Heat Recovery

#### VR-IV Series Heat Pump

#### Space Saving

#### Energy Efficiency
High-efficiency design with top-class SEER/SCOP

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.

### 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.

**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.

---

*The improvements due to the control and the actual curve 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 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.

Automatic cooling/heating operation for each room is possible

Switching between cooling and heating modes using a specific remote control in the main room or other rooms.

Low noise design
Small-capacity indoor units meet a variety of applications. Super-low noise operations offer greater audibility comfort. In particular, the wall-mounted (external EEV) type has a noise level of only 22 dB(A) during low mode heating operation.

Small-capacity indoor unit

22 dB(A)
Low mode heating operation
**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.
**Design flexibility**

**Class-leading compact design**
An industry-leading compact outdoor unit with optimal airflow structure 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. (AIRSTAGE™ J-IVL 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 units</th>
<th>Connectable indoor units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRSTAGE™ J-IV Series 14/16/18 HP Heat pump type</td>
<td>50% to 150%<em>2 up to 42</em>4</td>
<td>up to 42*4</td>
</tr>
<tr>
<td>AIRSTAGE™ J-IV Series 8/10/12 HP Heat pump type</td>
<td>50% to 150%<em>2 up to 30</em>5</td>
<td>up to 30*5</td>
</tr>
<tr>
<td>AIRSTAGE™ J-IVS Series Heat pump type</td>
<td>50% to 130%*2</td>
<td>13</td>
</tr>
<tr>
<td>AIRSTAGE™ VR-IV Series Heat Recovery Modular type</td>
<td>25%*7 to 150%*2 up to 64</td>
<td>up to 64</td>
</tr>
<tr>
<td>AIRSTAGE™ V-IV Series Heat Pump Modular type</td>
<td>50% to 150%*3</td>
<td>up to 64</td>
</tr>
</tbody>
</table>

*2: Conditions for the maximum capacity ratio of connectable indoor units are shown in the chart above.
*3: The maximum capacity of the combination that includes the 18 HP outdoor unit is below 150%.
*4: J-IVL Series 18-HP model only.
*5: J-IVL Series 12-HP model only.
*6: J-IV Series 6-HP model only.
*7: For modular type, 25% to 49.9% operation in the entire system is available. (By one unit operation)

**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.

* When multiple outdoor units are connected, their operating temperature range is from -15°C to 46°C in cooling.
* The operating range is from 1.1°C to 46°C only for systems with all outdoor units rated at 5.6 kW or more.
Easy Installation

Easily transported
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.

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.

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

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.

Easy commissioning with Service Tool
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.
Easy service and maintenance

Designed for easy 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

Easy-to-read 7-segment indicator lamp

Movable PCB panel
Enables easier access behind the PCB for maintenance work.

Error codes are displayed on an LCD screen.

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.

Error status can be checked via a wired remote controller for indoor units.

Remote controller address

Error code

Error status/Error history

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.

Easy service and maintenance
Heat Pump
for Small-capacity type

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.

New model (J-IVL)
The outdoor unit provides sufficient capacity to meet the demands of the indoor unit.

Current model (J-IIIIL)
The outdoor unit supplies constant capacity regardless of the demand of the indoor unit.

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
- **570 mm**
  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.

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

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

- DC inverter control
  The active filter module improves efficiency.

- Subcooler 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 windways, sine-wave control that smoothly controls the input power into the motor achieves more energy-efficient and quieter operation.

* 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.

Various installation methods

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.

Slim & Compact Design

- Height difference: -262 mm
  Compared with current 8 HP model

- Depth difference: -285 mm
  Compared with current all models

- Space requirement: -45%
  Compared with current 14/16 HP models

- Weight: -62 kg
  Compared with current 16 HP model

- Space requirement: -26%
  Compared with current all models

- Various installation methods
  - Installation
  - Narrow space behind building
  - Installation on the back street of a building

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.
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.

Specifications

<table>
<thead>
<tr>
<th>HP</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor Units</td>
<td>1-20</td>
<td>1-25</td>
<td>1-30</td>
<td>1-36</td>
<td>1-40</td>
<td>1-42</td>
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<tr>
<td>Power Source</td>
<td>3-phase, ~400V, 50Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity Cooling kW</td>
<td>22.4</td>
<td>28.0</td>
<td>33.5</td>
<td>40.0</td>
<td>45.0</td>
<td>50.0</td>
</tr>
<tr>
<td>Heating kW</td>
<td>22.4</td>
<td>28.0</td>
<td>33.5</td>
<td>40.0</td>
<td>45.0</td>
<td>50.0</td>
</tr>
<tr>
<td>Max. Heating kW</td>
<td>25.0</td>
<td>31.5</td>
<td>37.5</td>
<td>45.0</td>
<td>50.0</td>
<td>55.0</td>
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<tr>
<td>Input power kW</td>
<td>6.30</td>
<td>8.59</td>
<td>10.42</td>
<td>12.12</td>
<td>14.96</td>
<td>18.52</td>
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<tr>
<td>Nominal Heating kW</td>
<td>4.65</td>
<td>6.61</td>
<td>8.18</td>
<td>9.71</td>
<td>11.81</td>
<td>13.66</td>
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<tr>
<td>Max. Heating kW</td>
<td>5.45</td>
<td>8.29</td>
<td>10.25</td>
<td>11.81</td>
<td>14.29</td>
<td>16.66</td>
</tr>
<tr>
<td>EER Cooling</td>
<td>3.56</td>
<td>3.26</td>
<td>3.22</td>
<td>3.66</td>
<td>3.81</td>
<td>3.50</td>
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<tr>
<td>Heating</td>
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<td>3.22</td>
<td>3.30</td>
<td>3.01</td>
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<tr>
<td>COP</td>
<td>4.82</td>
<td>4.24</td>
<td>4.10</td>
<td>4.12</td>
<td>3.81</td>
<td>3.66</td>
</tr>
<tr>
<td>Heating</td>
<td>4.56</td>
<td>3.80</td>
<td>3.66</td>
<td>3.81</td>
<td>3.50</td>
<td>3.30</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>8,400</td>
<td>9,000</td>
<td>11,000/12,100</td>
<td>13,000</td>
<td>14,000</td>
<td>14,800/15,300</td>
</tr>
<tr>
<td>Sound pressure level/Power level Cooling</td>
<td>52/66</td>
<td>54/69</td>
<td>59/73</td>
<td>62/75</td>
<td>64/77</td>
<td>65/79</td>
</tr>
<tr>
<td>Heating</td>
<td>54/66</td>
<td>57/70</td>
<td>62/75</td>
<td>63/76</td>
<td>65/78</td>
<td>68/82</td>
</tr>
<tr>
<td>Weight kg</td>
<td>170</td>
<td>177</td>
<td>178</td>
<td>213</td>
<td>213</td>
<td>217</td>
</tr>
<tr>
<td>Refrigerant Type (Global Warming Potential)</td>
<td>R410A (2,088)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge kg (CO2eq-T)</td>
<td>7.0 (14.6)</td>
<td>7.5 (15.7)</td>
<td>7.5 (15.7)</td>
<td>11.0 (23.0)</td>
<td>11.0 (23.0)</td>
<td>11.8 (24.6)</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid mm</td>
<td>9.52</td>
<td>9.52</td>
<td>12.70</td>
<td>12.70</td>
<td>12.70</td>
</tr>
<tr>
<td>Gas</td>
<td>19.05</td>
<td>22.20</td>
<td>28.58</td>
<td>28.58</td>
<td>28.58</td>
<td>28.58</td>
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<tr>
<td>Total pipe length m</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
<td>400</td>
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<tr>
<td>Operating Range Cooling -15 to 46°C -15 to 46°C -15 to 46°C -5 to 46°C -5 to 46°C -5 to 46°C</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Heating -20 to 21°C -20 to 21°C -20 to 21°C -20 to 21°C -20 to 21°C -20 to 21°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.

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

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

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

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

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.

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.
**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.

**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.

**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.

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

- **Subcooled 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.

*The improvements due to the control and the actual view vary depending on the combination of the indoor 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/COP (Max. Heating) in all models.

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.

* A-HP model

Non-stop oil recovery operation

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

Easier Installation

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

Specifications

Pipe & Cable port

* These specifications are determined by cassette combination.
**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.

**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.

- **Smooth airflow grille**
  The aerodynamically designed grille provides excellent efficiency with little blow loss.

- **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.

**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)**

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

**New model (J-IVS)**

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

* The improvements due to the control and the actual static pressure vary depending on the combination of the indoor and system operating conditions.
Specifications

<table>
<thead>
<tr>
<th>HP</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>3/6</td>
<td>3/6</td>
<td>3/6</td>
</tr>
<tr>
<td>Power supply</td>
<td>Single phase, 230V, 50Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling kW</td>
<td>12.1</td>
<td>14.0</td>
<td>15.1</td>
</tr>
<tr>
<td>Nominal Heating kW</td>
<td>12.1</td>
<td>14.0</td>
<td>15.1</td>
</tr>
<tr>
<td>Max. Heating kW</td>
<td>13.6</td>
<td>16.0</td>
<td>16.5</td>
</tr>
<tr>
<td>Input power kW</td>
<td>3.75</td>
<td>4.71</td>
<td>5.55</td>
</tr>
<tr>
<td>Nominal Heating kW</td>
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<td>3.77</td>
<td>4.33</td>
</tr>
<tr>
<td>Max. Heating kW</td>
<td>3.99</td>
<td>5.04</td>
<td>5.32</td>
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<tr>
<td>EER</td>
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</tr>
<tr>
<td>Cooling</td>
<td>3.22</td>
<td>2.97</td>
<td>2.72</td>
</tr>
<tr>
<td>Nominal Heating</td>
<td>3.75</td>
<td>3.71</td>
<td>3.48</td>
</tr>
<tr>
<td>Max. Heating</td>
<td>3.40</td>
<td>3.17</td>
<td>3.10</td>
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<tr>
<td>Airflow rate m³/h</td>
<td>4,240</td>
<td>4,400</td>
<td>4,400</td>
</tr>
<tr>
<td>Sound pressure level dB(A)</td>
<td>53 / 67</td>
<td>53 / 69</td>
<td>54 / 70</td>
</tr>
<tr>
<td>COP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal Heating</td>
<td>3.75</td>
<td>3.71</td>
<td>3.48</td>
</tr>
<tr>
<td>Max. Heating</td>
<td>3.40</td>
<td>3.17</td>
<td>3.10</td>
</tr>
<tr>
<td>Heat exchanger fin</td>
<td>Blue fin</td>
<td></td>
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</tr>
<tr>
<td>Net Dimensions</td>
<td></td>
<td></td>
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<tr>
<td>Height mm</td>
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<td>Weight kg</td>
<td>88</td>
<td>88</td>
<td>88</td>
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<tr>
<td>Refrigerant Type</td>
<td>R410A (2,088)</td>
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<tr>
<td>Charge kg (CO2eq-T)</td>
<td>4.0 (8.4)</td>
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</tr>
<tr>
<td>Connection pipe diameter</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Liquid mm</td>
<td>9.52</td>
<td>9.52</td>
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<tr>
<td>Gas</td>
<td>15.88</td>
<td>15.88</td>
<td>15.88</td>
</tr>
<tr>
<td>Total pipe length m</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Max. height difference</td>
<td>30 m</td>
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<tr>
<td>Operating Range</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling ˚C</td>
<td>-5 to 46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating</td>
<td>-20 to 21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
The protective function may work when using it outside the operation range.

Dimensions

Easy to carry, easy to install

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 structure 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 exchanger 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.

Easier Installation

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

* A 6 HP model

Model | Current model (J-IIS) | New model (J-IVS) |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>kVA Capacity</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Max. Connectable indoor unit</td>
<td>1-7</td>
<td>1-8</td>
</tr>
</tbody>
</table>

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Highly energy-efficient operation

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.

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.

Increase in the number of connectable indoor units

Capacity range of connectable indoor units

<table>
<thead>
<tr>
<th>Indoor unit request</th>
<th>Current model (VR-II)</th>
<th>New model (VR-IV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low capacity</td>
<td>15% to 50%</td>
<td>25% to 150%</td>
</tr>
<tr>
<td>Adequate capacity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*For modular type, 25% to 49.9% operation in the entire system is available (by one unit operation)

The energy-saving technology that boosted operation efficiency

- Powerful large propeller fan
- 3-phase DC fan motor
- High-efficiency, large-capacity DC twin-rotary compressor
- Subcool heat exchanger
- 4-face heat exchanger
- Sine-wave DC inverter control
- Front intake port

*CFD: Computational Fluid Dynamics
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 10HP minimum connected indoor unit capacity is required

Installation is possible even for tenants who have not yet started operations.

**New model (VR-IV)**

- Example: 25% of 10HP minimum connected indoor unit capacity is required

Installation and commissioning can be added flexibly to meet the opening dates of other tenants.

### 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 start 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 unit 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.

**Current model (VR-II)**

- Gas: Ø22.2, 15.88
- Liquid: Ø15.88

**New model (VR-IV)**

- Gas: Ø34.92, 28.58
- Liquid: Ø15.88

New Individual Defrost Operation

**New Individual Defrost Operation** maintains the room comfortable during defrost operation. During defrosting, the system absorbs heat from the outside by using the remaining units to prevent an excessive drop in room temperature.

**Example**

- Upon completion of Individual Defrost Operation, the indoor unit returns to normal operation.

The room temperature will return to its original level immediately.

New Individual Defrost Operation absorbs the heat from the outside by using the remaining units to prevent an excessive drop in room temperature.

**Stop**

Indoor temperature will decrease immediately.

**Start Normal operation**

Defrosting operations prevent drops in room temperature to maintain indoor comfort.

**Stop**

Defrosting operations prevent drops in room temperature to maintain indoor comfort.

**Start**

Indoor temperature will decrease immediately.

**Stop**

Defrosting operations prevent drops in room temperature to maintain indoor comfort.

**Start**

Indoor temperature will decrease immediately.

**Stop**

Defrosting operations prevent drops in room temperature to maintain indoor comfort.

**Start**

Indoor temperature will decrease immediately.

**Stop**

Defrosting operations prevent drops in room temperature to maintain indoor comfort.

**Start**

Indoor temperature will decrease immediately.

**Stop**

Defrosting operations prevent drops in room temperature to maintain indoor comfort.
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.

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>22.4kW (8HP)</th>
<th>28.8kW (10HP)</th>
<th>35.5kW (12HP)</th>
<th>40.8kW (14HP)</th>
<th>45.6kW (16HP)</th>
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</thead>
<tbody>
<tr>
<td>AJY072GALDH</td>
<td>AJY090GALDH</td>
<td>AJY108GALDH</td>
<td>AJY126GALDH</td>
<td>AJY144GALDH</td>
</tr>
<tr>
<td>UNIT : AJY072GALDH</td>
<td>UNIT : AJY090GALDH</td>
<td>UNIT : AJY108GALDH</td>
<td>UNIT : AJY126GALDH</td>
<td>UNIT : AJY144GALDH</td>
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</table>

<table>
<thead>
<tr>
<th>56.0kW (18HP)</th>
<th>67.5kW (22HP)</th>
<th>77.0kW (26HP)</th>
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</thead>
<tbody>
<tr>
<td>AJY162GALDH</td>
<td>AJY180GALDH</td>
<td>AJY216GALDH</td>
</tr>
<tr>
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<td>UNIT : AJY180GALDH</td>
<td>UNIT : AJY216GALDH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>103.6kW (32HP)</th>
<th>118.0kW (38HP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AJY252GALDH</td>
<td>AJY274GALDH</td>
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<tr>
<td>UNIT : AJY252GALDH</td>
<td>UNIT : AJY274GALDH</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>135.5kW (42HP)</th>
<th>159.0kW (48HP)</th>
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</thead>
<tbody>
<tr>
<td>AJY323GALDH</td>
<td>AJY343GALDH</td>
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<td>UNIT : AJY323GALDH</td>
<td>UNIT : AJY343GALDH</td>
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Energy efficiency combination

<table>
<thead>
<tr>
<th>44.8kW (16HP)</th>
<th>52.4kW (22HP)</th>
<th>61.5kW (26HP)</th>
<th>72.0kW (32HP)</th>
<th>78.4kW (34HP)</th>
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<tbody>
<tr>
<td>AJY144GALDH</td>
<td>AJY180GALDH</td>
<td>AJY216GALDH</td>
<td>AJY240GALDH</td>
<td>AJY274GALDH</td>
</tr>
<tr>
<td>UNIT : AJY144GALDH</td>
<td>UNIT : AJY180GALDH</td>
<td>UNIT : AJY216GALDH</td>
<td>UNIT : AJY240GALDH</td>
<td>UNIT : AJY274GALDH</td>
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</table>

<table>
<thead>
<tr>
<th>90.0kW (35HP)</th>
<th>100.8kW (40HP)</th>
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<tbody>
<tr>
<td>AJY270GALDH</td>
<td>AJY306GALDH</td>
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<td>UNIT : AJY270GALDH</td>
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<table>
<thead>
<tr>
<th>113.0kW (45HP)</th>
<th>127.5kW (49HP)</th>
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<tbody>
<tr>
<td>AJY343GALDH</td>
<td>AJY378GALDH</td>
</tr>
<tr>
<td>UNIT : AJY343GALDH</td>
<td>UNIT : AJY378GALDH</td>
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</tbody>
</table>

Dimensions

8, 10, 12 HP

8, 10, 12 HP: AJY072GALDH / AJY090GALDH / AJY108GALDH
14, 16 HP: AJY126GALDH / AJY144GALDH

8, 10, 12 HP

14, 16 HP

84.0kW (30HP) 90.4kW (32HP) 96.0kW (34HP) 102.4kW (36HP) 108.0kW (38HP)

AJY270GALDHH AJY288GALDHH AJY306GALDHH AJY324GALDHH AJY342GALDHH

84.0kW (30HP) 90.4kW (32HP) 96.0kW (34HP) 102.4kW (36HP) 108.0kW (38HP)

AJY270GALDHH AJY288GALDHH AJY306GALDHH AJY324GALDHH AJY342GALDHH

113.0kW (40HP) 120.5kW (45HP) 127.5kW (49HP)

AJY343GALDHH AJY378GALDHH AJY396GALDHH

113.0kW (40HP) 120.5kW (45HP) 127.5kW (49HP)

AJY343GALDHH AJY378GALDHH AJY396GALDHH
UNIT : AJY144/144/126GALDHH UNIT : AJY144/144/108GALDHH UNIT : AJY144/144/126GALDHH

135.0kW (48HP)

AJY432GALDHH
UNIT : AJY144/144/144GALDHH
### Outdoor unit specifications

#### Energy Efficiency Combination

<table>
<thead>
<tr>
<th>Model name</th>
<th>Indoor unit 1</th>
<th>Indoor unit 2</th>
<th>Indoor unit 3</th>
<th>Indoor unit 4</th>
<th>Indoor unit 5</th>
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</table>

#### Air-Conditioning Combination

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<th>Indoor unit 3</th>
<th>Indoor unit 4</th>
<th>Indoor unit 5</th>
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<th>Indoor unit 12</th>
<th>Indoor unit 13</th>
<th>Indoor unit 14</th>
<th>Indoor unit 15</th>
<th>Indoor unit 16</th>
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<tbody>
<tr>
<td>Capacity</td>
<td>kW</td>
<td>kW</td>
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<td>COP</td>
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<td>COP</td>
</tr>
</tbody>
</table>

### Additional Notes

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27°C (75°F) and outdoor temperature of 35°C (95°F)
  - Heating: Indoor temperature of 20°C (68°F) and outdoor temperature of 7°C (45°F)
- The noise value is the value measured in an anechoic room. When measured in an actual environment, the noise level may be higher than the value stated in the table.
- Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m
- Multiple cooling units are not certified by EcoDevice.
- Max. number of connectable indoor units is 16 for cooling and 8 for heating.
- Charge kg (CO2eq-T) = 11.8 × 2 (24.6 × 2) kg (CO2eq-T) for each indoor unit.
- The power source is 3-phase, 4-wire, 400 V, 50 Hz.
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.

**Current model (V-III)**
- The outdoor unit supplies constant capacity regardless of the demand of the indoor unit.

**New model (V-IV)**
- 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.

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 realised by the DC fan motor.

- **Sine-wave DC inverter control**
  - High efficiency is realised 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.

- **Subcool 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.

