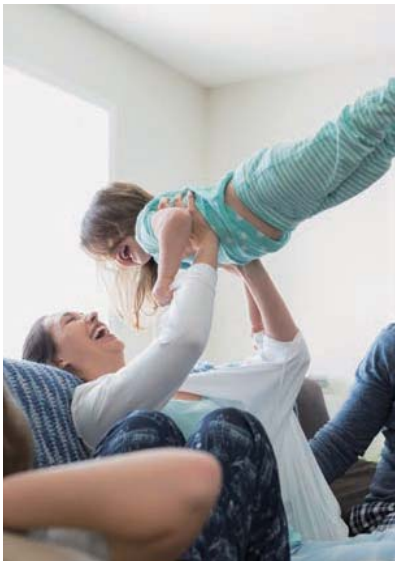
FUJITSU

OUR SOLUTION
for ALL LIFE SCENES

Fujitsu General provides comfortable and economical air conditioning systems that fit architectural trends and environmental awareness in Europe
– from business scene to lifestyle scene.



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OUR MESSAGE

Innovation & Globalization

Providing a Brand New Tomorrow to
Everyone on Earth

Design for Future

Design for Comfort

Design for Control

History

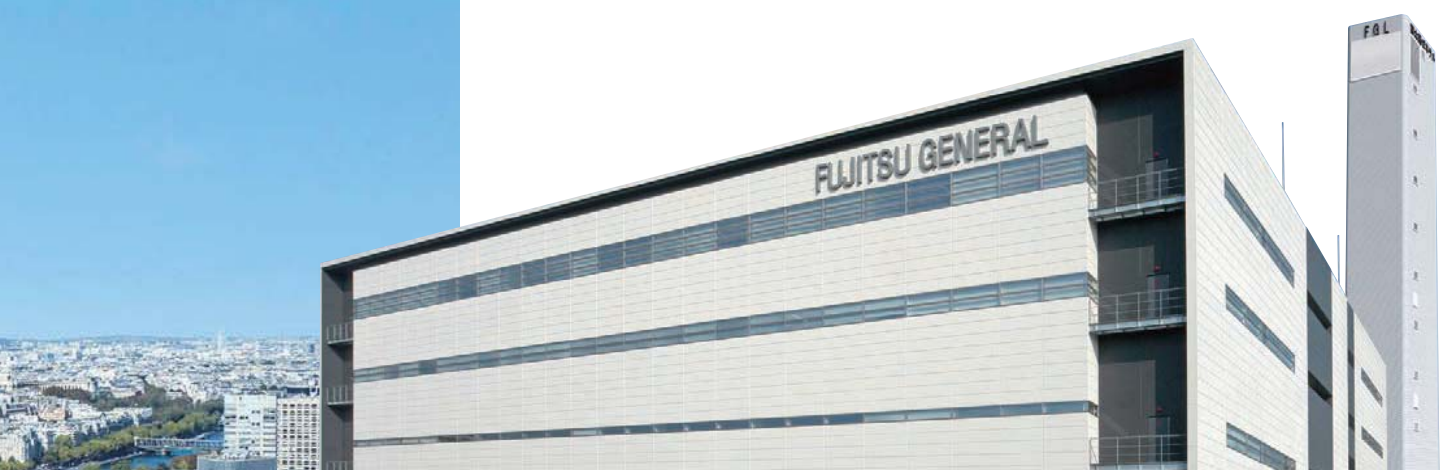
World Wide Locations

Global Business Activities

Project Reference

Global Development & Production Bases

High Quality Development & Production Facilities



OUR MESSAGE

Design for Future

We provide reliable technologies approved and cultivated in the European market where environmentally friendly regulations are very strict. We are working on making environmentally friendly products we can be proud of in the future in our research, development and manufacturing processes.

Our Pioneering Efforts Make Green Future

Approach to new energy efficiency standard Fujitsu General following the EU climate action plan 20/20/20 by 2020.

20% Less Primary Energy Use

Fujitsu General products with high efficiency and therefore low electricity

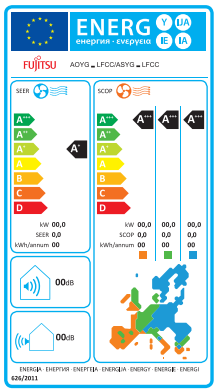
20% Less CO_2 Emissions

Fujitsu General products sharply following the F-gas regulation 517/2014

20% Share of Renewable Energy

Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

New Energy Labelling Requirement 626/2011/EU
Our Air Conditioners have reached the **"Class A"** ranking, the highest energy efficiency level that is now shown on energy labels in Europe.



	SEER (Cooling mode)	SCOP (Heating mode)
A+++	SEER ≥ 8.50	SCOP ≥ 5.10
A++	6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+	5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A	5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B	4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C	4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D	3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80
E	3.10 ≤ SEER < 3.60	2.20 ≤ SCOP < 2.50
F	2.60 ≤ SEER < 3.10	1.90 ≤ SCOP < 2.20
G	SEER < 2.60	SCOP < 1.90

EU strengthen F-gas Regulation introduced 2014.

New EU F-gas Regulation aims prevention of emissions and reduction the use of higher GWP F-gases.

Key elements

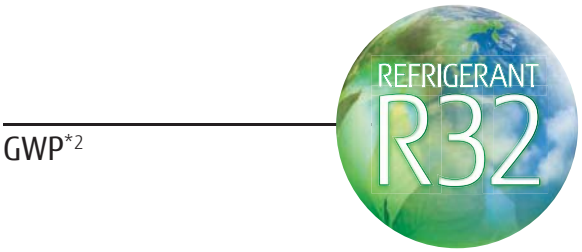
- Phase down approach
- Quota allocation
- Restrictions on the placing on the market
- Traceability of HFC contained in pre-charged equipment

Fujitsu General work on the reduction of HFC with innovative efforts

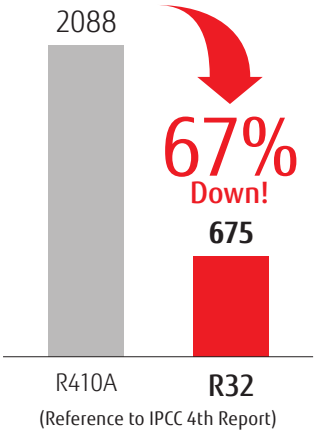
New refrigerant R32 for the reduction of the global warming potential.

Key points

- The ozone-depleting potential (ODP*1) is 0!
- Environmental properties
- Performance
- Economic efficiency



GWP*2



*1 **ODP (Ozone-Depleting Potential):** This is the relative value indicating the impact of ozone-depleting substances per unit weight if they are emitted into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is considered to be 1.0.

*2 **GWP (Global-Warming Potential):** This is the number that indicates the global warming capability of other greenhouse gases with reference to carbon dioxide as the standard. This is the estimated integration value, which is indicated as a ratio to CO2, of the radiant energy given to the earth (i.e., impact on global warming).

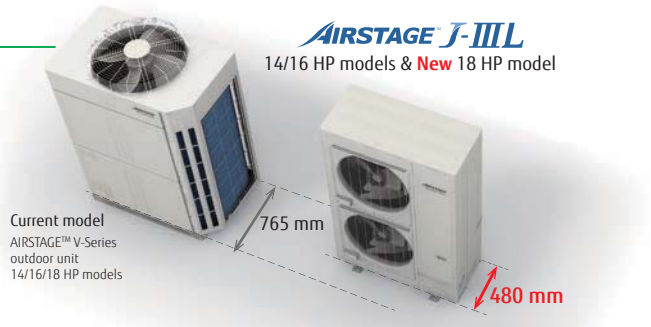
Less Space

Installation Space

Depth
765 mm
↓
480 mm
-45%

Weight

-58 kg



Less Refrigerant

System Refrigerant Volume

20.5 kg
↓
16.8 kg
-18%

Design with small refrigerant

Significantly reduce the system refrigerant volume by new small indoor unit, piping design and optimized heat exchanger volume design. The minimized refrigerant volume may allow the application to prevent the installation of a refrigerant leak detector required under EN 378.

Less Noise

Sound Power Level
(8HP model)

77 dB(A)
↓
66 dB(A)
-11dB

Top Class Low Operating Sound

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

OUR MESSAGE

Design for Comfort

Fujitsu General has developed and commercialized numerous world-first technologies with a commitment to real comfort. This concept also applies to our designs. We will continue to pursue the possibilities of air conditioners and provide new comfort in the future.

Comfortable Airflow

*1, *2, *3, *4, *5

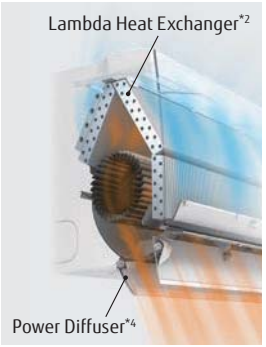
WORLD'S FIRST

Comfort by Design with Advanced Technology

The Dual Side Fans equipped to our flagship "nocria X" model optimally control the airflow. Their distinctive form delivers comfortable airflow to the corners of room. The Power Diffuser opens the lower flap of the main unit to blow warm air downward. This heats up rooms from the floor to increase heating efficiency. Lambda Heat Exchanger improves the operating efficiency and expands the possibilities of design, such as compactness of indoor units. Moreover, we have developed the automatic cleaning of filters for the first time to ensure maintenance and operating efficiency.
The airflow control system of nocria X is also applied to cassette type. 3 airflows create comfortable space. Fujitsu General is developing unique technologies to provide pleasant spaces.

The Dual Side Fans*1

Filter Auto Clean*3



3 Air Outlet Ports*5

*1: Announced 2012. In room air conditioner for the home (our company's investigation)
*4: Announced 1991. In room air conditioner for the home (our company's investigation)
*2: Announced 1994. In room air conditioner for the home (our company's investigation)
*3: Announced 2012. In room air conditioner for the home (our company's investigation)
*5: Announced 2018. In room air conditioner for the home (our company's investigation)

DUAL BLASTER

Comfortable airflow control to prevent the body from being exposed to airflow.

Beautiful Space Design

Design Award winning products
Wall Mounted

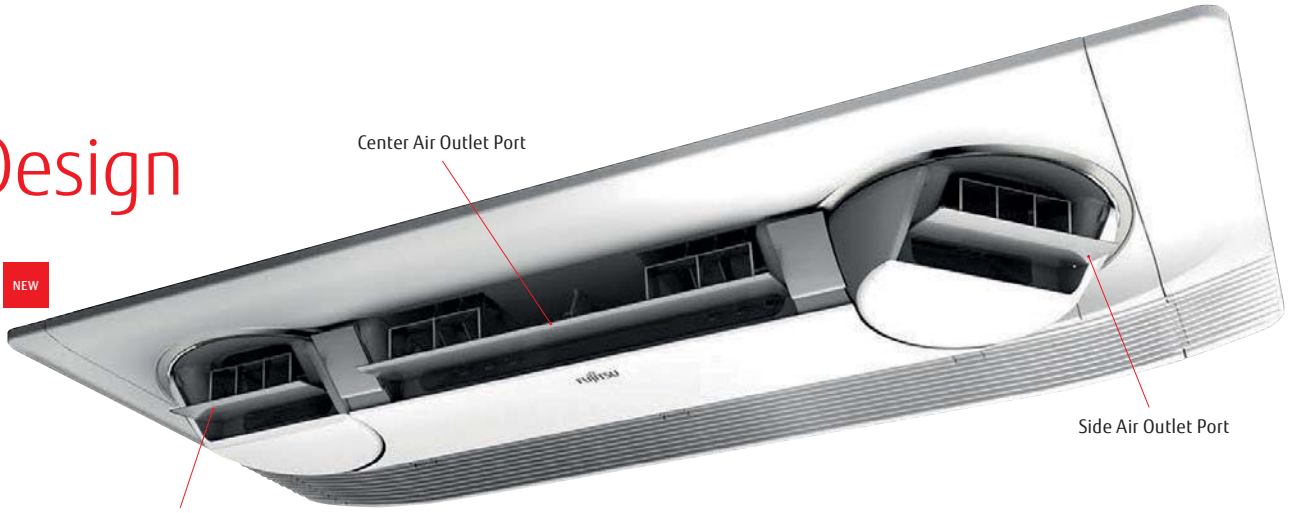
KM Series
KM Series
GOOD DESIGN

KG Series
KG Series
GOOD DESIGN

LT Series
reddot design award winner 2012

Design

NEW

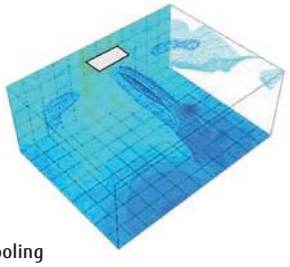


New 3D Flow Cassette

- Achieves a comfortable living space throughout the entire room using 3 airflows.*5
- The unit was designed to overcome a variety of installation limitations, which can occur at installation site.
- New air discharge design provides high intact and smooth discharge with reduced loss and top-class high energy saving performance.

Temperature distribution during cooling and heating

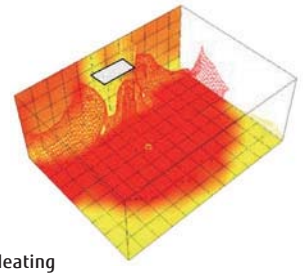
(when set to comfortable airflow)



Cooling

Cool airflow spreads out throughout the room so that there is a comfortable coolness anywhere in the room

*When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS018GLEH



Heating

The spread of warm airflow near the floor*6 is approximately 80% of the room – this is approximately three times that of conventional duct type air conditioners*7 (Refer to the figure below)

*When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS024GLEH

*6: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS018GLEH, the temperature distribution 10 cm above the floor was measured and the areas at 28°C or more were compared.

*7: Fujitsu General ARXK24GCLH duct type air conditioner

This fits grid ceiling system.
Compact Cassette Grid type

Beautiful designs from all angles.
Cassette Circular Flow

OUR MESSAGE

Design for Control

Using the Internet of Things (IoT), Fujitsu General actively provides services that allow users to control air conditioners from their smartphones.
We will expand open co-creation efforts with external partners and deepen our use of IoT and artificial intelligence (AI) to develop new functions and services in efforts to develop secure, convenient air conditioners.

User Friendly Interface

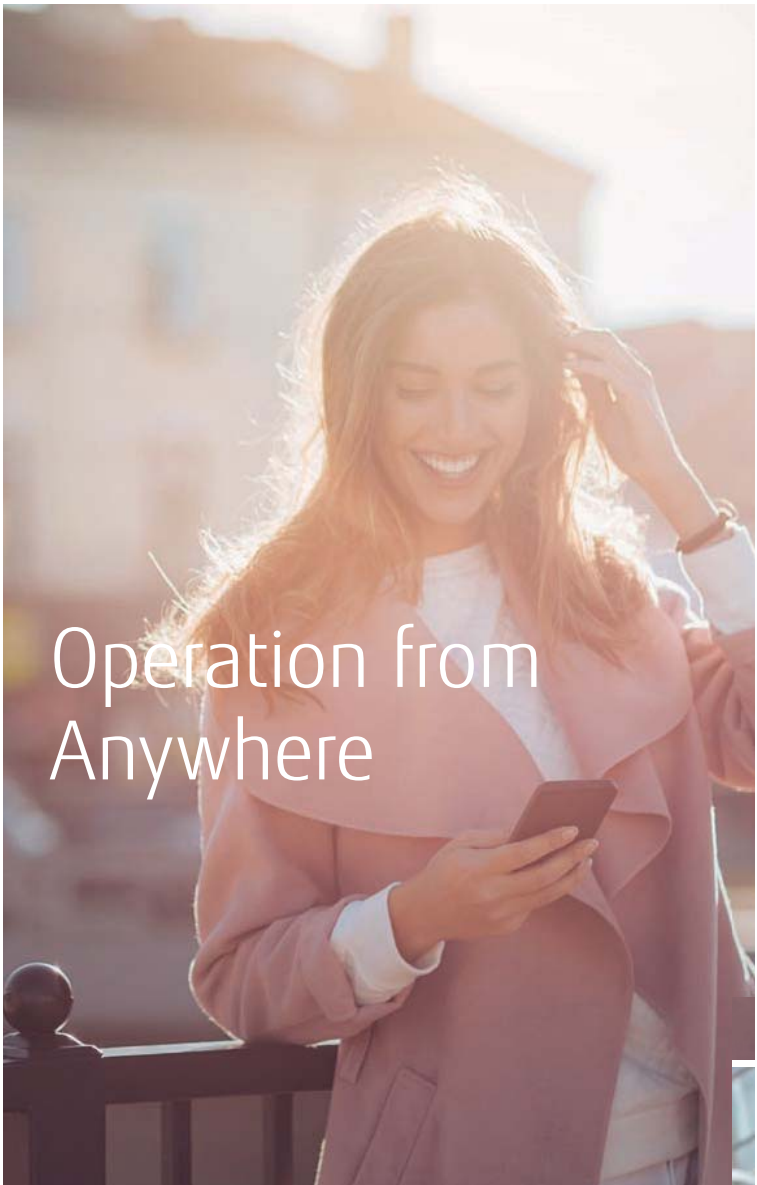
User friendly screen display facilitates easy operation.

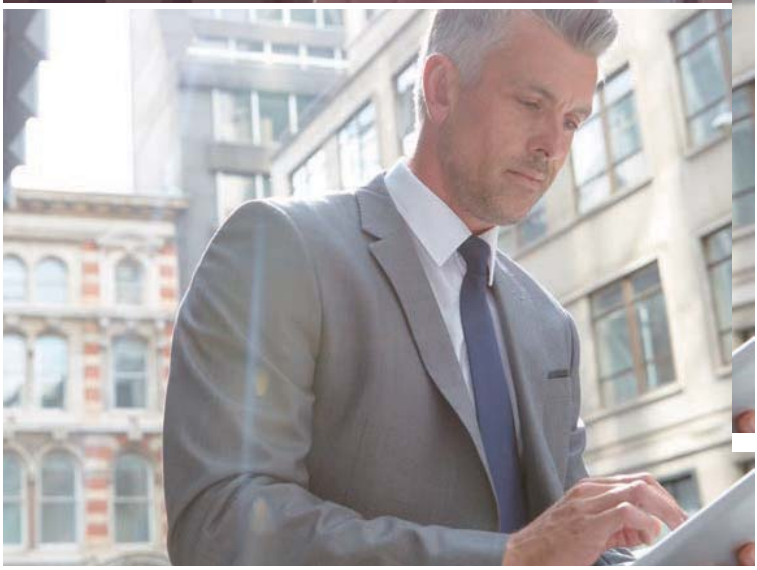
By using our Wireless LAN Interface and "FGLair" app, you can control your home's cooling and heating anytime and anywhere.

Get FGLair
Download Free

Download on the App Store

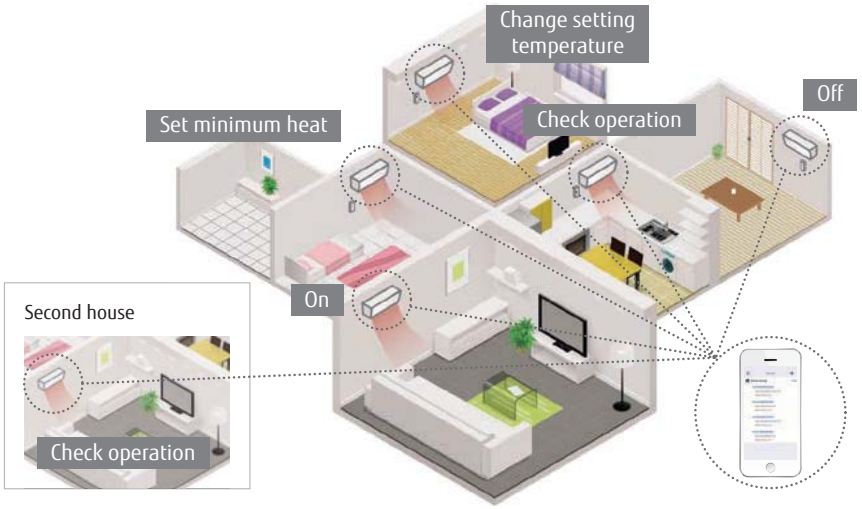
ANDROID APP ON Google play





If you forget to turn off your system before you left your home - no problem!

"FGLair" is an application software that enables you to operate the Fujitsu General's air conditioner(s) with a mobile device from anywhere out of your home or when you are on travelling.



Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

+

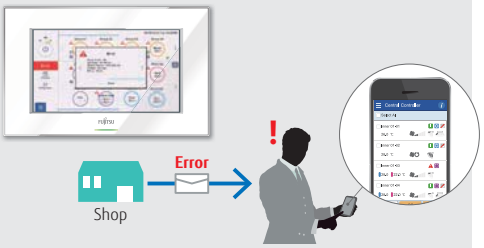
FGLair™

New Central Remote Controller for VRF

New Central Remote Controller allows many menus to display on the top screen by adopting touch panel screen. Necessary window pops up only by touching the menu you want to operate. More intuitive operation can be performed.

Remote monitoring/ Remote operation

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



OUR MESSAGE

History 1936 Established as Yaou Shouten Ltd.

Overseas Air Conditioning Business since 1971

1960: Air conditioning business starts. Japan-domestic business starts.

1971: Air conditioner exports to Middle East.
1977: "Super Power, Super Quiet" series
1982: Window type
3 Super series
AL/AX series

1985: Large wall mounted and multi air conditioner introduced.

For Residential

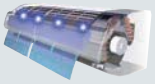
WORLD'S FIRST *1,*2 1991: Air conditioner with the world's first lambda heat exchanger

1994: Air conditioner with the world's first power diffuser

For Commercial

2001
AIRSTAGE™ series is released. VRF air conditioners for large-sized buildings.

WORLD'S FIRST *3 **2002**
Air conditioner with the world's first automatic self-cleaning filter system



nocria

For Light Commercial

2004
Standalone type small VRF AIRSTAGE™ J series is released.

2006
VRF Heat Pump type Max. 42 HP AIRSTAGE™ V series is released.

2009: Heat Pump Modular type Max. 48 HP AIRSTAGE™ V-II series is released.

2009
Air to Water system is released.

WATERSTAGE

1950 ~ 1970 ~ 2000 ~

Manufacturing Company Establishment

1955: Headquarters 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.

2006: VRF air conditioner manufacturer, sale, and service company in China.

2007: Air conditioner technology building completed on Main Office group. Air conditioner R&D Center in Kawasaki

2009: Operation of compressor factory begins in Thailand.

Fujitsu General (U.K.) Co., Ltd. (U.K.)

Fujitsu General (EURO) GmbH

Sales & Service Maintenance Company Establishment

1976: North America sales company

1977: Europe sales company (UK)

1978: Australia sales company / Europe sales company (Germany)

1980: Brazil sales company

1997: Asia sales company (Singapore)

1998: Middle East sales company (UAE) / New Zealand sales company

2000: Air conditioner manufacturing and sale technical partnership in India

2002: Taiwan sales company

2006: China sales company

*1. Announced 1991. In room air conditioner for the home (our company's investigation) *2. Announced 1994. In room air conditioner for the home (our company's investigation)

2011: High energy saving type AIRSTAGE™ J-II series is released.

2014: Small & lightweight outdoor unit AIRSTAGE™ J-IIS that has improved easy installation with a single fan

AIRSTAGE J-IIS

2016

Small VRF AIRSTAGE™ J-III that has advanced energy saving and easy installation is released.

AIRSTAGE J-III

2012

Heat Recovery Modular type AIRSTAGE™ VR-II max. 48 HP is released.

2014-15

Heat pump modular type AIRSTAGE™ V-III max. 54 HP ideal for large properties is released

AIRSTAGE V-III

2011

Hi-spec Design model is released.

2017

Flagship Wall Mounted models

WORLD'S FIRST *4

nocria X

DUAL BLASTER

2010 ~

2012: Joint venture in Thailand to manufacture compressors

2016: Commercial use air conditioner R&D Center in Thailand

2016: THE AIRSTAGE on Broadway in New York

THE AIRSTAGE ON BROADWAY
Fujitsu General Solution Center

2019 New Topic

2017-19

NEW

New small VRF AIRSTAGE™ J-IIIL suitable for diverse light commercial properties is released.

AIRSTAGE J-IIIL

8-16 HP models
& New 18 HP model

2019

NEW

New cassette style release.

WORLD'S FIRST *5

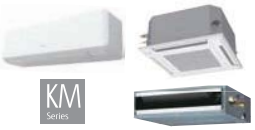
3D Flow Cassette

2018-19

NEW

Environment-friendly new refrigerant R32 models are added.

REFRIGERANT R32



Single / Multi Split

Multi Split

2019

NEW

Air to Water system High capacity models that increase heating efficiency are added to our lineup.

WATERSTAGE

15/16/17 kW models

2019

Construction of new building to strengthen development capabilities at Kawasaki head office:

Base to create new value by combining internal and external knowledge

*3. Announced 2002. In room air conditioner for the home (our company's investigation) *4 Announced 2012. In room air conditioner for the home (Our company's investigation)
*5: Announced 2018. In room air conditioner for the home (Our company's investigation)

OUR MESSAGE

World Wide Locations

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

JAPAN Head Office

New Technology Research Building (Japan)

14 Overseas Sales Companies

Fujitsu General Orient International Electronics Sales (Shanghai) Co., Ltd. (China)

Fujitsu General (Taiwan) Co., Ltd. (Taiwan)

Fujitsu General (Thailand) Co.,Ltd. Bangkok Office (Thailand)

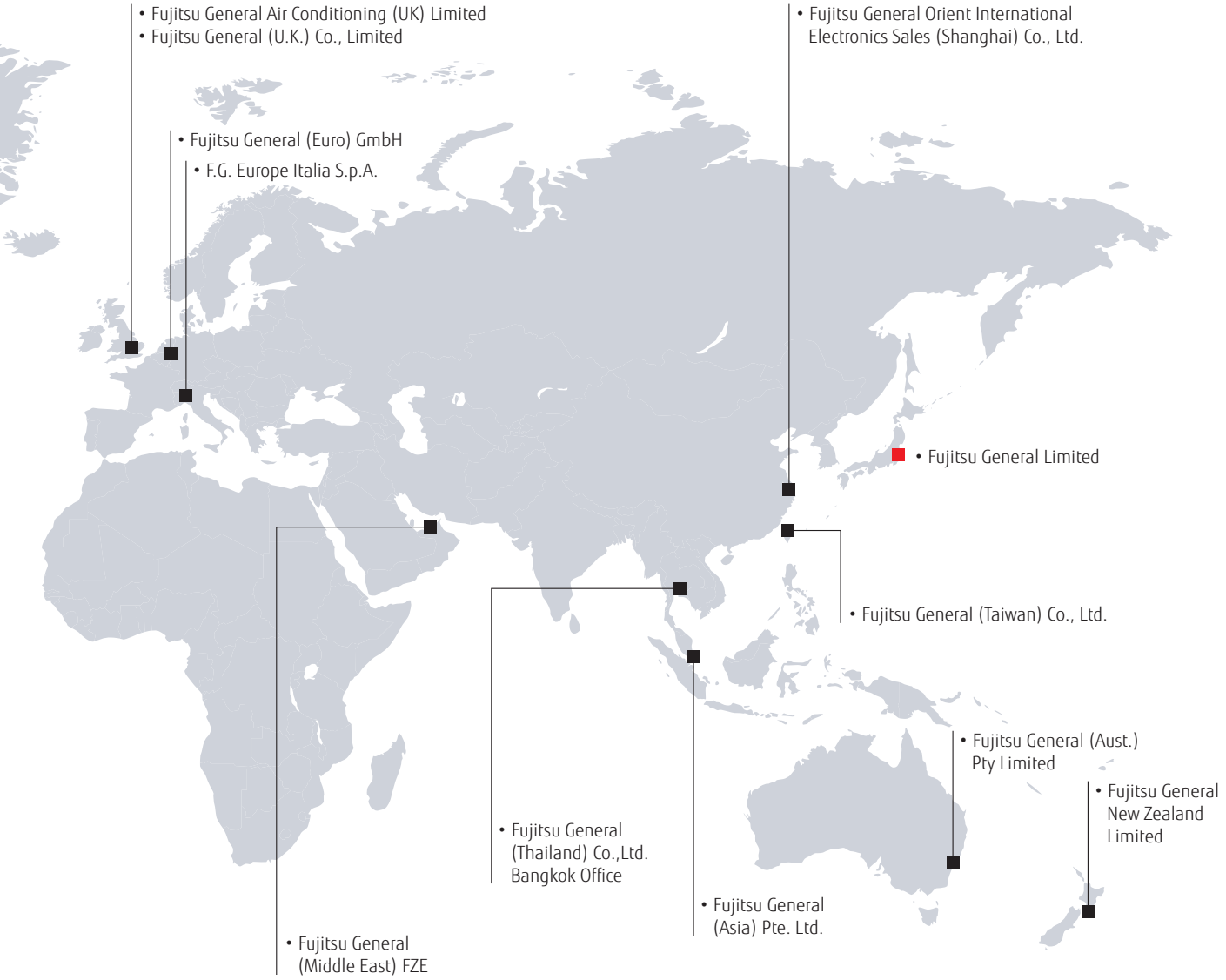
Fujitsu General (Asia) PTE. Ltd. (Singapore)

Fujitsu General (EURO) GmbH (Germany)

Fujitsu General (U.K.) Co., Ltd. (U.K.)

Fujitsu General Air Conditioning (UK) Limited (U.K.)

F.G. Europe Italia S.p.A. (Italy)



Fujitsu General (Aust.) Pty Ltd. (Australia)

Fujitsu General New Zealand Ltd. (New Zealand)

Fujitsu General (Middle East) FZE (U.A.E.)

FUJITSU GENERAL SOLUTION CENTER "THE AIRSTAGE" (U.S.A.)

Fujitsu General Do Brasil Ltda.(Brasil)

Fujitsu General America, Inc. (U.S.A.)

OUR MESSAGE

Global Business Activities

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

North/South America

AHR Expo

HVAC trade show in Brasil

Distributor meeting

Call center

Middle East

Exhibition

Exhibition

Technical seminar

Training for dealers

Europe

HVAC trade show in Europe countries

Presentation & training

International authoritative design awards

"Dealer Design Awards" of "the NEWS"

Gold Award (Category: HVAC & PLUMBING) in Reader's Choice Awards

TOP OF MIND 2016" First prize in "MARCA DE EQUIPAMENTODE AR-CONDICIONADO" category of "CLIMATIZACAO" division

Super brand is the world's largest independent arbiter of branding

The iF Product Design Award is given each year by "iF International Forum Design GmbH" for industrial products from around the world.

Asia

New Product Presentation Meeting, Sales store awards

Oceania

HVAC trade show in Europe countries

HVAC trade show in Australia

FG TAIWAN Entire employee workshop

ACR Show

Charity (Christchurch)

SE training

Service & Maintenance

Call center

reddot design award winner 2012

The product design competition has existed since 1955. Its award, the "red dot", is an internationally recognized quality seal.

Coolworld Industry Awards "Most Efficient Air Conditioner"

Canstar Blue Most Satisfied Customers Award

China State Construction Engineering Luban Prize

GOOD DESIGN

The Good Design Award is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

OUR MESSAGE

Project Reference

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

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

1

2

3

4

5

6

7

8

For Light Commercial

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

For Commercial

9 Office in Europe
10 Office in Europe
11 Office in Europe
12 Hotel in Asia

For Residential

13 Residential in Europe
14 Residential in Europe
15 Residential in Oceania
16 Residential in Middle East

SOLUTIONS

A casual conversation with a colleague at work
A presentation in a large meeting room
A restaurant you dropped by when going out
Your regular living room
We have a lineup of air conditioners ideal for all these situations – from business to private spaces.
The air conditioners of Fujitsu General can be found in various settings of life.

Target Properties

For LIGHT COMMERCIAL

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

- SHOPS, RESTAURANT
- SMALL OFFICE
- HOTELS
- SCHOOL

Compatible Models

- SPLIT
- SIMULTANEOUS MULTI
- VRF AIRSTAGE™ J-Series

For COMMERCIAL

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

30 LARGE BUILDING

Compatible Models

- VRF AIRSTAGE™ V-Series

For RESIDENTIAL

We provide smart air conditioning systems with a wide range of control options for comfortable control and convenient use.

32 RESIDENCE

Compatible Models

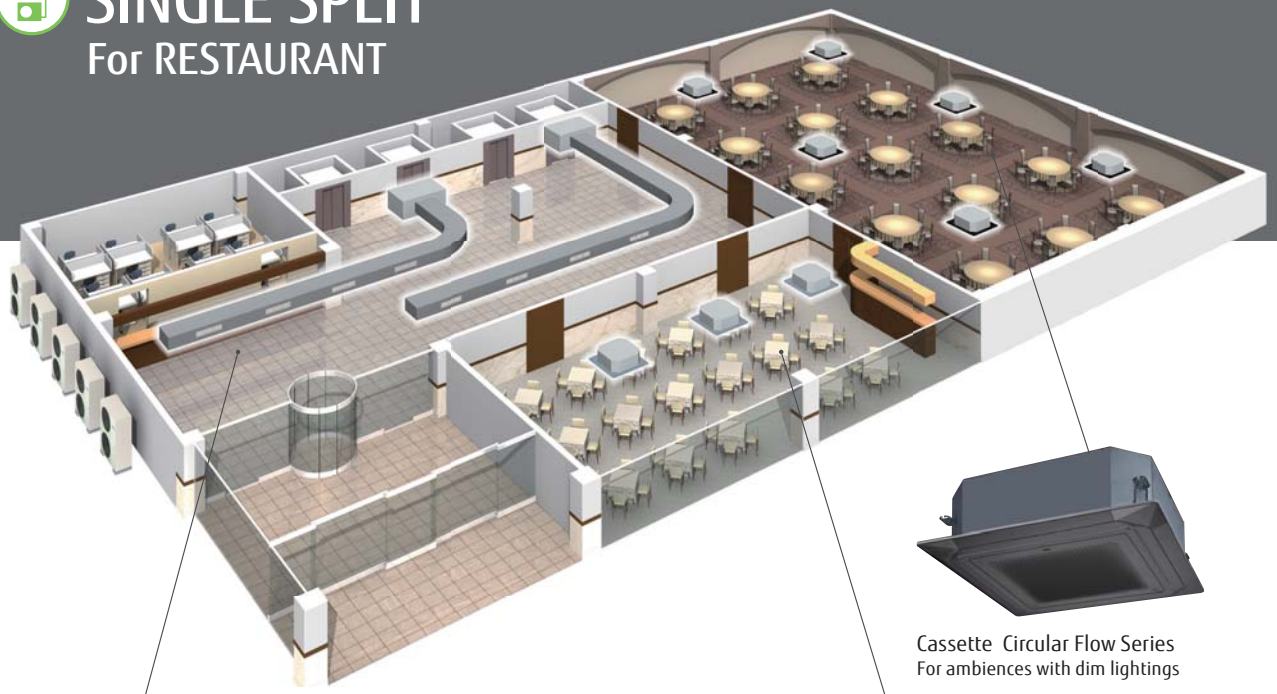
- SPLIT
- MULTI SPLIT

For LIGHT COMMERCIAL

RESTAURANT, SHOPS

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

SINGLE SPLIT
For RESTAURANT



Cassette Circular Flow Series
For ambiences with dim lightings

Cassette Circular Flow Series
For bright Interior rooms etc.

Appropriate air conditioning in the atrium space

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

Big Duct

Color variations by two panels

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

SIMULTANEOUS MULTI
For SHOPS

Medium Static Pressure Duct

Cassette Compact

Cassette

Floor/Ceiling

Ceiling

72-90 Simultaneous Multi

Various indoor unit lineup

We provide 5 types of indoor units. You can select them to suit the atmosphere and layout of your shop.

Space saving installation

Simultaneous multi type can connect up to four air indoor units. This large capacity model makes large spaces comfortable simultaneously. Furthermore, this is top class compact outdoor unit in the industry.

Low outside air temperature cooling air conditioning support

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

For LIGHT COMMERCIAL

SMALL OFFICES

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

AIRSTAGE™

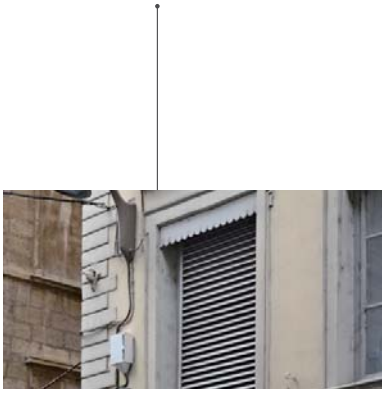
NEW

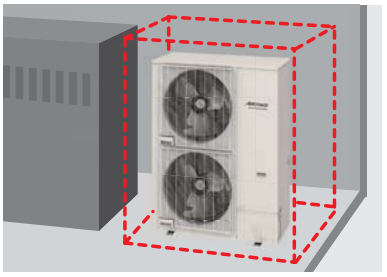
J-III J-IIIL J-IIIL High capacity model

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

Small VRF system is suitable for the buildings with many small rooms. Max. 40* indoor units can be connected.

*Only J-IIIL 16 HP model

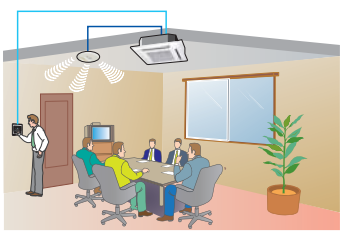




J-IIIL

Energy saving solution suitable for meeting rooms and business discussion rooms

When there are no people in the room, save operation starts automatically to prevent unnecessary power consumption by linking up with a human sensor and external input/output kit.

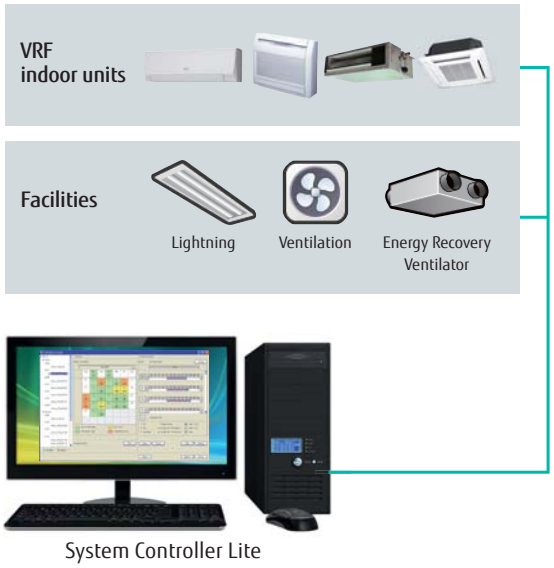


Compact and low noise design outdoor unit

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

Centralized control of both air conditioning and ventilation equipment

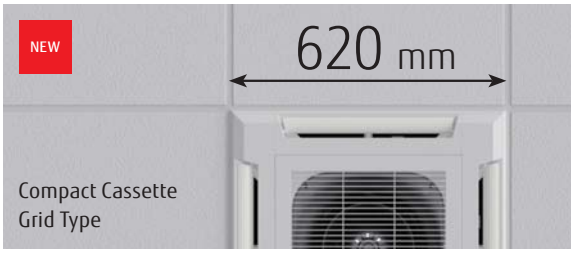
It is possible to perform centralized control to stop the operation of lighting and ventilation equipment in addition to air conditioners. This is useful in energy saving management over the whole building.



System Controller Lite

New design panels ideal for grid ceiling

We have equipped a new 620 mm square design panel that is ideal for the grid ceiling found in many offices in Europe. Easy installation and finished beauty are enhanced by these new panels.



1.1 kW personal air conditioning

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

Wall Mounted

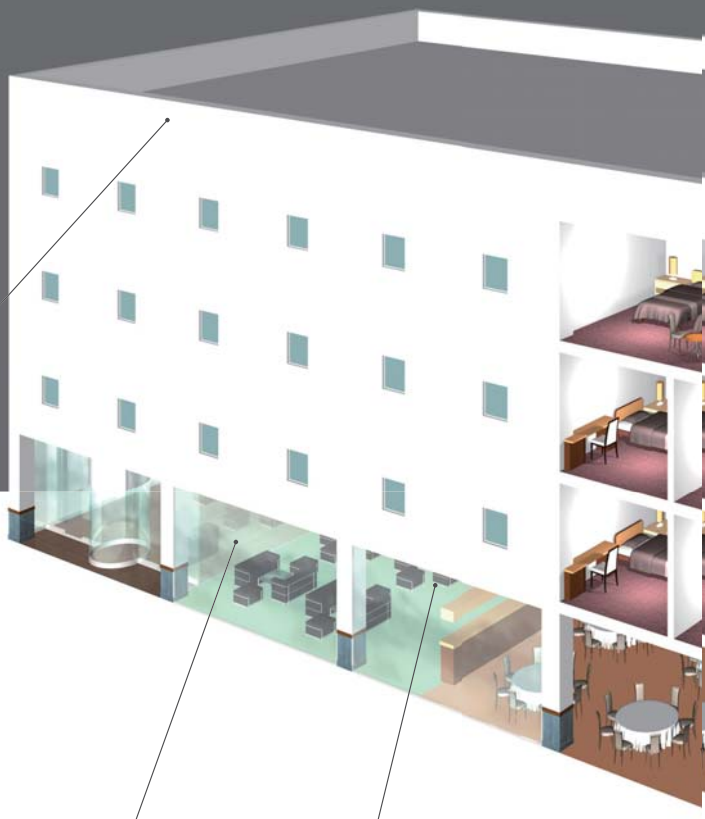
Compact Floor

For LIGHT COMMERCIAL HOTELS

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

AIRSTAGE™

J-III J-IIIL J-IIIL
High capacity model



AIRSTAGE™ J-Series Appearance-oriented compact outdoor unit

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

Ventilation of the whole hotel supported

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

EEV unit

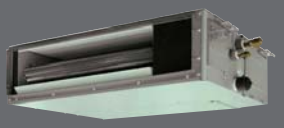
Control unit

Large space air conditioning in the reception and lobby

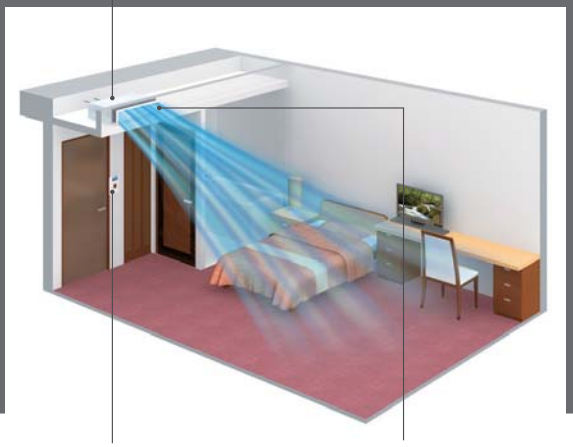
Ultra-large duct type single split system suitable for large spaces with high ceilings

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

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



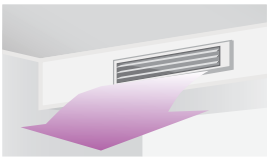
Mini Duct



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

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

Use of an external connect switch



Auto Louver Grille Kit

System controller

Centralized control of air conditioning in shared spaces

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

Simple Remote Controller with sophisticated design

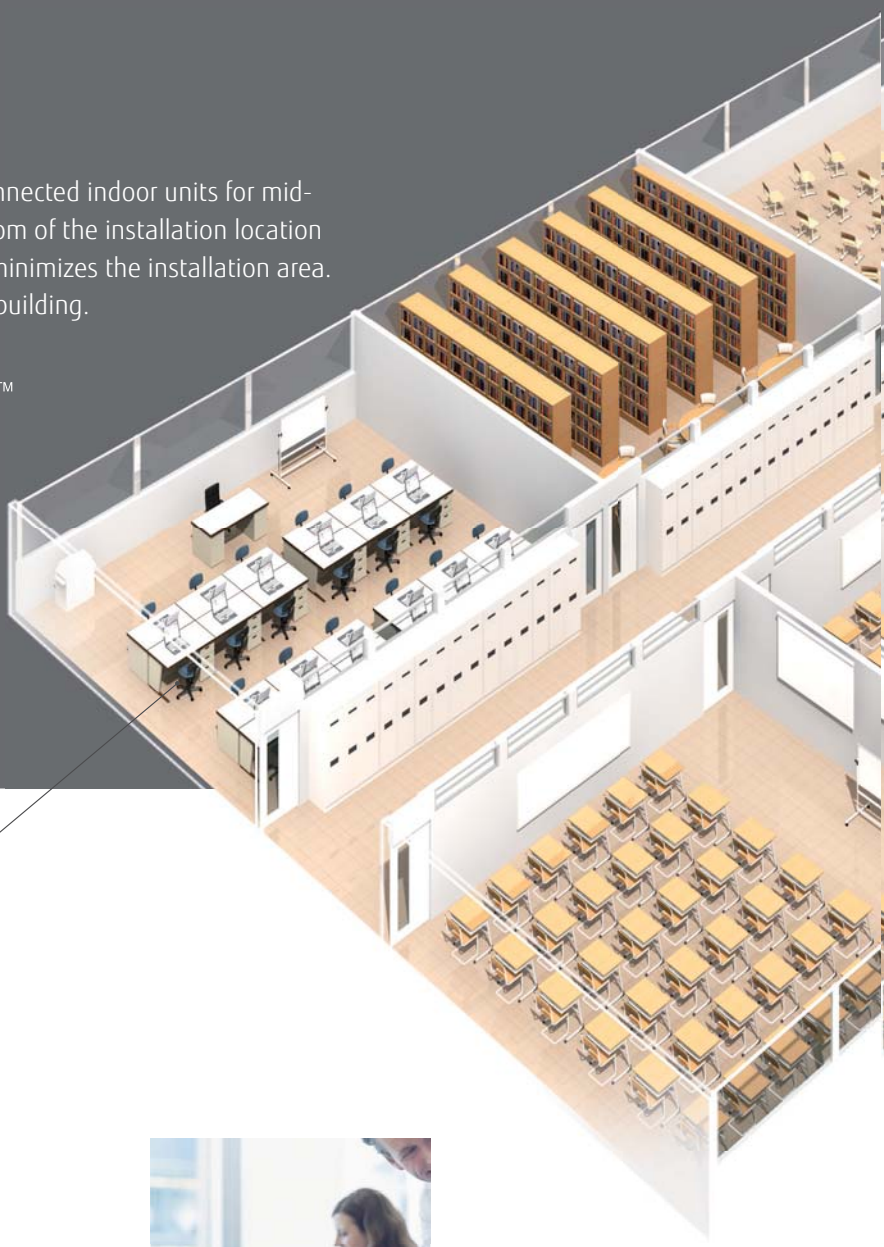
Suitable for hotels or offices as it is easily operated with no complex functions.
Large LCD screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.

For LIGHT COMMERCIAL

SCHOOL

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

AIRSTAGE™



Touch Panel Controller UTY-DTGYZ1

LAN

PC

Wireless LAN

Fixed IP, IP forwarding and open Port required

INTERNET

Router

Tablet PC

Smartphone

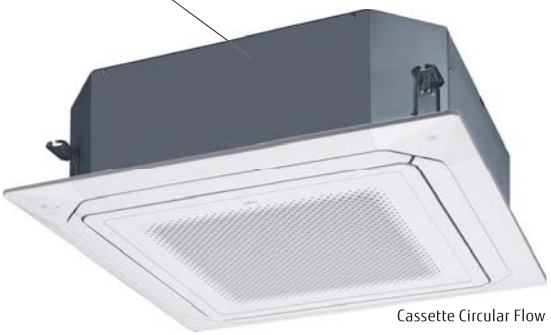
iOS, Android and/or Windows

New centralized remote controller with improved operability

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

Control and monitoring

The same management as with the main unit is possible even if you are at your desk. Non-administrators can also operate the air conditioners with a PC, Smartphone or tablet.