*These specifications are determined by Cassette combination. *Multiple outdoor units are not certified by Eurovent.
Outdoor units lineup

Space saving combination

<table>
<thead>
<tr>
<th>HP</th>
<th>Dimensions (Unit: mm)</th>
<th>AY072LALDH</th>
<th>AY090LALDH</th>
<th>AY108LALDH</th>
<th>AY126LALDH</th>
<th>AY144LALDH</th>
<th>AY162LALDH</th>
<th>AY180LALDH</th>
<th>AY198LALDH</th>
<th>AY216LALDH</th>
<th>AY234LALDH</th>
<th>AY252LALDH</th>
<th>AY270LALDH</th>
<th>AY288LALDH</th>
<th>AY306LALDH</th>
<th>AY324LALDH</th>
<th>AY342LALDH</th>
<th>AY360LALDH</th>
<th>AY378LALDH</th>
<th>AY396LALDH</th>
<th>AY414LALDH</th>
<th>AY432LALDH</th>
</tr>
</thead>
<tbody>
<tr>
<td>8, 10 HP</td>
<td>8-12 × 7 (Hole)</td>
<td>AJY072LALDH</td>
<td>AJY090LALDH</td>
<td>AJY108LALDH</td>
<td>AJY126LALDH</td>
<td>AJY144LALDH</td>
<td>AJY162LALDH</td>
<td>AJY180LALDH</td>
<td>AJY198LALDH</td>
<td>AJY216LALDH</td>
<td>AJY234LALDH</td>
<td>AJY252LALDH</td>
<td>AJY270LALDH</td>
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<td>AJY306LALDH</td>
<td>AJY324LALDH</td>
<td>AJY342LALDH</td>
<td>AJY360LALDH</td>
<td>AJY378LALDH</td>
<td>AJY396LALDH</td>
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<td>AJY432LALDH</td>
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<tr>
<td>12, 14, 16 HP</td>
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<td>80</td>
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<td></td>
</tr>
</tbody>
</table>

Energy efficiency combination

| HP | Dimensions (Unit: mm) | AY072LALDH | AY090LALDH | AY108LALDH | AY126LALDH | AY144LALDH | AY162LALDH | AY180LALDH | AY198LALDH | AY216LALDH | AY234LALDH | AY252LALDH | AY270LALDH | AY288LALDH | AY306LALDH | AY324LALDH | AY342LALDH | AY360LALDH | AY378LALDH | AY396LALDH | AY414LALDH | AY432LALDH |
|----|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 8, 10 HP | 8-12 × 17 (Hole) | AJY072LALDH | AJY090LALDH | AJY108LALDH | AJY126LALDH | AJY144LALDH | AJY162LALDH | AJY180LALDH | AJY198LALDH | AJY216LALDH | AJY234LALDH | AJY252LALDH | AJY270LALDH | AJY288LALDH | AJY306LALDH | AJY324LALDH | AJY342LALDH | AJY360LALDH | AJY378LALDH | AJY396LALDH | AJY414LALDH | AJY432LALDH |
| 12, 14, 16 HP | 1690 | 1576 | 930 |
| | 1339 | 530 |

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>UNIT:</th>
<th>8-12 HP (Unit: mm)</th>
<th>12, 14, 16 HP (Unit: mm)</th>
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</thead>
<tbody>
<tr>
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<td>AY108LALDH</td>
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<td>AY108/108LALDH</td>
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Energy efficiency combination

<table>
<thead>
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<th>HP</th>
<th>Dimensions (Unit: mm)</th>
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<th>AY180LALDH</th>
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<th>AY280LALDH</th>
<th>AY308LALDH</th>
<th>AY326LALDH</th>
<th>AY344LALDH</th>
<th>AY362LALDH</th>
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</thead>
<tbody>
<tr>
<td>8, 10 HP</td>
<td>8-12 × 17 (Hole)</td>
<td>AY144LALDH</td>
<td>AY162LALDH</td>
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<td>AY344LALDH</td>
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</table>

Outdoor units lineup

Space saving combination

- 22.4 kW (8 HP)
- 28.0 kW (10 HP)
- 55.6 kW (18 HP)
- 62.4 kW (22 HP)
- 45.8 kW (16 HP)

Energy efficiency combination

- 44.8 kW (16 HP)
- 55.9 kW (20 HP)
- 67.2 kW (24 HP)
- 72.8 kW (26 HP)
- 78.3 kW (28 HP)

Airstage V-IV

- Combinations other than those listed below are not recommended.
**Outdoor unit specifications**

### Cooling
- Indoor temperature: 27°CDB/19°CWB
- Outdoor temperature: 35°CDB/24°CWB

### Space-saving combination

| Model name | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Capacity   | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| Power source | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz | 3-phase, 4-wire, ~400 V, 50 Hz |

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Note: Specifications are subject to change. Dimensions are approximate. 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/4°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
VRF INDOOR UNITS

20 types and 97 models available to meet the requirements of any building design.

Indoor units for the AIRSTAGE™ 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.

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<tr>
<th>Model</th>
<th>Description</th>
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<td>INDOOR UNITS LINEUP</td>
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<tr>
<td>Vn-056</td>
<td>Compact Cassette (Grid type/Standard type)</td>
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<td>Vn-058</td>
<td>Cassette Slim type (Circular Flow)</td>
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<td>Vn-060</td>
<td>Cassette Large type (Circular Flow)</td>
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<td>1-Way Flow Cassette</td>
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<td>Vn-064</td>
<td>3D Flow Cassette</td>
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<td>Vn-066</td>
<td>Low Static Pressure Duct/Mini Duct</td>
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### VRF Indoor Unit Lineup

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*Specifications and design are subject to change without notice.*
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. (012/014/018/024).

Specifications

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<th>AUXB007GLEH</th>
<th>AUXB009GLEH</th>
<th>AUXB012GLEH</th>
<th>AUXB014GLEH</th>
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<tr>
<td>Low</td>
<td>27/24</td>
<td>27</td>
<td>27</td>
<td>29</td>
<td>30</td>
<td>30</td>
<td>35</td>
</tr>
<tr>
<td>Quiet</td>
<td>25/21</td>
<td>25</td>
<td>25</td>
<td>27</td>
<td>27</td>
<td>27</td>
<td>30</td>
</tr>
<tr>
<td>Net Dimensions (H × W × D) mm</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
<td>245 × 570 × 570</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>14.5 (32)</td>
<td>15 (33)</td>
<td>15 (33)</td>
<td>15 (33)</td>
<td>15 (33)</td>
<td>17 (37)</td>
<td>17 (37)</td>
</tr>
<tr>
<td>Connection pipe</td>
<td>Liquid (Flare)</td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td>6.35</td>
<td>9.52</td>
</tr>
<tr>
<td>Gas (Flare)</td>
<td>9.52</td>
<td>9.52</td>
<td>9.52</td>
<td>12.70</td>
<td>12.70</td>
<td>12.70</td>
<td>15.88</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]
*1: This value is under cooling operation.

Dimensions

<table>
<thead>
<tr>
<th>Model code</th>
<th>Maximum height from floor in ceiling (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td>2.7</td>
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<td>007</td>
<td>2.7</td>
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<tr>
<td>009</td>
<td>2.7</td>
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<tr>
<td>012</td>
<td>2.7</td>
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<tr>
<td>014</td>
<td>2.7</td>
</tr>
<tr>
<td>018</td>
<td>2.7</td>
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<tr>
<td>024</td>
<td>2.7</td>
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*For more details, please refer to the chapter “Optional parts”.

Optional parts

<table>
<thead>
<tr>
<th>Model code</th>
<th>Model name</th>
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<tbody>
<tr>
<td>UTB-VD08</td>
<td>Air Outlet Shutter Plate: LUTB-VD08</td>
</tr>
<tr>
<td>UTZ-AXAA</td>
<td>Flesh Air Intake Kit: LUTZ-AXAA</td>
</tr>
<tr>
<td>UTZ-KXGC</td>
<td>Insulation kit for high humidity: LUTZ-KXGC *</td>
</tr>
<tr>
<td>UTD-HFAA</td>
<td>Silver Ion Filter: LUTD-HFAA</td>
</tr>
<tr>
<td>UTG-UFYE-W</td>
<td>Cassette Grille: LUTG-UFYE-W, LUTG-UFYE-W</td>
</tr>
<tr>
<td>UTZ-GXXA</td>
<td>External power supply unit: LUTZ-GXXA, LUTZ-GXXC *</td>
</tr>
<tr>
<td>UTY-TFSXZ1</td>
<td>WLAN adapter: LUTY-TFSXZ1</td>
</tr>
</tbody>
</table>

Model: AUXB004GLEH/AUXB007GLEH/AUXB009GLEH/AUXB012GLEH/AUXB014GLEH/AUXB018GLEH/AUXB024GLEH
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 thanks to the 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-DCGYZ2 Central remote controller only

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.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller only

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model name</th>
<th>AUXM018GLEH</th>
<th>AUXM024GLEH</th>
<th>AUXM030GLEH</th>
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<tr>
<td>Capacity Cooling kW</td>
<td>5.6</td>
<td>7.1</td>
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<td></td>
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<tr>
<td>Heating kW</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td></td>
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<tr>
<td>Input power W</td>
<td>20</td>
<td>25</td>
<td>49</td>
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<tr>
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<td>1,120</td>
<td>1,470</td>
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<tr>
<td>Med-High m^3/h</td>
<td>930</td>
<td>1,050</td>
<td>1,160</td>
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<tr>
<td>Med m^3/h</td>
<td>900</td>
<td>930</td>
<td>1,070</td>
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<tr>
<td>Med-Low m^3/h</td>
<td>870</td>
<td>900</td>
<td>930</td>
<td></td>
</tr>
<tr>
<td>Low m^3/h</td>
<td>810</td>
<td>870</td>
<td>900</td>
<td></td>
</tr>
<tr>
<td>Quiet m^3/h</td>
<td>780</td>
<td>780</td>
<td>780</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level High dB(A)</td>
<td>33</td>
<td>35</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Med-High dB(A)</td>
<td>32</td>
<td>33</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Med dB(A)</td>
<td>31</td>
<td>32</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>Med-Low dB(A)</td>
<td>30</td>
<td>31</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Low dB(A)</td>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
</tr>
<tr>
<td>Quiet dB(A)</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Dimensions (H × W × D) mm</td>
<td>246 × 840 × 840</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight kg</td>
<td>24.0 (53)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection pipe diameter Liquid (Flare) mm</td>
<td>6.35</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas (Flare) mm</td>
<td>12.70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
<td>25/32</td>
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<td></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 AUX*K036GLEH is connected to an outdoor unit other than one of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

When connecting AUX*K036GLEH, AUX*K045GLEH, and AUX*K054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.
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.

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.

Model name
- AUXK018GLEH
- AUXK024GLEH
- AUXK030GLEH
- AUXK034GLEH
- AUXK036GLEH
- AUXK045GLEH
- AUXK054GLEH

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AUXK018GLEH</th>
<th>AUXK024GLEH</th>
<th>AUXK030GLEH</th>
<th>AUXK034GLEH</th>
<th>AUXK036GLEH</th>
<th>AUXK045GLEH</th>
<th>AUXK054GLEH</th>
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</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Cooling kW</td>
<td>5.6</td>
<td>7.1</td>
<td>9.0</td>
<td>10.0</td>
<td>11.2</td>
<td>12.5</td>
</tr>
<tr>
<td></td>
<td>Heating kW</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>11.2</td>
<td>12.5</td>
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<td>W</td>
<td>40</td>
<td>40</td>
<td>47</td>
<td>47</td>
<td>61</td>
<td>89</td>
</tr>
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<td>Airflow rate</td>
<td>High m³/h</td>
<td>1,420</td>
<td>1,420</td>
<td>1,440</td>
<td>1,440</td>
<td>1,620</td>
<td>1,820</td>
</tr>
<tr>
<td></td>
<td>Med-High</td>
<td>1,360</td>
<td>1,360</td>
<td>1,400</td>
<td>1,400</td>
<td>1,500</td>
<td>1,590</td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>1,300</td>
<td>1,300</td>
<td>1,340</td>
<td>1,340</td>
<td>1,400</td>
<td>1,500</td>
</tr>
<tr>
<td></td>
<td>Med-Low</td>
<td>1,270</td>
<td>1,270</td>
<td>1,300</td>
<td>1,300</td>
<td>1,340</td>
<td>1,400</td>
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<tr>
<td></td>
<td>Low</td>
<td>1,200</td>
<td>1,200</td>
<td>1,280</td>
<td>1,280</td>
<td>1,280</td>
<td>1,300</td>
</tr>
<tr>
<td></td>
<td>Quiet</td>
<td>1,150</td>
<td>1,150</td>
<td>1,150</td>
<td>1,150</td>
<td>1,150</td>
<td>1,150</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>High dB(A)</td>
<td>38</td>
<td>38</td>
<td>39</td>
<td>39</td>
<td>41</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Med-High</td>
<td>37</td>
<td>37</td>
<td>38</td>
<td>38</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Med</td>
<td>36</td>
<td>36</td>
<td>37</td>
<td>37</td>
<td>38</td>
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<td></td>
<td>Med-Low</td>
<td>35</td>
<td>35</td>
<td>36</td>
<td>36</td>
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<td>38</td>
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<td></td>
<td>Low</td>
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<td>34</td>
<td>35</td>
<td>35</td>
<td>36</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>Quiet</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H × W × D mm</td>
<td>288 × 840</td>
<td>840</td>
<td>840</td>
<td>840</td>
<td>840</td>
<td>840</td>
</tr>
<tr>
<td>Weight</td>
<td>kg (lbs)</td>
<td>26.5 (58)</td>
<td>26.5 (58)</td>
<td>29.5 (65)</td>
<td>29.5 (65)</td>
<td>29.5 (65)</td>
<td>29.5 (65)</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid (Flare) mm</td>
<td>6.35</td>
<td>9.52</td>
<td>9.52</td>
<td>9.52</td>
<td>9.52</td>
<td>9.52</td>
</tr>
<tr>
<td></td>
<td>Gas (Flare)</td>
<td>12.70</td>
<td>15.88</td>
<td>15.88</td>
<td>15.88</td>
<td>15.88</td>
<td>15.88</td>
</tr>
<tr>
<td>Drain hose</td>
<td>Diameter (I.D./O.D.)</td>
<td>25/32</td>
<td></td>
<td></td>
<td></td>
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</table>

Optional parts
- Occupancy sensor
- Panel Spacer
- Fresh air intake kit
- Air Outlet Shutter Plate
- Insulation kit for high humidity
- Cassette Grille
- External power supply unit
- IR Receiver Unit
- WLAN adapter
- Silver Ion Filter

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 AUXK018GLEH 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.

* 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.

Dimensions (Panel size)

<table>
<thead>
<tr>
<th>Unit</th>
<th>AUXV004GLEH</th>
<th>AUXV007GLEH</th>
<th>AUXV009GLEH</th>
<th>AUXV012GLEH</th>
<th>AUXV014GLEH</th>
<th>AUXV018GLEH</th>
<th>AUXV024GLEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
</tr>
<tr>
<td>W</td>
<td>785 (950)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
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<tr>
<td>D</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
</tr>
</tbody>
</table>

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>
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<tbody>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heating kW</td>
<td>1.1</td>
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<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
<td>5.6</td>
<td>7.1</td>
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<tr>
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<td>3.2</td>
<td>4.0</td>
<td>5.0</td>
<td>6.3</td>
<td>8.0</td>
</tr>
<tr>
<td>Input power</td>
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<td>42/42</td>
<td>42/42</td>
<td>60/60</td>
<td>38/38</td>
<td>56/56</td>
<td>99/99</td>
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<td></td>
<td></td>
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<tr>
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<td>460</td>
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<td>550</td>
<td>670</td>
<td>720</td>
<td>890</td>
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<td>520</td>
<td>660</td>
<td>840</td>
<td>1,020</td>
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<tr>
<td>Med</td>
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<td>580</td>
<td>660</td>
<td>700</td>
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<td>360</td>
<td>360</td>
<td>360</td>
<td>550</td>
<td>580</td>
<td>610</td>
</tr>
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<td>Sound pressure level*</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
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<td>38</td>
<td>42</td>
<td>42</td>
<td>45</td>
<td>37</td>
<td>44</td>
<td>49</td>
</tr>
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<td>33</td>
<td>36</td>
<td>39</td>
</tr>
<tr>
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<td>32</td>
<td>32</td>
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</table>

Dimensions (Net Dimensions)

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<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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<tbody>
<tr>
<td>Panel size</td>
<td>H 198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
<td>198 (43)</td>
</tr>
<tr>
<td></td>
<td>W 785 (950)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
<td>1,190 (1,360)</td>
</tr>
<tr>
<td></td>
<td>D 570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
<td>570 (620)</td>
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</table>

Weight

<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>
</tr>
</thead>
<tbody>
<tr>
<td>kg (lbs)</td>
<td>18 (40)</td>
<td>19 (42)</td>
<td>19 (42)</td>
<td>19 (42)</td>
<td>26 (57)</td>
<td>26 (57)</td>
<td>27 (60)</td>
</tr>
</tbody>
</table>

Flexible Installation

This L-shaped pipe kit allows for more flexible installation.
Equipped with a built-in drain pump as standard, which enables a maximum pipe height difference of 700 mm from the ceiling.

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

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

Individual airflow setting
The individual airflow setting function optimizes the airflow direction to match the room layout.

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>
<th>AUXS018GLEH</th>
<th>AUXS024GLEH</th>
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</thead>
<tbody>
<tr>
<td>Capacity (cooling) kW</td>
<td>5.60</td>
<td>7.10</td>
</tr>
<tr>
<td>Input power W</td>
<td>20/28</td>
<td>34/43</td>
</tr>
<tr>
<td>Airflow rate (Hi) m³/h</td>
<td>750/870</td>
<td>950/1,040</td>
</tr>
<tr>
<td>Sound pressure level (Hi) dB(A)</td>
<td>38/41</td>
<td>43/46</td>
</tr>
<tr>
<td>Net Dimensions (H × W × D) mm</td>
<td>200 × 1,240 × 500</td>
<td>200 × 1,240 × 500</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Liquid (Flare) mm</td>
<td>6.35</td>
<td>9.52</td>
</tr>
<tr>
<td>Gas (Flare)</td>
<td>12.70</td>
<td>15.88</td>
</tr>
<tr>
<td>Tube</td>
<td>25/32</td>
<td></td>
</tr>
</tbody>
</table>

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.

Wired remote controller with Touch Panel
UTY-RNRYZ5
Central remote controller
UTY-DCGYZ2

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: 5.0 m; Height difference between outdoor unit and indoor unit: 0 m; Voltage: 230 [V]
*: Applicable to cooling and heating operation

Optional parts
For more details, please refer to the chapter “Optional parts”.

WLAN adapter: UTY-TP32Q
Remote Unit: UTY-700QW
Cassette Grille: UTG-USYA-W
External power supply unit: UTZ-GXXA, UTZ-GXXC*

Dimensions

Model: AUXS018GLEH/AUXS024GLEH

Low power consumption
20 W*
**Low Static Pressure Duct Mini Duct**

*With drain pump*

**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***
Multispeed airflow adjustment allows installation in a quiet location.

**Easy to design and maintain for drain**
Indoor unit design for easy maintenance. Parts can be replaced from the side of the unit where maintenance is easier.

---

**Specifications**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>ARXK004GLGH</th>
<th>ARXK007GLGH</th>
<th>ARXK009GLGH</th>
<th>ARXK012GLGH</th>
<th>ARXK014GLGH</th>
<th>ARXK018GLGH</th>
<th>ARXK024GLGH</th>
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</thead>
<tbody>
<tr>
<td>Height (H)</td>
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<td>198</td>
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<tr>
<td>Width (W)</td>
<td>700</td>
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<td>700</td>
<td>700</td>
<td>700</td>
<td>900</td>
<td>1,100</td>
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<tr>
<td>Depth (D)</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
</tr>
</tbody>
</table>

**Weight (kg)**
- 14.5 (ARXK004-014)
- 15.5 (ARXK018-024)

**Connection pipe diameter**
- Liquid (Flare) 6.35 (6.35-9.52)
- Gas (Flare) 9.52 (9.52-15.88)

**Drain hose Diameter (I.D./O.D.)** 25/32

---

**Remote sensor unit**
- UTY-XSZX
- UTY-YWC

**Silver Ion Filter**
- UTD-HFTA (004-014)
- UTD-HFTB (018)
- UTD-HFTC (024)

**External power supply unit**
- UTD-GXTC (004-014)
- UTD-GXTB-W (018)
- UTD-GXTB-W (024)

**Auto Louver Grille Kit (Optional)**
- For more details, please refer to the chapter “Optional parts”.

---

**Dimensions**

<table>
<thead>
<tr>
<th>Model</th>
<th>ARXK004GLGH</th>
<th>ARXK007GLGH</th>
<th>ARXK009GLGH</th>
<th>ARXK012GLGH</th>
<th>ARXK014GLGH</th>
<th>ARXK018GLGH</th>
<th>ARXK024GLGH</th>
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</thead>
<tbody>
<tr>
<td>Width</td>
<td>198</td>
<td>198</td>
<td>198</td>
<td>198</td>
<td>198</td>
<td>225</td>
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<tr>
<td>Height</td>
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<tr>
<td>Depth</td>
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<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
</tr>
</tbody>
</table>

---

**Optional parts**
- Remote sensor unit:
- Silver Ion Filter:
- External power supply unit:
- Auto Louver Grille Kit:

---

**Auto Louver Grille Kit (Optional)**
The slim design of the unit provides comfortable cooling and heating air conditioning over a wide area.

---

**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].
**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

**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)**
- **ARXD04/007/009/012/014/018**
- **ARXD024**

**Dimensions**
- **Max. 850mm**

*Maintenance accessibility should be considered when installing the product. Refer to the installation manual for the required maintenance access size.