Cassette Circular Flow

Duct Type

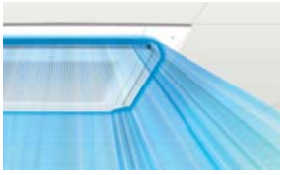
NEW rgy Recovery Ventilator

Various indoor units

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

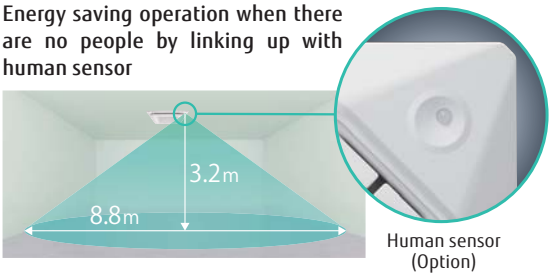
Comfortable room air conditioning without airflow feeling

Circular Airflow Cassette blows out in all directions without temperature unevenness



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

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



Human sensor (Option)

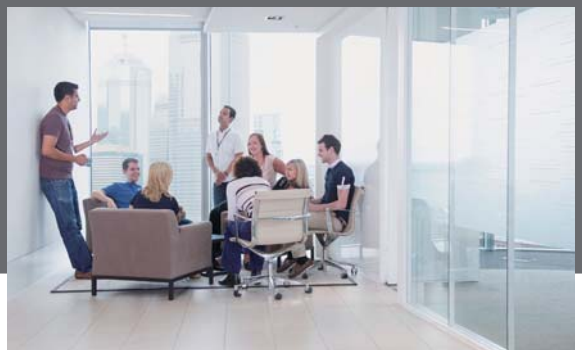
SOLUTIONS

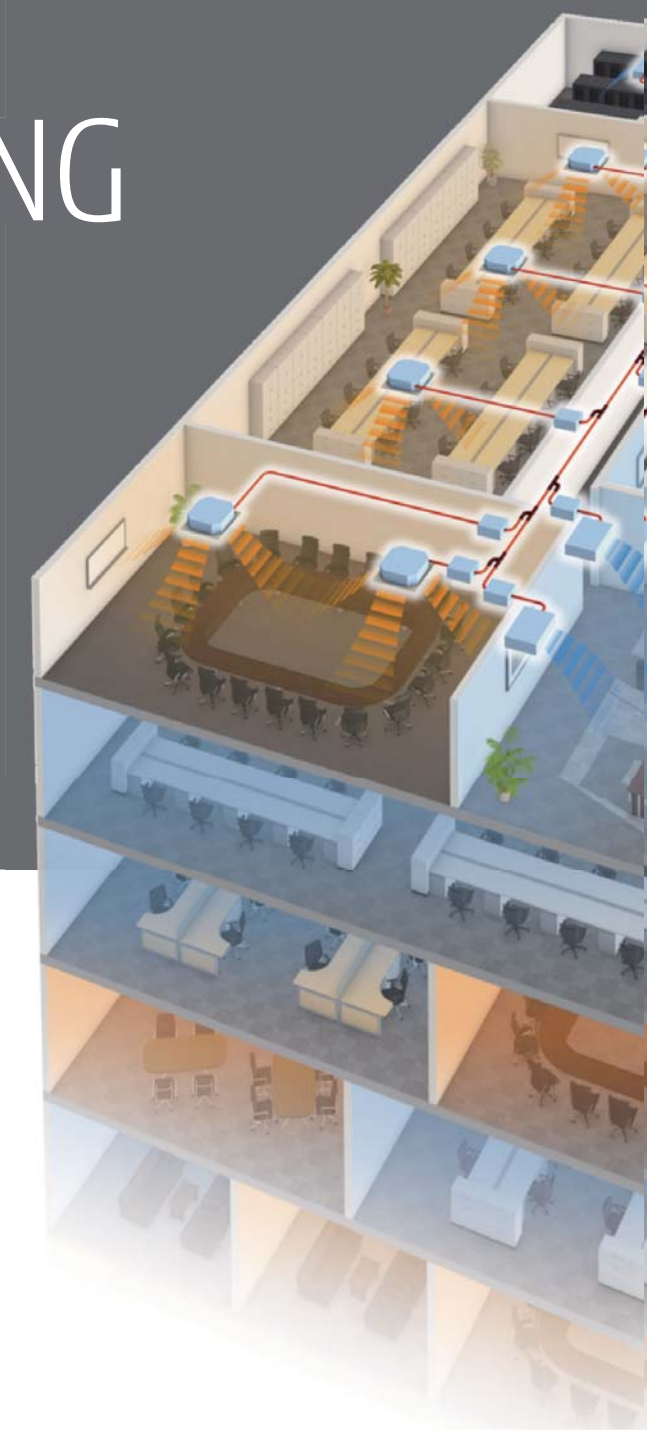
For COMMERCIAL

LARGE BUILDING

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

AIRSTAGE™





Abundant lineup suitable to match the operating environment

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

Individual air conditioning system for large buildings

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

AIRSTAGE™ V-III

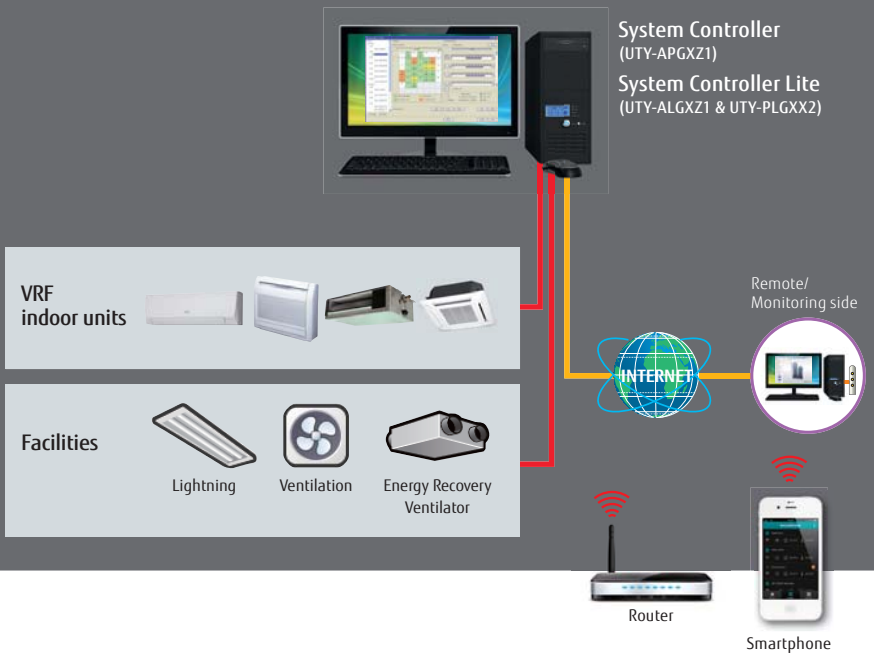
AIRSTAGE™ V-III TROPICAL SPEC

8 HP - 54 HP 39 Models

- Space saving combination: 8 HP to 54 HP/24 models
- Energy efficiency combination: 16 HP to 46 HP/ 15 models

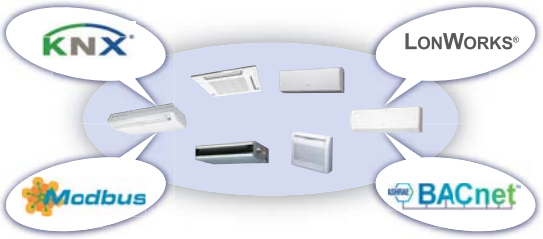
Centralized control

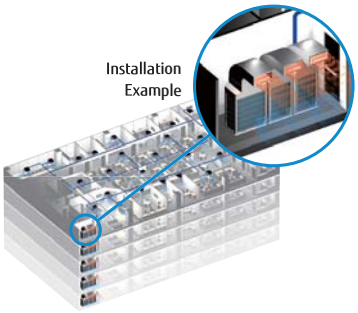
Not only indoor units in the building but also facilities such as ventilation can be controlled easily by anyone.



Link up with a variety of BMS

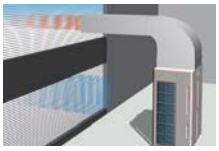
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, BACnet, KNX and other various interfaces.





High system flexibility

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

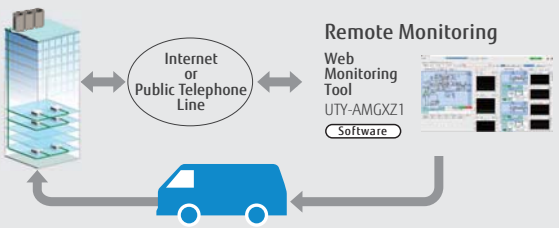


82* Pa

*: 80Pa for VR-II

Rapid service support

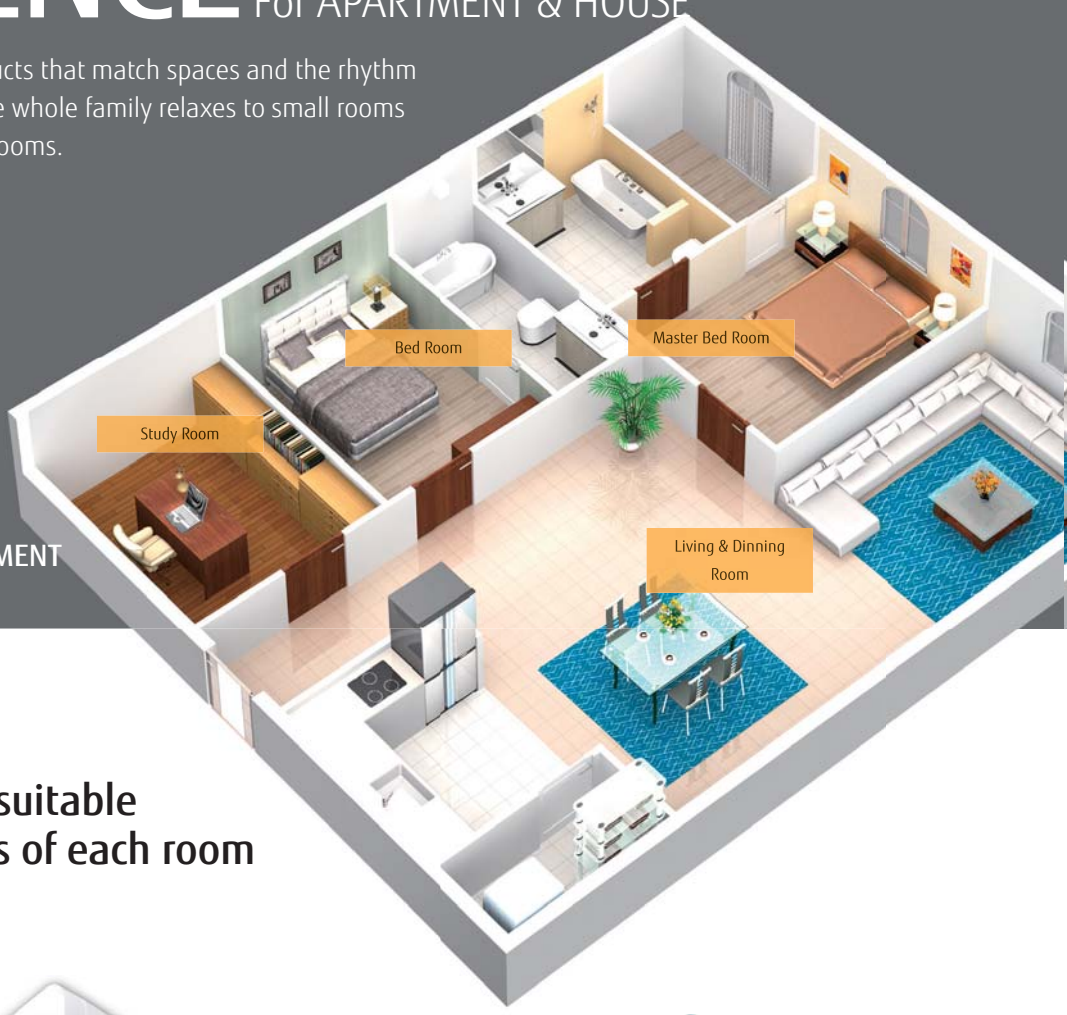
The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response for emergency is possible by a self-diagnosis in advance in cooperation with a management company.



For RESIDENTIAL
RESIDENCE For APARTMENT & HOUSE

Fujitsu General provides the products that match spaces and the rhythm of life from living rooms where the whole family relaxes to small rooms such as bedrooms and children's rooms.

For APARTMENT



Various indoor units suitable for the characteristics of each room

KG Series GOOD DESIGN

For Master Bed Room or Living Room

Good Design & Silent Model

High performance and low noise model with an emphasis on its design

NEW KL Series

NEW KM Series GOOD DESIGN

For Bed Room or Home Office

Standard & ECO Range Series

High performance and compact design model for compact spaces such as bed room or home office.

REFRIGERANT R32

The new environmentally friendly R32 refrigerant is adopted actively.

Outdoor units suitable for residential environments

Easy Installation

Installation with an emphasis on the interior is possible without overly lowering the ceiling.

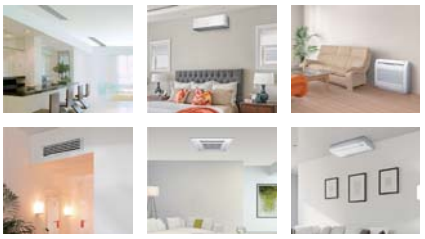
For Small Space

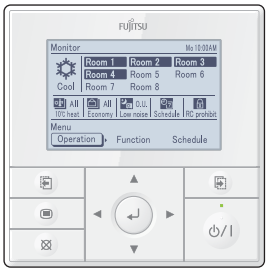
Flexible installation is possible in bedrooms and rooms where you don't want to hang on the wall.

2 & 3-4 Rooms Multi | 5-6 Rooms Multi | 8 Rooms Multi

2-8 Rooms Multi

Lineup of multi type for air conditioning from 2 rooms to 8 rooms with one outdoor unit in apartments where it is difficult to secure space for the installation of outdoor units.





Central Remote Controller

For 5-6 & 8 Rooms Multi

Up to 8 units can be controlled with a residential home controller. Of course, individual control is also possible.

PRODUCT LINEUP

VRF

For LIGHT COMMERCIAL & RESIDENTIAL, COMMERCIAL

AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

AIRSTAGE™ VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

36 AIRSTAGE™ J-Series OVERVIEW
38 AIRSTAGE™ V-Series OVERVIEW
40 VRF Outdoor Units Lineup
42 FEATURE

AIRSTAGE™ J-Series

50 AIRSTAGE™ J-IIIL
54 AIRSTAGE™ J-III
56 AIRSTAGE™ J-IIS

AIRSTAGE™ V-Series

58 AIRSTAGE™ V-III
62 AIRSTAGE™ V-III Tropical

VRF INDOOR UNITS

66 VRF Indoor Units Lineup
68 NEW INDOOR UNITS

- Compact Cassette
- Cassette
- Circular Flow
- Low Static Pressure Duct / Concealed Floor
- Slim Duct / Slim Concealed Floor
- Low / Medium Static Pressure Duct
- High Static Pressure Duct
- Floor / Ceiling
- Wall Mounted

VENTILATION

92 Outdoor Air Unit
98 DX-Kit for Air Handling Application

CONTROL SYSTEM

102 CONTROL SYSTEM OVERVIEW
122 CONTROL SYSTEM CENTRALIZED OVERVIEW

OPTIONAL PARTS LIST

144 Optional Parts

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com

* Models so marked are not ECC certified.

AIRSTAGE™ J-Series Overview

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

Max. 18 HP Heat Pump

AIRSTAGE J-IIIL

J-IIIL is an outdoor unit with a slim design offering a high degree of freedom of installation that is recommended for mid-size office buildings and hotels. Furthermore, you can connect up to 42* indoor units with newly added 14/16/18 HP model. 14/16/18 HP model is also ideal for hospitals and educational facilities with many rooms.

*: 18 HP model

Slim Outdoor Unit

Although this is a 14/16/18 HP model that can handle slightly larger properties, it has a slim depth of 480 mm. This model can be introduced and installed even in limited spaces.

Small room application

Up to 30-42 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

Top Class Low Operating Sound

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

8-12 HP models

New 18 HP model & 14/16 models

Max. 6 HP Heat Pump

AIRSTAGE J-III

J-III improves the system with up to 13 indoor units. This model is suitable for small buildings that bring together small stores.

High Energy Efficiency

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

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

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

Max. 6 HP Heat Pump, Compact Design

AIRSTAGE J-IIS

J-IIS has a compact design with a height of 998 mm that does not obstruct visibility even when installed near waist-high windows. This model is also ideal for large houses, retail stores and other properties.

Space saving and low sound level design

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

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

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

AIRSTAGE™ V-Series Overview

AIRSTAGE™ V-Series Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

Max. 54 HP Heat Pump

AIRSTAGE™ V-III

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

Excellent energy saving

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

High design flexibility for various building air conditioning

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

Easy installation and maintenance

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

at Cooling
Up to 52°C
outdoor temperature

Max. 54 HP Heat Pump

AIRSTAGE V-III

Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 130%

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion

TROPICAL SPEC

Energy saving technology that boosted operation efficiency

1 Powerful large propeller fan

By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics

2 3 phase DC fan motor

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

3 Sine-wave DC inverter control

High efficiency is realized by adoption of reduced switching loss IPM.

4 4-face heat exchanger

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

5 Subcool heat exchanger

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

6 High efficient and large capacity DC inverter compressor

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

7 Front intake port (Corner cut air inlet structure)

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

VRF Outdoor Units Lineup

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5
HP		4	5	6	8	10	12	14	16	18	20	22	24	26
J-IIIL Series Page 5 ~					 AJY072 LELAH	 AJY090 LELAH	 AJY108 LELAH	NEW AJY126 LELAH	NEW AJY144 LELAH	NEW AJY162 LELAH				
J-III Series Page 54 ~		 AJY040 LBLAH, AJY040 LELAH	 AJY040 LBLAH, AJY040 LELAH	 AJY054 LBLAH, AJY054 LELAH										
J-IIS Series Page 56 ~		 AJY040 LCLAH	 AJY045 LCLAH	 AJY054 LCLAH										
V-III Series Heat Pump	Space Saving Page 60 ~ Set Model				 AJY072 LALBH	 AJY090 LALBH	 AJY108 LALBH	 AJY126 LALBH	 AJY144 LALBH	 AJY162 LALBH	 AJY180 LALBH	 AJY198 LALBH	 AJY216 LALBH	 AJY234 LALBH
	Energy Efficiency Page 60 ~ Set Model								 AJY144 LALBHH	 AJY162 LALBHH	 AJY180 LALBHH		 AJY216 LALBHH	 AJY234 LALBHH
V-III Tropical Series Heat Pump	Space Saving Page 64 ~ Set Model				 AJY072 LNLBH	 AJY090 LNLBH	 AJY108 LNLBH	 AJY126 LNLBH	 AJY144 LNLBH	 AJY162 LNLBH	 AJY180 LNLBH	 AJY198 LNLBH	 AJY216 LNLBH	 AJY234 LNLBH
	Energy Efficiency Page 64 ~ Set Model								 AJY144 LNLBHH	 AJY162 LNLBHH	 AJY180 LNLBHH		 AJY216 LNLBHH	 AJY234 LNLBHH

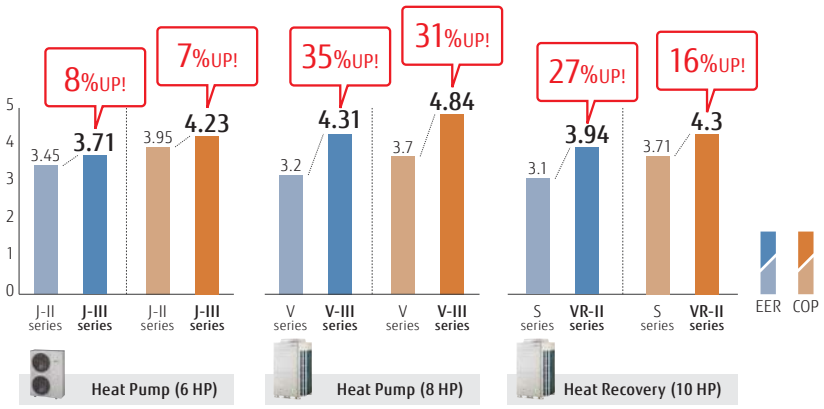
78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	140.0	145.0	150.0
28	30	32	34	36	38	40	42	44	46	48	50	52	54
AJY252 LALBH	AJY270 LALBH	AJY288 LALBH	AJY306 LALBH	AJY324 LALBH	AJY342 LALBH	AJY360 LALBH	AJY378 LALBH	AJY396 LALBH	AJY414 LALBH	AJY432 LALBH	AJY450 LALBH	AJY468 LALBH	AJY486 LALBH
AJY252 LALBHH	AJY270 LALBHH	AJY288 LALBHH	AJY306 LALBHH	AJY324 LALBHH	AJY342 LALBHH	AJY360 LALBHH	AJY378 LALBHH	AJY396 LALBHH	AJY414 LALBHH				
AJY252 LNLBH	AJY270 LNLBH	AJY288 LNLBH	AJY306 LNLBH	AJY324 LNLBH	AJY342 LNLBH	AJY360 LNLBH	AJY378 LNLBH	AJY396 LNLBH	AJY414 LNLBH	AJY432 LNLBH	AJY450 LNLBH	AJY468 LNLBH	AJY486 LNLBH
AJY252 LNLBLHH	AJY270 LNLBHH	AJY288 LNLBHH	AJY306 LNLBHH	AJY324 LNLBHH	AJY342 LNLBHH	AJY360 LNLBHH	AJY378 LNLBHH	AJY396 LNLBHH	AJY414 LNLBHH				

Feature

High Efficiency

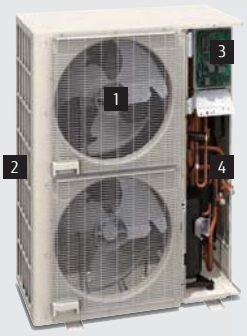
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger

DC twin rotary compressor



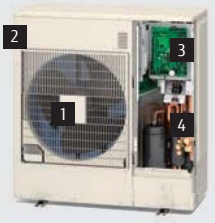
ALL DC High efficiency design with top class SEER/SCOP

All VRF series including J-IIIL series have DC technology to realize the high efficiency operation. This enhances the durability and reliability of VRF series.



J-IIIL series

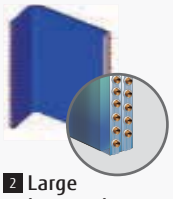
J-III series



J-IIS series

1 DC fan motor

3 DC invertor control



2 Large heat exchanger

4 Subcool heat exchanger

V-Series

1 3 phase DC fan motor

3 Sine-wave DC invertor control

2 Large heat exchanger

4 Subcool heat exchanger

Energy Saving Function

Economy operation

Economy operation can be set by remote controller. The temperature setting is offset automatically over a certain period of time.

Room temperature set point limitation

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

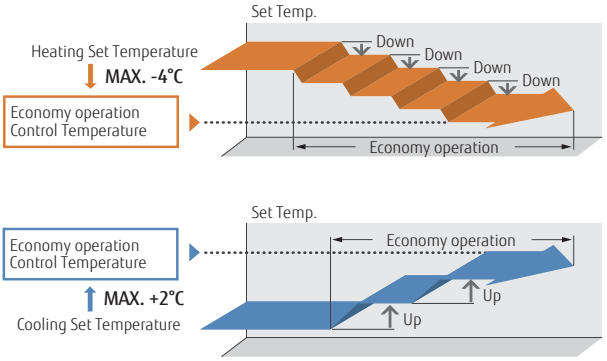
Auto-off timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.

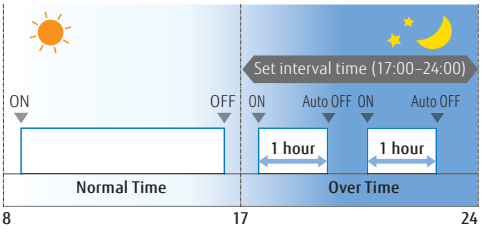
Capacity save operation

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

Room temperature set point limitation



Auto-off timer



More Comfort

Precision refrigerant flow control

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

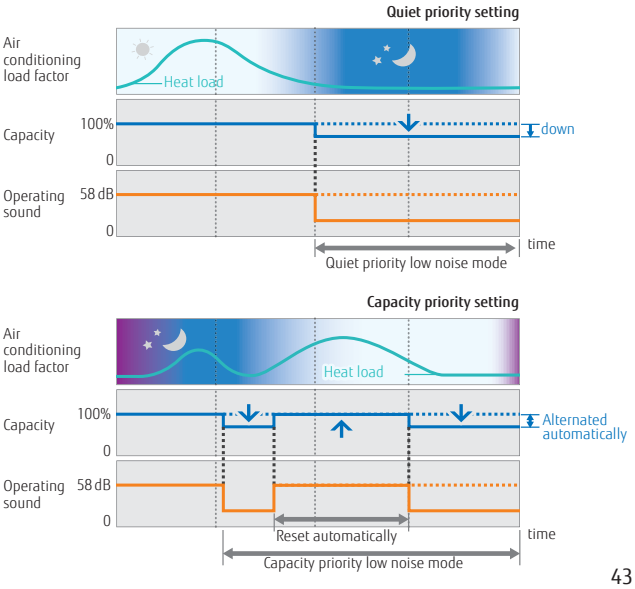
Auto changeover function

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

Quiet operation

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

Quiet operation



Design Flexibility

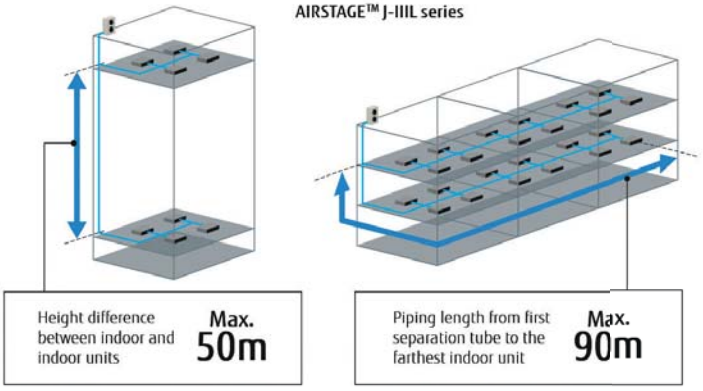
Top class Compact design

Compact outdoor unit can be attained at the top class in the industry by optimal airflow structure design. (Up to 18 HP)

Long piping design

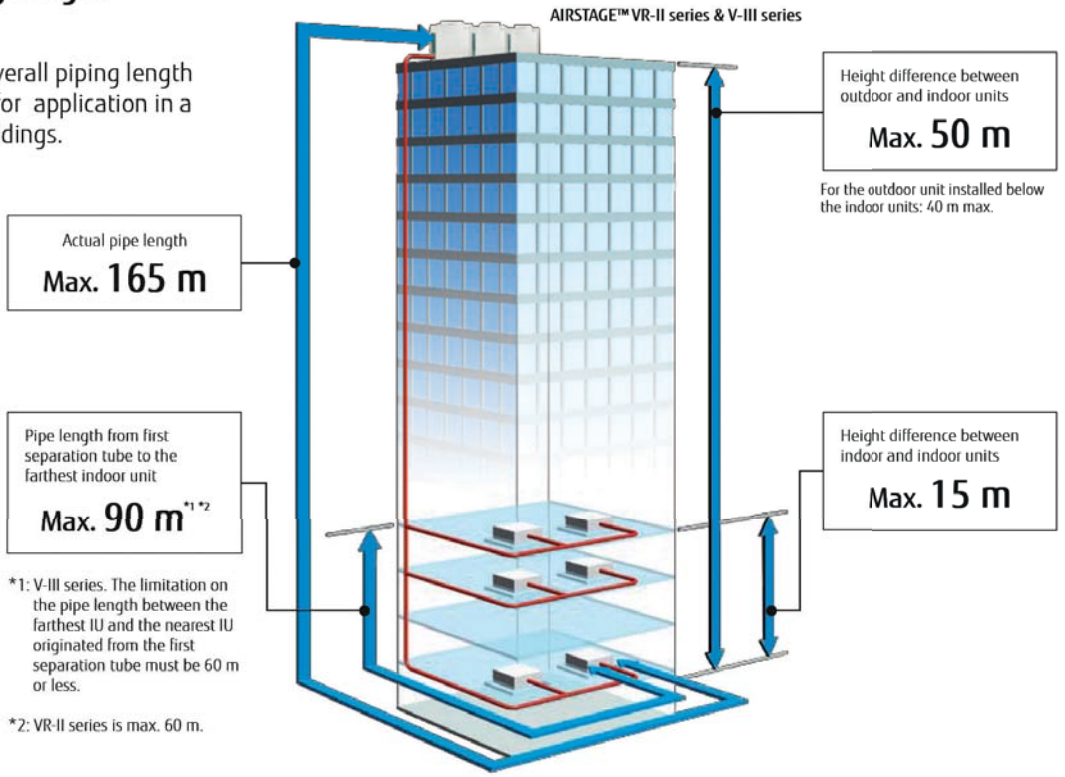
Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with depth

(AIRSTAGE™ J-IIIL series)



Overall piping length Max. 1,000 m

World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.



*1: V-III series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.

*2: VR-II series is max. 60 m.

High capacity connection

Series		Connectable indoor unit capacity range	Connectable indoor unit number
NEW	AIRSTAGE™ J-IIIL series 14/16/18 HP Heat Pump type	50% to 150%*3	up to 42*6
	AIRSTAGE™ J-IIIL series 8/10/12 HP Heat Pump type	50% to 150%*3	up to 30*7
	AIRSTAGE™ J-III series Heat Pump type	50% to 150%*3	up to 13*8
	AIRSTAGE™ J-IIS series Heat Pump type	50%*4 to 130%*3	up to 8
	AIRSTAGE™ V-III series Heat Pump Modular type	50% to 150%*5	up to 64

*3: Conditions of maximum connectable indoor unit capacity ratio is as the chart.
*4: Only 4 HP is 46%
*5: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.
*6: J-IIIL series 18 HP model only.
*7: J-IIIL series 12 HP model only.
*8: J-III series 6 HP model only.

Designed for low refrigerant charge

Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m².

Various optional parts

- Intake fresh air with our Fresh Air Intake kit
- Comfortable temperature control with a remote sensor
- Operation by linking up to ventilation equipment and air handling unit with the DX-Kit

Fresh Air Intake kit

EEV unit

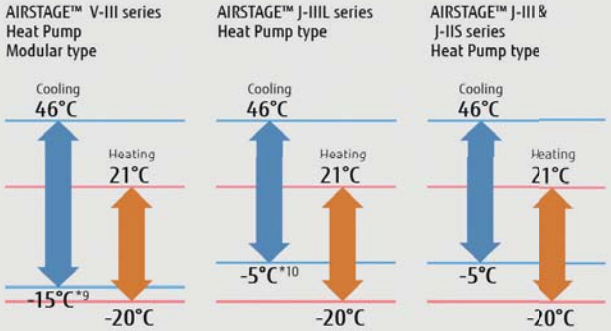
Control unit

Low ambient operation

Refrigeration cycle technology allows cooling operation even at -15°C.

Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

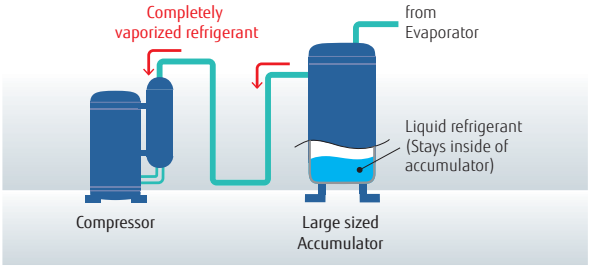


*9: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.
*10: Only when all indoor units are 5.6 kW or more in the system, the operation range is -15°C to 46°C.

High Reliability

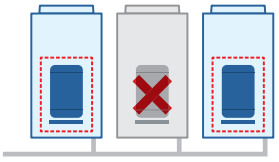
Liquid flow back protection

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



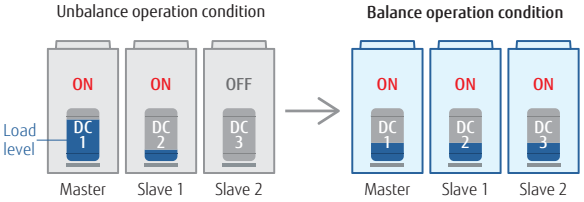
Backup operation

If one compressor fails, backup operation will be performed by the remaining compressors.*1



Advanced refrigerant control

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

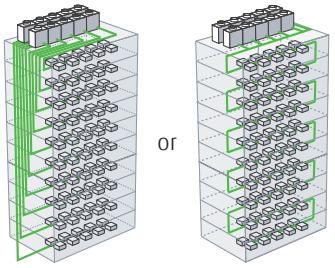


*1: Note: Backup operation may not be possible depending on the trouble state.

Easy Installation

Simple wiring work

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

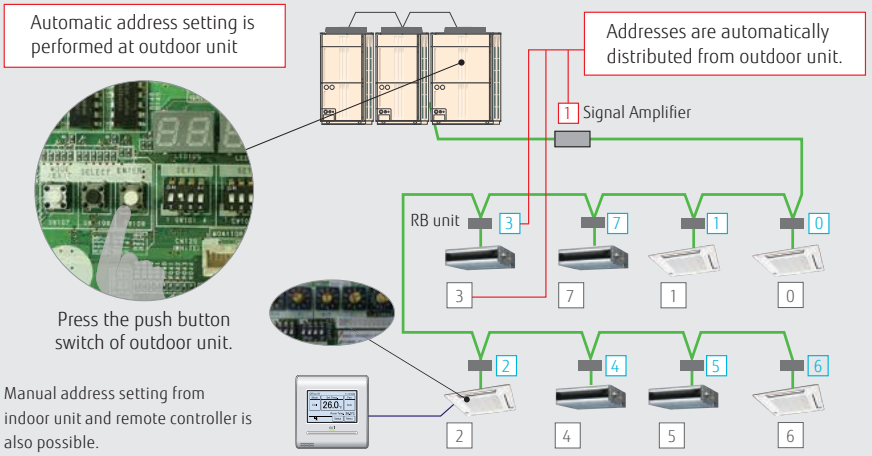


Up to maximum length
3,600 m

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

Automatic address setting

The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.



Easy Service & Maintenance

Design for easy maintenance

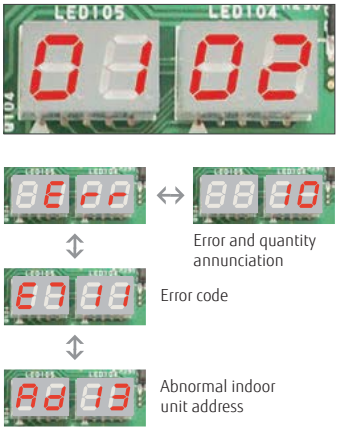
Easy to read 7-segment LED

Confirm detailed operational and error status without using any specific equipment.
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit

Movable PCB panel

Easier for maintenance work behind the PCB

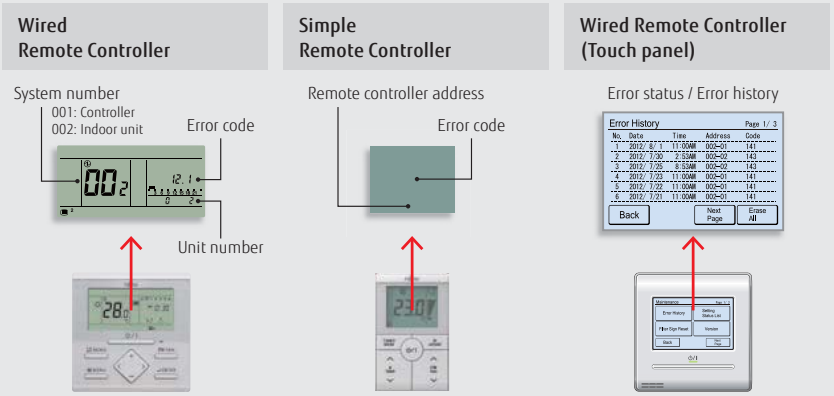
7-segment LED



- Error status can be checked easily by outdoor unit display

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

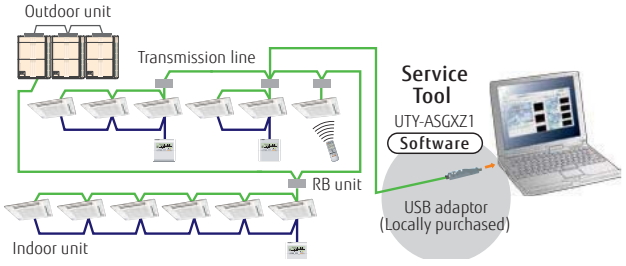
An error code is displayed on a liquid crystal screen.



Error diagnosis by Service Tool

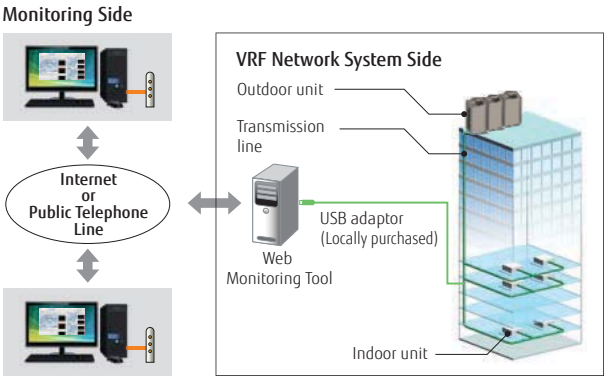
Connection to Service Tool

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



Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.
The operating VRF network system in the building can be monitored real time over the Internet.



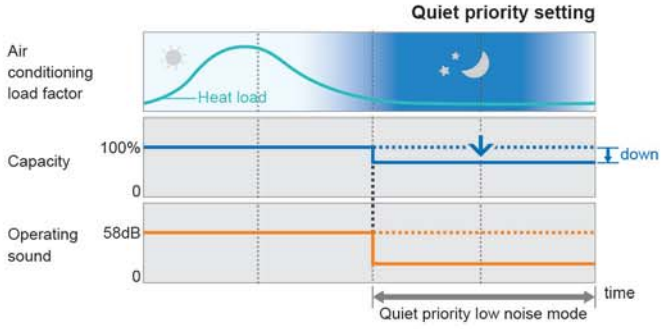
Comfort and Convenience

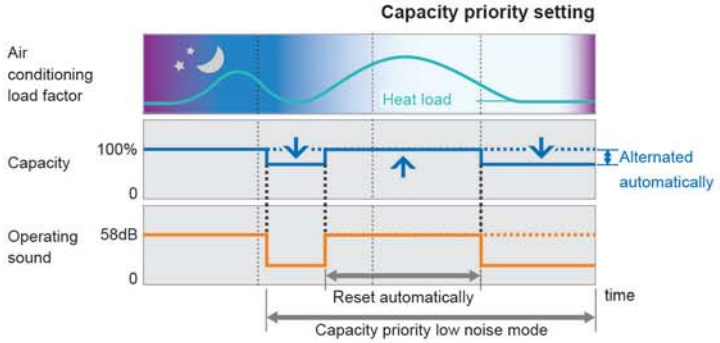
Low noise, easy operational settings, and comfortable temperature adjustment allows for V-II systems to be used in building air conditioning applications.

Quiet operation

Low noise mode

Two low noise modes can be selected automatically by quiet priorty setting and capacity priority setting depending on the usage environment and outside temperature load.





Low noise design

Compressor noise has been significantly reduced by shielding the compressor compartment.

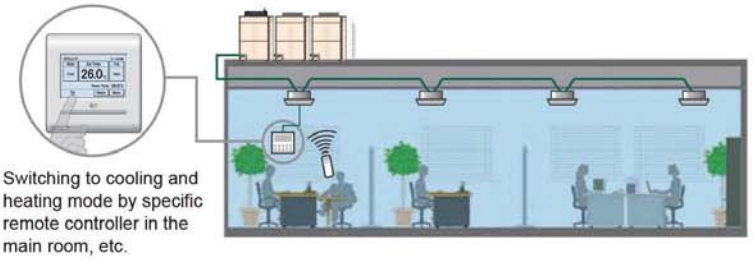
Compressor compartment

Indoor unit

Low noise indoor unit lineup

Auto changeover function

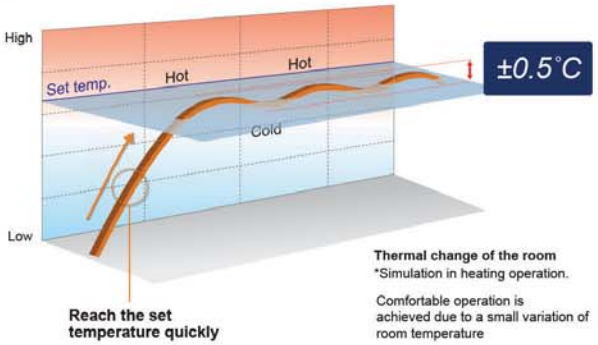
Auto changeover setting allows for the product to easily switch between cooling and heating modes regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.



Switching to cooling and heating mode by specific remote controller in the main room, etc.

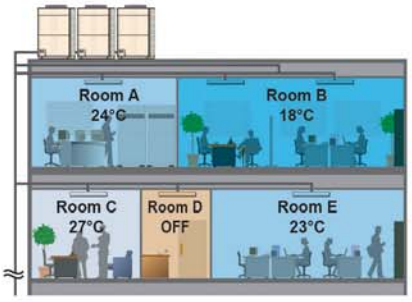
Precision refrigerant flow control

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



Individual air conditioning control

The desired temperature conditions of each room are met due to the Individual thermostat control of each indoor unit.



Simple central management function

7.5 inch large LCD Touch Panel Controller

Simple central control operation
Simple operation by icon display and color touch screen

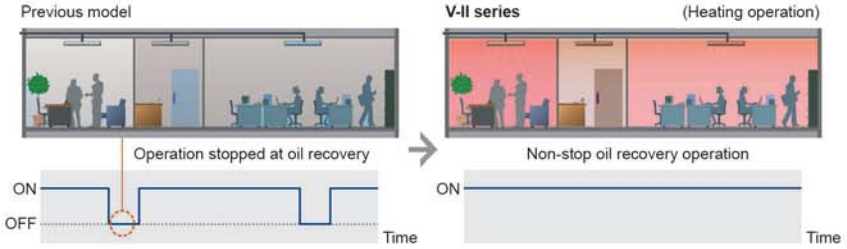
Yearly schedule function
Daily starting & stopping and temperature setting are managed.

Clock setting function
The clock of each individual controller is periodically corrected.

Schedule screen

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.



FUJITSU

Blend into the City

Slim
For Small Space
Slim Depth
480 mm
Width 1,080 mm

Compact
Appearance Oriented
Compact Height
1,428 mm
*8/10/12 HP model

Quiet
Top Class
Low Operating Sound
Sound Power Level
66 dB(A)
*8 HP model

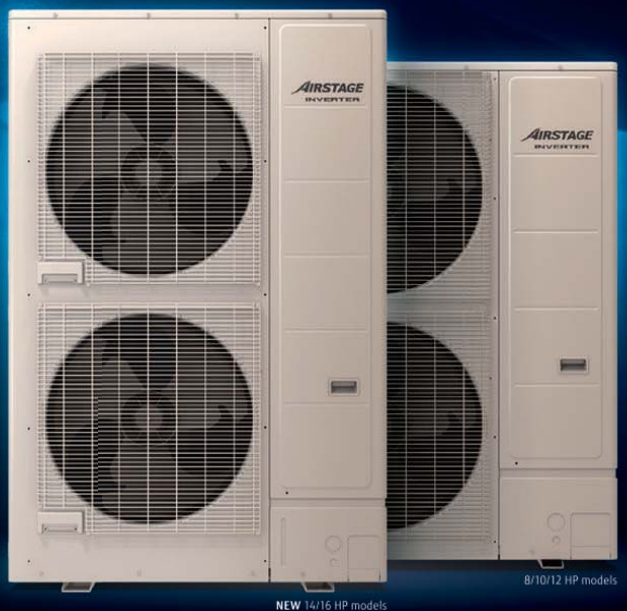
Variable Refrigerant Flow System

AIRSTAGE™ J-IIIL

NEW

14/16 HP Models
Connectable indoor unit capacity range: 50% to 150%
Connectable indoor unit number: up to 40*
*: Only J-IIIL 16 HP model

8/10/12 HP Models
Connectable indoor unit capacity range: 50% to 150%
Connectable indoor unit number: up to 30



8/10/12 HP models

NEW 14/16 HP models

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FUJITSU GENERAL LIMITED
https://www.fujitsu-general.com/

Slim & Compact Design

Inhouse installation

AIRSTAGE™ J-Series outdoor unit

AIRSTAGE™ V-Series outdoor unit

Low noise in consideration for the nearby residents

This model is front blow type and about 1000 mm wide, so flexible installation is possible even at narrow inhouse space.

Installation at building back side

AIRSTAGE™ J-Series outdoor unit

AIRSTAGE™ V-Series outdoor unit

Space saving

Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.

Installation at back street of building

AIRSTAGE™ J-Series outdoor unit

AIRSTAGE™ V-Series outdoor unit

Flexible installation

This model is front blow type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.

NEW

Heat Pump
for Small Capacity Type

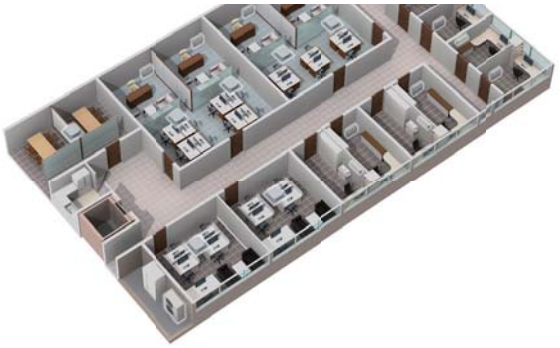
AIRSTAGE J-IIIL

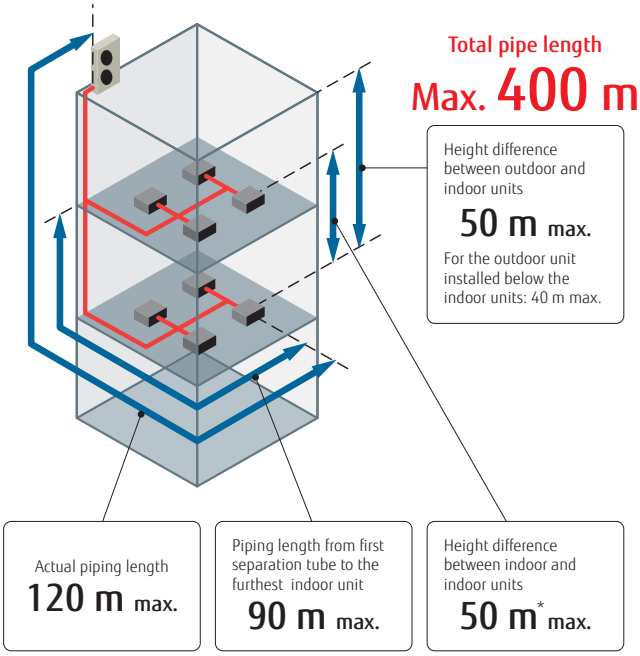
Long Piping Length

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

Up to 42 units* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 40 units. *: 18HP model





*: Only when new indoor units and J-IIIL series are combined

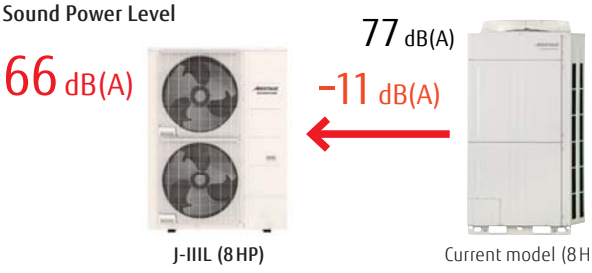
High Static Pressure

External static pressure is available up to 60Pa for 14/16HP. (20Pa for 8HP, 30Pa for 10/12HP)

Top Class Low Operating Sound

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

Sound Power Level



J-IIIL (8HP)

Current model (8HP)

8,10,12HP: AJY072LELAH / AJY090LELAH / AJY108LELAH
14,16HP: AJY126LELAH / AJY144LELAH
18HP: AJY162LELAH

NEW

8, 10, 12 HP　　14, 16, 18 HP

Specifications

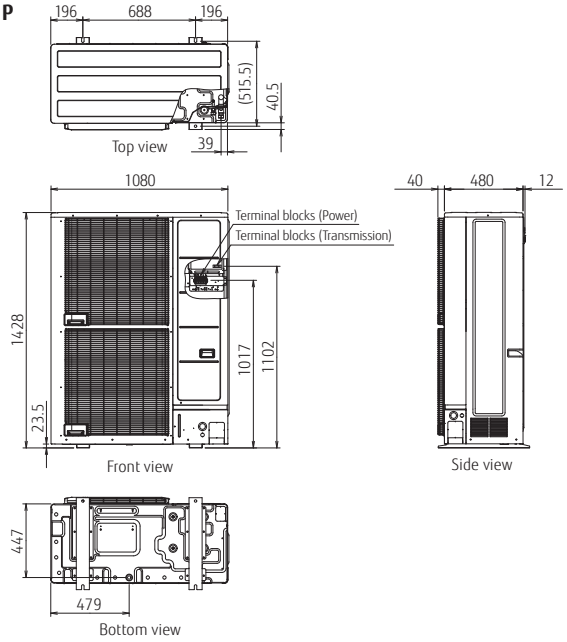
Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH	AJY162LELAH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	BTU/h	76400	95500	114000	136000	154000	171000
	Nominal Heating		76400	95500	114000	136000	154000	171000
	Max Heating		85300	107000	127000	153000	170600	187000
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96	18.52
	Nominal Heating		4.65	6.61	8.18	9.71	11.81	13.66
	Max Heating		5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling	W/W	3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating		4.82	4.24	4.10	4.12	3.81	3.66
	Max Heating		4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m^3/h	8,400	9,000	11,000	13,000	14,000	14,800/15,300
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	79
	Heating		54/—	57/—	61/—	63/—	65/—	65/68
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width		1,080	1,080	1,080	1,080	1,080	1,080
	Depth		480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A
	Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas		19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length		m	400	400	400	400	400	400
Max. height difference			50/40 (Outdoor unit: Upper/Lower)					
Operation range	Cooling	˚C	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

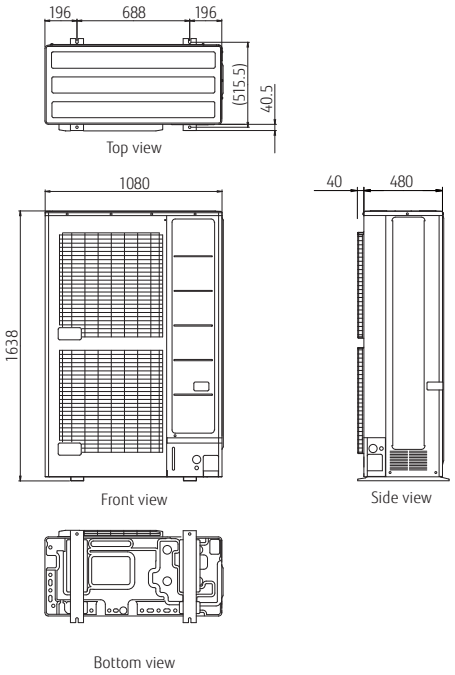
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16, 18 HP