---

### Slim design

![Image](image1.png)

**Height**
198 mm

**Built-in drain pump**

---

### Air intake

![Image](image2.png)

**Direction**
Back side

---

### Flexible installation

![Image](image3.png)

**Ceiling concealed**

**Floor concealed**

---

### Wide range of static pressures

![Image](image4.png)

**Static pressure range**
0 to 90 Pa

---

**Filter (Accessory)**

![Image](image5.png)

- **ARXD04/007/009/012/014/018**
- **ARXD024**

---

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>ARXD04GALH</th>
<th>ARXD007GLEH</th>
<th>ARXD009GLEH</th>
<th>ARXD012GLEH</th>
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<th>ARXD018GLEH</th>
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<tr>
<td>Capacity Cooling kW</td>
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<td>2.8</td>
<td>3.6</td>
<td>4.5</td>
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<tr>
<td>Heating</td>
<td>1.3</td>
<td>2.8</td>
<td>3.2</td>
<td>4.0</td>
<td>5.0</td>
<td>6.3</td>
<td>8.0</td>
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<tr>
<td>Input power W</td>
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<td>44</td>
<td>50</td>
<td>54</td>
<td>92</td>
<td>83</td>
<td>122</td>
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<td>Airflow rate High m³/h</td>
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<td>550</td>
<td>600</td>
<td>600</td>
<td>800</td>
<td>940</td>
<td>1,330</td>
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<tr>
<td>Med-High m³/h</td>
<td>480</td>
<td>510</td>
<td>530</td>
<td>680</td>
<td>820</td>
<td>1,140</td>
<td></td>
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<tr>
<td>Med m³/h</td>
<td>400/470</td>
<td>440</td>
<td>460</td>
<td>490</td>
<td>600</td>
<td>730</td>
<td>1,020</td>
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<td>Med-Low m³/h</td>
<td>410</td>
<td>420</td>
<td>450</td>
<td>520</td>
<td>630</td>
<td>900</td>
<td></td>
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<tr>
<td>Low m³/h</td>
<td>320/440</td>
<td>370</td>
<td>370</td>
<td>410</td>
<td>440</td>
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<td>Quiet m³/h</td>
<td>320</td>
<td>320</td>
<td>340</td>
<td>340</td>
<td>470</td>
<td>610</td>
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<td>Static pressure range Pa</td>
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<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 90</td>
<td>0 to 50</td>
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<td>Sound pressure level High dB(A)</td>
<td>26</td>
<td>28</td>
<td>29</td>
<td>30</td>
<td>34</td>
<td>34</td>
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<td>26</td>
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<td>32</td>
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<td>Med dB(A)</td>
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<td>25</td>
<td>27</td>
<td>30</td>
<td>29</td>
<td>29</td>
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<tr>
<td>Med-Low dB(A)</td>
<td>24</td>
<td>24</td>
<td>26</td>
<td>28</td>
<td>27</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>Low dB(A)</td>
<td>20/22</td>
<td>22</td>
<td>22</td>
<td>24</td>
<td>25</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>Quiet dB(A)</td>
<td>21</td>
<td>21</td>
<td>22</td>
<td>22</td>
<td>23</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

**Net Dimensions (H × W × D) mm**
- **ARXD04GALH**: 198 × 700 × 620
- **ARXD007GLEH**: 198 × 700 × 620
- **ARXD009GLEH**: 198 × 700 × 620
- **ARXD012GLEH**: 198 × 700 × 620
- **ARXD014GLEH**: 198 × 700 × 620
- **ARXD018GLEH**: 198 × 900 × 620
- **ARXD024GLEH**: 198 × 1,100 × 620

**Weight kg (lbs)**
- **ARXD04GALH**: 17 (37)
- **ARXD007GLEH**: 17 (37)
- **ARXD009GLEH**: 17 (37)
- **ARXD012GLEH**: 18 (40)
- **ARXD014GLEH**: 18 (40)
- **ARXD018GLEH**: 22 (48)
- **ARXD024GLEH**: 26 (57)

**Connection pipe diameter**
- **Liquid (Flare)**: 6.35 mm, 6.35 mm, 6.35 mm, 6.35 mm, 6.35 mm, 6.35 mm, 9.52 mm
- **Gas (Flare)**: 12.70 mm, 9.52 mm, 9.52 mm, 12.70 mm, 12.70 mm, 12.70 mm, 15.88 mm

**Drain Hose Diameter (I.D./O.D.)**
25/32

**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.
- *: ARXD04GALH cannot be connected to J-IVS/J-IV/J-IVL/VR-IV Series.
- **Max.** 850 mm

---

## Optional parts

- Remote sensor unit: [UTY-X52E](#)
- [UTB-FXNC (SN)](#)
- [UTY-BXAH (SN)](#)
- [UTY-TRHX (007-024)](#)
- [UTD-HFTA (04, 007-014)](#)
- [UTD-HFTB (018)](#)
- [UTD-HFTC (024)](#)
- [UTZ-GXXA, UTZ-GXXC*](#)
- [UTZ-GXXC*](#)
- [UTD-GXTA-W (04, 007-014)](#)
- [UTD-GXTA-W (018)](#)
- [UTD-GXTA-W (024)](#)
- [UTD-GXTA-W (024)](#)

*For more details, please refer to the chapter "Optional parts."
**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.

**Static pressure range**

Static pressures can be changed in the range of 0 to 150 Pa.

**Wide range of static pressures**

- **Low static pressure duct**
  - High Efficiency

**Specifications**

- **Model name**
  - ARXP018GLFH
  - ARXP030GLFH

- **Capacity**
  - Cooling kW: 5.6
  - Heating kW: 6.3

- **Input power W**
  - Single-phase, ~220V, 50Hz

- **Airflow rate**
  - High: 1,540 / 1,440 m³/h
  - Med-High: 1,460 / 1,380 m³/h
  - Med: 1,380 / 1,320 m³/h
  - Med-Low: 1,300 / 1,260 m³/h
  - Low: 1,220 / 1,200 m³/h
  - Quiet: 1,150 / 1,150 m³/h

- **Static pressure range Pa**
  - 0 to 80 Pa

- **Sound pressure level dB(A)**
  - High: 35 / 34
  - Med-High: 34 / 32
  - Med: 32 / 31
  - Med-Low: 31 / 30
  - Low: 29 / 29
  - Quiet: 28 / 28

- **Net Dimensions (H × W × D) mm**
  - 270 × 1,135 × 700

- **Weight kg (lbs)**
  - 40 (88)

- **Connection pipe diameter mm**
  - Liquid (Flare): 6.35, 9.52
  - Gas (Flare): 12.70, 15.88

**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**

- **Long-life filter:** UTD-U250A
- **IR receiver unit:** UTY-TRHX
- **Drain pump unit:** UTD-PX1NBA
- **WLAN adapter:** UTD-HFND

**Dimensions**

- **Side view (R)**
- **Side view (L)**
- **Side view (B)**

---

*For more details, please refer to the chapter “Optional parts”.*
VRF

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>
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<td>Cooling kW 7.1</td>
<td>Heating kW 8.0</td>
<td>Cooling kW 9.0</td>
<td>Heating kW 10.0</td>
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<td></td>
<td>Heating kW 11.2</td>
<td>Heating kW 12.5</td>
<td>Heating kW 12.5</td>
<td>Heating kW 14.0</td>
</tr>
<tr>
<td>Input power W</td>
<td>94</td>
<td>108</td>
<td>194</td>
<td>240</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>High: 1,280 m³/h</td>
<td>Med-High: 1,410 m³/h</td>
<td>Med: 1,840 m³/h</td>
<td>Med-Low: 1,970 m³/h</td>
</tr>
<tr>
<td></td>
<td>Low: 1,970 m³/h</td>
<td>Low: 1,970 m³/h</td>
<td>Low: 1,970 m³/h</td>
<td>Low: 1,970 m³/h</td>
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<tr>
<td></td>
<td>Quiet: 1,280 m³/h</td>
<td>Quiet: 1,410 m³/h</td>
<td>Quiet: 1,840 m³/h</td>
<td>Quiet: 1,970 m³/h</td>
</tr>
<tr>
<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 Pa</td>
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<td>50</td>
<td>50</td>
<td>60</td>
</tr>
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<td>Sound pressure level dB(A)</td>
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<td>Med-High 29</td>
<td>Med 27</td>
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</tr>
<tr>
<td></td>
<td>Quiet 23</td>
<td>Quiet 23</td>
<td>Quiet 23</td>
<td>Quiet 23</td>
</tr>
<tr>
<td>Net Dimensions (H × W × D) mm</td>
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<td>270 × 1,135 × 700</td>
<td>270 × 1,135 × 700</td>
<td>270 × 1,135 × 700</td>
</tr>
<tr>
<td>Weight kg (lbs)</td>
<td>36 (79)</td>
<td>40 (88)</td>
<td>40 (88)</td>
<td>40 (88)</td>
</tr>
<tr>
<td>Connection pipe diameter</td>
<td>Liquid (Flare) 9.52 mm</td>
<td>Liquid (Flare) 9.52 mm</td>
<td>Liquid (Flare) 9.52 mm</td>
<td>Liquid (Flare) 9.52 mm</td>
</tr>
<tr>
<td></td>
<td>Gas (Flare) 15.88 mm</td>
<td>Gas (Flare) 15.88 mm</td>
<td>Gas (Flare) 15.88 mm</td>
<td>Gas (Flare) 15.88 mm</td>
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<tr>
<td>Drain Hose Diameter (I.D./O.D.)</td>
<td>25/32</td>
<td></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].

Model: ARXA024GLEH/ARXA030GLEH/ARXA036GLEH/ARXA045GLEH

Optional parts
For more details, please refer to the chapter "Optional parts."

- Drain pipe connection (Liquid): UTD-DP1N
- Drain pipe connection (Gas): UTD-DP6N
- Drain pump unit: UTD-DP3, UTD-DP4
- External power supply unit: UTD-GXXA, UTD-GXXC
- IR receiver unit: UTD-TR9X, UTD-TRH9X
- Drainage pump unit: UTD-PX1NBA
- Externally controlled unit (UTD-H0XU, UTD-H0XV, UTD-H0XW)
- Silver Ion Filter: UTD-HF2A

Dimensions
Height
*Maintenance accessibility should be considered when installing the product. Refer to the installation manual for the required maintenance access size.

V-072
Refrigerant pipe / flare connection (Liquid)
(Drain hose) 700

Normal
High Static
VRF

material weight. The indoor unit is designed to be 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 lightweight by reducing the noise level generated by the unit.

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 lightweight by reducing the noise level generated by the unit.

Low noise
Models: ARXC036/ARXC045/ARXC060

The corners of the front panel and fan casing of the indoor unit are shaved to reduce air turbulence. The use of a plastic case 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

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚CWB.
- Heating: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚CWB.

Connections:

- Refrigerant pipe / flare connection (Gas)
- Refrigerant pipe / flare connection (Liquid)
- Drain pipe connection (Main drain pan)
- Drain pipe connection (Safety drain pan)
- Drain hose
- Receiver unit:
- Silver Ion Filter:
- WLAN adapter:
- Long-life filter:
- Remote sensor unit:
- Casing (Plastic)
- Ø225 mm

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

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
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- Heating: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚CWB.

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

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.

Specifications

Note: Specifications are based on the following conditions:
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- Heating: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚CWB.

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

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.

Specifications

Note: Specifications are based on the following conditions:
- Cooling: Indoor temperature of 20˚CDB/(15˚CWB), and outdoor temperature of 7˚CDB/6˚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]

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.
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.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>AGYA004GCGH</th>
<th>AGYA007GCGH</th>
<th>AGYA009GCGH</th>
<th>AGYA012GCGH</th>
<th>AGYA014GCGH</th>
<th>AGYE004GCEH</th>
<th>AGYE007GCEH</th>
<th>AGYE009GCEH</th>
<th>AGYE012GCEH</th>
<th>AGYE014GCEH</th>
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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.

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.

Optional parts
- Remote controller is compatible with the following:
  - UTY-RNRYZ5/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ2/UTY-ALGXZ1/UTY-APGXZ1

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>AGYA004GCGH</th>
<th>AGYA007GCGH</th>
<th>AGYA009GCGH</th>
<th>AGYA012GCGH</th>
<th>AGYA014GCGH</th>
<th>AGYE004GCEH</th>
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- For more details, please refer to the chapter "Optional parts".
- 6-fan speed control for quiet operation (via 2-wire controller)
- 2-fan individual vertical airflow cools or warms the entire room comfortably.
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>
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<td>Model name</td>
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Dimensions

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<td>Depth (mm)</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

For more details, please refer to the chapter “Optional parts.”

External power supply unit: UTZ-GXXA, UTZ-GXXC*
WLAN adapter: UTY-TFSXZ1
General installation with indoor unit installed on the ceiling

Installation

- Open
- Concealed
- Wall-mounted type (locally Available)

- 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

- Height 240 mm

 Specifications

<table>
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<tr>
<th>Model name</th>
<th>ABYA030GTEH</th>
<th>ABYA036GTEH</th>
<th>ABYA045GTEH</th>
<th>ABYA054GTEH</th>
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<tbody>
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<td>2,010</td>
<td>2,270</td>
</tr>
<tr>
<td>Med-High 1,520</td>
<td>1,560</td>
<td>1,840</td>
<td>2,070</td>
<td></td>
</tr>
<tr>
<td>Med 1,420</td>
<td>1,450</td>
<td>1,690</td>
<td>1,860</td>
<td></td>
</tr>
<tr>
<td>Med-Low 1,320</td>
<td>1,360</td>
<td>1,530</td>
<td>1,660</td>
<td></td>
</tr>
<tr>
<td>Low 1,220</td>
<td>1,270</td>
<td>1,380</td>
<td>1,470</td>
<td></td>
</tr>
<tr>
<td>Quiet 1,140</td>
<td>1,170</td>
<td>1,230</td>
<td>1,280</td>
<td></td>
</tr>
<tr>
<td>Sound pressure level High dB(A)</td>
<td>42</td>
<td>45</td>
<td>48</td>
<td>51</td>
</tr>
<tr>
<td>Med-High 40</td>
<td>41</td>
<td>46</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Med 39</td>
<td>39</td>
<td>45</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>Med-Low 37</td>
<td>38</td>
<td>41</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>Low 35</td>
<td>36</td>
<td>38</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Quiet 33</td>
<td>34</td>
<td>35</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Drain pipe connection 240 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connection pipe diameter Liquid (Flare)</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>

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]

Optional parts

- For more details, please refer to the chapter "Optional parts."
- Drain pump unit: UTR-DPB24T
- Flange: UIT-3B-201
- External power supply unit: UCT-CADA, UCT-CADC*
- WLAN adapter: UTY-TFSXZ1

Dimensions

- Max. Height 500mm
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 structure 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.
Powerful & Comfort airflow

**Powerful Airflow**

Power diffuser

**Powerful Airflow**

**Power diffuser**

**Powerful Airflow**

Wall-mounted type

**Occupancy sensor (ASYA030/034GTEH only)**

The Occupancy sensor detects the movements of people to suppress operation when people are in the room, automatically reducing power consumption to save electricity bills.

6-step fan speed control for quiet operation

The airflow structure achieves significant noise reduction. A 6-step sound level setting allows for multiple-step silent operations.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>ASYA18GTEH</th>
<th>ASYA24GTEH</th>
<th>ASYA030GTEH</th>
<th>ASYA034GTEH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>3.6</td>
<td>4.1</td>
<td>6.8</td>
<td>7.4</td>
</tr>
<tr>
<td>Capacity</td>
<td>5.6</td>
<td>7.1</td>
<td>9.0</td>
<td>10.0</td>
</tr>
<tr>
<td>Heating</td>
<td>6.3</td>
<td>8.0</td>
<td>10.0</td>
<td>11.2</td>
</tr>
<tr>
<td>Cooling</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Input power</td>
<td>32</td>
<td>60</td>
<td>74</td>
<td>103</td>
</tr>
<tr>
<td>Airflow rate</td>
<td>High 840/1,100/1,440</td>
<td>Med-High -</td>
<td>Med 770/910/1,050</td>
<td>Med-Low -</td>
</tr>
<tr>
<td>Sound pressure level</td>
<td>35/33 dB(A)</td>
<td>-</td>
<td>28/25 dB(A)</td>
<td>-</td>
</tr>
<tr>
<td>Net Dimensions (H × W × D) mm</td>
<td>320 × 998 × 238</td>
<td>320 × 998 × 238</td>
<td>340 × 1,150 × 280</td>
<td>340 × 1,150 × 280</td>
</tr>
<tr>
<td>Weight</td>
<td>15 (33)</td>
<td>15 (33)</td>
<td>18 (40)</td>
<td>18 (40)</td>
</tr>
</tbody>
</table>

**Optional parts**

- External power supply unit: UUT-GXXA (030/034)
- Remote controller: UTY-RNRYZ5 (030/034)
- Central controller: UTY-DCGYZ2 (030/034)
- Wall-mounted type: ASYA030GTEH/ASYA034GTEH

**Dimensions**

- Models: ASYA18/24
- Models: ASYA24/24

---

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

---

- Occupancy sensor (ASYA18GBCH/ASYA24GBCH)
- ASYA18GBCH/ASYA24GBCH
- ASYA030GTEH/ASYA034GTEH
- ASYA18/24GBCH
- ASYA18GBCH
- ASYA24GBCH
- ASYA030GTEH
- ASYA034GTEH

---

- Remote controller compatible with the following models:
  - UTY-RNRYZ5
  - UTY-TFCYX1
  - UTY-DCGYZ2
  - UTY-ALGXZ1
  - UTY-APGXZ1

---

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: 0.0 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).
Residential, Commercial & Light Commercial

VENTILATION

VENTILATION Lineup

| Vn-002 | Energy Recovery Ventilator |
| Vn-004 | DX kit for Air handling applications |
| Vn-006 | DX kit for Air handling applications |
| Vn-008 | AIR HANDLING UNIT |

Efficient heat exchange combined with fresh air 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.

Lineup

<table>
<thead>
<tr>
<th>Airflow rate (m³/h)</th>
<th>250</th>
<th>350</th>
<th>500</th>
<th>800</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Recovery</td>
<td>UTZ-BO005C</td>
<td>UTZ-BO005C</td>
<td>UTZ-BO005C</td>
<td>UTZ-BO010C</td>
<td>UTZ-BO010C</td>
</tr>
<tr>
<td>Ventilator</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connectable capacity class (kW)</th>
<th>5.0</th>
<th>6.3</th>
<th>8.0</th>
<th>10.0</th>
<th>12.5</th>
<th>16.0</th>
<th>20.0</th>
<th>25.0</th>
<th>40.0</th>
<th>50.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>DX kit</td>
<td>EEV unit UFP-VX10A</td>
<td>EEV unit UFP-VX10A</td>
<td>EEV unit UFP-VX15A</td>
<td>EEV unit UFP-VX15A</td>
<td>EEV unit UFP-VX20A</td>
<td>EEV unit UFP-VX20A</td>
<td>EEV unit UFP-VX30A</td>
<td>EEV unit UFP-VX30A + 2</td>
<td>EEV unit UFP-VX30A + 2</td>
<td>EEV unit UFP-VX30A + 2</td>
</tr>
<tr>
<td>for Air handling applications</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
<td>Control unit UTV-VDGK</td>
</tr>
<tr>
<td>for VRF Outdoor unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connectable capacity class (kW)</th>
<th>3.5 - 22.0</th>
</tr>
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<tbody>
<tr>
<td>DX kit</td>
<td>UFP-XQ05X</td>
</tr>
<tr>
<td>for Air handling applications</td>
<td></td>
</tr>
<tr>
<td>for VRF Outdoor unit</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connectable capacity class (kW)</th>
<th>25 - 96</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air handling unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>AHYA/AHYB/AHYC/AHYD/AHYE</td>
</tr>
</tbody>
</table>
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.

Simple remote operation

Easy operation with connected liquid crystal switch
- Power On/Diff
- On/Off Timer
- Air volume High/Low
- Heat exchange ventilation and normal ventilation

Model: UTZ-BD025C/BD035C/BD050C/BD080C/BD100C

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>UTZ-BD025C</th>
<th>UTZ-BD035C</th>
<th>UTZ-BD050C</th>
<th>UTZ-BD080C</th>
<th>UTZ-BD100C</th>
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</thead>
<tbody>
<tr>
<td>Rated flow rate (m³/h)</td>
<td>150</td>
<td>150</td>
<td>200</td>
<td>350</td>
<td>500</td>
</tr>
<tr>
<td>Rated pressure loss (Pa)</td>
<td>105</td>
<td>95</td>
<td>45</td>
<td>140</td>
<td>60</td>
</tr>
<tr>
<td>External static pressure</td>
<td>35/63/65</td>
<td>75/75/75</td>
<td>75/75/75</td>
<td>75/75/75</td>
<td>75/75/75</td>
</tr>
<tr>
<td>Sound pressure level (dB)</td>
<td>26.5/26.5/26.5</td>
<td>30.5/30.5/26.5</td>
<td>31.5/30.5/25.5</td>
<td>33.0/31.0/25.5</td>
<td>33.5/31.0/25.5</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>382</td>
<td>499</td>
<td>579</td>
<td>719</td>
<td>839</td>
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<tr>
<td>Outlet duct diameter (mm)</td>
<td>128/123/96</td>
<td>190/185/168</td>
<td>289/225/185</td>
<td>418/378/295</td>
<td>464/432/311</td>
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<tr>
<td>Rated temperature exchange (°C)</td>
<td>35/63/65</td>
<td>63/63/65</td>
<td>65/65/68</td>
<td>65/65/68</td>
<td>65/65/68</td>
</tr>
<tr>
<td>Rated temperature exchange (°C)</td>
<td>85/85/85</td>
<td>85/85/85</td>
<td>85/85/85</td>
<td>85/85/85</td>
<td>85/85/85</td>
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Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>UTZ-BD025C</th>
<th>UTZ-BD035C</th>
<th>UTZ-BD050C</th>
<th>UTZ-BD080C</th>
<th>UTZ-BD100C</th>
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</thead>
<tbody>
<tr>
<td>Height (mm)</td>
<td>270</td>
<td>317</td>
<td>388</td>
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<tr>
<td>Width (mm)</td>
<td>242</td>
<td>242</td>
<td>194</td>
<td>194</td>
<td>194</td>
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<tr>
<td>Depth (mm)</td>
<td>580</td>
<td>580</td>
<td>580</td>
<td>580</td>
<td>580</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>8.8</td>
<td>8.8</td>
<td>8.8</td>
<td>12.8</td>
<td>12.8</td>
</tr>
<tr>
<td>On/Off Timer</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Power On/Off</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Easy operation with liquid crystal switch</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* Noise level measured 1.5 m below the center of the unit.
Central control enabled by our VRF controllers or central management controllers

- 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)

**Modbus® Control**
- Can be controlled via a MODBUS®-enabled BMS, using an optional interface.

**Network**
- MODBUS®

**Spy**
- DDC*

*DDC stands for Direct Digital Controller

**DX kit** for VRF Outdoor unit

**VENTILATION**

Multiple temperature sensors optimally control an Air handling unit and a fan coil unit.