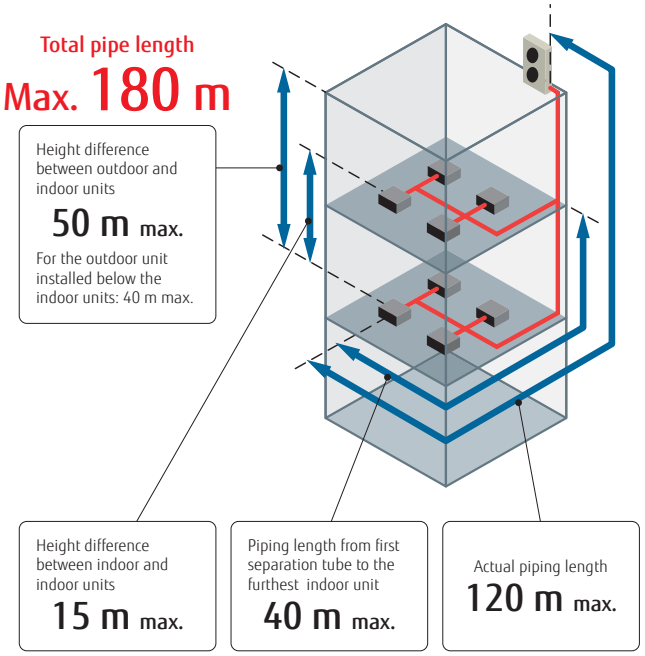


Heat Pump
for Small Capacity Type

AIRSTAGE J-III

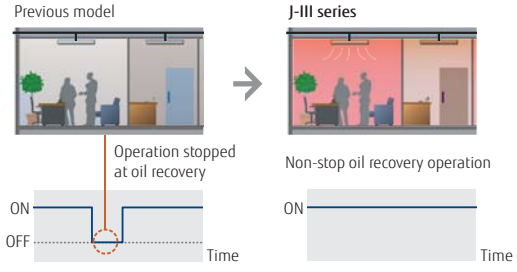
Long Piping Length

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



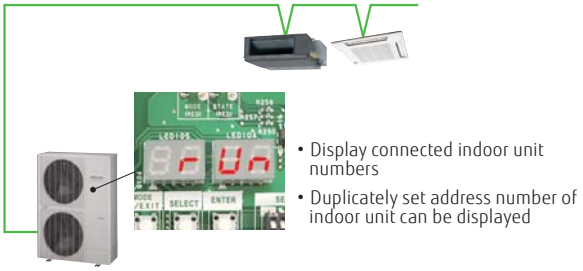
Non-stop oil recovery operation

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



Easier Installation

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



4,5,6HP : AJY040LBLAH / AJY045LBLAH / AJY054LBLAH
AJY040LELAH [3phase] / AJY045LELAH [3phase] / AJY054LELAH [3phase]

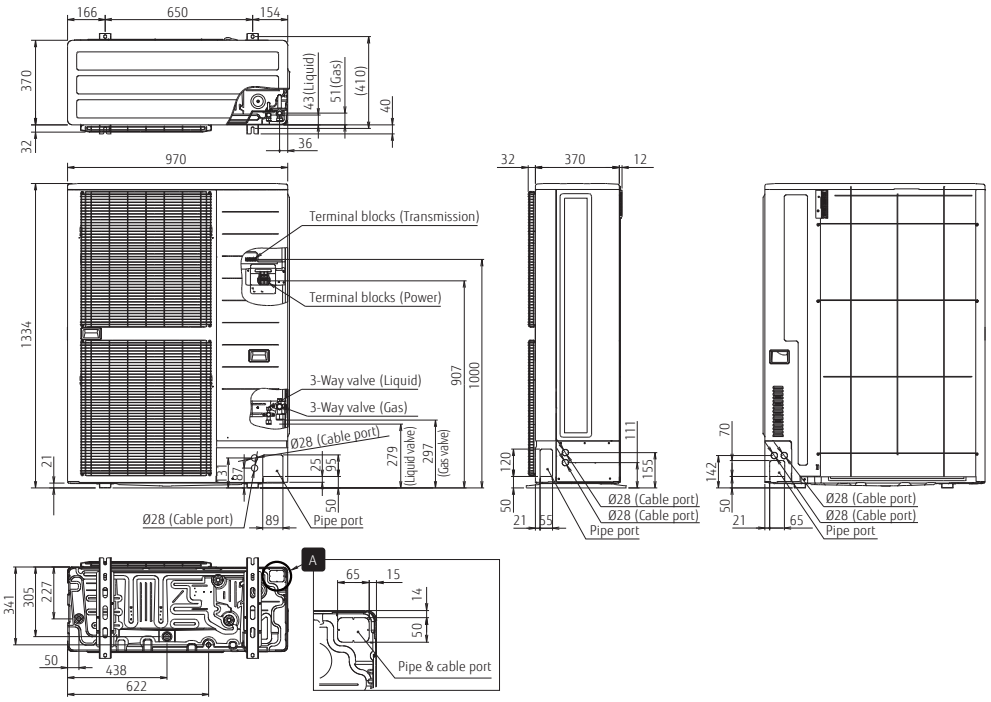
Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
Maximum Connectable Indoor Unit			1-9	1-10	1-13	1-9	1-10	1-13
Power source			Single-phase, ~230V, 50Hz			J-III 3-phase, ~400V, 50Hz		
Capacity	Cooling	BTU/h	41200	47800	52000	41200	47800	52000
	Heating		46400	54500	61400	46400	54500	61400
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	Heating		2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling	W/W	4.17	3.92	3.71	4.33	4.05	3.88
COP	Heating	W/W	4.86	4.51	4.23	5.01	4.70	4.41
Airflow rate		m^3/h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
	Heating		52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970
	Depth		370	370	370	370	370	370
Weight		kg	117	117	119	119	119	119
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		15.88	15.88	19.05	15.88	15.88	19.05
Total pipe length		m	180	180	180	180	180	180
Max. height difference			50/40 (Outdoor unit: Upper/Lower)			50/40 (Outdoor unit: Upper/Lower)		
Operation range	Cooling	℃	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

(Unit : mm)

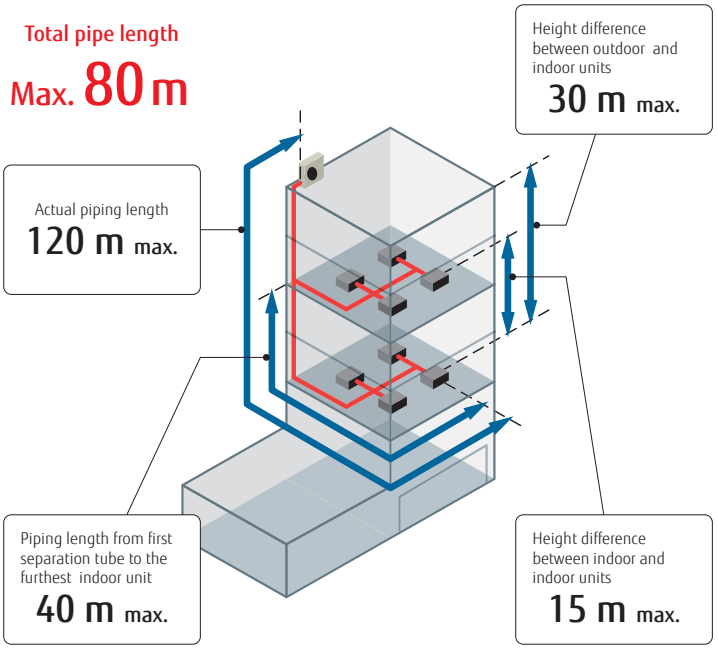


Heat Pump
for Small Capacity Type

AIRSTAGE J-IIS

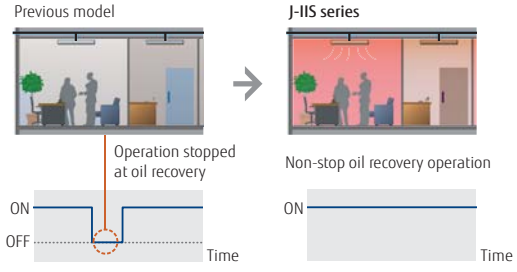
Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.



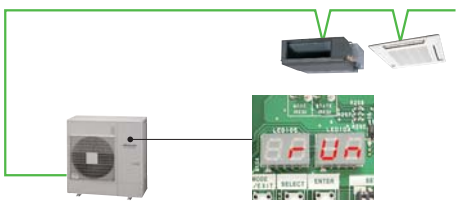
Non-stop oil recovery operation

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



Easier Installation

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



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

4,5,6HP : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

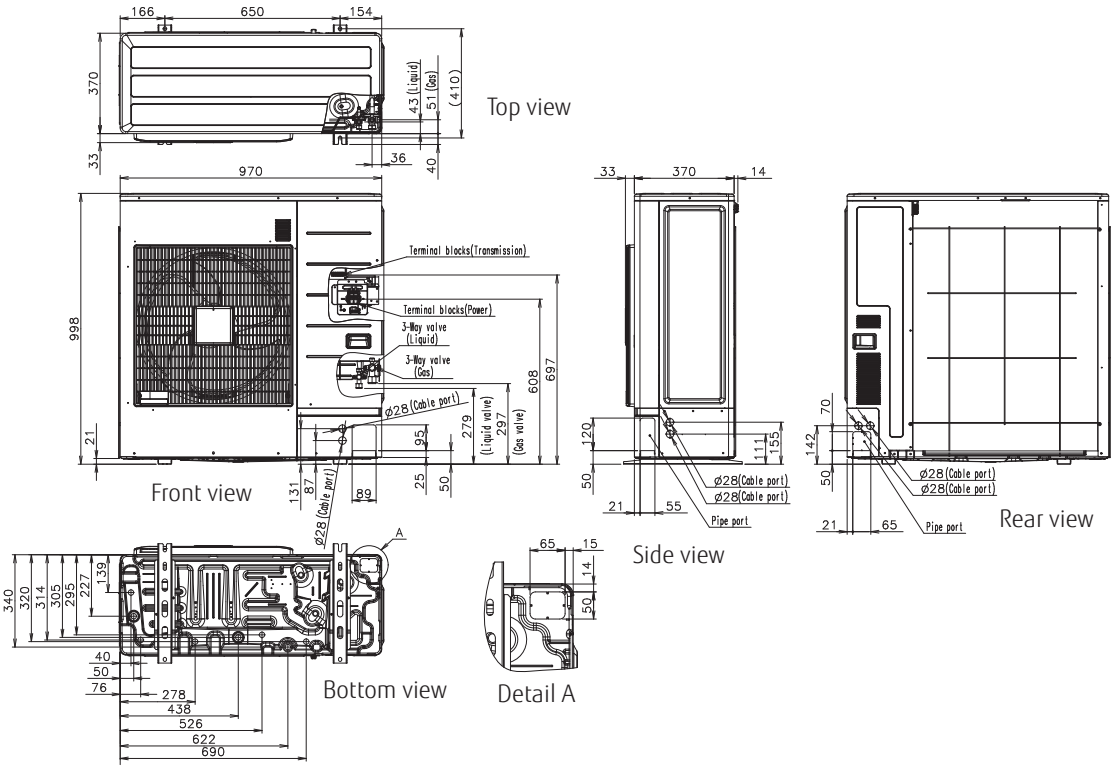
Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Connectable Indoor Unit			7	8	8
Power source			Single-phase, ~230V, 50Hz		
Capacity	Cooling	BTU/h	41200	47800	51500
	Heating		46400	54500	56200
Input power	Cooling	kW	3.44	4.43	5.03
	Heating		3.09	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Heating	W/W	4.40	4.07	4.01
Airflow rate		m^3/h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	55 / 69	56 / 70
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operation range	Cooling	℃	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

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

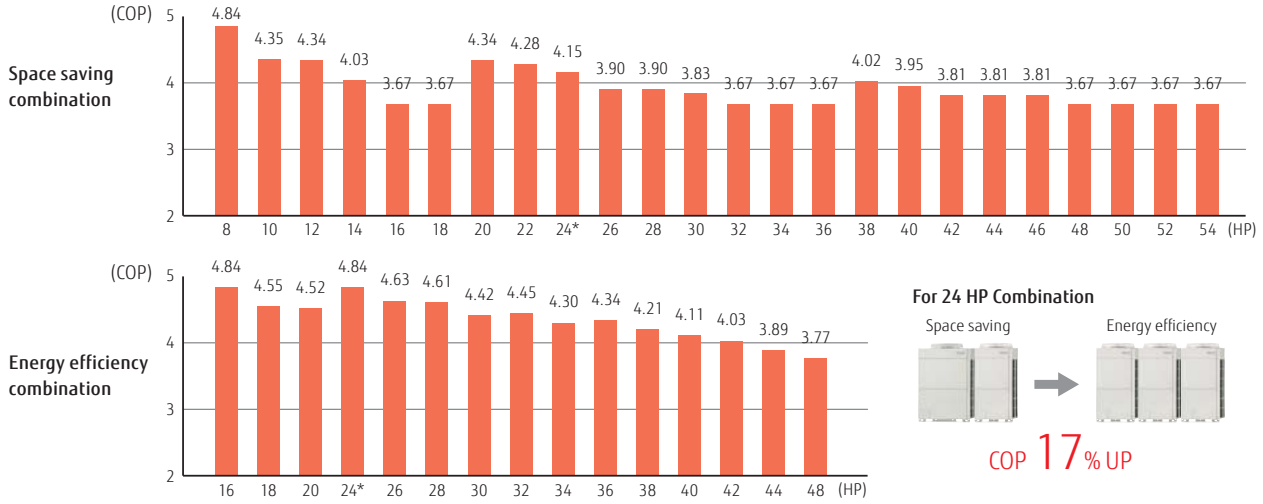
(Unit : mm)



Heat Pump
Modular Type

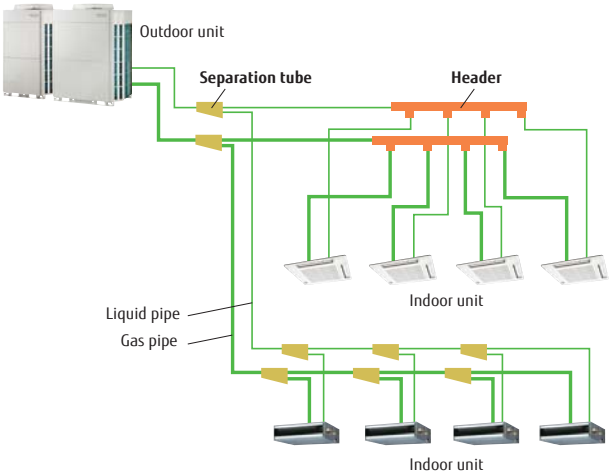
Efficiency in actual operation

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



System configuration example

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



8,10HP: AJY072LALBH / AJY090LALBH
12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH

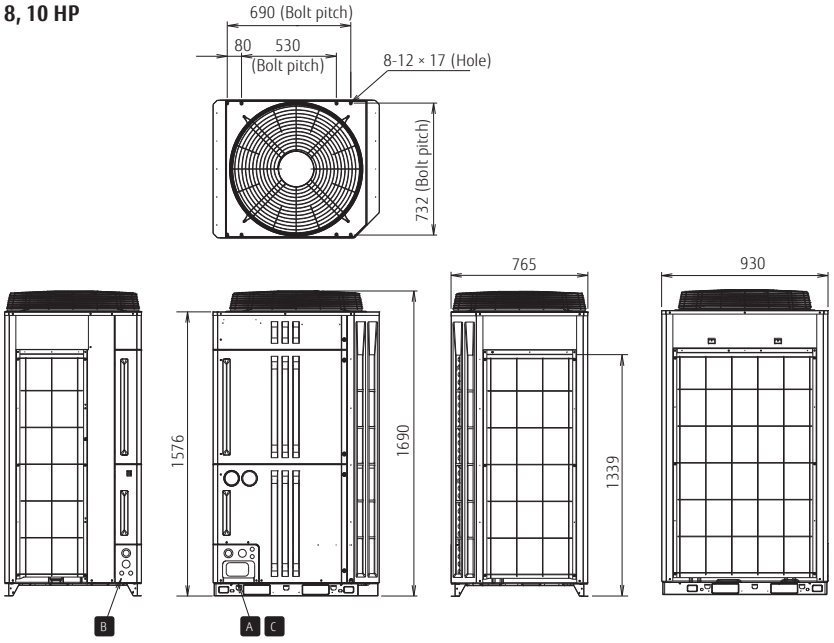
8, 10 HP

12, 14, 16, 18 HP

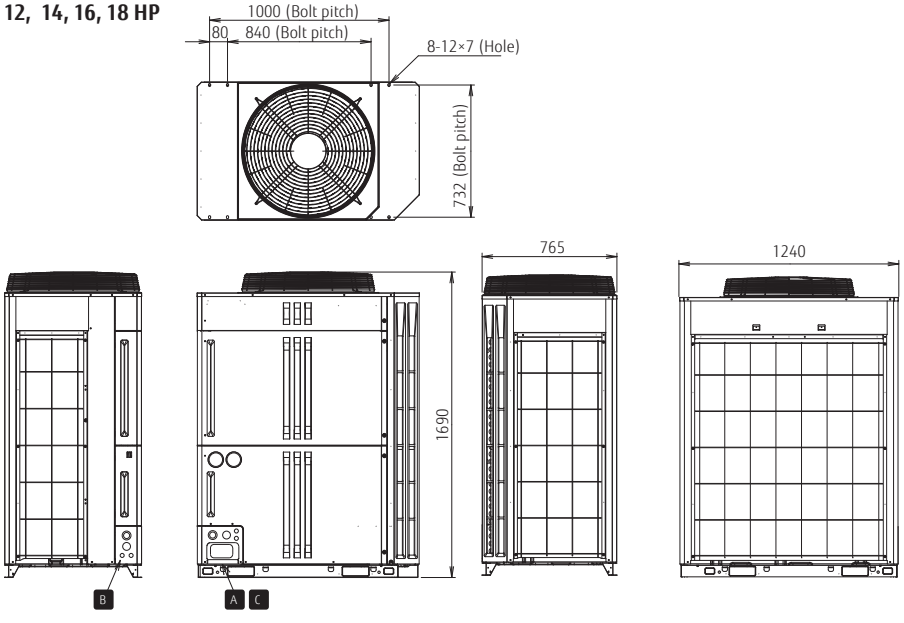
Dimensions

(Unit : mm)

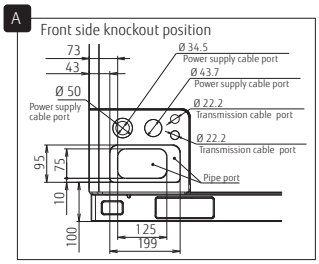
8, 10 HP



12, 14, 16, 18 HP



A



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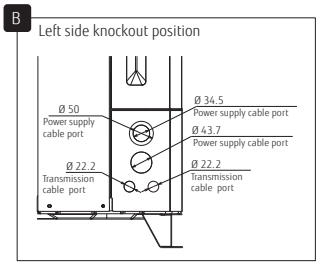
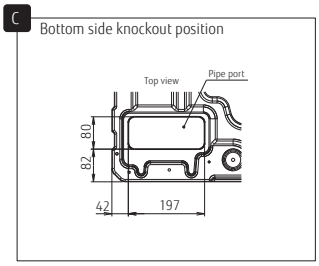


C



Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28
Set Model name			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH
Unit 1 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY090LALBH AJY090LALBH	AJY126LALBH AJY072LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090LALBH	AJY162LALBH AJY090LALBH
Maximum Connectable Indoor Unit*1			17	21	26	30	34	39	43	47	52	56	60
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5
Power source			3-phase 4 wire, 400 V, 50Hz										
Capacity	Cooling	BTU/h	76400	95500	114000	136000	154000	171000	191000	212900	232000	249400	266500
	Heating		85300	107000	127000	153000	170600	170600	214000	238000	261000	278000	278000
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
	Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
COP	Heating	W/W	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
Airflow rate	High	m^3/h	11,100	11,100	13,000	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,000+11,100	13,700+11,100
Sound pressure level*2/ Power level	Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
	Heating		58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930
	Depth		765	765	765	765	765	765	765	765	765	765	765
Weight		kg	252	252	275	275	275	275	252×2	275+252	275+252	275+252	275+252
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range		HP	16	18	20	24	26	28	30
Set Model name			AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH
Unit 1 Unit 2 Unit 3			AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH	AJY108LALBH AJY072LALBH	AJY072LALBH AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH AJY072LALBH	AJY108LALBH AJY072LALBH AJY072LALBH	AJY126LALBH AJY072LALBH AJY072LALBH
Maximum Connectable Indoor Unit*1			34	39	43	52	56	60	64
Indoor unit connectable capacity		kW	22.4-67.2	25.2-75.6	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz						
Capacity	Cooling	BTU/h	152800	171900	190700	229200	248300	267100	289300
	Heating		170600	192800	213200	255900	278000	298500	324000
Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
	Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
COP	Heating	W/W	4.84	4.55	4.52	4.84	4.63	4.61	4.42
Airflow rate	High	m^3/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,000×3	13,000+11,100×2	13,000+11,100×2
Sound pressure level*2/ Power level	Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84
	Heating		61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87
Maximum external static pressure		Pa	82	82	82	82	82	82	82
Compressor motor output		kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2
	Depth		765	765	765	765	765	765	765
Weight		kg	252×2	252×2	275+252	252×3	252×3	275+252×2	275+252×2
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.7×2 (24.4×2)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.7×3 (24.4×3)	11.7×3 (24.4×3)	11.8+11.7×2 (24.6+24.4×2)	11.8+11.7×2 (24.6+24.4×2)
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

30	32	34	36	38	40	42	44	46	48	50	52	54
AJY270LALBH	**AJY288LALBH**	**AJY306LALBH**	**AJY324LALBH**	**AJY342LALBH**	**AJY360LALBH**	**AJY378LALBH**	**AJY396LALBH**	**AJY414LALBH**	**AJY432LALBH**	**AJY450LALBH**	**AJY468LALBH**	**AJY486LALBH**
AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH	AJY162LALBH AJY090LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY162LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY162LALBH
64	64	64	64	64	64	64	64	64	64	64	64	64
42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5
3-phase 4 wire, 400 V, 50Hz												
290500	308000	325000	342000	362000	386000	403500	420500	437500	462000	479000	496000	513000
324000	341000	341000	341000	385500	431000	448000	448000	448000	511800	511800	511800	511800
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	13,700+13,000+11,100	13,700×2+11,100	13,700×2+11,100	13,700×2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2	1,240×2	1,240×2	1,240×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765	765
275×2	275×2	275×2	275×2	275+252×2	275×2+252	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3	275×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	38	40	42	44	46
AJY288LALBHH	**AJY306LALBHH**	**AJY324LALBHH**	**AJY342LALBHH**	**AJY360LALBHH**	**AJY378LALBHH**	**AJY396LALBHH**	**AJY414LALBHH**
AJY108LALBH AJY108LALBH AJY072LALBH	AJY126LALBH AJY108LALBH AJY072LALBH	AJY108LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY144LALBH AJY126LALBH
64	64			64	64	64	64
44.7-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5	65.0-195.0
3-phase 4 wire, 400 V, 50Hz							
305000	327200	342900	365100	387300	409500	427000	444000
341000	366800	383500	409500	435000	460750	477600	494700
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3	13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000
61 / 82	63 / 84	63 / 83	64 / 84	64 / 85	65 / 88	66 / 87	66 / 87
64 / 87	65 / 88	65 / 88	65 / 88	66 / 88	67 / 89	68 / 90	68 / 90
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765
275×2+252	275×2+252	275×3	275×3	275×3	275×3	275×3	275×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*1 Minimum connectable indoor unit number is 2.
However ARXC72 and ARXC90 can be used signal connection.

*2 The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

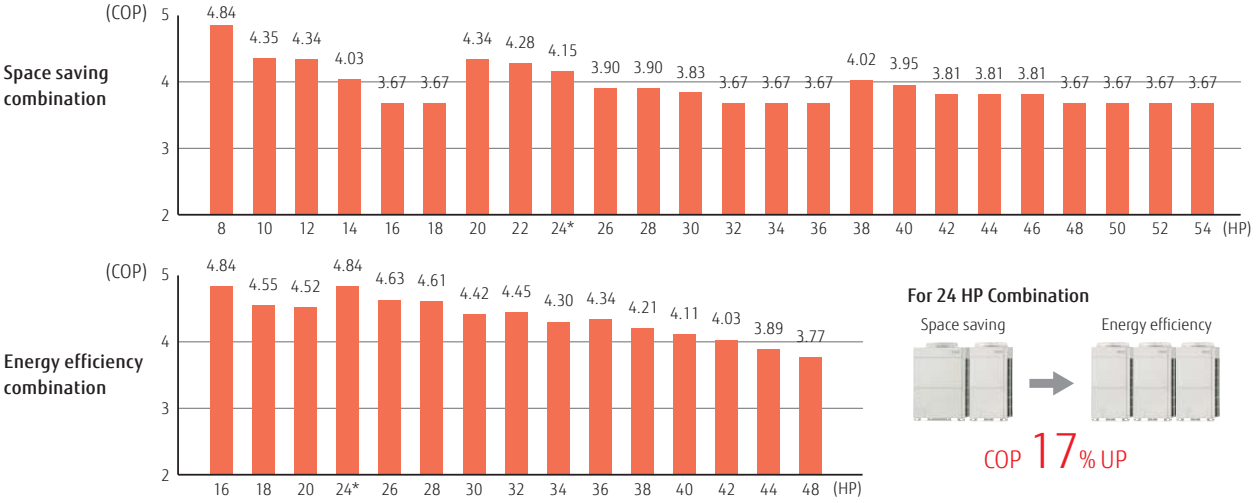
Heat Pump
Modular Type

AIRSTAGE V-III

TROPICAL SPEC

Efficiency in actual operation

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



For 24 HP Combination

Space saving → Energy efficiency

COP 17% UP

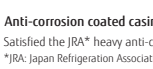
Heavy anti-corrosion treatment design

Anti-corrosion coated casing parts
Satisfied the JRA* heavy anti-corrosion regulation(4002)
*JRA: Japan Refrigeration Association

PCB and Electronic components

High ambient temperature compatible electric components. Added silicon coating on all PCB circuits for anti-corrosion.

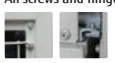
Blue fin heat exchanger



Hydrophilic coating
Cobalt Blue protection
Aluminium base material
Cobalt Blue protection
Hydrophilic coating

High ambient & corrosion compatible
PCB componets
Refrigerant cycle component

All screws and hinges

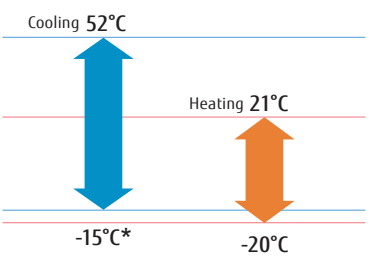


Added zinc chrome acid film treatment.

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

Cooling operation
up to 52°C
ambient



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

8,10HP : AJY072LNLBH / AJY090LNLBH
12,14,16,18HP : AJY108LNLBH / AJY126LNLBH / AJY144LNLBH / AJY162LNLBH

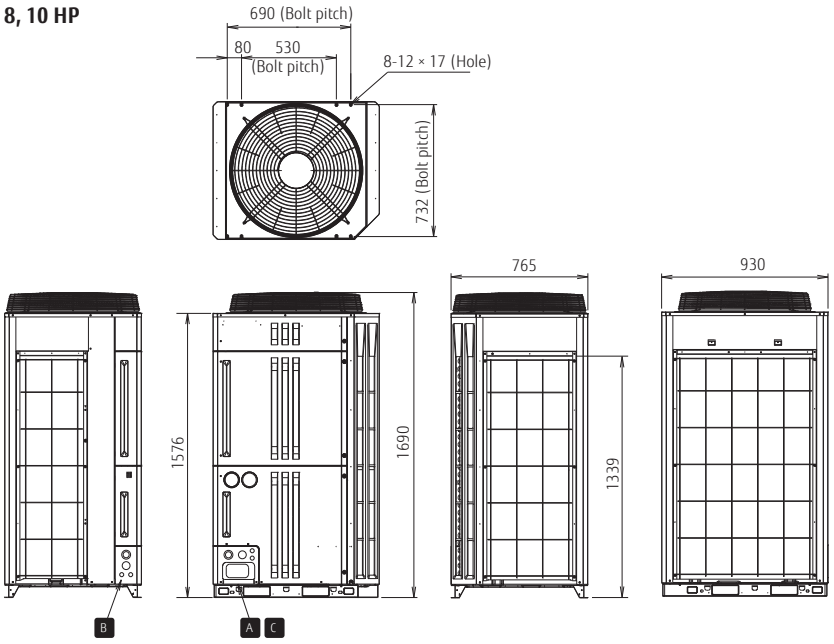
8, 10 HP

12, 14, 16, 18 HP

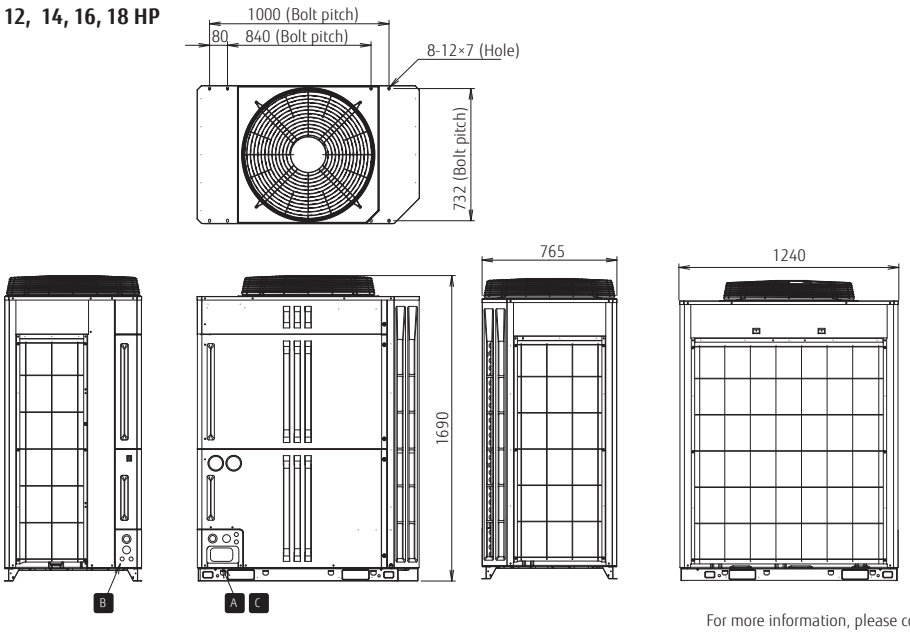
Dimensions

(Unit : mm)

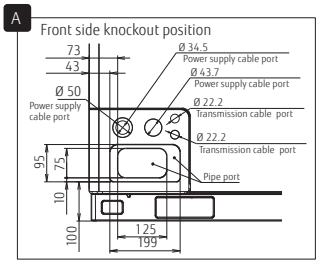
8, 10 HP



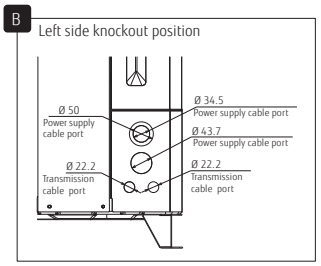
12, 14, 16, 18 HP



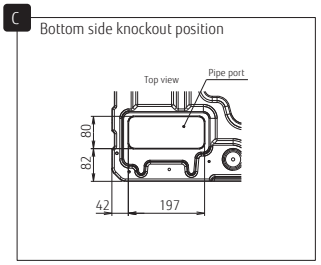
A



B



C



Outdoor units specifications

Space Saving Combination

Rating Capacity range			HP	8	10	12	14	16	18	20	22	24	26	28
Set Model name				AJY072LNLBH	AJY090LNLBH	AJY108LALBH	AJY126LNLBH	AJY144LNLBH	AJY162LNLBH	AJY180LNLBH	AJY198LNLBH	AJY216LNLBH	AJY234LNLBH	AJY252LNLBH
Unit 1 Unit 2 Unit 3				AJY072LNLBH	AJY090LNLBH	AJY108LALBH	AJY126LNLBH	AJY144LNLBH	AJY162LNLBH	AJY090LNLBH AJY090LNLBH	AJY126LNLBH AJY072LNLBH	AJY126LNLBH AJY090LNLBH	AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY090LNLBH
Maximum Connectable Indoor Unit				13	16	19	23	26	29	33	36	40	43	46
Indoor unit connectable capacity		Cooling	kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4
Power source				3-phase 4 wire, 400 V, 50Hz										
T1 condition	Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0
		Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
		Cooling	Btu/h	76400	95500	114000	136000	154000	171000	191000	212400	231500	249500	266500
		Heating		85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100
	Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
		Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
	Current	Cooling	A	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-
		Heating		9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-
	EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
	COP	Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
	EER	Cooling	Btu/h/W	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2
	COP	Heating		16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3
T3 condition	Capacity	Cooling	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4
			Btu/h	68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100
	Input power		kW	6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.55
	Current		A	10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-
	EER	Cooling	W/W	3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.80
			Btu/h/W	10.23	9.35	10.40	10.20	10.14	9.72	9.35	10.21	9.81	9.79	9.56
Power factor			%	90	92	92	92	92	93	-	-	-	-	-
Airflow rate		High	m^3/h	11100	11100	13000	13000	13700	13700	11100×2	13000+11100	13000+11100	13700+11100	13700+11100
Sound pressure level / Power level		Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
		Heating		58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87
External static pressure (Max)			Pa	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output			kW	7.5	7.5	11	11	11	11	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height		mm	1690	1690	1690	1690	1690	1690	1690×2	1690×2	1690×2	1690×2	1690×2
	Width			930	930	1240	1240	1240	1240	930×2	1240+930	1240+930	1240+930	1240+930
	Depth			765	765	765	765	765	765	765×2	765×2	765×2	765×2	765×2
Weight			kg	255	255	279	279	279	279	255×2	279+255	279+255	279+255	279+255
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)
Connection pipe diameter	Liquid		mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas			22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling		°CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range			HP	16	18	20	24	26	28	30
Set Model name				AJY144LNLBHH	AJY162LNLBHH	AJY180LNLBHH	AJY216LNLBHH	AJY234LNLBHH	AJY252LNLBHH	AJY270LNLBHH
Unit 1 Unit 2 Unit 3				AJY072LNLBH AJY072LNLBH	AJY090LNLBH AJY072LNLBH	AJY108LNLBH AJY072LNLBH	AJY072LNLBH AJY072LNLBH AJY072LNLBH	AJY090LNLBH AJY072LNLBH AJY072LNLBH	AJY108LNLBH AJY072LNLBH AJY072LNLBH	AJY126LNLBH AJY072LNLBH AJY072LNLBH
Maximum Connectable Indoor Unit				26	29	33	39	43	46	50
Indoor unit connectable capacity		Cooling	kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2
Power source				3N ~ 400V, 50/60Hz						
T1 condition	Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8
		Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0
		Cooling	Btu/h	152800	171900	190700	229200	248300	267100	289300
		Heating		170600	192800	213300	255900	278100	298600	324100
	Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
		Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
	Current	Cooling	A	-	-	-	-	-	-	-
		Heating		-	-	-	-	-	-	-
	EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
	COP	Heating		4.84	4.55	4.52	4.84	4.63	4.61	4.42
	EER	Cooling	Btu/h/W	14.7	13.8	13.5	14.7	14.0	13.8	13.5
	COP	Heating		16.5	15.5	15.4	16.5	15.8	15.7	15.1
T3 condition	Capacity	Cooling	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4
			Btu/h	137800	154900	166100	206700	223800	235000	247000
	Input power		kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17
	Current		A	-	-	-	-	-	-	-
	EER	Cooling	W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00
			Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22
Power factor			%	-	-	-	-	-	-	-
Airflow rate		High	m^3/h	11100×2	11100×2	13000+11100	11100×3	11100×3	13000+11100×2	13000+11100×2
Sound pressure level / Power level		Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84
		Heating		61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87
External static pressure (Max)			Pa	82	82	82	82	82	82	82
Compressor motor output			kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height		mm	1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3
	Width			930×2	930×2	1240+930	930×3	930×3	1240+930×2	1240+930×2
	Depth			765×2	765×2	765×2	765×3	765×3	765×3	765×3
Weight			kg	255×2	255×2	279+255	255×3	255×3	279+255×2	279+255×2
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	11.7×2 (24.4×2)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.7×3 (24.4×3)	11.7×3 (24.4×3)	11.8+11.7×2 (24.6+24.4×2)	11.8+11.7×2 (24.6+24.4×2)
Connection pipe diameter	Liquid		mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas			28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling		°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB
Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.

30	32	34	36	38	40	42	44	46	48	50	52	54
AJY270LNLBH	**AJY288LNLBH**	**AJY306LNLBH**	**AJY324LNLBH**	**AJY342LNLBH**	**AJY360LNLBH**	**AJY378LNLBH**	**AJY396LNLBH**	**AJY414LNLBH**	**AJY432LNLBH**	**AJY450LNLBH**	**AJY468LNLBH**	**AJY486LNLBH**
AJY144LNLBH AJY126LNLBH	AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH	AJY162LNLBH AJY090LNLBH AJY090LNLBH	AJY144LNLBH AJY126LNLBH AJY090LNLBH	AJY144LNLBH AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY162LNLBH AJY090LNLBH	AJY144LNLBH AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH AJY162LNLBH
50	53	55	55	55	55	55	55	55	55	55	55	55
42.5-110.5	45-117	47.5-123.5	50-130	53-137.8	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195
3N ~ 400V, 50/60Hz												
85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
290000	308000	325000	342000	362000	385500	403500	420500	437500	462000	479000	496000	513000
324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
12.1	11.8	11.0	10.3	11.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
13.1	12.5	12.5	12.5	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
67.1	70.2	70.3	70.4	85.6	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
229000	239600	239900	240200	292100	315000	325600	325900	326200	359400	359700	360000	360300
22.52	23.64	24.17	24.70	30.75	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
-	-	-	-	-	-	-	-	-	-	-	-	-
2.98	2.97	2.91	2.85	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85
10.17	10.14	9.93	9.72	9.50	9.93	9.92	9.77	9.62	10.14	10.00	9.86	9.72
-	-	-	-	-	-	-	-	-	-	-	-	-
13700+13000	13700×2	13700×2	13700×2	13700+11100×2	13700+13000+11100	13700×2+11100	13700×2+11100	13700×2+11100	13700×3	13700×3	13700×3	13700×3
64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690×2	1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
1240×2	1240×2	1240×2	1240×2	1240+930×2	1240×2+930	1240×2+930	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3
765×2	765×2	765×2	765×2	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
279×2	279×2	279×2	279×2	279+255×2	279×2+255	279×2+255	279×2+255	279×2+255	279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	38	40	42	44	46
AJY288LNLBHH	**AJY306LNLBHH**	**AJY324LNLBHH**	**AJY342LNLBHH**	**AJY360LNLBHH**	**AJY378LNLBHH**	**AJY396LNLBHH**	**AJY414LNLBHH**
AJY108LNLBH AJY108LNLBH AJY072LNLBH	AJY126LNLBH AJY108LNLBH AJY072LNLBH	AJY108LNLBH AJY108LNLBH AJY108LNLBH	AJY126LNLBH AJY108LNLBH AJY108LNLBH	AJY126LNLBH AJY126LNLBH AJY108LNLBH	AJY126LNLBH AJY126LNLBH AJY126LNLBH	AJY144LNLBH AJY126LNLBH AJY126LNLBH	AJY144LNLBH AJY144LNLBH AJY126LNLBH
52	55	55	55	55	55	55	55
44.7-116.2	48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169
3-phase 4 wire, 400 V, 50Hz							
89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
305000	327200	342900	365100	387300	409500	427000	444000
341300	366800	384000	409500	435000	460500	477600	494700
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
77.2	80.7	85.5	89.0	92.5	96.0	99.1	102.2
263300	275300	291600	303600	315600	327600	338200	348800
25.42	26.78	28.03	29.39	30.75	32.11	33.22	34.34
-	-	-	-	-	-	-	-
3.04	3.01	3.05	3.03	3.01	2.99	2.98	2.98
10.36	10.28	10.40	10.33	10.26	10.20	10.18	10.16
-	-	-	-	-	-	-	-
13000×2+11100	13000×2+11100	13000×3	13000×3	13000×3	13000×3	13700+13000×2	13700×2+13000
61 / 82	63 / 84	62 / 83	63 / 84	64 / 85	65 / 88	66 / 87	66 / 87
64 / 87	65 / 88	65 / 88	66 / 88	66 / 88	67 / 89	68 / 90	68 / 90
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3	1240×3	1240×3
765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

VRF Indoor Unit Lineup

Capacity range (kW)		2.2	2.8	3.6	4.5	5.6
Model code		7	9	12	14	18
Cassette	NEW Compact Grid type / Standard type	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH
	4-way Flow Slim type					AUXD18GALH
	4-way Flow Large type					
	Circular Flow Slim type					AUXM018GALH
	Circular Flow Large type					AUXK018GALH
	Slim Duct (With drain pump)	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH
	Low Static Pressure Duct	ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH
	Medium Static Pressure Duct					
	High Static Pressure Duct					
Floor	Floor (*Same as Ceiling models)			ABYA12GATH	ABYA14GATH	ABYA18GATH
	Slim Concealed Floor (*Same as Slim Duct models)	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH
Floor/Ceiling				ABYA12GATH	ABYA14GATH	ABYA18GATH
Wall Mounted	Wall Mounted	ASYA007GTAH	ASYA009GTAH	NEW ASYA012GCAH	NEW ASYA014GCAH	ASYA018GBCH

Energy Recovery Ventilator rang

Energy Recovery Ventilator provides fresh air to maintain a consistent in door temperature & humidity, and creates more comfortable environment. 5 models

Airflow rate (m³/h)	250	350	500	800	1000
Model code	025	035	050	080	100
Energy Recovery Ventilator	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B

7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
24	30	34	36	45	54	60	72	90	96
AUXB24GALH									
AUXD24GALH									
	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH				
AUXM024GALH	AUXM030GALH								
AUXK024GALH	AUXK030GALH	AUXK034GALH	AUXK036GALH	AUXK045GALH	AUXK054GALH				
ARXD24GALH									
ARXB24GALH	ARXB30GALH		ARXB36GALH	ARXB45GALH					
ARXA24GALH	ARXA30GALH		ARXA36GALH	ARXA45GALH					
			ARXC36GATH	ARXC45GATH		ARXC60GATH	ARXC72GATH	ARXC90GATH	ARXC96GATH
ABYA24GATH									
ARXD24GALH									
ABYA24GATH	ABYA30GATH		ABYA36GATH	ABYA45GATH	ABYA54GATH				
ASYA024GBCH	ASYA030GTAH	ASYA034GTAH							

Outdoor Air Unit range

The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.

Airflow rate (m³/h)	1080	1680	2100
Model code	054	072	096
Outdoor Air Unit	ARXH054GTAH	ARXH072GTAH	ARXH096GTAH

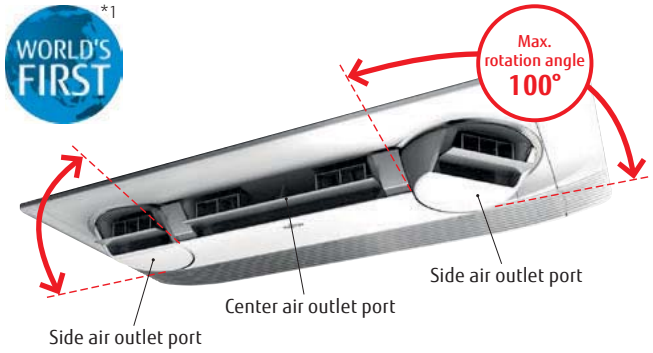
NEW

3D Flow Cassette

Model:
AUXS018GLEH / AUXS024GLEH

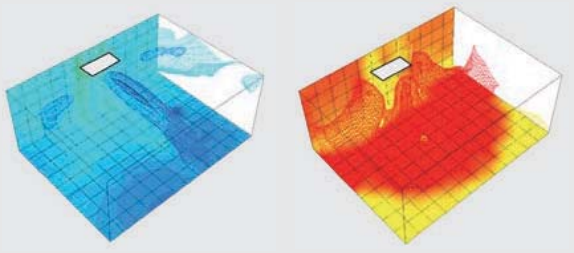
3 Air Outlet Ports can be controlled individually

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



*1: Announced 2018. In room air conditioner for the home (our company's investigation)

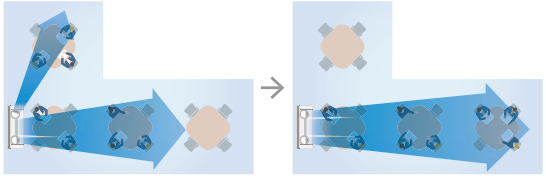
Temperature distribution during cooling and heating
(when set to comfortable airflow)



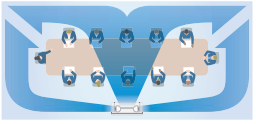
Cooling
When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS024GLEH

Heating
When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS024GLEH

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



Suitably setting the side air outlet ports to match how the space is used achieves air conditioning with no waste.



Optimum airflow control for improved comfort is achieved even for long rooms.

Wired Remote Controller (Touch Panel) UTY-RNRYZ3

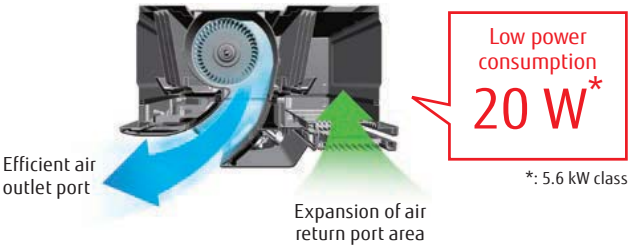
Individual air outlet port control

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

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

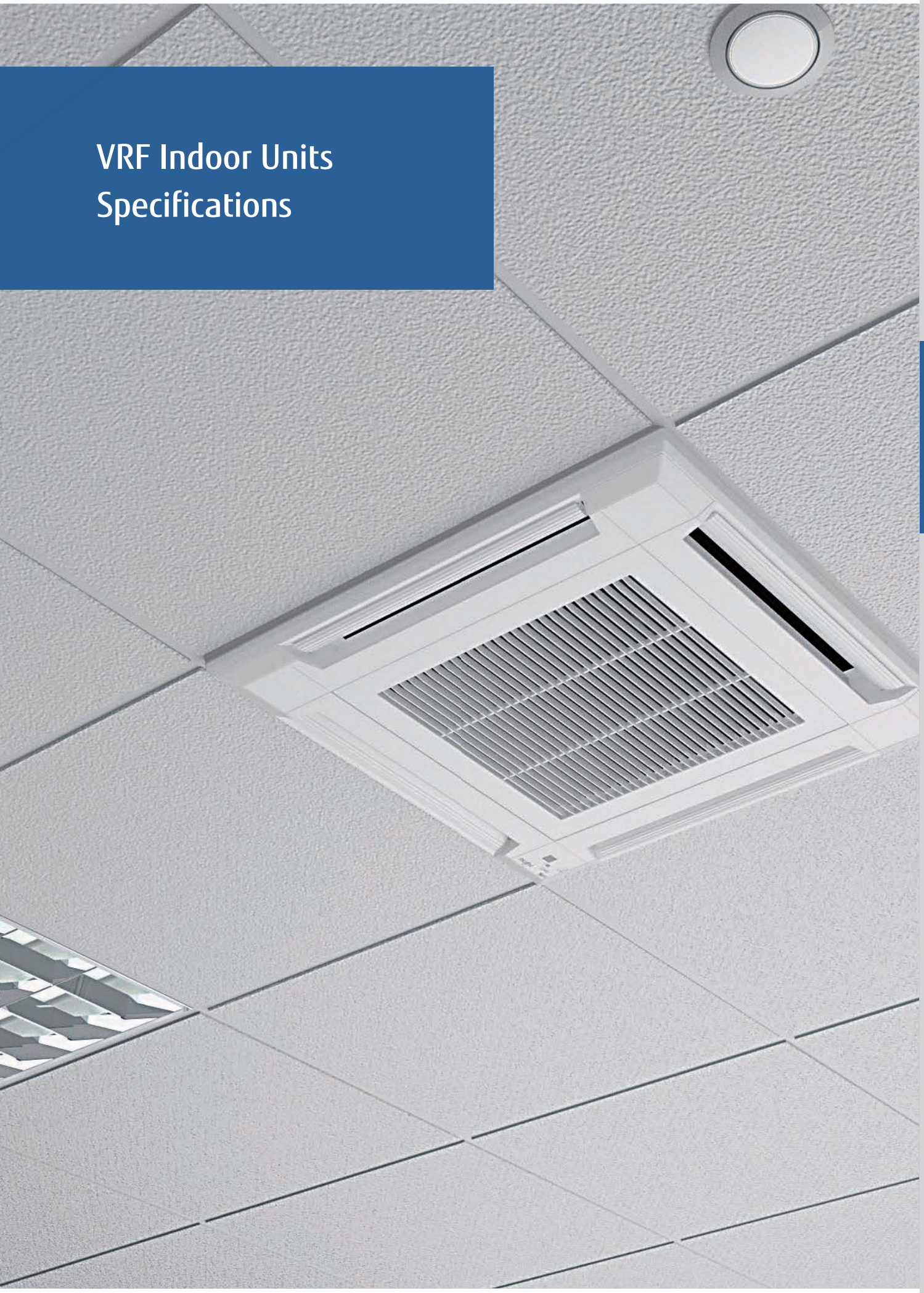
High energy saving

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



*: 5.6 kW class

VRF Indoor Units Specifications



Compact Cassette

Models

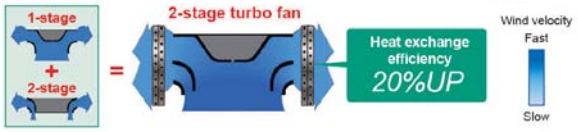
AUXB07GALH
AUXB09GALH
AUXB12GALH
AUXB14GALH
AUXB18GALH
AUXB24GALH

Compact size panel design
that fits standard ceiling panel (600x600mm)

2-stage turbo fan

High efficiency design by 2 stage structure

An evenly spread air distribution across the heat exchanger is possible due to the new 2 stage turbo fan which produces two separate airflow streams.



Previous turbo fan

In the case of a previous fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations

Adoption of laminar wing

Laminar wing

Airflow runs through smoothly along the laminar wing

Quiet

No airflow separation

Specifications

Model name			AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source			230V ~, 50Hz					
Capacity	Cooling	BTU/h	7500	9600	12300	15400	19100	24200
	Heating		9500	10900	13990	17000	21500	27200
Input power		W	25	25	29	35	36	84
Airflow rate	High	m^3/h (l/s)	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med		450 (125)	450 (125)	530 (147)	590 (164)	580 (161)	830 (231)
	Low		350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	dB(A)	34	35	37	38	41	50
	Med		30	30	34	34	35	44
	Low		25	25	27	27	27	30
Dimensions (H x W x D)		mm	245 x 570 x 570					
Weight		kg	15				17	
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52	
	Gas (Flare)		ø12.70				ø15.88	
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]					
Cassette Grille	Model name		UTG-UFYC-W / UTG-UEYC-W					
	Dimensions (H x W x D)	mm	50 x 700 x 700 / 50 x 620 x 620					
	Weight	kg	2.6 / 2.3					

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

Improvement of the airflow distribution

❶ Maintenance of fan motor and fan

Maintenance of the fan motor and fan can be done easily after taking off the panel as the bell mouth of the fan can be removed easily.