- When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.
- When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

**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)
- Connectable capacity range: 5 kW to 50 kW

**A variety of control options that meet application requirements**

- Connectable VRF Series: All VRF Series
- Capacity range of connectable DX kit systems with outdoor units: 50 to 100% of capacity
- Capacity range of connectable DX kit systems with indoor units: 30% or less of capacity
- Max. pipe length between EEV unit and indoor unit: 5 m
- A control unit (IP54 class) and an EEV unit can be installed outdoors.

**Application as part of a VRF system**

- Connection pipe diameter (Liquid)
- Dimensions (H × W × D)
- Power source V/Ø/Hz

**Central control from external controllers**

- Fault indication
- Defrost indication
- Thermostat On/Off indication
- Fan On/Off indication
- On/Off indication

**Inputs**
- On/Off
- Setting temperature
- Capacity demand
- Heating/Cooling operation modes
- Fault information

**Outputs**
- On/Off indication
- Fan On/Off indication
- Thermostat On/Off indication
- Defrost indication
- Fault indication

**Connectable capacity**
- Single connection
- Wood connection

**Specification***

**ENTRANCE**

<table>
<thead>
<tr>
<th>Indoor/Outdoor unit</th>
<th>5.0 kW</th>
<th>6.0 kW</th>
<th>7.5 kW</th>
<th>9.0 kW</th>
<th>12.5 kW</th>
<th>14.0 kW</th>
<th>20.0 kW</th>
<th>25.0 kW</th>
<th>40.0 kW</th>
<th>50.0 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
<td>230/1/50</td>
</tr>
</tbody>
</table>

**Central control enabled by our VRF controllers or central management controllers**

- Connectable capacity range: 50 to 100% of capacity
- Capacity range of connectable DX kit systems with indoor units: 30% or less of capacity
- Max. pipe length between EEV unit and indoor unit: 5 m
- A control unit (IP54 class) and an EEV unit can be installed outdoors.

**Optimal separation tube to connect two EEV units:**

- DX kit

**DX kit**

- EEV unit
- UTP-VX30A/UTP-VX60A/UTP-VX90A
- Control unit: UTY-VDGX

**Connectable capacity**

- 50 to 100% of outdoor unit capacity
- Within 30% of total capacity

**Pipe and wire length**

- Max. pipe length 15 m
- Max. wire length 30 m

**Control unit: UTY-VDGX**

EEU unit: UTP-VX30A/UTP-VX60A/UTP-VX90A

**DX kit**

- EEV unit
- UTP-VX30A/UTP-VX60A/UTP-VX90A
- Control unit: UTY-VDGX

**Central control from external controllers**

- Fan On/Off indication
- On/Off indication

**Inputs**

- On/Off
- Setting temperature
- Capacity demand
- Heating/Cooling operation modes
- Fault information

**Outputs**

- On/Off indication
- Fan On/Off indication
- Thermostat On/Off indication
- Defrost indication
- Fault indication

**Connectable capacity**

- 50 to 100% of outdoor unit capacity
- Within 30% of total capacity

**Pipe and wire length**

- Max. pipe length 15 m
- Max. wire length 30 m

**Control unit: UTY-VDGX**

EEU unit: UTP-VX30A/UTP-VX60A/UTP-VX90A

**DX kit**

- EEV unit
- UTP-VX30A/UTP-VX60A/UTP-VX90A
- Control unit: UTY-VDGX

**Central control from external controllers**

- Fan On/Off indication
- On/Off indication

**Inputs**

- On/Off
- Setting temperature
- Capacity demand
- Heating/Cooling operation modes
- Fault information

**Outputs**

- On/Off indication
- Fan On/Off indication
- Thermostat On/Off indication
- Defrost indication
- Fault indication

**Connectable capacity**

- 50 to 100% of outdoor unit capacity
- Within 30% of total capacity

**Pipe and wire length**

- Max. pipe length 15 m
- Max. wire length 30 m

**Control unit: UTY-VDGX**

EEU unit: UTP-VX30A/UTP-VX60A/UTP-VX90A

**DX kit**

- EEV unit
- UTP-VX30A/UTP-VX60A/UTP-VX90A
- Control unit: UTY-VDGX
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 3.5 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>
</tr>
</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>
</tr>
<tr>
<td>• Capacity demand (analogue 0 to 10 V)</td>
<td></td>
</tr>
<tr>
<td>• Heat exchanger temperature</td>
<td></td>
</tr>
</tbody>
</table>

Wireless LAN Control

Wireless LAN control through cloud connectivity enables secure remote monitoring and control from anywhere.

Easy installation

• Compact DIN rail mountable enclosure for easy installation
• No expansion devise required
• No separate external power supply required

Model: UTY-XDZX

<table>
<thead>
<tr>
<th>Specifications</th>
<th>3.5 kW</th>
<th>4.3 kW</th>
<th>5.2 kW</th>
<th>6.8 kW</th>
<th>8.4 kW</th>
<th>10.0 kW</th>
<th>12.1 kW</th>
<th>13.3 kW</th>
<th>15.0 kW</th>
<th>19.0 kW</th>
<th>22.0 kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (Nominal)</td>
<td>Heating</td>
<td>Cooling</td>
<td>Heating</td>
<td>Cooling</td>
<td>Heating</td>
<td>Cooling</td>
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Model issue UTY-XDZX

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Note: Specifications are based on the following conditions:

Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 5.0 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.
Light Commercial & Commercial

AIR HANDLING UNIT

- Vn-010 System Overview
- Vn-012 AIRSTAGE® Lineup
- Vn-014 Air Handling Units Overview
- Vn-016 Features
  - Structure
  - Filtration
  - Thermal Exchange Sections
  - Fan Section
  - Humidifier
  - Heat Recovery Section
- Vn-022 Dimensions
- Vn-025 Loose Accessories
- Vn-026 Total Pressure Drop
- Vn-027 Fan Characteristic Curves
- Vn-030 Specifications
- Vn-032 Control System
  - AHU Controller
  - System controller (System controller Lite)
Air handling applications available in Fujitsu General AIRSTAGE™ system realize high energy efficiency and superior comfort to flexibly adapt to the stringent air conditioning requirements and installation conditions of a wide variety of facilities.

The system consists of AIRSTAGE™ outdoor units of 10 to 48 HP and thermal ventilation and air conditioning units for civil and industrial use, covering airflow ranges from 4,300 to 18,100 m³/h with cooling capacities from 25 to 96 kW.

Advantages of the System

Full comfort
This system provides clean, fresh air with advanced filtration and balanced temperatures to increase comfort and air quality in a building.

Simple design, easy installation
Equipped with a DX kit (Electronic Expansion Valve and PCB), AHU facilitates installation design. The AHU model can be easily configured using the Selection Software.

Total solution concept
Integrating an AHU into the building climate control system simplifies the design and installation processes based on a single, common technology. From project follow-up through to installation, commissioning, and maintenance, all procedures are simplified. The above features allow a single installation company to carry out design, installation, and commissioning.
AIRSTAGE™ Lineup

Fujitsu General’s AIRSTAGE™ series is a multi-type air conditioning system for buildings tailored to the scale and application of the building.

| Capacity (kW) | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 55.9 | 61.5 | 67.0 | 73.5 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 107.0 | 112.0 | 118.5 | 123.5 | 130.0 | 135.0 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|--------|--------|--------|--------|
| HP          | 10   | 12   | 16   | 16   | 18   | 20   | 22   | 24   | 26   | 28   | 30   | 32   | 34    | 36     | 38     | 40     | 42     | 44     | 46     | 48     |
| J-IVL Series| AJY090LALDH | AJY130LALDH | AJY166LALDH | AJY194LALDH | AJY220LALDH | AJY250LALDH | AJY280LALDH | AJY310LALDH | AJY340LALDH | AJY370LALDH | AJY400LALDH | AJY430LALDH | AJY460LALDH | AJY490LALDH | AJY520LALDH | AJY550LALDH | AJY580LALDH | AJY610LALDH | AJY640LALDH |
| Space Saving| AJY090LALDH | AJY130LALDH | AJY166LALDH | AJY194LALDH | AJY220LALDH | AJY250LALDH | AJY280LALDH | AJY310LALDH | AJY340LALDH | AJY370LALDH | AJY400LALDH | AJY430LALDH | AJY460LALDH | AJY490LALDH | AJY520LALDH | AJY550LALDH | AJY580LALDH | AJY610LALDH | AJY640LALDH |
| Energy Efficiency| AJY144LALDHH | AJY180LALDHH | AJY216LALDHH | AJY252LALDHH | AJY288LALDHH | AJY324LALDHH | AJY360LALDHH | AJY396LALDHH | AJY432LALDHH | AJY468LALDHH | AJY504LALDHH | AJY540LALDHH | AJY576LALDHH | AJY612LALDHH | AJY648LALDHH | AJY684LALDHH | AJY720LALDHH | AJY756LALDHH | AJY792LALDHH |

Fujitsu General provides air conditioning systems for a wide range of applications, from residences, small offices, hotels, to large retailers.
The Air handling unit (AHU) is designed to be connected with AIRSTAGE™ series outdoor units for thermal ventilation and air conditioning of civil and industrial buildings. With airflow rates ranging from 4,300 to 18,100 m³/h and cooling capacities from 25 to 96 kW, a variety of models and multiple additional modules are available to meet diverse installation needs.

The AHU is made of extruded aluminum profiles and nylon angle bars. The “sandwich-type” double-skin panels (50 mm thick), made of surface coating pre-painted galvanized sheets and high-density polyurethane foam insulation, are fixed to the unit by an aluminum snap-in locking system.

The AHU fan section in the EC inverter Plug Fans provides constant airflow and constant available static pressure with an automatic control system. An electronic device with a pressure sensor mounted in the system and a control sensor on the EC inverter Plug Fans adjust the airflow rate and the available static pressure to keep the airflow constant.

5 configurations are available

**Configuration A**
In line with Front damper
For fresh air operation up to 100% external air

**Configuration B**
In line with Top inlet damper
For fresh air operation up to 100% external air

**Configuration C**
In line with Inlet mixing box
For fresh air operation up to 20% external air

**Configuration D**
Double deck with Cross-flow heat exchanger

**Configuration E**
Double deck with heat wheel
VENTILATION

Feature

Structure
Section of extruded profile 62 × 62 mm (SNAP-IN system)

• The Air handling units are manufactured with a bearing framework and sandwich paneling.
• The frame is made of extruded anti-corrosive aluminum alloy profile, ANOX 65-UNI 9006/1.
• Fujitsu General’s proprietary bearing has an actual size of 62 × 62 mm and an aluminum locking panel (SNAP-IN system). This system enables uniform tightness of the panels that has not been achieved with the previous self-drilling screw fasteners, and thus ensures a degree of adhesion in excess of 2,500 Pa (10 in.W.G.). This profile, with no internal or external screws, provides a stronger and more beautiful appearance.
• The actual size of the panel used is 50 mm, due to the dimensions of the profile.
• In addition, the profile has no external sharp edges as prescribed by safety and accident prevention guidelines.
• The AHU is certified as meeting the most stringent performance standards.
• Fujitsu General units and all the internal components comply with ErP EcoDesign Directive 2018 Lot 6.
• Fujitsu General units comply with the European Standards UNE EN 1886 with respect to thermal and mechanical performances.

Paneling

The panels are a double-skin sandwich type made of galvanized steel, with polyurethane foam insulation of a minimum density of 45 kg/m³ and an actual thickness of .50 mm.

The composition of the panel is as follows:
- Inner skin: hot-dip galvanized sheet (galvanization thickness of not less than 140 g/m²), 0.7 mm thick
- Insulation: rigid polyurethane foam (minimum density of 45 kg/m³; thermal conductivity 0.018 – 0.024 W/m·°C)
- Outer skin: hot-dip, pre-painted galvanized sheet (galvanizing thickness of not less than 140 g/m²), 0.7 mm thick

Mechanical characteristics of extruded aluminium alloy

<table>
<thead>
<tr>
<th>Denomination</th>
<th>Specific weight (kg/m³)</th>
<th>Indent load of tension break (N/mm²)</th>
<th>Bending load 5 (N/mm²) (MPN)</th>
<th>Elongation (%)</th>
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<td>16 – 20</td>
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</tbody>
</table>

Profile

- Fujitsu General’s proprietary bearing has an actual size of 62 × 62 mm and an aluminum locking panel system (SNAP-IN system). This system enables uniform tightness of the panels that has not been achieved with the previous self-drilling screw fasteners, and thus ensures a degree of adhesion in excess of 2,500 Pa (10 in.W.G.). This profile, with no internal or external screws, provides a stronger and more beautiful appearance.
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Features of steel sheets

- Hot-dipped galvanized steel sheet Fe P02 LF 140 UNI EN 10142 with galvanization of not less than 140 g/m², 0.7 mm thick
- Pre-painted steel sheet, 0.7 mm thick, with base support made of hot-dip galvanized steel with galvanization of not less than 140 g/m² EUROMORM 142-79, a white-grey coating with excellent weather resistance. The protective system consists of a dry film of 25 μm on the exposed skin, and of a dry film of 5 μm on the non-exposed skin.
- Film hardness: F on the Koh-i-Noor scale
- Other chemical and physical properties:
  - Resistance to salt spray exceeding 250 hours
  - Resistance exceeding 1,000 hours in 100% relative humidity (ASTM D 714)
  - Film resistance to cleaning and adhesion after bending (EECA T7).
- The exposed surface of the steel plate is covered with a self-adhesive PVF film to prevent damage during the manufacturing process and transportation.

Base frame

- The bearing base frame is made of galvanized steel, the outline of which is pressure bent, bolted or welded, depending on the configuration of the unit.
- Each part can be elevated and lowered, making it suitable for water and drain pipe.
- The perimeter base frame is 100 mm high, C-shaped and bolted on all units.
- The base frames for all of the above solutions are made of galvanized steel with a thickness of at least 2 mm.

Covering Roof (TT - Accessory)

- Units that are installed outdoors or that are frequently exposed to the weather can be fitted with a hot galvanized steel roof (with a galvanization of 140 g/m² or higher) as an accessory element.
- The roof overhang relative to the outer length of the unit is about 100 mm.
- All roof corners are equipped with protectors to prevent accidents.

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Filtration
Plate Filters COARSE 55%

The plate filter filters air at low and medium efficiency.
- Plate filters are generally used as pre-filters to maintain the efficiency of the filters installed downstream for longer.
- Plate filters are installed on guides fixed inside the unit. In this case, the air bypass will be minimal.

Plate filters are widely used due to the following features:
- Easy to remove
- Easy to obtain spare parts
- Highly regenerable, they can be cleaned with warm water and soap or common household detergent.

Features of Plate filters
- Galvanized steel sheet frame 48 mm thick
- Support containing net made of galvanized electrowelded wire
- Filtering material made of synthetic fiber with a filtration efficiency of COARSE 55%

Filtration
Bag Filters ePM1 50%

Bag filters are characterized by a large filtration area due to their bag-like shape, which greatly reduces the airflow velocity as the air passes through the filter.

The bags are installed on a galvanized slide and can be removed from the side. This filtering section includes an access door.

Features of soft bag filters
- Efficiency of ePM1 50%
- 287 mm deep
- Filter material made of fiberglass
- Galvanized steel sheet frame
- 80% of the material is recyclable
- Can be used even at 100% relative humidity.

N.B.: ePM1 50% bag filters are mandatory to comply with ECODESIGN ErP 2016.

Thermal Exchange Sections
DX Coil

Contents
- DX coil with copper tubes and aluminum fins, specifically designed to ensure a high thermal exchange rate and an excellent ratio of sensible and latent heat;
- One distributor and one electronic expansion valve for each circuit are connected to the control PCB, and the control PCB is located in close proximity to avoid interference, immunity, and electromagnetic interference problems;
- The temperature probes installed at the front, rear, and middle of the coil provide data to the control PCB, which in turn determines the opening of the electronic expansion valve according to the work point and the setpoint;
- In multi-module units, the cooling circuits are interlaced to ensure full utilization of the exchange surface and the uniformity of the air being processed even under partial loads. The section includes the control PCB.

Thermal Exchange Sections
Electrical heating

Electrical heating section is used for heating and post-heating processing

The thermal exchange sections consist of:
- Galvanized steel sheet flanged containing frame
- Finned steel tubular heaters on base insulators
- Safety fix thermostat with manual reset
- Electric heating is assumed to have a capacity of up to 36 kW at 400 V/3-phase/50 Hz system.
The fan section is equipped with an EC Inverter Plug-Fan.

- EC Inverter Plug Fans are electronically controlled to adjust the fan speed to provide airflow and static pressure according to the system capacity. By varying the airflow according to the required heat load, the system reduces energy consumption and noise, which is effective especially when partial loads are applied.
- The EC Inverter Plug Fans allow the user to set various working conditions to meet the needs of the unit directly on site from the control panel on the Electrical Board section. If the wind is weaker than expected, for example, the operating conditions can be changed and adjusted with ease.
- Compared to traditional plug fans, the use of EC inverter technology has greatly improved the overall efficiency and acoustic properties of fans. The Blade geometry with a diagonal trailing edge has positive effects on the aerodynamic performance and on the smoothness of fan rotation. The same holds true for the contour of the mounted nozzle.
- By integrating the EC motor directly into the impeller with the fan, the overall dimensions of the section can be minimized. There is no need for the commonly used belt drive between the motor and the fan. This reduces the amount of installation required and associated installation work.
- The EC Inverter Plug Fans substantially exceed the requirements for energy efficiency class A+ - requirements listed in the German Manufacturers Association RLT Directive 05 “General Requirements for Ventilation and Air Conditioning Equipment” and in the ErP2015 standards respectively.
- The EC Inverter Plug Fans used in the fan section of the AHU provide constant airflow and constant available static pressure with an automatic control system. An electronic device with a pressure sensor mounted in the system and a control sensor on the EC inverter Plug Fans adjust the airflow rate and the available static pressure to keep the airflow constant.

Humidifier

Electrode humidifiers specifically designed for installation inside Air handling units

- The humidifier consists of two electrically connected parts: a hydraulic part and a control unit based on a microprocessor board. The hydraulic part is completely inserted into the AHU, and sits on top of the drain tank immediately downstream of the cooling coil.
- This control is fully integrated into the microprocessor in the ARU.
- The hydraulic boiler consists of a plastic polypropylene channel with a cross section of 33 cm × 16 cm high and a length proportional to the width of the AHU. Stainless steel electrodes are placed vertically inside the boiler, connected to the power supply, and are easily removable. The plastic lid is inclined so that any condensation will drain into the boiler in order to avoid power losses.
- Narrow longitudinal slots between the plastic sections allow air to fill the entire length of the AHU section by ensuring the generated steam.
- This prevents condensate from being generated in the pipes and also prevents the steam pressure in the boiler from rising due to clogging of the steam pipes.

On one side of the kettle, there is a body for hydraulic management of the system, which can be easily accessed after installation.

- Maximum water level sensor
- The drainage block is specially designed to empty the tank of water and limestone debris without blocking the tank or interrupting the flow of water, allowing the work to be done without applying pressure.

Heat Recovery Section

Heat Wheel Recovery Units

Typically, these types of recovery units consist of:

- Aluminum rotor
- Galvanized steel sheet frame
- Constant speed electric gearmotor

The principle of operation is as follows:

- The exhaust air travels across the semi-circular rotor sector, transferring some of its heat to the metal mass. As the exhaust passes through the half circular rotor sector, it transfers heat to the metal parts, which in turn transfers the heat to the fresh, cool air drawn in from outside through the other side of the half circular rotor sector, thus allowing ventilation without cooling the room. When the rotor is of the hygroscopic type, the humidity contained in the exhaust air will also be partially transferred to the regenerative air.
- The terms “warm air” and “cold air” as used above are valid for the winter operating cycle; in the summer operating cycle, the functions of heat and humidity transfer are reversed.

Normal supply is assumed to be as follows:

- Recovery unit with aluminum fins
- Cell prefilters COARSE 55% (85% efficiency) installed on the fresh air side
- Galvanized steel sheet drain pan to collect possible condensation

Heat Recovery Section

Cross-flow heat recovery

The efficiency of the recovery unit is up to 85%.

- The fixed plate static recovery units are air-to-air with no moving parts, making the system reliable and safe. The air mixers, in a cross flow, where heat is transferred directly from the hotter stream to the cooler stream. The efficiency of the recovery unit is up to 85%.
- This type of heat exchanger is made of pressed aluminum sheets and is housed at various intervals depending on the type of use.
- The edges are sealed to prevent renewed air from being contaminated from polluting agents contained in exhaust air.

VENTILATION
<table>
<thead>
<tr>
<th>Model name</th>
<th>Config.</th>
<th>H (mm)</th>
<th>W (mm)</th>
<th>L (mm)</th>
<th>kg</th>
<th>L (with silencer) (mm)</th>
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**Dimensions**

**Configurations A**

1. **Config. A**
2. **Config. B**
3. **Config. C**
4. **Config. D**

**Configurations B**

1. **Config. A**
2. **Config. B**
3. **Config. C**
4. **Config. D**

**Configurations C**

1. **Config. A**
2. **Config. B**
3. **Config. C**
4. **Config. D**
### Ventilation

<table>
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<th>Model name</th>
<th>Config.</th>
<th>H (mm)</th>
<th>W (mm)</th>
<th>L (mm)</th>
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**Loose Accessories**

Galvanized metal sheet roof

Units that are installed outdoors or that are frequently exposed to weather can be fitted with a hot galvanized steel roof (with a galvanization of '140 g/m²' or higher) as an accessory element. The roof overhang relative to the outer length of the unit is about 100 mm. All roof corners are equipped with protectors to prevent accidents.
Total Pressure Drop Calculation

Air handling units (AHUs) controlled by EC inverter Plug fans meet a high range of required airflows and static pressures.

The EC Inverter Plug Fans allow the user to set various working conditions to meet the needs of the unit directly on site from the control panel on the Electrical Board section. If the wind is weaker than expected, for example, the operating conditions can be changed and adjusted with ease.

Selection procedure

• Select the most suitable AHU model according to the airflow rate.
• Based on the required airflow and overall static pressure value, identify the operating point of the airflow static pressure on the curve for the selected fan.

To calculate the overall static pressure value, refer to the component pressure drop table and add the net static pressure required for the plant.

Component pressure drop table

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<th>ODU</th>
<th>Nom.</th>
<th>Airflow</th>
<th>Total pressure (Pa)</th>
<th>Input power (W)</th>
<th>Fan speed (rpm)</th>
<th>Noise (dB)</th>
<th>Vn</th>
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Fan characteristic curves

Fan type 400 mm

Air flow rate | Total static pressure (Pa) | Input power (W) | Fan speed (rpm) | Noise (dB) | Vn |
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**Fan type 560 mm**

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## Specifications

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### Configuration D

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<tr>
<td>Insulation</td>
<td>Polyurethane foam, 50 mm thick, 45 kg/m³</td>
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<td>Performance</td>
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<td>7.3</td>
<td>7.3</td>
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</tbody>
</table>

(*) at rated airflow
AHU units include a built-in electrical panel and expansion valve with control PCB. Setpoint is fixed via standard wired control. The cooling load is determined by the air return temperature and the setpoint of the wired control.

**AHU Controller**

**UTY-TXUX**

**Features**

- Easy to install. Control connects to AHU PLC.
- Controls can be installed after the building is decorated.
- Mode lock function: Allows users to lock the operating mode of the AHU.

**Easy operation**

This remote controller provides an intuitive user interface with a touch screen display.

**Functions**

- Schedule setting change
- Set temperature and humidity
- Ambient name
- Alarm setting
- Event setting

**System controller**

**UTY-APGX1**

**Features**

System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- System controller controls up to 4 VRF network systems, 1,600 indoor units, and 400 outdoor units.
- 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.

**Max. Controllable**

- 4 VRF network systems
- 1,600 indoor units
- 400 outdoor units

**System controller Lite**

**UTY-ALGX1 + UTY-PLGX2**

**Features**

System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- System controller Lite controls up to 1 VRF network system, 400 indoor units, and 100 outdoor units.
- In addition to precise air conditioning control, a variety of management-specific applications are available as options, enabling a wider range of control.

**Max. Controllable**

- 1 VRF network system
- 100 outdoor units
- 400 indoor units

**Centralized control**

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.

**Specifications**

- **Model name:** UTY-APGX1
- **Format:** mm
  - 120 × 86 × 25
- **Power supply:** 24 V AC - 24 V AC/DC
- **Analogue inputs:** 1 × Integrated NTC
- **Connectivity:** RS485 - MODBUS® SL, USB Micro-B (debug and programming)
- **Operating temperature:** 0 – +50 °C

**Energy recovery ventilator**

- Facilities: Lighting, Ventilation, Energy recovery

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Vn-032 Vn-033
**Summary of functions**

<table>
<thead>
<tr>
<th>Function</th>
<th>System controller</th>
<th>System controller Lite</th>
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<tr>
<td>Mobile number of VRF networks supported</td>
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<tr>
<td>Memory</td>
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<tr>
<td>Graphic</td>
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<tr>
<td>Operating software</td>
<td>Adobe® Acrobat Reader® 9.0 or later</td>
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<tr>
<td>Graphical accelerator</td>
<td>Microsoft® Direct X 9.0 or later</td>
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<tr>
<td>Supported languages</td>
<td>English, Chinese, French, German, Spanish, and Polish</td>
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<td>Minimum of required USB ports</td>
<td>1 USB port is required for an Echelon® U10 USB Network Interface (for getting access to the internet using a landline)</td>
<td></td>
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</table>

**Operating system**

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

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**Software protection key**

- WibuKey

**For System controller Lite**

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- Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)
CONTROL SYSTEM & OPTIONAL PARTS

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.

Light Commercial & Commercial, Residential

INDIVIDUAL CONTROL
C-010 Wired Remote Controller (with touch panel)
C-011 Wired Remote Controller
C-012 Simple Remote Controller

CONVERTERS/ADAPTERS
C-013 WLAN Adapter
C-014 MODBUS® Converter
C-015 External switch controller
C-016 MODBUS® Interface
C-017 KNX® Interface
C-018 WLAN Adapter
C-020 BACnet® Gateway

CENTRALIZED CONTROL
C-024 Central Remote Controller

CONVERTERS/ADAPTERS
C-025 Network Converter for Single-Split Type

Optional parts
C-056 Silver Ion Filter
C-057 Auto Louver Grille Kit
C-058 Pressure Sensor Kit
C-059 External Power Supply Unit
C-060 Optional Parts List
C-064 Function List
C-068 Separation Tube and other piping products
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 Ceiling type
For Duct type
For Cassette type

Online Control (Wireless Control via Smartphone/Tablet)

With the WLAN adapter and the FGLair 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 from outside the home.

Simple, user-friendly interface design
The designed screen display makes it easier than ever to operate.

Conveters/Adapters
For external control via BMS/Home Automation Systems

MODBUS® converter
for indoor units

MODBUS® interface
for indoor units

KNX® converter
for indoor units

KNX® interface
for indoor units

WLAN adapter

Network converter
DC power supply type
UTY-VTGX

AC power supply type
UTY-VTGXV

Air Conditioning
Centralized control

Central remote controller
for 5, 6 & 8-unit Multi-split type
Enables individual and central control.

For Duct type

For Ceiling type

For Cassette type

IR receiver unit
This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.

Simple remote controller
Compact remote controller
with basic functionality

Download Free
Control System Overview
for VRF

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 (with touch panel)
  UTY-IRRYZ5
- Wired remote controller
  UTY-IRLY
- Compact wired remote controller
  UTY-RCRYZ1
- Simple remote controller
  UTY-RHRY
- Wireless Remote Controller
  UTY-LNHY
- IR receiver unit
  UTY-YWC for duct type
  UTY-THHX for One-way Flow cassette Series
  UTY-LHBY1 for Cassette Type
  UTY-LHBY2 for Circular Flow cassette Series

Air Conditioning
Centralized control
- System controller
  UTY-APGXZ1/UTY-ALGXZ1 (Lite version)
- Touch panel controller
  UTY-DGYZ1
- Central remote controller
  UTY-DGYZ2

Converters/Adapters
For external control via BMS/Home Automation Systems
- BACnet® gateway
  UTY-ABGXZ1
- BMS/BAS
  UTY-VBGX
- Network converter
  (for LONWORKS™)
  UTY-VLXG
- MODBUS® converter
  UTY-VMSX
- KNX® converter
  UTY-VNSX
- WLAN adapter
  UTY-TFSLX1
- External switch controller
  UTY-TERX

For system expansion
- Compact wired remote controller
  UTY-RCRYZ1
- Simple remote controller
  UTY-RHRY
- Wireless Remote Controller
  UTY-LNHY

*1: Echelon® U10 USB Network Interface
*2: The Lite version controls up to 400 indoor units.
*3: BMS/BAS: Building Management System/Building Automation System

For VRF
System controller
Software
UTY-APGXZ1/UTY-ALGXZ1 (Lite version)
Best control solution for each building structure

Fujitsu General provides the best control solutions suitable for various building structures.

**SHOP**

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual control</th>
<th>Centralized control</th>
<th>Integrating control (Interface)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mixed remote controller</td>
<td>Group remote controller</td>
<td>Touch panel controller</td>
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<tr>
<td></td>
<td>System controller</td>
<td>Network controller for LONWORKS™</td>
<td>MODBUS® converter</td>
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<tr>
<td></td>
<td>Interlock with key card</td>
<td>Operation of indoor unit rotation, etc.</td>
<td>Monitor energy consumption, Electricity charge management, etc.</td>
</tr>
<tr>
<td></td>
<td>Controls limited to staff: Centrally controlled for hotel guests and management, etc.</td>
<td>Peak cut, Operation of indoor unit rotation, etc.</td>
<td>Centralized air conditioning, Timer, etc.</td>
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<tr>
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<td>Local control for common areas</td>
<td>Group control</td>
<td>Advanced energy saving: Setting temperature range, etc.</td>
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<td>Monitor energy consumption</td>
<td>Remote monitoring management</td>
<td>Remote controller prohibition, Limited control for hotel guests, etc.</td>
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<tr>
<td></td>
<td>Control third-party products</td>
<td>Manage multiple sites</td>
<td>Group control, Limitation, etc.</td>
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<tr>
<td></td>
<td>Integrate Fujitsu General air conditioning into BMS</td>
<td>BACnet® gateway, LONWORKS™ converter for MODBUS® converter</td>
<td>External switch converter, BACnet® converter</td>
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**HOTEL**

<table>
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<tr>
<td></td>
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<td>Group control</td>
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<tr>
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**OFFICE**

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<td>Local control for office staff</td>
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# Comparison table of controllers

<table>
<thead>
<tr>
<th>Item</th>
<th>Wired remote controller</th>
<th>Wired remote controller (with touch panel)</th>
<th>Compact wired remote controller</th>
<th>Simple remote controller</th>
<th>Simple remote controller*</th>
<th>Wireless remote controller</th>
<th>Wireless remote controller</th>
<th>Central remote controller for 4-unit multi-split system</th>
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<th>Touch panel controller</th>
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</tbody>
</table>

*1: “Operation mode” setting not available.

*2: Available only for external input control.

*3: Monitoring sites can be set up.

*4: Available only when using Wired remote controller.

*5: The main and remote can only be operated to cancel the settings.

*6: Available only when using Wired remote controller.

*7: Supported: Yes, Optional function: No,Unsupported: No.
**Wired remote controller** (with touch panel)

**UTY-RNRYZ5**

**Specifications**
- **Model name**: UTY-RNRYZ5
- **Power Source**: DC 12 V
- **Dimensions (H × W × D)(mm)**: 120 × 120 × 20.4
- **Weight (g)**: 220
- **Setting temperature range limitation**
  - Nonpolar 2-core type
  - Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish

**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
- 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.

**Energy saving controls**
- Custom Auto
  - Maintains 2 separate setpoints for heating and cooling operations.
  - Automatically switches between heating and cooling modes.
- Auto-off timer
  - While the Auto-timer is activated, if the set off time is specified, the system will automatically turn off one hour after the start of operation.
- 2-setting weekly timer
- Set temperature auto return
- Setting temperature range limitation

**Accurate control for comfort**
A thermo sensor built into the remote controller monitors room temperature accurately.

**Wired remote controller**

**UTY-BLRY**

**Specifications**
- **Model name**: UTY-BLRY
- **Power Source**: DC 12 V supplied by an indoor unit
- **Dimensions (H × W × D)(mm)**: 120 × 120 × 17
- **Weight (g)**: 135

**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.

**Energy saving controls**
- ON/OFF/Weekly timer settings
- A built-in thermo sensor monitors and controls room temperature accurately.
- When something goes wrong, an error code is displayed.
- 16 error codes from the most recent one will be kept in the history. (Last 16 error codes can be accessed)
- Nonpolar 2-core type

**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**
- VRF connection
  - Built-in IR receiver
  - Backlit liquid crystal display
- RAC connection
  - Easy-to-understand display with pictograms

**Specifications**
- **Model name**: UTY-BLRY
- **Power Source**: DC 12 V
- **Dimensions (H × W × D)(mm)**: 120 × 120 × 17
- **Weight (g)**: 135
  - DC 12 V supplied by indoor unit
**Simple remote controller**

**UTY-RSNY, UTY-RSKY/UTY-RHKY (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.
- Backlit. White backlight makes it easy to operate in the dark.
- nonpolar 3-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.

**Easy-to-use operation**
- Enables basic control of an indoor unit, such as ON/OFF, fan speed, operation mode select, and room temperature setting.
- A large ON/OFF button is located in the middle for quick access.
- Works with other individual control units.
- When something goes wrong, an error indicator will appear, and diagnostics can be performed with the remote controller.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-RSNY</th>
<th>UTY-RSKY</th>
<th>UTY-RSNYM, UTY-RSKY</th>
<th>UTY-RHKY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power source</td>
<td>12 V DC</td>
<td>12 V DC</td>
<td>12 V DC</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>120 × 75 × 19.4</td>
<td>120 × 75 × 19.4</td>
<td>120 × 75 × 19.4</td>
<td>120 × 75 × 14</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>90</td>
</tr>
</tbody>
</table>

**WLAN adapter**

**UTY-TFNX2J/UTY-TFSX2J, UTY-TFSX2F**

**USB type for single-split models, UTY-TFSX2F**

- 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.

**WLAN adapter (USB type)**

**UTY-TFSX2F**

A compact USB type is available. No need for specialized installation. Easily installed on the indoor unit.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-TFNX2J (3-wire RC-line type)</th>
<th>UTY-TFSX2J (CN connector type)</th>
<th>UTY-TFSX2F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>71 × 38 × 15</td>
<td>71 × 38 × 15</td>
<td>76.7 × 36 × 9.2</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>35</td>
<td>35</td>
<td>30</td>
</tr>
</tbody>
</table>

**Interfaces**

- Smartphone
- Internet
- Tablet
- Wireless LAN

**Multi-split system**

- Internet
- Router (Locally available)
MODBUS® converter for Indoor Unit

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.

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

Easy Installation
- Easy to install with minimal wiring and without the need for a power supply cable to the converter

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 for UTY-VMSX

- Power supply: 12 V DC
- Input power (W): Max. 1.2 W
- Dimensions (H × W × D) (mm): 140 × 117 × 43
- Weight (g): 200
- Maximum number of connectable indoor units per MODBUS® converter: 1

Specifications for UTY-VKSX

- Power supply: 12 V DC
- Power consumption (W): 0.6
- Dimensions (H × W × D) (mm): 140 × 117 × 43
- Weight (g): 215

External switch controller

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

Occupancy 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.

Other examples: interlocking with card keys
**MODBUS® interface**

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**

![MODBUS® interface diagram](image)

- Up to 1 indoor unit

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>FG-RC-MBS1Z1 (3-wire RC-line type)</th>
<th>FG-AC-MBS1Z1 (CN connector type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of controllable groups</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>
</tr>
<tr>
<td>Weight (g)</td>
<td>85</td>
<td>85</td>
</tr>
</tbody>
</table>

**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).

**Installation example**

![KNX® interface diagram](image)

- Up to 1 indoor unit

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>FG-RC-KNX1Z1 (3-wire RC-line type)</th>
<th>FG-AC-KNX1Z1 (CN connector type)</th>
<th>FG-IR-KNX1Z1 (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>70 × 70 × 28</td>
<td>45 × 59 × 21</td>
<td>81 × 78 × 28</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>70</td>
<td>35</td>
<td>76</td>
</tr>
</tbody>
</table>

---

*IR receiver required.*
WLAN adapter
FG-RC-WIF1Z2/FG-IR-WIF1Z1/FG-AC-WIF1Z1

AC Cloud Control
• 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.

Installation example
[3-wire RC-line type/CN connector type]

[IR type] Connection to wall-mounted type

Basic control
• Turning air conditioner on and off
• Mode select (Heat, Cool, Dry, Auto, Fan)
• Louver position (airflow direction setting)
• Fan speed control
• Room temperature display
• Setting temperature
• Multiple language support
• One single scene is created.

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>FG-RC-WIF1Z2 (3-wire RC-line type)</th>
<th>FG-AC-WIF1Z1 (CN connector type)</th>
<th>FG-IR-WIF1Z1 (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 (D × W × H) (mm)</td>
<td>108 × 70 × 28</td>
<td>81 × 78 × 28</td>
<td>127 × 58 × 17</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>80</td>
<td>76</td>
<td>80</td>
</tr>
</tbody>
</table>

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]

[IR type] Connection to wall-mounted type

Basic control
• Turning air conditioner on and off
• Mode select (Heat, Cool, Dry, Auto, Fan)
• Louver position (airflow direction setting)
• Fan speed control
• Room temperature display
• Setting temperature
• Multiple language support
• One single scene is created.

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>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 (D × W × H) (mm)</td>
<td>70 × 100 × 28</td>
<td>127 × 50 × 17</td>
<td>80 × 78 × 28</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>98</td>
<td>80</td>
<td>76</td>
</tr>
</tbody>
</table>

*IR receiver required.
### Wired remote controller

**Model name**: UTY-RVNYM

- **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,” and “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.

- **Energy-saving controls**
  - **Weekly Timer**
    - ON/OFF, mode, and temperature can be set up to 8 times a day.
    - 2 setting patterns are available (e.g., for Summer/Winter)
    - Easy operation with control guide display
  - **Auto-off timer**
    - Set temperature auto return
    - Setting temperature range limitation

### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model name</th>
<th>UTY-RVNYM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>UTY-RVNYM</td>
<td>UTY-RVNYM</td>
</tr>
<tr>
<td>Power source</td>
<td>12 V DC</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>120 × 120 × 213</td>
<td>120 × 120 × 213</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>220</td>
<td>220</td>
</tr>
</tbody>
</table>

**Note**: D/C is supplied by an indoor unit.
**Wired remote controller**

- UTY-RNNYM

  - **Specifications**
    - **Model name**
      - UTY-RNNYM
    - **Power source**
      - 12 V DC
    - **Dimensions (H × W × D) (mm)**
      - 120 × 120 × 18
    - **Weight (g)**
      - 160

  - **Examples of sensor changes**

  - **Simple and versatile operations with a choice of 4 different types of timers**

  - Up to 16 indoor units

  - Up to 1 group

  - Up to 4 different daily timers

**Wireless remote controller**

- UTY-LNTY

  - **Specifications**
    - **Model name**
      - UTY-LNTY
    - **Power source**
      - 12 V DC
    - **Dimensions (H × W × D) (mm)**
      - 205 × 61 × 17
    - **Weight (g)**
      - 125

  - **Examples of sensor changes**

  - **Simple and versatile operations with a choice of 4 different types of timers**

  - Up to 16 indoor units

  - Up to 1 group

  - Up to 4 different daily timers

**IR receiver unit for duct type**

- UTY-LRHYM, UTY-LBHYM

  - **Specifications**
    - **Model name**
      - UTY-LRHYM
    - **Battery**
      - 1.5 V (R03/LR03/AAA)
    - **Dimensions (H × W × D) (mm)**
      - 170 × 56 × 19
    - **Weight (g)**
      - 85

**IR receiver unit for Cassette**

- UTY-LRHYA2, UTY-LBHYC

  - **Specifications**
    - **Model name**
      - UTY-LRHYA2
    - **Battery**
      - 1.5 V (R03/LR03/AAA)
    - **Dimensions (H × W × D) (mm)**
      - 205 × 61 × 17
    - **Weight (g)**
      - 125

**IR receiver unit for ceiling type**

- UTY-LBHYH

  - **Specifications**
    - **Model name**
      - UTY-LBHYH
    - **Battery**
      - 1.5 V (R03/LR03/AAA)
    - **Dimensions (H × W × D) (mm)**
      - 205 × 61 × 17
    - **Weight (g)**
      - 125

**Examples of sensor changes**

- **Remote sensor in the bedroom**
- **Wired remote controller in the living room**

**Built-in timer**

- **Weekly timer**
  - ON/OFF time can be set to operate twice for each day of the week.
  - Temperature setback timer
    - Sets the time to change the temperature setting and the time to hold the setting for each day of the week.

- **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
Central remote controller

For 5-unit, 6-unit, 8-unit multi-split type
- Batched control of up to 8 indoor units. For all indoor units connected to the remote controllers, the Central remote controller sets the 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 LED screen
- Large, easy-to-read operation panel

Example of system configuration

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 quiet noise mode can be set with the timer.

10 ºC heat operation
When you leave the house, the air conditioner runs a minimum heating operation to maintain the room temperature at 10ºC.

*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 1ºC and the maximum electric load factor is suppressed.