A : Fan motor B : 2-stage turbo fan
C : Bell-mouth D : Panel

❷ Air filter : standard equipment

❸ Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

High lift drain pump

High ceiling mode

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

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
07	2.7	—
09	2.7	—
12	2.7	3.0
14	2.7	3.0
18	2.7	3.0
24	2.7	3.0

Easy maintenance

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

NEW Compact Cassette Grid Type

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

Compact design

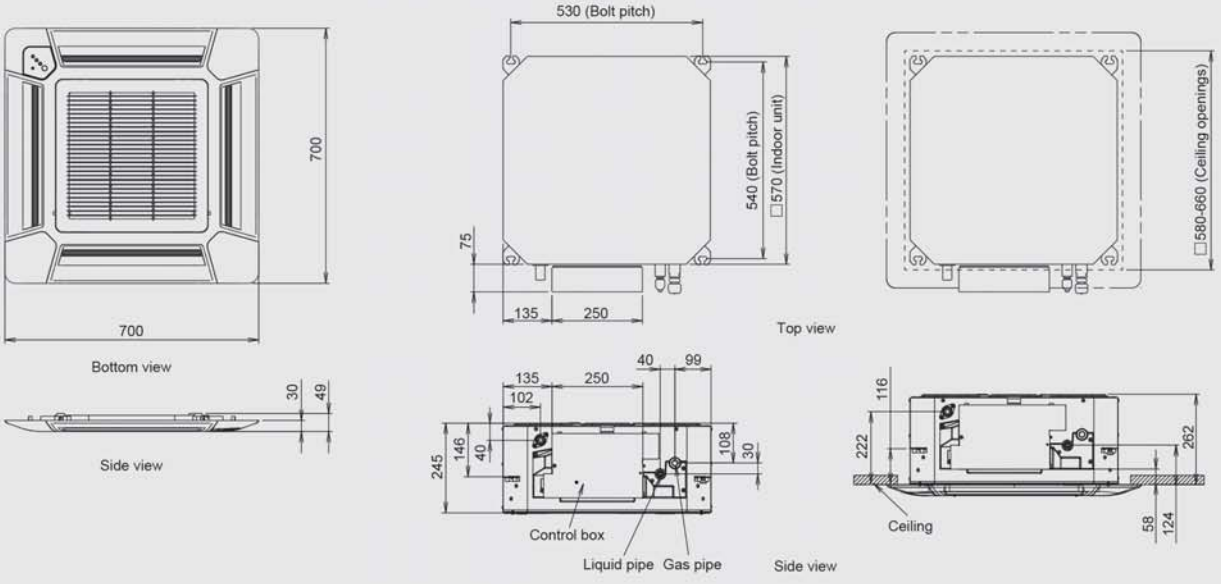
Worlds first 24,000Btu model in the compact cassette category (Easy installation by taking off ceiling panel of 600 x 600 size)

Optional parts

Air Outlet Shutter Plate : UTR-YDZB
Insulation Kit for High Humidity : UTZ-KXGC
Fresh Air Intake Kit : UTZ-VXAA

Dimensions (Unit : mm) UTG-UFYC-W / UTG-UFYC-W

Models: AUXB07 / AUXB09 / AUXB12 / AUXB14 / AUXB18 / AUXB24



VRF

Cassette

Models (Slim type)

AUXD18GALH
AUXD24GALH

Models (Large type)

AUXA18GALH
AUXA24GALH
AUXA30GALH
AUXA34GALH
AUXA36GALH
AUXA45GALH
AUXA54GALH

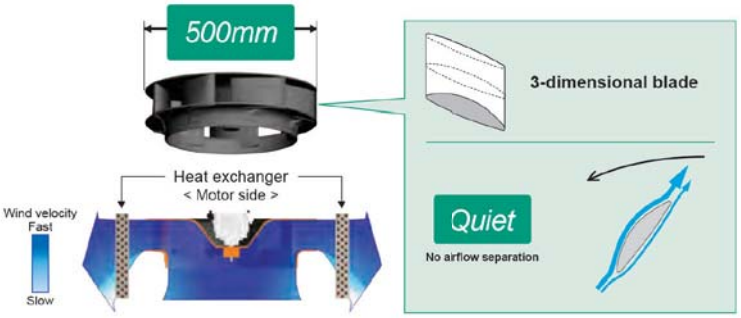
(Slim type)

(Slim type)

Powerful, wide airflow and quiet operation

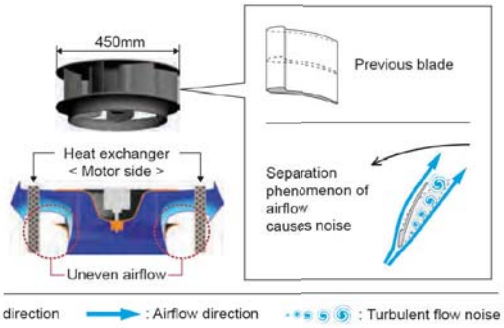
High efficiency turbo fan with 3-dimensional blade

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



Previous turbo fan

Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



: Spin direction : Airflow direction : Turbulent flow noise

Specifications

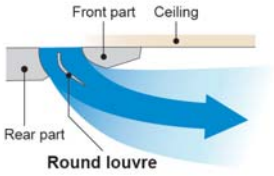
Model name				AUXD18GALH	AUXD24GALH	AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source				230V ~, 50Hz								
Capacity	Cooling		kW	19100	24200	19100	24200	30700	34100	38200	42600	47800
	Heating			21500	27200	21500	27200	34100	38200	42600	47700	54500
Input power			W	39	46	51	51	59	77	80	99	119
Airflow rate	High		m³/h	1,150	1,280	1,420	1,420	1,600	1,750	1,800	1,900	2,000
	Med			940	1,040	1,230	1,230	1,300	1,300	1,300	1,370	1,370
	Low			870	870	1,100/1,000*1	1,100/1,000*1	1,100	1,100	1,100	1,100	1,100
Sound pressure level	High		dB(A)	36	38	40	40	40	43	44	46	47
	Med			30	33	36	36	38	38	38	39	39
	Low			29	29	33/31*1	33/31*1	33	33	33	33	33
Dimensions (H x W x D)			mm	246 x 840 x 840		288 x 840 x 840						
Weight			kg	22		27						
Connection pipe diameter	Liquid (Flare)		mm	ø9.52								
	Gas (Flare)			ø15.88					ø19.05			
	Drain			ø25 (I.D.) ; ø32 (O.D.)								
Cassette Grille	Model name			UTG-UGYA-W								
	Dimensions (H x W x D)		mm	50 x 950 x 950								
	Weight		kg	5.5								

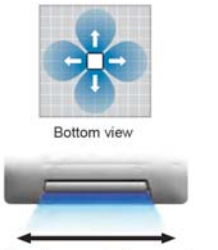
Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is "cooling operation / heating operation".

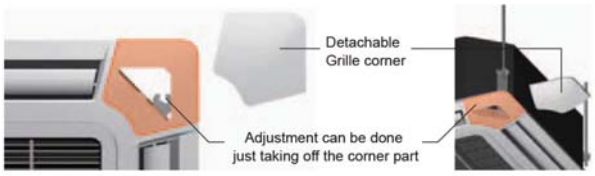
Improvement of the airflow distribution

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

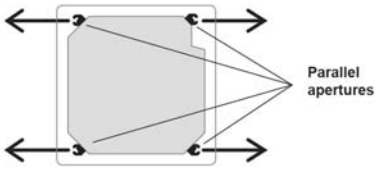




Adjustment of hanger position is possible after installation



One way installation



High lift drain pump

High ceiling mode

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

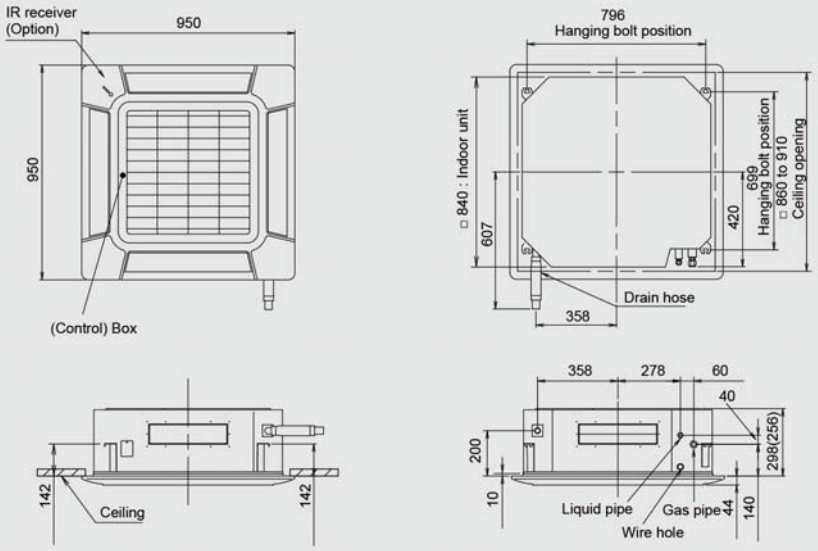
Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.0	3.5
24	3.0	3.5
30	3.2	3.6
34	3.2	3.6
36	3.2	4.2
45	3.2	4.2
54	3.2	4.2

Optional parts

IR Receiver Unit :	UTY-LRHYB1
Air Outlet Shutter Plate :	UTR-YDZC
Panel Spacer :	UTG-BGYA-W
Insulation Kit for High Humidity :	UTZ-KXGA / UTZ-KXGB
Wide Panel :	UTG-AGYA-W
Fresh Air Intake Kit :	UTZ-VXGA

Dimensions (Unit : mm) ( ) : AUXD18 / AUXD24

Models: AUXD18 / AUXD24 (Slim type)
AUXA18 / AUXA24 / AUXA30 / AUXA34 / AUXA36 / AUXA45 / AUXA54 (Large type)



Circular Flow

Models (Slim type)

AUXM018GLAH
AUXM024GLAH
AUXM030GLAH

Models (Large type)

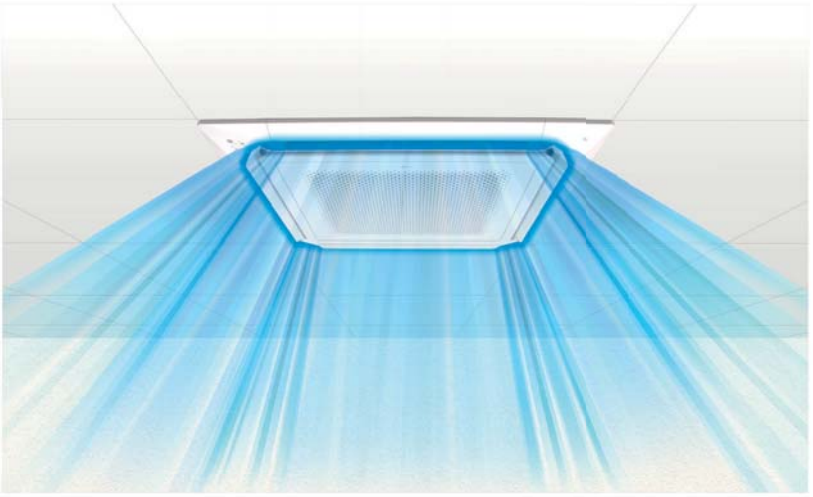
AUXK018GLAH
AUXK024GLAH
AUXK030GLAH
AUXK036GLAH
AUXK045GLAH
AUXK054GLAH

(Slim type)

(Large type)

Comfortable room air conditioning without airflow feeling

Circular Airflow Cassette blows out in all directions without temperature unevenness



Specifications FCU CASSETTE CIRCULAR FLOW

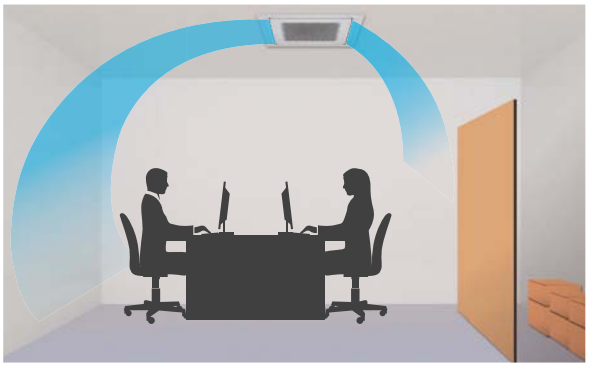
Model name			AUXM018GLAH	AUXM024GLAH	AUXM030GLAH	AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH
Power source			Single-phase, ~230V, 50Hz									
Capacity	Cooling	BTU/h	19100	24200	30700	19100	24200	30700	34100	38200	42600	47800
	Heating		21500	27200	34100	21500	27200	34100	38200	42600	47700	54500
Input power		W	20	25	49	40	40	47	47	61	89	116
Airflow rate	High	m^3/h	1,050	1,120	1,470	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-H		930	1,050	1,160	1,360	1,360	1,440	1,440	1,500	1,590	1,800
	Med		900	930	1,070	1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-L		870	900	930	1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		810	870	900	1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		780	780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB(A)	33	35	40	38	38	39	39	41	44	47
	Med-H		32	33	36	37	37	38	38	40	42	45
	Med		31	32	34	36	36	37	37	38	40	42
	Med-L		30	31	32	35	35	36	36	37	38	39
	Low		29	30	31	34	34	35	35	36	36	36
	Quiet		28	28	28	33	33	33	33	33	33	33
Net Dimensions (H × W × D)		mm	246 x 840 x 840			288 x 840 x 840						
Weight		kg(lbs)	24.0 (53)	24.5 (54)	24.5 (54)	26.5 (58)	26.5 (58)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52		6.35	9.52					
	Gas (Flare)		12.70	15.88		12.70	15.88					
Drain hose diameter (I.D./O.D.)			25/32			25/32						
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B			UTG-UKYC-W / UTG-UKYA-B						
	Net Dimensions (H×W×D)	mm	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950	53 x 950 x 950
	Weight	kg(lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLAH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLAH, AUXK045GLAH, and AUXK054GLAH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.

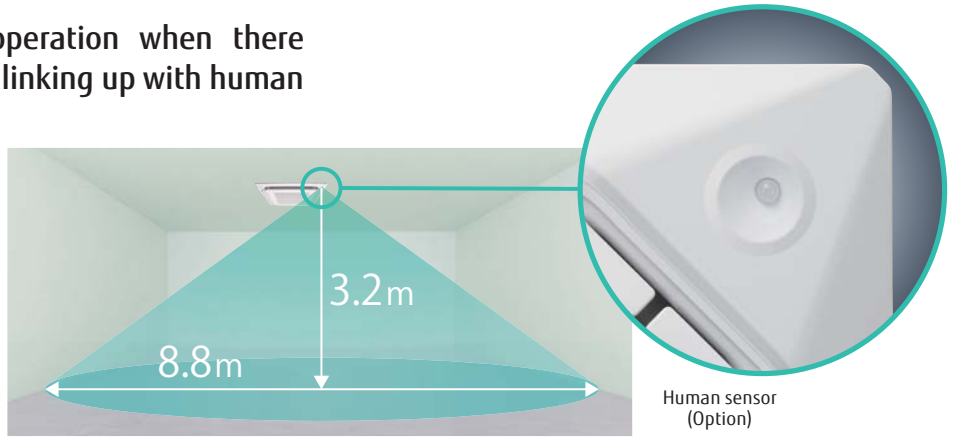
Individual airflow direction control to prevent people from being exposed to airflow

Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.



Efficient air conditioning based on the room layout

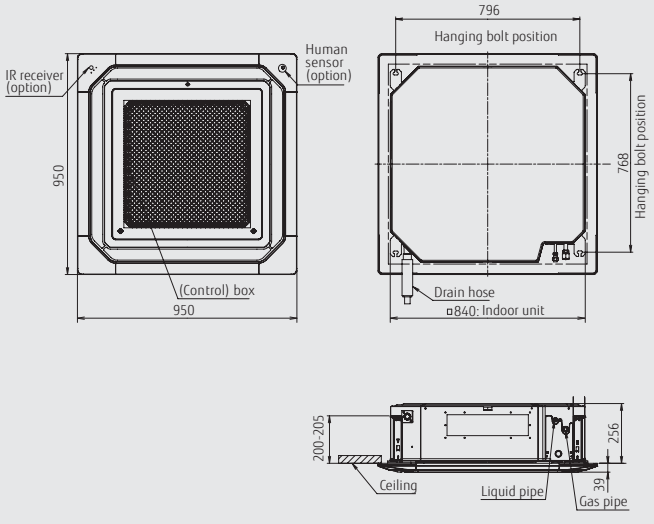
Energy saving operation when there are no people by linking up with human sensor

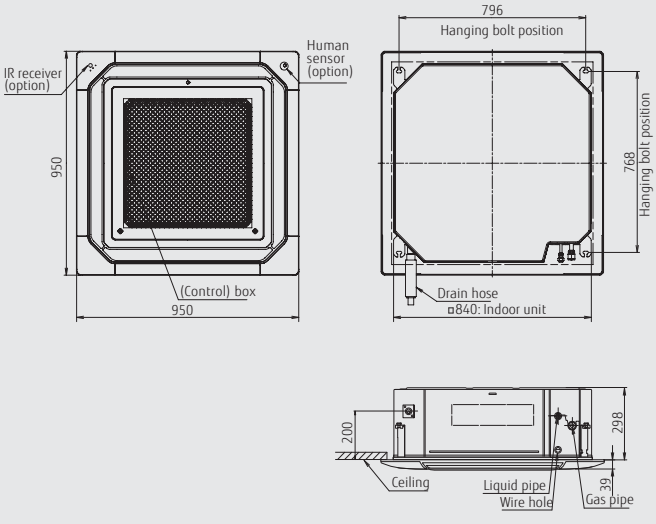


Dimensions (Unit : mm) ( ) : AUXM18 / AUXM24 / AUXM30

Models : AUXM18 / AUXM24 / AUXM30 (Slim type)

AUXK18 / AUXK24 / AUXK30 / AUXK36 / AUXK45 / AUXK54 (Large type)





Low Static Pressure Duct / Concealed Floor

Models

ARXB07GALH
ARXB09GALH
ARXB12GALH
ARXB14GALH
ARXB18GALH

ARXB07GALH
ARXB09GALH

ARXB12GALH
ARXB14GALH
ARXB18GALH

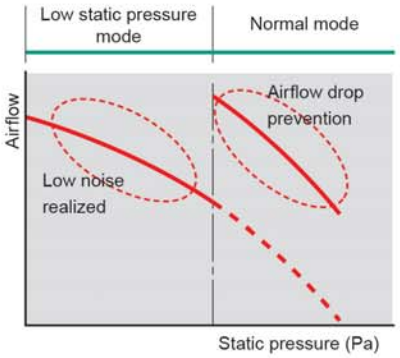
Small and compact indoor unit suitable for many applications

Concealed Floor

Low noise level

A low noise level has been achieved for each capacity

Model		7	9	12	14	18
Static pressure range	Pa	0 to 50				
Noise level (Low speed)	dB(A)	24	27	25	30	30



Specifications

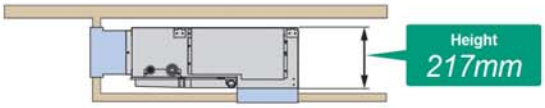
Model name			ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH
Power source			230V ~, 50Hz				
Capacity	Cooling	BTU/h	7500	9600	12300	15400	19100
	Heating		9600	10900	13600	17000	21500
Input power		W	46	55	63	90	96
Airflow rate	High	m^3/h (l/s)	370 (103)	440 (122)	590 (164)	800 (222)	890 (247)
	Med		310 (86)	370 (103)	500 (139)	750 (208)	810 (225)
	Low		280 (78)	340 (94)	450 (125)	700 (194)	730 (203)
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50
Standard static pressure			25	25	25	25	25
Sound pressure level	High	dB(A)	29	31	30	33	36
	Med		26	29	28	32	34
	Low		24	27	25	30	30
Dimensions (H x W x D)		mm	217 x 663 x 595		217 x 953 x 595		
Weight		kg	15		22		23
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52
	Gas (Flare)		ø12.70				ø15.88
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]				

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.

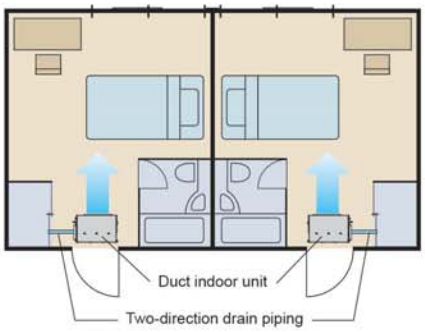
Compact design

Ultra-slim duct air conditioner for easy installation



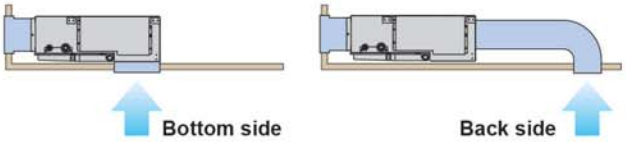
Slim size (217mm) allows installation even where the space above the ceiling is narrow.

Two-direction drain piping



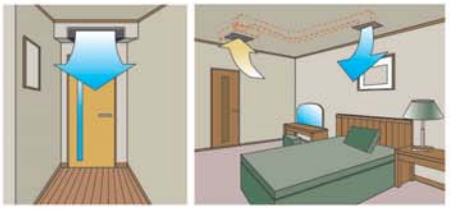
Air-intake

Air intake direction can be selected to match the installation site.



Flexible installation

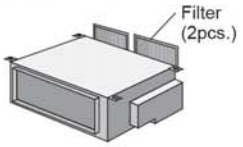
Ceiling concealed



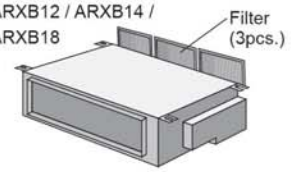
Floor concealed

Filter (Accessory)

ARXB07 / ARXB09



ARXB12 / ARXB14 / ARXB18



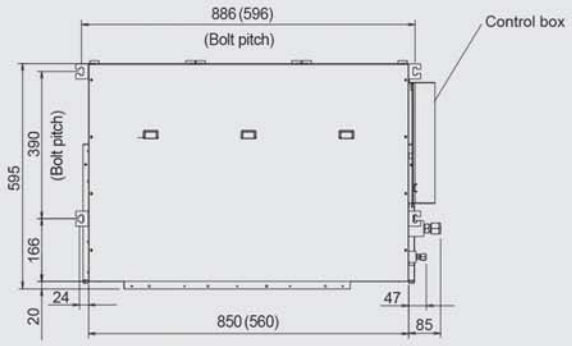
Optional parts

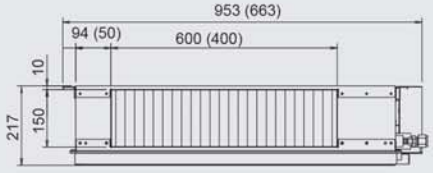
Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC
Drain Pump Unit : UTZ-PX1BBA

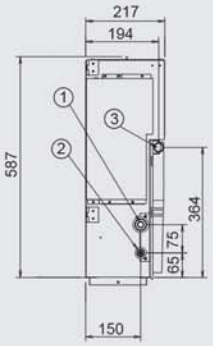
Dimensions (Unit : mm) ( ) : AR7 / AR9

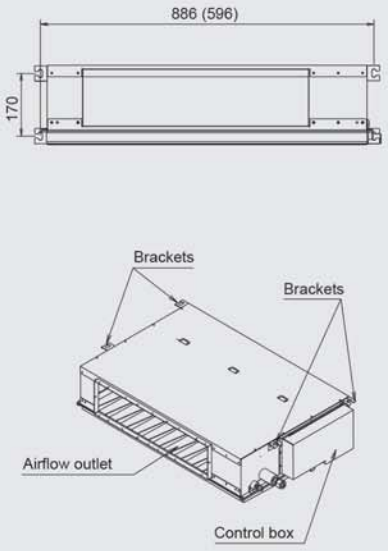
Models: ARXB07 / ARXB09 / ARXB12 / ARXB14 / ARXB18

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









① Refrigerant piping flare connection (Gas)
② Refrigerant piping flare connection (Liquid)
③ Drain piping connection

Slim Duct / Slim Concealed Floor

Models (With drain pump)

ARXD07GALH
ARXD09GALH
ARXD12GALH
ARXD14GALH
ARXD18GALH
ARXD24GALH

Slim design and wide range of static pressure for flexible installation.

ARXD07GALH ARXD12GALH
ARXD09GALH ARXD14GALH

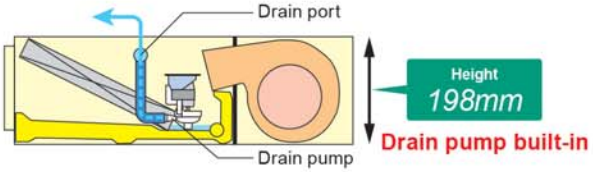
ARXD18GALH

ARXD24GALH

Slim Concealed Floor

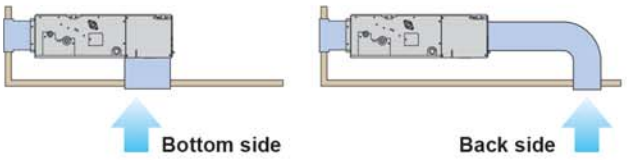
Slim design

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



Air-intake

Air intake direction can be selected to match the installation site.