Prohibiting local control, including settings such as child lock
The 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 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.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model name UTY-DMMYM/UTY-DMMYM1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>12 V DC</td>
</tr>
<tr>
<td>Dimensions (D × W × H) (mm)</td>
<td>120 × 120 × 21.3</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>220</td>
</tr>
<tr>
<td>DC supplied by an indoor unit</td>
<td></td>
</tr>
</tbody>
</table>

Network converter for single-split type

- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both monopolar 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.

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>UTY-VTGX/UTY-VTGXV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Single phase 220 to 240V 50/60Hz</td>
</tr>
<tr>
<td>Indoor units per iTU</td>
<td>Min. 2 kW</td>
</tr>
<tr>
<td>Dimensions (D × W × H) (mm)</td>
<td>140 × 37 × 63</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>5 to 200</td>
</tr>
<tr>
<td>DC supplied by a branch box per unit, max. per system</td>
<td>1,500</td>
</tr>
</tbody>
</table>

Up to 100 Network Converters
- Both monopolar 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)
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

**IR receiver unit for duct type**

**UTB-YWC, UTY-TRHX**

- The wireless remote controller controls duct type* indoor units.
- Large airflow duct types do not work with this IR receiver unit.

**IR receiver unit for Cassette**

**UTY-LRHYB1, UTY-LBHXD, UTY-TRHX**

- Cassette type indoor unit can be controlled with a Wireless remote controller.

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>Battery</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
<th>DC 5V supplied the indoor unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>&lt; Wireless Remote Controller &gt;</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTY-LNHY</td>
<td>1.5 V (R03/LR03/AAA)</td>
<td>170 × 56 × 19</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>UTY-LBHXD</td>
<td>1.5 V (R03/LR03/AAA)</td>
<td>170 × 56 × 19</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>UTY-TRHX</td>
<td>1.5 V (R03/LR03/AAA)</td>
<td>170 × 56 × 19</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td><strong>&lt; IR Reciever Unit &gt;</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTY-LRHYB1</td>
<td>DC 5V</td>
<td>145 × 90 × 30</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>UTY-LBHXD</td>
<td>DC 5V</td>
<td>145 × 90 × 30</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>UTY-TRHX</td>
<td>DC 5V</td>
<td>145 × 90 × 30</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

*Separate wireless remote control (model UTY-LNHY) is required.

*It will replace the parts of the indoor unit to be connected.
Central Remote Controller
UTY-DCGY22

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 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish

Easy Operation

Air conditioning management by detecting room temperatures of each room

This 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.

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.

Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-DCGY22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>100-240 V 50/60 Hz</td>
</tr>
<tr>
<td>Dimensions (H × W × D (mm))</td>
<td>136.6 × 236.2 × 47.8</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>800</td>
</tr>
</tbody>
</table>

NEW

Remote Controller Groups Rename

The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.

NEW

Increased the Number of Accounts

Administrator
(Building owner)

Online users
(Tenant owner)

Maximum 30 accounts

*Room temperature is displayed only when indoor unit operates.

*NEW

50 Remote Controller Groups Display

The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

NEW

50 Remote Controller Groups Rename

The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.

NEW

Occupancy sensor

Compatible

• Auto save
• Auto on / off
• Auto off detection time
• Enable and disable

NEW

Sensor value monitoring function

Monitor sensor data of indoor unit / outdoor unit, send mail

Notify room temperature by email

Notify by e-mail when the temperature around the air conditioner is too high or too low

*This function is available only when using wired remote controller.
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.

**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

**Controls up to 400 indoor units.**

- Group A
- Group B
- Multiple indoor units can be grouped together.

**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.

**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-PTGXA)*
- Energy cost can be calculated and allocated to each billing user in proportion to the amount of energy used for air conditioning.
  - Apportionment charge/bill calculation
  - Tenant (block) setting
  - Common facilities apportionment setting
  - Rated power consumption allotment setting
  - Individual calculations for cooling and heating
  - Electricity meter supported

**Table:**

<table>
<thead>
<tr>
<th>Device</th>
<th>Model name</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smartphone</td>
<td>Nexus 6P (Android 7.1.1)</td>
<td>Google Chrome 5.5</td>
</tr>
<tr>
<td>Tablet</td>
<td>iPad Pro 9.7 inch (iOS 10.2.1)</td>
<td>Safari 10</td>
</tr>
<tr>
<td>Computer</td>
<td>iPhone 7 (iOS 10.1)</td>
<td>Safari 10</td>
</tr>
</tbody>
</table>

*An electricity usage meter can be connected to an external input connector of the Touch panel controller. In that case, the meter cannot be connected to an outdoor unit at the same time.*
**CONTROL SYSTEM – CENTRALIZED CONTROL**

**Features:**

**Automatic setting for daylight saving time**

Functions provided

1) Schedule setting for daylight saving time
   - It prevents the user from forgetting to set daylight saving time. In addition, it saves time and effort for the user.

2) Automatic clock adjustment
   - 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 refrigerant is shut off.

---

**FUNCTIONS SUMMARY**

<table>
<thead>
<tr>
<th>Air conditioning control functions</th>
<th>UTY-DTGYZ1</th>
<th>Monitoring side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timer</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>Schedule timer</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>ON/OFF</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>Heat load</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>Fan speed</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>Energy-saving controls</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>Cool/heating priority</td>
<td>null</td>
<td>null</td>
</tr>
<tr>
<td>Refrigerant leak detector</td>
<td>null</td>
<td>null</td>
</tr>
</tbody>
</table>

---

**Specifications**

- **Model name:** UTY-DTGYZ1
- **Power supply:** Single phase ~100 to 240 V 50/60 Hz
- **Dimensions (H × W × D) (mm):** 260 × 246 × 54
- **Weight (g):** 2,150
- **Interfaces:** Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW

---

**Features:**

- Quick priority setting
- Operating sound
- Changeover
- Indoor air conditioning load factor
- Outdoor unit low noise operation

---

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Custom Auto
- Maintains 2 separate setpoints for heating and cooling operations.
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System controller

UTY-AGXZ1 (Software)

Up to 4 VRF network systems
Up to 400 outdoor units
Up to 1,600 indoor units

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 an additional precision air conditioning control—remote 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

UTY-ALGZ2 (Software)

Up to 1 VRF network system
Up to 100 outdoor units
Up to 400 indoor units

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 precision 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.

Visually intuitive operation

Click & Operate: The visual representation of the property is shown on the screen from the perspective most suitable for operation (Click & Operate). You can select from among 4 display options: site, building, floor, and list.

Freely define groups for batched control: Indoor units can be grouped for simplified batch control from the tree menu. They can be grouped by organizational hierarchy, such as by division, department, and section.

Features:

Third-party devices connected via MODBUS® can be controlled.

- Standard: for System controller
- Optional: for System controller Lite UTY-PLGZ2

When a MODBUS® adapter (locally available) is connected to a computer, electrical equipment and devices supported by MODBUS® can be monitored and controlled centrally from the computer. The central control can reduce wasted energy throughout an entire building resulting from a failure to turn equipment off during or after work, as well as reduce the need for on-site patrols.

Wide-ranging operation and data management

- Standard: for System controller
- System controller Lite

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 six months.
- 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 retrieved.

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

- Standard: on System controller
- System controller Lite

Electricity charge apportionment method

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.

Example of system configuration

- Indoor units: 200
- Outdoor units: 50
- VRF network systems: 3
- Supporting MODBUS® communication
- Supply backed-up function
- Safety emergency outlets
- Building unit ON/OFF
**CONTROL SYSTEM – CENTRALIZED CONTROL**

**Remote monitoring management**

**Standard** on System controller

**Option** System controller Lite UTY-PLGXR2

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.

**Features:**

- Energy-saving management
- Remote central control
- Summarize of functions

**Energy-saving management**

**Option** System controller UTY-PEGXZ1

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.

**Remote central control**

Max. 6 VRF network systems per site

**On site central control**

1 VRF controller can control or monitor up to 10 sites.

**Indoor unit rotation**

Indoor units can be automatically rotated to operate within a group in accordance with a predetermined annual schedule to reduce power consumption while keeping users comfortable. The operation stoppage rate can be selected for an indoor unit.

**Peak-cut mode**

The system controller monitors the connected power meter and controls the energy to maintain the target power consumption set for each time period by changing the set temperature of the indoor units or turning off the thermostat so as to keep the users comfortable. Indoor units to be controlled can be grouped in many ways, and the control level can be set for each group.

**Capacity saving for outdoor unit**

The upper limit on the capacity of an outdoor unit can be adjusted to reduce power consumption during a hot summer or cold winter by averaging out the power-saving performance of each refrigerant system. The upper limit on capacity can be set at 50% of the rated capacity or more.

**Summary of functions**

<table>
<thead>
<tr>
<th>Function</th>
<th>Type</th>
<th>System controller</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>UTY-APGxz1</td>
<td>UTY-APGxz1</td>
<td>UTY-PLGxz1</td>
</tr>
<tr>
<td>Security</td>
<td>UTY-ALGxz1</td>
<td>UTY-ALGxz1</td>
<td>UTY-PLGxz1</td>
</tr>
<tr>
<td>Energy saving</td>
<td>UTY-PLGxz2</td>
<td>UTY-PLGxz2</td>
<td>UTY-PLGxz2</td>
</tr>
<tr>
<td>Remote control</td>
<td>UTY-PEGxz2</td>
<td>UTY-PEGxz2</td>
<td>UTY-PEGxz2</td>
</tr>
<tr>
<td>Central control</td>
<td>UTY-PEGxz2</td>
<td>UTY-PEGxz2</td>
<td>UTY-PEGxz2</td>
</tr>
</tbody>
</table>

**Computer specifications**

The computer specifications required for the computer are shown in the table below:

<table>
<thead>
<tr>
<th>Operating system</th>
<th>System controller</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 10 Home (32-bit or 64-bit), Windows 10 Pro (32-bit or 64-bit)</td>
<td>UTY-APGxz1</td>
<td>UTY-APGxz1</td>
</tr>
<tr>
<td>Windows 8.1 (32-bit or 64-bit), Windows 8.1 Pro (32-bit or 64-bit)</td>
<td>UTY-ALGxz1</td>
<td>UTY-ALGxz1</td>
</tr>
<tr>
<td>Windows 7 Home Premium (32-bit or 64-bit) SP1, Windows 7 Professional (32-bit or 64-bit)</td>
<td>UTY-PLGxz2</td>
<td>UTY-PLGxz2</td>
</tr>
</tbody>
</table>

**Control System** – System controller Lite UTY-PLGxz2

<table>
<thead>
<tr>
<th>System controller</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote access</td>
<td>UTY-PLGxz2</td>
</tr>
<tr>
<td>Remote management</td>
<td>UTY-PLGxz2</td>
</tr>
<tr>
<td>Energy saving</td>
<td>UTY-PLGxz2</td>
</tr>
<tr>
<td>Central control</td>
<td>UTY-PLGxz2</td>
</tr>
</tbody>
</table>

**Packing list**

<table>
<thead>
<tr>
<th>Type</th>
<th>System controller</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>UTY-APGxz1</td>
<td>UTY-APGxz1</td>
</tr>
<tr>
<td>N/A</td>
<td>UTY-ALGxz1</td>
<td>UTY-ALGxz1</td>
</tr>
<tr>
<td>N/A</td>
<td>UTY-PLGxz2</td>
<td>UTY-PLGxz2</td>
</tr>
<tr>
<td>N/A</td>
<td>UTY-PLGxz2</td>
<td>UTY-PLGxz2</td>
</tr>
</tbody>
</table>

* The maximum number of required USB ports depends on the applicable system configuration.
BACnet® gateway

**UTY-ABG021**

- 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® and 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 USB interface. Note that Fujitsu General does not supply a 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.

### Computer requirements

<table>
<thead>
<tr>
<th>Operating system</th>
<th>UTY-ABG021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Windows® 7 Home Premium (32-bit or 64-bit), Windows® 7 Professional (32-bit or 64-bit)</td>
<td>Supports BACnet® Standard 135 (ANSI/ASHRAE-135-2014) application specific controller (B-ASC).</td>
</tr>
<tr>
<td>Microsoft Windows® 8.1 (32-bit or 64-bit), Windows® 8 (32-bit or 64-bit)</td>
<td>Supports BACnet® Standard 135 (ANSI/ASHRAE-135-2014) application specific controller (B-ASC).</td>
</tr>
<tr>
<td>Microsoft Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</td>
<td>Supports BACnet® Standard 135 (ANSI/ASHRAE-135-2014) application specific controller (B-ASC).</td>
</tr>
</tbody>
</table>

### Interfaces

- USB (USB interface string: `FG-TL-MBS16Z1`)
- Ethernet
- RS-485 (B-ASC interface)
- Additional USB ports for configuration and monitoring

### Specifications

- **Model name**: UTY-VBGX
- **Number of controllable indoor units**: 128
- **Number of controllable refrigerant systems**: 32
- **Number of controllable VRF networks**: 1
- **Number of controllable indoor units (per VRF network)**: 128

### Multiple protocol LAN adapter

**FG-TL-MBS16Z1**

- No separate external power supply required
- Can be used for 16 indoor units.

### Installation example

**UTY-ABG021**

- 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® (ANSI/ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet® over Ethernet.
- 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.

### Computer requirements

<table>
<thead>
<tr>
<th>Operating system</th>
<th>UTY-ABG021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</td>
<td>Supports BACnet® Standard 135 (ANSI/ASHRAE-135-2014) application specific controller (B-ASC).</td>
</tr>
<tr>
<td>Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</td>
<td>Supports BACnet® Standard 135 (ANSI/ASHRAE-135-2014) application specific controller (B-ASC).</td>
</tr>
</tbody>
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</tr>
</thead>
<tbody>
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- RS-485 (B-ASC interface)
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### Multiple protocol LAN adapter

**FG-TL-MBS16Z1**

- No separate external power supply required
- Can be used for 16 indoor units.
CONTROL SYSTEM  
& OPTIONAL PARTS

### BACnet®/MODBUS® Router

**FG-RTR-BAC32Z1**/**FG-RTR-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-RTR-BAC32Z1 (MS/TP to IP)</th>
<th>FG-RTR-MBS32Z1 (RTU to TCP)</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</td>
<td>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**

- **BMS/Central Controller**
- **BACnet® Router**
- **MODBUS® Router**
- **Indoor unit**

- **BACnet®/MODBUS® Cloud Device**

**FG-CLD-BMG4Z1/FG-CLD-BMG8Z1/FG-CLD-BMG16Z1/FG-CLD-BMG32Z1**

**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</td>
<td>9 to 24 V DC</td>
<td>9 to 24 V DC</td>
<td>9 to 24 V DC</td>
</tr>
<tr>
<td>Power consumption (W)</td>
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</tr>
<tr>
<td>Weight (g)</td>
<td>150</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
</tbody>
</table>

**Gateway features**

- 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.

**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
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.

**MODBUS® converter for VRF**

**UTY-VMGX/FG-TL-MBS16Z1**

**Specifications**
- **Model name**: UTY-VMGX FG-TL-MBS16Z1
- **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)**: 1.7
- **Dimensions (H × W × D) (mm)**: 54 × 260 × 150
- **Weight (g)**: 1,100

*24 V DC power supply is recommended.

**KNX® converter enables centralized control of a system.**

- KNX® converter connects a central or home controller and a Fujitsu General VRF system.
- Up to 128 indoor units and 100 outdoor units can be connected to a single KNX® converter. (UTY-VKGX)

**KNX® converter for VRF**

**UTY-VKGX/FG-TL-KNX16Z1**

**Specifications**
- **Model name**: UTY-VKGX FG-TL-KNX16Z1
- **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)**: 1.6
- **Dimensions (H × W × D) (mm)**: 54 × 260 × 150
- **Weight (g)**: 1,200

*24 V DC power supply is recommended.

**Installation example**

- **Up to 9 units per VRF system**
- **Up to 100 outdoor units**
- **Up to 128 indoor units**
- **Up to 16 indoor units**
- **Up to 16 outdoor units**

- **UTY-VMGX UTY-VKGX**
- **FG-TL-MBS16Z1 FG-TL-KNX16Z1**
- **MODBUS® converter** for VRF
- **VRF System**
- **BMS/Central Controller**
- **MODBUS® Network**
- **VRF Indoor unit**
- **VRF Outdoor unit**
- **Lighting facilities**
- **Security system**
- **Automatic fire alarm interface**
- **Window blinds**

* BMS: Building Management System

For more detailed information and specifications, please refer to the original document or manual.
**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

![Signal amplifier diagram]

#### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VSGXZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Single phase, 208~240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>4.5</td>
</tr>
<tr>
<td>Dimensions (H × W × D (mm))</td>
<td>67 × 288 × 211</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,500</td>
</tr>
</tbody>
</table>

---

**Network converter** for **LONWORKS™**

UTY-VLGX

- Connects the VRF network system to a LonWorks™ open network to manage small and midsize BMS and VRF network systems.
- 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

![Network converter diagram]

#### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-VLGX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Single phase, 208~240 V, 50/60 Hz</td>
</tr>
<tr>
<td>Power consumption (W)</td>
<td>4.5</td>
</tr>
<tr>
<td>Dimensions (H × W × D (mm))</td>
<td>67 × 288 × 211</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>1,500</td>
</tr>
</tbody>
</table>

#### Transmission specifications (BMS side)

- **Transmission speed**: 78 kbps
- **Transceiver**: FT-X1 (available from Echelon® Corporation)
- **Transmission line form**: Free topology
- **Terminal resistor**: None (converter to be attached at the terminal of a network)
## Controller system list (available) for Split/Multi-split

### Controller Options/Accessories:

<table>
<thead>
<tr>
<th>Type</th>
<th>Refrigerant</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Wired remote controller</th>
<th>Wireless remote controller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Indoor unit</td>
<td>Outdoor unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wall-mounted</td>
<td>Duct</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>Ceiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Multi-split</td>
<td>Single phase</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Flagship</td>
<td>Designer</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Series</td>
<td>Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard</td>
<td>ECO Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compact</td>
<td>4-way flow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Circular flow</td>
<td>Slim Series</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medium static</td>
<td>pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Compact)</td>
<td>Medium static</td>
<td>pressure</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>High static</td>
<td>BIG</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Controller Options/Accessories:

- For Duct type
- For Cassette type
- For Ceiling type

### Controllers

- **Wired remote controller**
  - UTY-RNRYZ5+
  - UTY-TWRXZ2
- **UTY-RNRYZ5**
- **UTY-RNRYZ5**
- **UTY-RNRYZ5+**
- **UTY-TWRXZ3**
- **UTY-RLRY**
- **UTY-RLRY**
- **UTY-RLRY**
- **UTY-RLRY+**
- **UTY-RVNYM**
- **UTY-RVNYM**
- **UTY-RVNYM**
- **UTY-RNNYM**
- **UTY-RNNYM**
- **UTY-RNNYM**
- **UTY-RNNYM**

- **Simple remote controller**
  - UTY-RSRY
  - UTY-RSNYM
  - UTY-RSRY
  - UTY-RSNYM
  - UTY-RSNYM

- **Central remote controller**
  - UTY-DMMYM1* 3 (KBTA5)
  - UTY-DMMYM3* 3 (LBLA6, LBT8)

- **Wireless remote controller**
  - UTY-LNMY

### IR receiver unit

- **For Duct type**
  - UTY-LRHYM
- **For Cassette type**
  - UTY-LBTYC
  - UTY-LBTYM

### Notes

1. Available only when the WCRS adapter (WY-T6X32) is removed.
2. Available only when the WCRS adapter (WY-T6X32) is removed.
3. Consult your dealer for conditions of use.

*There are no optional parts for the KL Series.*
<table>
<thead>
<tr>
<th>Type</th>
<th>Background</th>
<th>Operating voltage</th>
<th>Current capacity</th>
<th>Current capacity</th>
<th>High current capacity</th>
<th>R/L</th>
<th>Flaps</th>
<th>LED</th>
<th>Optional parts</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>--</td>
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<td>--</td>
</tr>
</tbody>
</table>

* There are no optional parts for the EL Series.

1: Available only when the BLAd adapter (01T-07X02) is removed. 2: Available only when the BLAd adapter (01T-07X02) is removed.
# Controller System List (available) for VRF

**Controller Options:**

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Type</th>
<th>Refrigerant</th>
<th>Flow Direction</th>
<th>Fan Type</th>
<th>Outdoor unit</th>
<th>Control System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit</td>
<td>Indoor unit</td>
<td>Cassette</td>
<td>Duct</td>
<td>One-way flow</td>
<td>Compact</td>
<td>Indoor unit</td>
<td>UTY-APGXZ1, UTY-APGXZ1</td>
</tr>
<tr>
<td>Indoor unit</td>
<td>Indoor unit</td>
<td>Grid type</td>
<td>Standard type</td>
<td>Circular flow</td>
<td>Normal</td>
<td>Indoor unit</td>
<td>UTY-APGXZ1, UTY-APGXZ1</td>
</tr>
<tr>
<td>Indoor unit</td>
<td>Indoor unit</td>
<td>Slim type</td>
<td>Large type</td>
<td>Circular flow</td>
<td>Normal</td>
<td>Indoor unit</td>
<td>UTY-APGXZ1, UTY-APGXZ1</td>
</tr>
<tr>
<td>Indoor unit</td>
<td>Indoor unit</td>
<td>Low static pressure duct</td>
<td>Medium static pressure</td>
<td>Circular flow</td>
<td>Normal</td>
<td>Indoor unit</td>
<td>UTY-APGXZ1, UTY-APGXZ1</td>
</tr>
<tr>
<td>Indoor unit</td>
<td>Indoor unit</td>
<td>High static pressure</td>
<td>External EEV</td>
<td>Circular flow</td>
<td><em>normal</em></td>
<td>Indoor unit</td>
<td>UTY-APGXZ1, UTY-APGXZ1</td>
</tr>
</tbody>
</table>

**Controllers:**

- Wired remote controller:
  - UTY-RNRYZ5
  - UTY-RLRY
  - UTY-RCRYZ1

- Simple remote controller:
  - UTY-RSRY
  - UTY-RHRY
  - UTY-RSKY
  - UTY-RHRY

- Wireless remote controller:
  - UTY-LNHY

- IR receiver unit:
  - UTY-TRHX
  - UTY-LBHXD

- Central remote controller:
  - UTY-DCGYZ2

- Touch panel controller:
  - UTY-DTGYZ1

- System controller, System controller Lite:
  - UTY-APGXZ1, UTY-ALGXZ1
## Controller System List (available) for VRF

### Controller Options:

<table>
<thead>
<tr>
<th>Background</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Power</th>
<th>Room type</th>
<th>System type</th>
<th>Panel type</th>
<th>Controller system</th>
<th>Controller system</th>
<th>Power</th>
<th>System name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### Notes:
- **Controller System**: KNX® interface converter for BACnet®
- **Panel Type**: 3-wire RC-line type CN connector
- **System Name**: FG-IR-WMP1Z1, FG-IR-KNX1Z1, FG-IR-WIF1Z1, FG-AC-WMP1Z1, FG-AC-BAC1Z1, FG-AC-WIF1Z1, UTB-YWC, GTEH, GCEH, ABYA, ARXD, C-053, C-052
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

Occupancy sensor kit
A built-in thermo sensor monitors and controls room temperature accurately.

Cassette grille
A lineup of cassette grills 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
For Compact cassette type/Cassette type
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.

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 Floor

Half concealed kit
Used to half conceal a floor type indoor unit in the wall.

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

Optional Parts
For V-IV

Pressure sensor kit
The height difference of the pressure sensor kit can be extended up to 110 m.

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 grit and dust. Long-life design with consideration of running costs.

Flange
Flanges are used when connecting a medium static pressure duct type and a ceiling type with air intake and exhaust ducts.

Drain pump unit
Drains water that has accumulated during operation.

Connection Parts

External connect kit & set
Connect the printed circuit board (PCB) to external devices.

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 input and output PCB
For Wall-mounted, Duct, or Cassette type, these parts are required when the external input and output function is used.

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 microorganism, but does not prevent infection.
**Silver Ion Filter**


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 and molds trapped on the filter. (Only effective when the microorganism is trapped on the filter with dust or droplet)

**Specifications**

<table>
<thead>
<tr>
<th>Net Dimension (H × W × D) mm</th>
<th>290 × 70 × 6</th>
<th>620 × 88 × 6</th>
<th>500 × 79 × 6</th>
<th>620 × 88 × 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight g</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>Quantity</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

---

**Auto louver grille kit**

**UTD-GXTA-W/UTD-GXTB-W/UTD-GXTC-W**

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

**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
  - Auto air direction and auto swing
  - 4 steps selectable
- Auto-closing louver
  - The louvers will automatically close when the indoor unit stops operating.

**Dimensions**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTD-GXTA-W</th>
<th>UTD-GXTB-W</th>
<th>UTD-GXTC-W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit: mm</td>
<td>W1 W2 H1 H2 D1 D2</td>
<td>W1 W2 H1 H2 D1 D2</td>
<td>W1 W2 H1 H2 D1 D2</td>
</tr>
<tr>
<td>UTD-GXTA-W</td>
<td>683 645 1 0 8 4</td>
<td>883 845 1 0 8 4</td>
<td>1,083 1,045 1 0 8 4</td>
</tr>
<tr>
<td>UTD-GXTB-W</td>
<td>845 805 1 0 8 4</td>
<td>1,045 1,005 1 0 8 4</td>
<td></td>
</tr>
<tr>
<td>UTD-GXTC-W</td>
<td>1,045 1,005 1 0 8 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTD-GXTA-W</th>
<th>UTD-GXTB-W</th>
<th>UTD-GXTC-W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable indoor unit</td>
<td>ARYG07/09LLTA / ARXD024GLEH</td>
<td>ARYG07/09/12/14LSLAP / ARXG12/14KLLAP</td>
<td>ARYG18LSLAP / ARXD024GLEH / ARXK024GLEH</td>
</tr>
<tr>
<td>Power supply</td>
<td>Connecting with Control box of indoor unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Width 180 / 240 / 300 mm × Height 200 to 300 mm × Depth 64 to 80 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>2.0 (W1) / 3.0 (W2) / 4.0 (D1) / 5.5 (D2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Louver type</td>
<td>Slim Louver, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating range</td>
<td>13°C to 32°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Silver ion filter installation and removal**

1. Silver ion filter is attached onto the microorganism by hand wiper.
2. The silver ions react with metabolic enzymes of the microorganism.
3. The silver ions inhibit the growth of the microorganism.

---

**Silver ion filter for mold inhibition**

- Ag+ Silver ions are absorbed into the cloth gap.
- The silver ions inhibit the activity of enzymes and consequently inhibit the growth of the microorganism.

---

**Auto louver grille kit installation**

- Duct type: 180° swing
- Wire remote controller

---

**Appendix**


*3 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.)

*4 Hand-washing or autowashing by 3 months is recommended. Cleaning frequency varies depending on the environment of use.
**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.

(Only connected to the V-IV Series. Also, it can only be connected to outdoor units using outdoor unit software compatible with the product.)

**System overview**

**Pressure sensor kit**

<table>
<thead>
<tr>
<th>Pressure sensor kit (Exterior)</th>
<th>Refrigerant pressure sensor</th>
<th>Joint pipe</th>
</tr>
</thead>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power supply</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-SPWX</td>
<td>9 to 16 V DC</td>
<td>(H × W × D)</td>
<td>200</td>
</tr>
</tbody>
</table>

**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 UTY-GXXC has 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>Model name</th>
<th>UTZ-GXXA</th>
<th>UTZ-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>97 × 200 × 178</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>800</td>
<td>800</td>
</tr>
</tbody>
</table>

**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
- Air supply adapter

**Cross-section view**

- Draws in air from the room slowly and mixes it with the conditioned supply
- Air to create a comfortable airflow
- Built-in aluminum heat dissipating fins and rectification panels help to disperse and rectify airflow

**Airflow rate (m³/hr)**

<table>
<thead>
<tr>
<th>AIR BEAM For system ceiling (Integrated type)</th>
<th>95~180</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross-section view</td>
<td>65~270</td>
</tr>
</tbody>
</table>

**Note**

- 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.

- A powered-off indoor unit driven by the External power supply unit 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.
### Optional parts list for Split/Multi-split

<table>
<thead>
<tr>
<th>Type</th>
<th>Air conditioner model</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>High static pressure</th>
<th>Ceiling</th>
<th>Wall-mounted</th>
<th>Compact cassette</th>
<th>Multi duct</th>
<th>Standard</th>
<th>Big</th>
<th>Multi split</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy sensor kit</td>
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<td></td>
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<tr>
<td>Remote sensor unit</td>
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<tr>
<td>Cassette grille</td>
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<tr>
<td>Auto louver grille kit</td>
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<td>Long life filter</td>
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<tr>
<td>Drain piping unit</td>
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<tr>
<td>Whole Panel</td>
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<td>Panel spacer</td>
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<tr>
<td>Fresh air intake kit</td>
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<tr>
<td>Air outlet shutter kit</td>
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<tr>
<td>Insulation kit for low humidity</td>
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<td>Half concealed kit</td>
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<td>L-type piping kit</td>
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</tbody>
</table>
## Optional parts list for VRF

<table>
<thead>
<tr>
<th>Type</th>
<th>Indoor and Unit</th>
<th>Remote sensor unit</th>
<th>Cassette type</th>
<th>Long-life filter</th>
<th>Drain Pump Unit</th>
<th>Wide Panel Indoor unit</th>
<th>Panel spacer</th>
<th>Fresh Air Intake Kit</th>
<th>Air outlet shutter plate</th>
<th>Insulation Kit for high humidity</th>
<th>Half-concealed Kit</th>
<th>External Power Supply Unit</th>
<th>Pressure sensor Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Occupancy sensor Kit</td>
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<td>Remote sensor unit</td>
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<tr>
<td>Long-side flaps</td>
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<tr>
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<td>Mode Panel</td>
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<tr>
<td>Fresh Air intake Kit</td>
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<tr>
<td>Half-concealed Kit</td>
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<tr>
<td>External Power Supply Unit</td>
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<tr>
<td>Pressure sensor kit</td>
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</tbody>
</table>
### Optional parts

1. Included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA)
2. Functionality for installation in a server room

### External input and output function/External connect kit/communication kit

<table>
<thead>
<tr>
<th>Type</th>
<th>Wall-mounted</th>
<th>Outdoor unit</th>
<th>Communication kit</th>
<th>External connect kit</th>
<th>Multi-split</th>
<th>Optional unit</th>
<th>Communication system</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

#### Functionality
- Operation status
- Thermostat off
- For indoor unit
- For outdoor unit

#### Communication system

<table>
<thead>
<tr>
<th>External control set</th>
<th>External connect kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UTY-XWZX2</td>
</tr>
<tr>
<td></td>
<td>UTY-XWZX2Z5</td>
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<td></td>
<td>UTY-XWZX2G</td>
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</tbody>
</table>

#### Updating and operational control

<table>
<thead>
<tr>
<th>Type</th>
<th>Wall-mounted</th>
<th>Outdoor unit</th>
<th>Communication kit</th>
<th>External connect kit</th>
<th>Multi-split</th>
<th>Optional unit</th>
<th>Communication system</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

#### Refrigerant

<table>
<thead>
<tr>
<th>Type</th>
<th>Wall-mounted</th>
<th>Outdoor unit</th>
<th>Communication kit</th>
<th>External connect kit</th>
<th>Multi-split</th>
<th>Optional unit</th>
<th>Communication system</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

<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-XWZX2</td>
<td>UTY-XWZX2G</td>
<td>UTY-GXNX</td>
<td>UTY-GXNIA</td>
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<tr>
<td>UTY-XWZX2Z5</td>
<td>UTY-XWZX2GZ5</td>
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<td>UTY-XWZX2GG</td>
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</table>
## Function list for VRF

### Communication system

<table>
<thead>
<tr>
<th>External connect kit</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>RB unit</th>
<th>Central remote controller</th>
<th>Touch panel controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ6</td>
<td>UTY-XWZXZ6</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ2A</td>
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<tr>
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<td>UTY-XWZXZ6</td>
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<td>UTY-XWZXZ6</td>
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<td>UTY-XWZXZ7</td>
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</table>

### External input and output function/External connect kit

<table>
<thead>
<tr>
<th>Type</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>RB unit</th>
<th>Central remote controller</th>
<th>Touch panel controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 1</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ2A</td>
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<tr>
<td>Type 2</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ2A</td>
</tr>
</tbody>
</table>

*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.

---

**Optional parts**

- Communication system
- External connect kit
- For indoor unit
- For outdoor unit
- For RB unit
- Central remote controller
- For Touch panel controller

### Communication system

- Communication system
- External connect kit
- For indoor unit
- For outdoor unit
- For RB unit
- Central remote controller
- For Touch panel controller

---

**Optional parts**

- Communication system
- External connect kit
- For indoor unit
- For outdoor unit
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**Optional parts**

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**Optional parts**

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**Optional parts**

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- Communication system
- External connect kit
- For indoor unit
- For outdoor unit
- For RB unit
- Central remote controller
- For Touch panel controller

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**Optional parts**

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- External connect kit
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Optional parts

Separation tube

For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

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<th>Separation tube</th>
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<tbody>
<tr>
<td>UTP-SX236A</td>
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<td>For 3-phase simultaneous multi-split</td>
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<td>For Simultaneous multi-split Twin/ Triple/Double Twin</td>
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<th>Branch box</th>
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For VRF

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<tr>
<td>UTR-H0906L/UTR-H1806L</td>
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<th>Outdoor unit branch kit</th>
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<td>UTP-EX060A</td>
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| Model name |
| UTP-BX090A |
| Section |
| Gas pipe |
| Liquid pipe |

| Model name |
| UTP-BX160A |
| Section |
| Gas pipe |
| Liquid pipe |

| Model name |
| UTP-LX180A |
| For DR kit |

| Model name |
| UTP-J0906A | UTP-J1808A |
| 3-6 Branches |
| 3-8 Branches |

| Model name |
| UTP-KX180A |
| 4-8 Branches |
| 8-16 Branches |

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<tr>
<th>EV kit</th>
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<tr>
<td>Model name</td>
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<td>UTR-EX008A</td>
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<td>Maximum Connectable Indoor Units per Branch</td>
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<tr>
<th>Maximum Connectable Indoor Units per Branch</th>
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<td>3</td>
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<td>8</td>
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<td>12</td>
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</table>

*1: When two RB units are connected in series (8 branches in total), the maximum capacity of the connectable indoor units is up to 56.0 kW.
Residential

AIR TO WATER

W-002  WATERSTAGE™ Overview
W-004  WATERSTAGE™ 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-030  System Configuration
W-032  Simple Installation
W-034  Installation Requirements
W-036  AIR TO WATER Optional Parts

AIR TO WATER
Residential
WATERSTAGE™ Overview

Solutions that meet a variety of needs
Water heated by WATERSTAGE™ using clean energy is delivered reliably and comfortably throughout the house, including the living room, bedrooms, bathrooms—even a swimming pool.

24 Models
Fujitsu General WATERSTAGE™ heat pumps offer a variety of high-efficiency renewable central heating systems that absorb energy primarily from the air.

Optimized refrigerant cycle operation
Super High Power and High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.

Primary energy usage reduced substantially
Proportion of primary energy converted into heating energy is 100%

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 Consumption*

<table>
<thead>
<tr>
<th>Energy</th>
<th>Heating</th>
<th>Waterstages</th>
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<tbody>
<tr>
<td>1 kWh</td>
<td>40%</td>
<td>3 to 5 kWh</td>
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<tr>
<td>2 x 4 kWh Ambient air</td>
<td>59%</td>
<td>79%</td>
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</tbody>
</table>

* The amount of electricity loss varies according to the power plant. Typical energy efficiency of a power plant: 36%
### WATERSTAGE™ Lineup

<table>
<thead>
<tr>
<th>Type</th>
<th>10 kW</th>
<th>15/17 kW</th>
<th>17 kW</th>
<th>11/14 kW</th>
<th>11/14/16 kW</th>
<th>5/6 kW</th>
<th>8 kW</th>
<th>10 kW</th>
<th>16 kW</th>
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<th>11/14/16 kW</th>
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**Benefits**

**Less CO₂ Emissions**

WATERSTAGE™ 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
  - Fuel boiler
  - Gas condensing boiler

**Low Running Cost**

High-efficiency heat pump technology keeps the running cost of a WATERSTAGE™ system.

- **Average annual running cost**
  - Direct electric heating
  - Fuel boiler
  - Gas condensing boiler

**Clean and Healthy**

As a WATERSTAGE™ 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.

- **Well-designed Hydraulic unit**
  - The sophisticated arrangement of Hydraulic units makes piping and maintenance work easy.

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**Energy Efficiency Standards**

**Product labels**

### Space heaters

- **Efficiency class in low temperature operation**
- **Efficiency class in medium temperature operation**
- **Outdoor and indoor applicable sound power level**
- **Year label issued**

### Combination heaters

- **Efficiency class with a comparison scale from A++ (most efficient) to D (least efficient)**
- **Symbol for hot water heating**

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**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 was raised on September 26, 2017, and the maximum sound levels were lowered on September 26, 2018.

**The Energy Labelling Directive (EU) No. 811/213**

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.

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**Fujitsu General’s WATERSTAGE™**

WATERSTAGE™ has acquired the Energy Efficiency Label through testing in accordance with the International Standards EN14511 and EN14515. The EFFICIENCY Label is a label that shows the end-consumer a quality heat pump unit.

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**EHPA Quality Label**

- **SG ready Label**
- **THE CEN Heat Pump KEYMARK**

---

**EHPA Quality Label**

Fujitsu General’s WATERSTAGE™ has acquired the EHPA Quality Label through testing in accordance with the International Standards EN14511 and EN14515. The EHPA Quality Label is a label that shows the end-consumer a quality heat pump unit on the market.

**SG ready Label**

SG ready is a label issued to heat pumps and their control technologies that meet the requirements set by BWP* and technologies that conform to the standards circle into a smart grid. SG ready labelled heat pumps transfer signals from the power grid and PV systems with regard to energy and renewable energy sources such as wind, solar, and water. All of Fujitsu General’s new heat pump series are SG ready compatible.

**THE CEN Heat Pump KEYMARK**

The Heat Pump KEYMARK is a full certificate supporting the quality of heat pumps in the European market. The Heat Pump KEYMARK is a voluntary, independent, European certification mark (SG Type Certification) for all heat pumps, combination heat pumps, and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). Fujitsu General’s WATERSTAGE™ has acquired the KEYMARK certificate.

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*-calculated based on energy efficiency data provided by the European Programme for Energy Efficiency in Buildings (EU-EPB) for fuel boilers, 93% for gas boiler.

*The running cost may vary depending on a system's installation, geographical location, and operating conditions.

*3: Learn more about the validity of the mark at www.ehpa.org/quality/quality-label/

*2: 3-phase High Power Series only

*1: Energy efficiency is expressed in terms of seasonal space heating efficiencies (η). The value is based upon the Seasonal Coefficient of Performance (SCOP).

*4: BWP: Bundesverband Wärmepumpe e. V (Federal German Heat Pump Association)

*5: R32 refrigerant comfort model only

*6: Learn more about the validity of the mark at www.heatpumpkeymark.com/about/
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.

+ Boiler
By combining with an existing boiler, powerful heating can be achieved even at low outdoor temperature.

* Please refer to page W-036, W-037 for more optional parts information.

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

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.

Adopting R32 refrigerant
R32 refrigerant is an environmentally friendly refrigerant with a significantly lower Global Warming Potential (GWP) than conventional refrigerants.

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.

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1. Please refer to page W-036, W-037 for more optional parts information.

Smart control
To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.
High-Efficiency Technology

For Outdoor unit

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.

High-durability coaxial heat exchanger

For Hydraulic unit

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 WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency class

A+++ 175% COP 4.43
A+++ 177% COP 4.43
A+++ 178% COP 4.50

Seasonal space heating energy efficiency ($\eta_S$)

Temperature application: Heating temp. 35°C

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Capacity Range kW</th>
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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.

Specifications

Hydraulic unit: WSYA050ML3/WSYA080ML3
Outdoor unit: WSYA060KL/L/WSYA080KL/L/ WSYA100KL/T

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<td>-7°C/35°C</td>
<td>-7°C/35°C</td>
<td>-7°C/35°C</td>
<td>-7°C/35°C</td>
</tr>
<tr>
<td>Buffer tank capacity L</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Water circulation Min./Max. L/min</td>
<td>7.6/22.0</td>
<td>8.5/22.0</td>
<td>10.0/22.0</td>
<td>13.2/30.0</td>
</tr>
<tr>
<td>Dimensions H × W × D mm</td>
<td>847 × 450 × 493</td>
<td>847 × 450 × 493</td>
<td>847 × 450 × 493</td>
<td>847 × 450 × 493</td>
</tr>
<tr>
<td>Outdoor unit 5/6 kW class</td>
<td>WOYA060KLT</td>
<td>WOYA080KLT</td>
<td>WOYA100KL/T</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions

Outdoor unit: WSYA060KL/L

* Outdoor unit 5/6 kW class

*Pitch of bolts for installation

*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/

*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

Weight (Net) kg

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Weight (Net) kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOYA060KLT</td>
<td>47</td>
</tr>
<tr>
<td>WOYA080KLT</td>
<td>47</td>
</tr>
<tr>
<td>WOYA100KLT</td>
<td>47</td>
</tr>
</tbody>
</table>

Gas Capacity Range kW

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Capacity Range kW</th>
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<tbody>
<tr>
<td>WOYA060KLT</td>
<td>3.0</td>
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<tr>
<td>WOYA080KLT</td>
<td>3.0</td>
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<tr>
<td>WOYA100KLT</td>
<td>3.0</td>
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Outdoor unit specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>WOYA060KLT</th>
<th>WOYA080KLT</th>
<th>WOYA100KLT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating capacity kW</td>
<td>4.40</td>
<td>5.00</td>
<td>5.70</td>
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<tr>
<td>Input power kW</td>
<td>0.949</td>
<td>1.18</td>
<td>1.69</td>
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<tr>
<td>COP</td>
<td>3.39</td>
<td>3.22</td>
<td>3.21</td>
</tr>
<tr>
<td>Temperature application °C</td>
<td>-20 to 35°C</td>
<td>-20 to 35°C</td>
<td>-20 to 35°C</td>
</tr>
<tr>
<td>Buffer tank capacity L</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Water circulation Min./Max. L/min</td>
<td>7.6/22.0</td>
<td>8.5/22.0</td>
<td>10.0/22.0</td>
</tr>
<tr>
<td>Dimensions H × W × D mm</td>
<td>847 × 450 × 493</td>
<td>847 × 450 × 493</td>
<td>847 × 450 × 493</td>
</tr>
<tr>
<td>Outdoor unit 5/6 kW class</td>
<td>WOYA060KLT</td>
<td>WOYA080KLT</td>
<td>WOYA100KLT</td>
</tr>
</tbody>
</table>

Energy efficiency class

A++ A+++ A++ A+++ A++ A+++ A++ A+++
### Specifications

<table>
<thead>
<tr>
<th>Outdoor unit</th>
<th>Hydraulic unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>WOYG160LJL</td>
<td>WSYG160DJ6</td>
</tr>
<tr>
<td>WOYK150LJL/WOYK170LJL</td>
<td>WSYK170DJ9</td>
</tr>
</tbody>
</table>

#### Model Name
- Hydraulic unit: WSYG160DJ6, WSYK170DJ9
- Outdoor unit: WOYG160LJL, WOYK150LJL/WOYK170LJL

#### Capacity Range
- 7°C/35°C Floor Heating *
  - Heating Capacity kW: 16.00, 15.00, 17.00
  - Input Power: 3.86, 3.46, 4.10
  - COP: 4.15, 4.33, 4.15
- 2°C/35°C Floor Heating *
  - Heating Capacity kW: 13.30, 13.20, 13.50
  - Input Power: 4.25, 4.06, 4.27
  - COP: 3.13, 3.25, 3.16
- -7°C/35°C Floor Heating *
  - Heating Capacity kW: 14.50, 13.20, 15.00
  - Input Power: 5.27, 4.55, 5.32
  - COP: 2.75, 2.90, 2.82

#### Space Heating Characteristics
- Temperature Application: 55°C, 35°C, 55°C, 35°C, 55°C, 35°C
- Rated Heat Output (P rated) kW: 14, 16, 16, 17, 17, 18
- Seasonal Space Heating Energy Efficiency (\(\eta_S\)) %: 125, 163, 130, 164, 130, 161
- Annual Energy Consumption kWh: 8,757, 8,014, 9,915, 8,606, 10,232, 9,059
- Sound Power Level Hydraulic unit dB(A): 45, 45, 45, 45, 45, 45
  - Outdoor unit: 67, 66, 67, 66, 67, 68

#### Hydraulic unit Specifications
- Power Source: Single phase, ~230 V, 50 Hz, 3-phase, ~400 V, 50 Hz
- Dimensions: H × W × D mm: 805 × 450 × 471
- Weight (Net): kg: 52.5
- Water Circulation Min./Max. L/min: 26.4/57.8
- Buffer Tank Capacity L: 22
- Expansion Vessel Capacity L: 10
- 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.
- Operating range extended to -25°C
- Operating range improved down to -25°C outdoor temperature

#### Outdoor unit Specifications
- Power Source: Single phase, ~230 V, 50 Hz, 3-phase, ~400 V, 50 Hz
- Current Max. A: 28.0, 14.0, 14.0
- Dimensions: H × W × D mm: 1,428 × 1,080 × 480
- Weight (Net): kg: 137
- Refrigerant Type (Global Warming Potential): R410A (2,088)
- Charge kg: 3.80
- Additional refrigerant charge g/m: 50
- Connection pipe: Diameter Liquid mm: Ø9.52, Ø9.52, Ø9.52
  - Gas: Ø15.88, Ø15.88, Ø15.88
  - Length Min./Max. m: 5/30, 5/30, 5/30
  - Length (Pre-charge) m: 15
- Height Difference Max. m: 25/15 (Outdoor unit: Upper/Lower)
- Operating range: Heating °C: -25 to 35

---

* Energy efficiency class
  - A++

---

### 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 WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.

- **COP**: Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.
### Specifications

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Hydraulic unit</th>
<th>Outdoor unit</th>
<th>3-phase</th>
<th>3-phase</th>
<th>3-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity range</td>
<td>Heating capacity kW</td>
<td>Heating capacity kW</td>
<td>Heating capacity kW</td>
<td>Heating capacity kW</td>
<td>Heating capacity kW</td>
</tr>
<tr>
<td>7°C/35°C floor heating</td>
<td>10.80</td>
<td>13.50</td>
<td>10.80</td>
<td>13.50</td>
<td>15.17</td>
</tr>
<tr>
<td>2°C/35°C floor heating</td>
<td>10.77</td>
<td>12.00</td>
<td>10.77</td>
<td>13.00</td>
<td>13.50</td>
</tr>
<tr>
<td>-7°C/35°C floor heating</td>
<td>10.38</td>
<td>11.54</td>
<td>10.38</td>
<td>12.20</td>
<td>13.50</td>
</tr>
</tbody>
</table>

#### Energy Efficiency Class
- **A++**: High COP
- **A+**: High COP

#### Seasonal space heating energy efficiency \(\eta_S\)

<table>
<thead>
<tr>
<th>Conditions: Outdoor Temp.</th>
<th>Heating Temp.</th>
<th>35°C</th>
<th>35°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single phase 11 kW class</td>
<td>4.25</td>
<td>151%</td>
<td>4.30</td>
</tr>
<tr>
<td>3-phase 13 kW class</td>
<td>4.30</td>
<td>154%</td>
<td>4.25</td>
</tr>
</tbody>
</table>

#### High COP

Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.

### Dimensions

#### Outdoor unit
- Single phase: WOYG112LHT/WSYG140DG6

#### Hydraulic unit

### 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 WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.
**Specifications**

**AIR TO WATER**

- Work more efficiently and consume less energy than conventional heating systems.

- **High COP** -10°C outdoor 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.

**Outdoor unit technology**

- 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.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Comfort Series 5 kW class</th>
<th>Comfort Series 8 kW class</th>
<th>Comfort Series 10 kW class</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hydraulic unit specifications</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model Name</td>
<td>WGYA050ML3</td>
<td>WGYA080ML3</td>
<td>WGYA100ML3</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>WOYA060KLT</td>
<td>WOYA080KLT</td>
<td>WOYA100KLT</td>
</tr>
<tr>
<td><strong>Connection pipe</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Diameter Liquid</td>
<td>6.35</td>
<td>6.35</td>
<td>9.52</td>
</tr>
<tr>
<td>Diameter Gas</td>
<td>12.70</td>
<td>12.70</td>
<td>15.88</td>
</tr>
<tr>
<td>Diameter Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow/Return</td>
<td>Ø19.05</td>
<td>Ø19.05</td>
<td>Ø19.05</td>
</tr>
<tr>
<td><strong>Water pipe connection diameter</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow/Return</td>
<td>Ø25.4/Ø25.4</td>
<td>Ø25.4/Ø25.4</td>
<td>Ø25.4/Ø25.4</td>
</tr>
<tr>
<td><strong>Water flow temperature range</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max.</td>
<td>55°C</td>
<td>55°C</td>
<td>55°C</td>
</tr>
<tr>
<td><strong>Rated heat output (P rated)</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td>4.50</td>
<td>5.30</td>
<td>6.30</td>
</tr>
<tr>
<td><strong>Heating capacity kW</strong></td>
<td>4.40</td>
<td>5.00</td>
<td>5.70</td>
</tr>
<tr>
<td><strong>Power source</strong></td>
<td>Single phase, ~230 V, 50 Hz</td>
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<td></td>
</tr>
<tr>
<td><strong>Current Max. A</strong></td>
<td>13.0</td>
<td>13.0</td>
<td>18.0</td>
</tr>
<tr>
<td><strong>Voltage (Max.)</strong></td>
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<td></td>
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<tr>
<td>kV</td>
<td>363</td>
<td>363</td>
<td>330</td>
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<tr>
<td><strong>Weight (Net) kg</strong></td>
<td>39</td>
<td>39</td>
<td>42</td>
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<tr>
<td><strong>Height difference Max. m</strong></td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td><strong>Length Min./Max. m</strong></td>
<td>3/30</td>
<td>3/30</td>
<td>3/30</td>
</tr>
<tr>
<td><strong>Diameter Liquid mm</strong></td>
<td>6.35</td>
<td>6.35</td>
<td>9.52</td>
</tr>
<tr>
<td><strong>Gas 12.70</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Charge kg</strong></td>
<td>0.97</td>
<td>0.97</td>
<td>1.02</td>
</tr>
<tr>
<td><strong>Annual energy consumption kWh</strong></td>
<td>3,035</td>
<td>2,322</td>
<td>3,411</td>
</tr>
<tr>
<td>**Load profile **</td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Capacity range</strong></td>
<td>2°C/35°C</td>
<td>2°C/35°C</td>
<td>2°C/35°C</td>
</tr>
<tr>
<td><strong>Temperature application °C</strong></td>
<td>-7°C/35°C</td>
<td>-7°C/35°C</td>
<td>-7°C/35°C</td>
</tr>
<tr>
<td><strong>Waterpipe connection diameter</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diameter Water</td>
<td>Ø19.05</td>
<td>Ø19.05</td>
<td>Ø19.05</td>
</tr>
<tr>
<td><strong>DHW capacity L</strong></td>
<td>190</td>
<td>190</td>
<td>190</td>
</tr>
<tr>
<td><strong>Water circulation Min./Max. L/min</strong></td>
<td>7.6/22.0</td>
<td>8.5/22.0</td>
<td>10.0/22.0</td>
</tr>
<tr>
<td><strong>Temperature control</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Annual electricity consumption kWh</strong></td>
<td>793</td>
<td>793</td>
<td>793</td>
</tr>
<tr>
<td><strong>Ventilation air flow L/min</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pitch of bolts for installation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulic unit WGYA050ML3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulic unit WGYA080ML3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hydraulic unit WGYA100ML3</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Outdoor unit technology**

- **Split DHW Integrated Type**

- **Comfort Series**

- **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 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, even when the outdoor temperature drops to -25°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 WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.

Operating range extended to -25°C
Operating range improved down to -25°C outdoor temperature

Seasonal space heating energy efficiency (Ƞ)
Conditions: Outdoor Temp. 7°C, Heating Temp. 35°C

<table>
<thead>
<tr>
<th>Model Series</th>
<th>Single phase</th>
<th>3-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heating capacity kW</td>
<td>14.50</td>
<td>16.00</td>
</tr>
<tr>
<td>Heating capacity kW</td>
<td>13.20</td>
<td>16.00</td>
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</tbody>
</table>

Energy efficiency class
A++

Specifications
<table>
<thead>
<tr>
<th>Outdoor unit</th>
<th>Single phase</th>
<th>3-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit</td>
<td>Single phase</td>
<td>3-phase</td>
</tr>
<tr>
<td>Heat pump capacity kW</td>
<td>16.00</td>
<td>19.00</td>
</tr>
<tr>
<td>Heat pump capacity kW</td>
<td>16.00</td>
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<tr>
<td>Heat pump capacity kW</td>
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</tr>
<tr>
<td>Max. water flow temperature</td>
<td>60°C</td>
<td>60°C</td>
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<td>Min. water flow temperature</td>
<td>22°C</td>
<td>22°C</td>
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<tr>
<td>Buffer tank capacity L</td>
<td>22</td>
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<tr>
<td>Hot water capacity kW</td>
<td>15</td>
<td>19</td>
</tr>
<tr>
<td>Hot water capacity kW</td>
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<td>Hot water capacity kW</td>
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<td>Annual electricity consumption kWh</td>
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<tr>
<td>Energy efficiency class</td>
<td>Energy efficiency class</td>
<td>Energy efficiency class</td>
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<tr>
<td>Seasonal space heating energy efficiency (Ƞ)</td>
<td>Seasonal space heating energy efficiency (Ƞ)</td>
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Dimensions
<table>
<thead>
<tr>
<th>Outdoor unit</th>
<th>Single phase: WOYG160LJL</th>
<th>3-phase: WOYK170DJ9</th>
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<tbody>
<tr>
<td>Outdoor unit</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>Outdoor unit</td>
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<td>Dimensions</td>
<td>mm</td>
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<tr>
<td>Dimensions</td>
<td>1,841 × 648 × 698</td>
<td>1,841 × 648 × 698</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1,841 × 648 × 698</td>
<td>1,841 × 648 × 698</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1,841 × 648 × 698</td>
<td>1,841 × 648 × 698</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1,841 × 648 × 698</td>
<td>1,841 × 648 × 698</td>
</tr>
<tr>
<td>Dimensions</td>
<td>1,841 × 648 × 698</td>
<td>1,841 × 648 × 698</td>
</tr>
</tbody>
</table>

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.
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 WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems. High COP* to -20°C using a backup heater, even when the outdoor temperature drops to -20°C. 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.

Optimized refrigerant cycle operation

The High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.
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 remote controller (option)
  - Room thermostat
    - UTW-C58XD
    - UTW-C55XA
  - Wireless remote controller (option)
    - Room thermostat
      - UTW-C74TXF*
      - UTW-C74HXF*

Adapters for external devices

- Web server (option)
  - UTW-KW1XD
  - UTW-KW4XD
- MODBUS® clip (option)
  - UTW-KMBXJ*

Service & Maintenance Tool

- Service tool (option)
  - UTW-KPSXD
  - UTW-KSTXD
- Web server (option)
  - UTW-KW1XD
  - UTW-KW4XD

Supports multiple languages

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

* Please refer to page W-036, W-037 for more optional parts information.

W-024

W-025
**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

**2-stage low-noise mode**

The outdoor unit can be switched to quiet mode, depending on the installation environment.

* Effective only for High Power Series

**Backup heater operation**

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.

**Quick recovery from defrosting**

Maintains room temperature by boost start operation during defrosting.

**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.

**Anti-freeze function**

When the outside temperature drops below a specified level, the compressor will self-activate and water will also be automatically circulated to prevent freezing.

**Error and Maintenance Alarm**

Enables quick error-handling services and maintenance.

**Emergency operation**

If an outdoor unit fails to operate, a built-in backup heater or an external boiler is activated to supply an uninterrupted supply of hot water to the house.
System Configuration

Split Type

**Controller (Optional Parts)**

**System Components (Optional Parts)**

**Heating & Hot Water (Locally available)**

- Boiler (Locally available)
- Boiler connection kit & Balancing weight
- Cascade Kit* (Stem KH-125, for master; Stem KH-175, for slave)

- Smart controller
- RF module
- Internet

- Basic unit
  - Super High Power Series
    - WSYA050ML3
    - WSYA080ML3
    - WSYA100ML3
  - Comfort Series
    - WONYAWR080
    - WONYAWR100
    - WONYAWR120

- Hydraulic unit
  - High Power Series
    - WOYK112LCTA
    - WOYK140LCTA
    - WOYK160LCTA
  - Super High Power Series
    - WGYG160LJL
    - WGYK170LJL

- Web server
  - Local controller
- Wired remote controller
- Room thermostat

*Regulation extension kit required.

Split DHW Integrated Type

**Controller (Optional Parts)**

**System Components (Optional Parts)**

**Heating & Hot Water (Locally available)**

- Boiler (Locally available)
- Split connection kit & Balancing weight

- Cascade Kit* (Stem KH-125, for master; Stem KH-175, for slave)

- Smart controller
- RF module
- Internet

- Basic unit
  - Super High Power Series
    - WSYA050ML3
    - WSYA080ML3
    - WSYA100ML3
  - Comfort Series
    - WONYAWR080
    - WONYAWR100
    - WONYAWR120

- Hydraulic unit
  - High Power Series
    - WOYK112LCTA
    - WOYK140LCTA
    - WOYK160LCTA
  - Super High Power Series
    - WGYG160LJL
    - WGYK170LJL

- Web server
  - Local controller
- Wired remote controller
- Room thermostat

*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.
**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.

The outdoor temperatures can be simulated in the range of -50°C to +50°C.

**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**

- Large display
  Shows all the information items related to the operation mode:
  - Clock
  - Temperature
  - DHW
  - Message
  - Service/maintenance
  - Timer menu

- Simple setting
  - DHW
  - Operation status
  - Information switching
  - Navigation
  - Cooling mode

**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:
  - Press “Info” button
  - The controller will display an error symbol.

- Error display
  - Error code
  - Error designation
  - Clear text info (UART)

  Detailed information displayed
  - LED 1 (RED)
  - LED 2 (GREEN)

- How to check for the errors displayed:
  - Press “Info” button
  - Press “Info” button

- Error display
  - Error code
  - Error designation
  - Clear text info (UART)

- LED 1 (RED)
- LED 2 (GREEN)

- How to check for the errors displayed:
  - Press “Info” button
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  - Press “Info” button
  - Press “Info” button

- Error display
  - Error code
  - Error designation
  - Clear text info (UART)

- LED 1 (RED)
- LED 2 (GREEN)
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) (mm)</th>
<th>H1 (m)</th>
<th>H2 (m)</th>
<th>L (m)</th>
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<td>6.35/12.70</td>
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<td>+20</td>
<td>0.30</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>9.52/15.88</td>
<td>+15</td>
<td>+15</td>
<td>0.20</td>
</tr>
<tr>
<td>High Power</td>
<td>10</td>
<td>9.52/15.88</td>
<td>+15</td>
<td>+15</td>
<td>0.20</td>
</tr>
<tr>
<td>Super High Power</td>
<td>10/15/16</td>
<td>9.52/15.88</td>
<td>+15</td>
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AIR TO WATER

Optional Parts
Optional Parts

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</tr>
</tbody>
</table>

### Additional Information

- **C74HXF** has a built-in room temperature and humidity sensor.
- ***: Split DHW integrated type supplies DHW without the DHW kit and DHW tank.
- ****: Includes 15 electrical accessories such as FSt and ESt, for Eastern Europe separately.
- ****: DHW kit, 3-way valve, or DHW expansion kit, is required for the connection.
- ****: DHW kit, 3-way valve, or DHW expansion kit, is required for the connection.
- ****: Split DHW integrated type requires separate DHW system.
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>
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</thead>
<tbody>
<tr>
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<td>WATERSTAGE™ Package label creator</td>
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<tr>
<td>Product informa-</td>
<td></td>
<td>Service &amp; Support Website</td>
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<td><a href="http://www.fujitsu-general.com/global/support/">www.fujitsu-general.com/global/support/</a></td>
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<td>Model selection</td>
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<td>After-sales service</td>
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</table>
AIRSTAGE™ 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

www.fujitsu-general.com/uk/support/downloads/vrf/

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 AIRSTAGE™ systems
• On-site training for control systems

Training facilities

1 Head office training center in Japan
2 Training center in China
3 Asia training center in Singapore
4 Europe training center in the United Kingdom
5 Europe training center in Germany
6 America training center in the United States
7 Middle East training center in the UAE
8 Oceania training center in Australia

www.fujitsu-general.com/uk/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.

Update your Design simulator

The database can be updated easily online with the AutoUpdate function using FTP.

Outputs in the format that matches the application

You can export your project information in a number of industry standard file formats:

• Word format (.doc)
• Excel format (.csv)
• Acrobat format (.pdf)
• 2D CAD data (.dxf)

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.

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Update your Design simulator

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WATERSTAGE™ Support tool

Fujitsu General’s software for WATERSTAGE™ automatically creates a combination of WATERSTAGE™ equipment by simply providing a few parameters. Supports multiple languages with an automatic update function.

WATERSTAGE™ Support tool

WATERSTAGE™ 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.

The images of the optional items will help you configure your system correctly. If more than one WATERSTAGE™ equipment is required, all relevant option items will be selected automatically.

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.

WATERSTAGE™ Package label creator

Download Energy labels and Fiches from our website

EoP 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.
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 Notary
- Indicating refrigerant circuit diagrams (for VRF)

Remote monitoring

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.

Mobile troubleshooting App for iOS and Android™ devices

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, “TGL air”, and R32 calculation of allowable refrigerant capacity)

Use Error Code Check, Troubleshooting, and Sensor Check to understand the status of your air conditioner.

Service monitoring tool for Single split, Multi-split & Air to water

- A quick overview of the temperature sensor readings and the electronic expansion valves (EEVs), fans, compressors and other control components
- It is not always easy to read the temperature sensor and know the status of the control components. So let the Service monitoring tool judge them.
- Visualizes protected operations
- Troubleshoots intermittent problems effectively
- Provides proof of normal operation to customers during periodical maintenance

<table>
<thead>
<tr>
<th>Dimensions (H × W × D) [mm]</th>
<th>Weight [g]</th>
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<tbody>
<tr>
<td>60 × 160 × 160</td>
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Actual operating conditions Graphs Operational histories
Service tool

UTY-AMGZ1

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).
- Saved data can be displayed offline. Note that the data saved by the following software applications cannot be displayed.
- UFR-VTR/UI-VCY (Service tool)
- UTR-MSA (Web monitoring tool)

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.

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 for assistance. On-site staff can have an online chat 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.

Web monitoring tool

UTY-AMGZ21

Features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during a periodic system check.
- An error notification is automatically transmitted to several locations via the internet.*1
- 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

UTY-AMGZ21

Operating system

- Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1
- Microsoft® Windows® 8 (32-bit or 64-bit)
- Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
- Microsoft® Windows® 10 Pro (32-bit or 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])
- 40 GB or more of free space

Screen resolution

- × 768 pixels or higher
- 2 KB or more of memory space

Software

- Software protection key to be connected to a USB port on a Service tool-installed computer.
- This software runs only on a computer with WibuKey.

Packaging list

- White-USB-key (Software protection key)
- White-USB-key (Software protection key)

Computer requirements

UTY-AMGZ21

Operating system

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

- × 768 pixels or higher
- 2 KB or more of memory space

Software

- Software protection key to be connected to a USB port on a Service tool-installed computer.
- This software runs only on a computer with WibuKey.

Packaging list

- White-USB-key (Software protection key)
- White-USB-key (Software protection key)
- 40 GB or more of free space

*1: Internet e-mail access required.