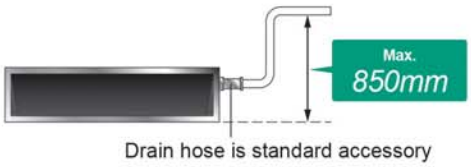
Specifications

Model name			ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD12GALH	ARXD18GALH	ARXD24GALH
Power source			230V ~, 50Hz					
Capacity	Cooling	BTU/h	7500	9600	12300	15400	19100	24200
	Heating		9500	10900	13600	17000	21500	27200
Input power		W	44	50	54	92	83	122
Airflow rate	High	m^3/h (l/s)	550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)
	Med		490 (136)	550 (153)	510 (142)	710 (197)	840 (233)	1,240 (344)
	Low		440 (122)	480 (133)	450 (125)	610 (169)	750 (208)	1,100 (306)
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25
Sound pressure level	High	dB(A)	28	29	30	34	34	35
	Med		25	26	27	32	32	32
	Low		22	24	24	28	28	29
Dimensions (H x W x D)		mm	198 x 700 x 620				198 x 900 x 620	198 x 1,100 x 620
Weight		kg	17		18		22	26
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52	
	Gas (Flare)		ø12.70				ø15.88	
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]					

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.

High lift drain pump



Drain hose is standard accessory

Selectable with a wide range of static pressure

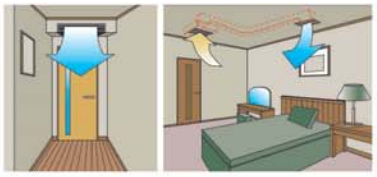
By using DC fan motor, it is possible to change of static pressure range 0 to 90Pa.
The change of static pressure range is possible by remote controller.

Static pressure range
0 to 90 Pa

*24 model is 0 to 50Pa

Flexible installation

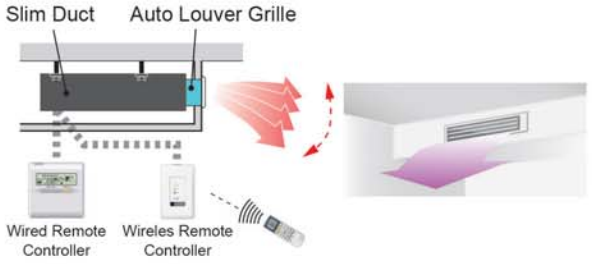
Ceiling concealed



Floor concealed

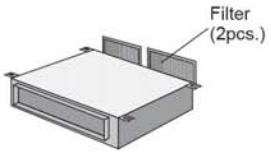
Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

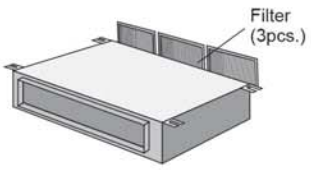


Filter (Accessory)

ARXD07 / 09 / 12 / 14 / 18



ARXD24



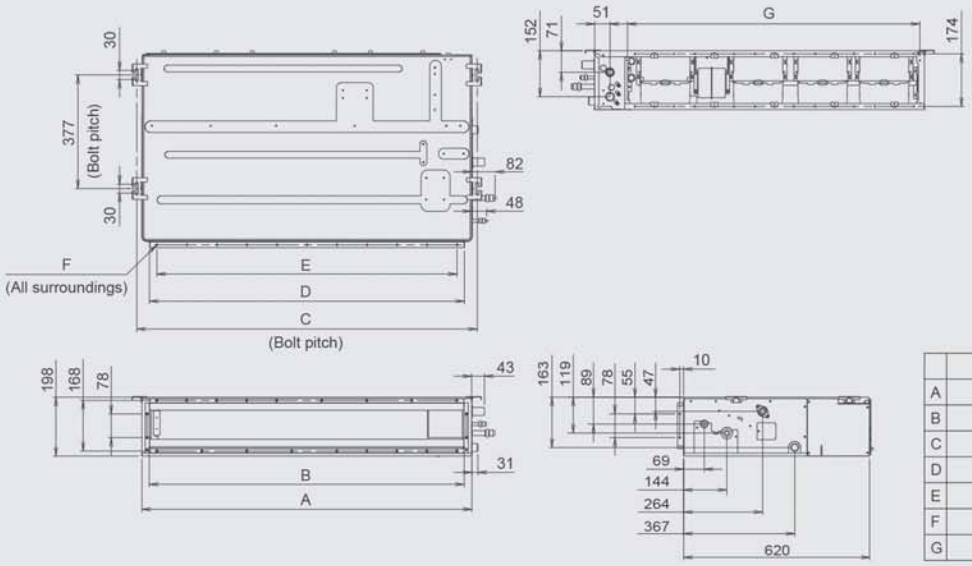
Optional parts

Remote Sensor Unit :	UTY-XSZX
IR Receiver Unit :	UTB-YWC
Auto Louver Grille Kit :	UTD-GXSA-W (for ARXD07/09/12/14GALH)
	UTD-GXSB-W (for ARXD18GALH)
	UTD-GXSC-W (for ARXD24GALH)

Dimensions (Unit : mm)

Models: ARXD07 / ARXD09 / ARXD12 / ARXD14 / ARXD18 / ARXD24

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



	ARXD07-14	ARXD18	ARXD24
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100x6=600	P100x8=800	P100x10=1000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

Low / Medium Static Pressure Duct

Models [Low Static Pressure Duct]

ARXB24GALH
ARXB30GALH
ARXB36GALH
ARXB45GALH

Indoor units suitable for quiet rooms such as a hotel or a bedroom

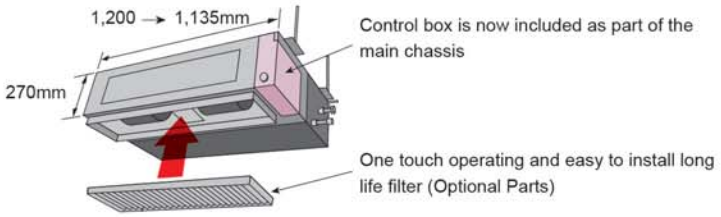
Models [Medium Static Pressure Duct]

ARXA24GALH
ARXA30GALH
ARXA36GALH
ARXA45GALH

Slim Compact design allows for easy installation in narrow ceiling spaces up to 270mm

Slim & Compact design

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



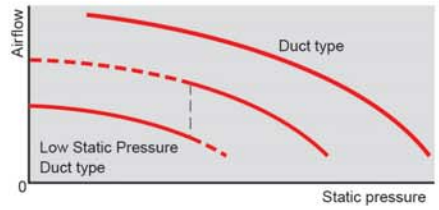
Specifications

Model name			ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH	ARXA24GALH	ARXA30GALH	ARXA36GALH	ARXA45GALH
Power source			230V ~, 50Hz				230V ~, 50Hz			
Capacity	Cooling		24200	30700	38200	42600	24200	30700	38200	42600
	Heating		27200	34100	42600	47700	27200	34100	42600	47700
Input power		W	145	198	253	338	190	188	312	312
Airflow rate	High	m^3/h (l/s)	1,100 (306)	1,410 (392)	1,710 (475)	1,970 (547)	1,280 (356)	1,280 (356)	1,720 (478)	1,720 (478)
	Med		920 (256)	1,280 (356)	1,600 (444)	1,790 (497)	1,210 (336)	1,210 (336)	1,670 (464)	1,670 (464)
	Low		810 (225)	1,150 (319)	1,470 (408)	1,670 (464)	1,130 (314)	1,130 (314)	1,600 (444)	1,600 (444)
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80	30 to 150	30 to 150	30 to 150	30 to 150
Standard static pressure			40	50	50	60	100	100	100	100
Sound pressure level	High	dB(A)	31	34	37	41	38	40	43	43
	Med		27	32	35	38	36	38	41	41
	Low		25	29	33	36	34	36	39	39
Dimensions (H x W x D)		mm	270 x 1,135 x 700				270 x 1,135 x 700			
Weight		kg	39	42			39	42		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52				ø9.52			
	Gas (Flare)		ø15.88		ø19.05		ø15.88		ø19.05	
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]				VP25[ø25(I.D.); ø32(O.U.)]			

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.

Line-up of low-noise and high-power models, compatible with a wide range of static pressure



Low Static Pressure Duct type

Optimum model for hotels or bedrooms

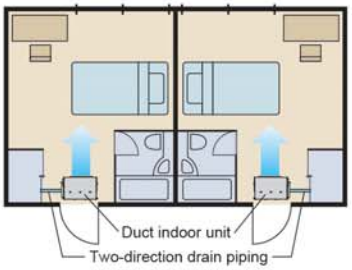
An ultra low-noise model that achieves a quiet interior. Perfect for hotels or bedrooms with limited air duct installation space. Two different levels can be selected according to the static pressure range.

Duct type

Powerful model with a flexible design

With a powerful motor, appropriate for a wide range of static pressure. Flexible air duct installation is possible in a large space such as an office.

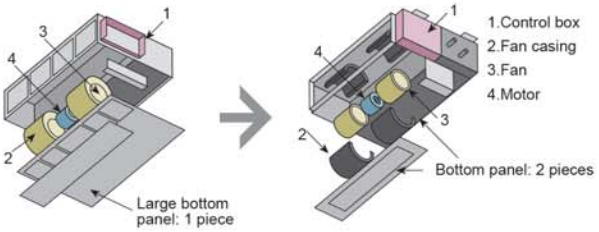
Two-direction drain piping



Easy maintenance

See below for the case of rear suction type

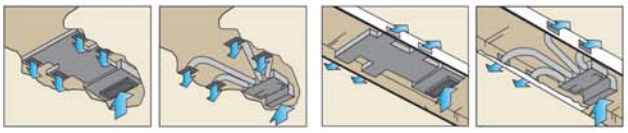
Previous model **New model**



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

Installation styles

Embedded in Ceiling **Hanging from Ceiling**



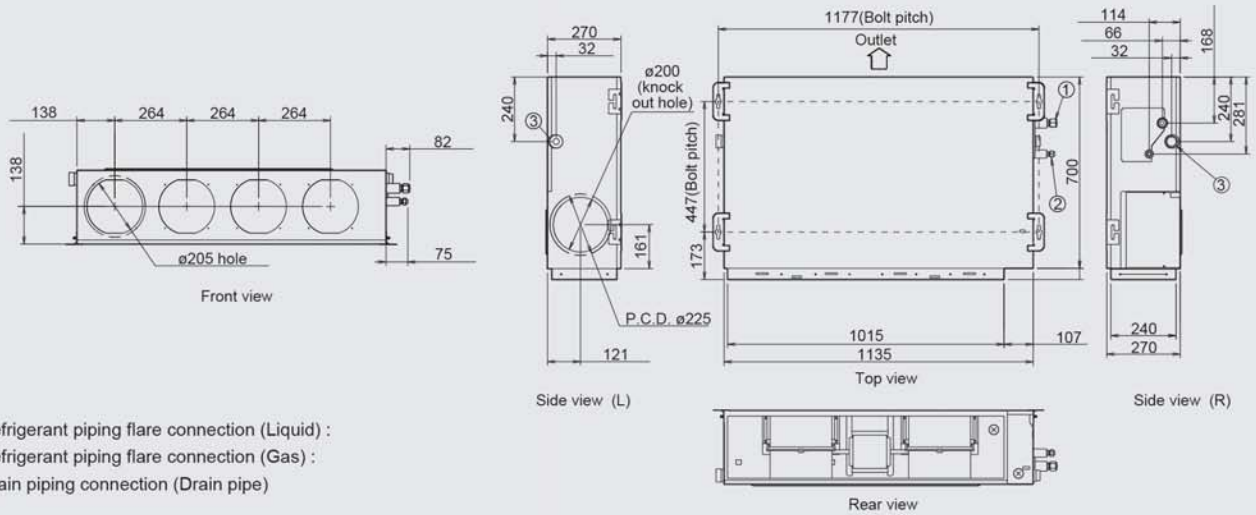
Optional parts

Remote Sensor Unit :	UTY-XSZX	Flange (Round) :	UTD-RF204
Long Life Filter :	UTD-LF25NA	IR Receiver Unit :	UTB-YWC
Flange (Square) :	UTD-SF045T	Drain Pump Unit :	UTZ-PX1NBA

Dimensions (Unit : mm)

Models: ARXB24 / ARXB30 / ARXB36 / ARXB45
ARXA24 / ARXA30 / ARXA36 / ARXA45

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



① Refrigerant piping flare connection (Liquid) :
② Refrigerant piping flare connection (Gas) :
③ Drain piping connection (Drain pipe)

High Static Pressure Duct

Models

ARXC36GATH
ARXC45GATH
ARXC60GATH
ARXC72GATH
ARXC90GATH
ARXC96GATH

These indoor units allow for high airflow quantities

ARXC36GATH
ARXC45GATH
ARXC60GATH

ARXC72GATH
ARXC90GATH

Specifications

Model name			ARXC36GATH	ARXC45GATH	ARXC60GATH	ARXC72GATH	ARXC90GATH	ARXC96GATH
Power source			Single-phase, ~230V, 50Hz					
Capacity	Cooling	BTU/h	38200	42600	61400	76400	85300	95500
	Heating		42600	47700	68200	85300	95500	107000
Input power		W	207	715	730	681	819	838
Airflow rate	High	m^3/h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB(A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500			450 × 1,587 × 700		550 × 1,587 × 700
Weight		kg(lbs)	40 (88)	46 (101)		84 (185)		105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)			12.70 (Brazing)		
	Gas		19.05 (Flare)			22.22 (Brazing)		
Drain hose diameter (I.D./O.D.)			25/32					

Note : Specifications are based on the following conditions.

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

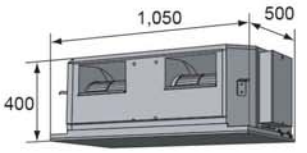
Easy installation (Compact size & Lightweight)

Models : ARXC36

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

Volume 47.5% down

Weight 42% down

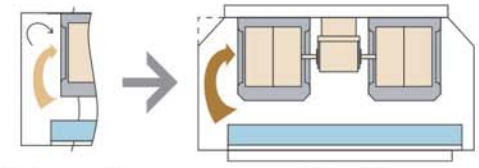


ARXC36GATH : 43kg (unit: mm)

Low noise

Models : ARXC36 / ARXC45 / ARXC60

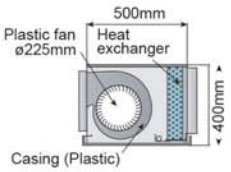
Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



Previous model **New model (ARXC36GATH)**

ARXC36GATH : Plastic fan [45dB(A)]

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



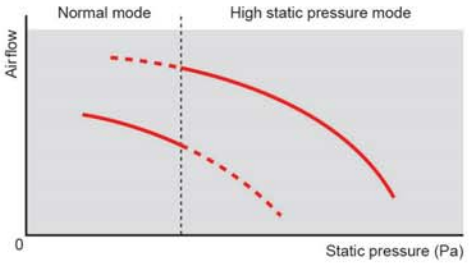
Static pressure selection

Models : ARXC72 / ARXC90

2 Types of static pressure mode are selectable.

Max. 300Pa

High Static Pressure Duct (ARXC72)



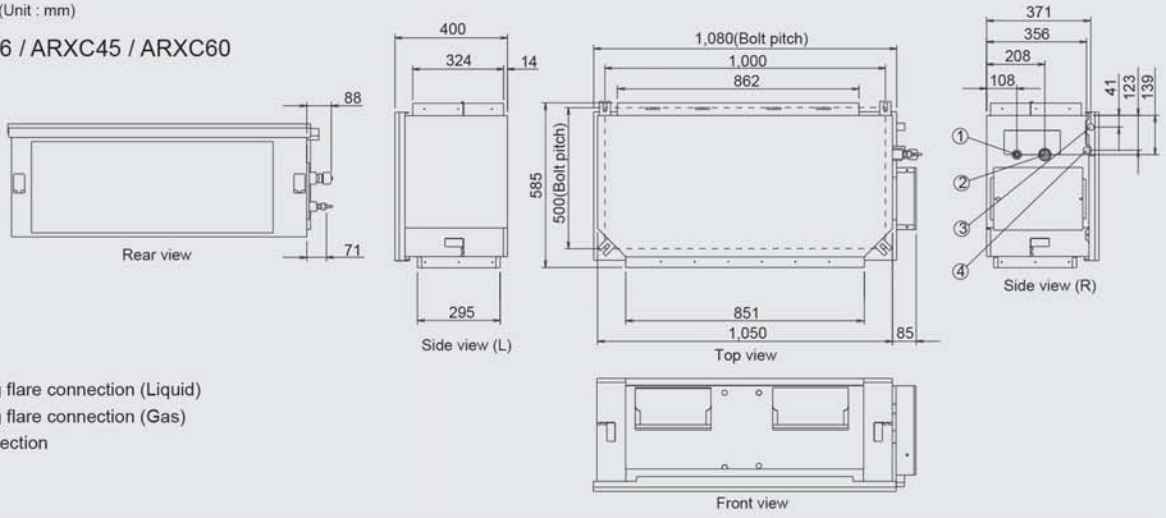
The adoption of a single phase fan motor allows
3 steps fan speed control

Optional parts

Long-Life Filter : UTD-LF60KA (For ARXC36 / 45 / 60)
IR Receiver Unit : UTB-YWC
Remote Sensor Unit : UTY-XSZX

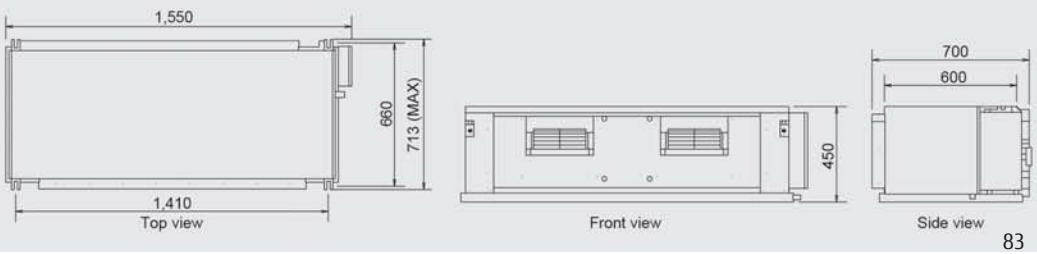
Dimensions (Unit : mm)

Models: ARXC36 / ARXC45 / ARXC60



① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Models: ARXC72 / ARXC90



Floor / Ceiling

Models

ABYA12GATH
ABYA14GATH
ABYA18GATH
ABYA24GATH

The slim and lightweight design allow the unit to be suspended from the ceiling or installed on the floor.
This type suits many room designs

Floor standing

Flexible installation

Example for floor installation

Floor console

Example for ceiling installation

Under ceiling

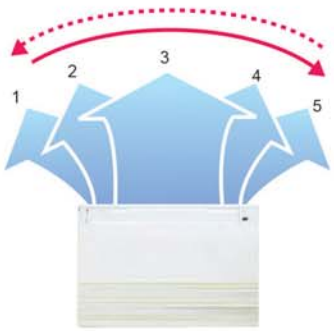
Specifications

Model name			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power source			230V ~, 50Hz			
Capacity	Cooling	BTU/h	12300	15400	19100	24200
	Heating		13600	17000	21500	27200
Input power		W	30	42	74	99
Airflow rate	High	m^3/h (l/s)	660 (183)	780 (216)	1,000 (277)	1,000 (277)
	Med		570 (158)	640 (177)	720 (199)	820 (227)
	Low		490 (136)	550 (152)	580 (161)	680 (188)
Sound pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H x W x D)		mm	199 x 990 x 655			
Weight		kg	25	26	26	27
Connection pipe diameter	Liquid (Flare)	mm	ø6.35		ø9.52	
	Gas (Flare)		ø12.70		ø15.88	
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]			

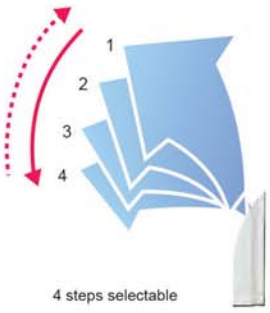
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

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

RIGHT and LEFT SWING



UP and DOWN SWING



4 steps selectable

High power DC fan motor

- High power
- Wide rotation range
- High efficiency

Super vane

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

Auto-closing louvre

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

Compact design

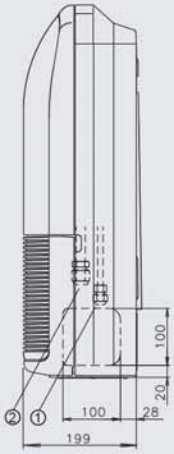
Symmetrical, slim and compact design.

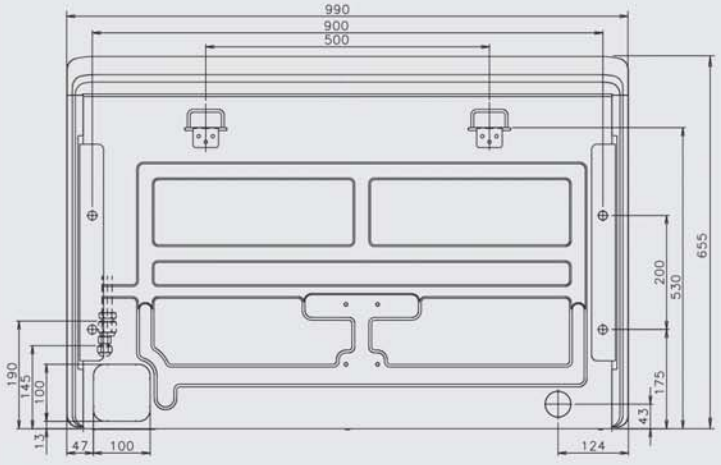
(Unit : mm)

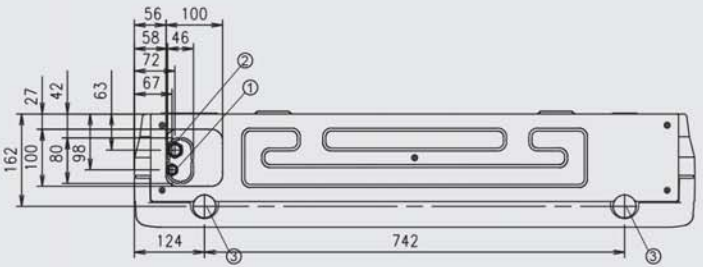
VRF

Dimensions (Unit : mm)

Models: ABYA12 / ABYA14 / ABYA18 / ABYA24







① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

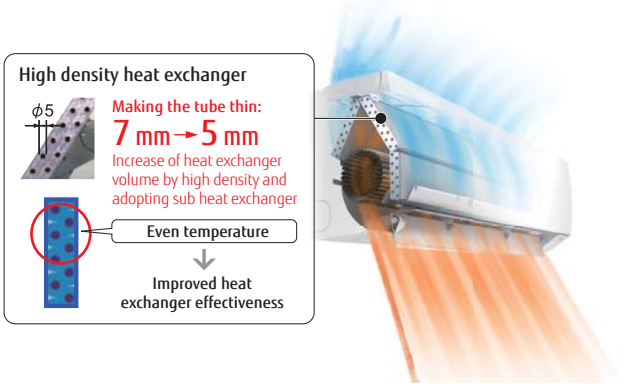
Wall Mounted

Models

ASYA07GTAH
ASYA09GTAH
ASYA12GCAH
ASYA14GCAH
ASYA18GBCH
ASYA24GBCH
ASYA030GTAH
ASYA034GTAH

High efficient compact design

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



More comfort airflow

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

Heating

Vertical airflow provides powerful floor level heating

Cooling

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

Specifications

Model name			ASYA07GTAH	ASYA09GTAH	ASYA12GCAH	ASYA14GCAH	ASYA18GBCH	ASYA24GBCH	ASYA030GTAH	ASYA034GTAH
Power source			Single-phase, ~230V, 50Hz		Single-phase, ~230V, 50Hz		Single-phase, ~230V, 50Hz		Single-phase, ~230V, 50Hz	
Capacity	Cooling	BTU/h	7500	9600	12300	13600	19100	24200	30700	34100
	Heating		2.8	10900	13600	15300	21500	27200	34100	38200
Input power		W	19	34	25	36	32	60	74	103
Airflow rate	High	m^3/h	550	720	690	800	840	1,100	1,440	1,620 / 1,520
	Med-H		460	570	610	740	-	-	1,200	1,300
	Med		420	500	560	680	770	910	1,050	1,120
	Med-L		390	410	530	610	-	-	940	980
	Low		360	360	470	550	690	730	890	890
	Quiet		330	330	330	330	-	-	700	700
Sound pressure level	High	dB(A)	35	43	40	44	41	48	53	55 / 54
	Med-H		32	38	37	42	-	-	49	51
	Med		30	34	35	40	39	43	45	47
	Med-L		27	29	33	37	-	-	42	43
	Low		24	24	30	34	35	35	39	39
	Quiet		22	22	24	24	-	-	33	33
Net Dimensions (H × W × D)		mm	262 x 820 x 206		268 x 840 x 203		320 x 998 x 238		340 x 1,150 x 280	
Weight		kg(lbs)	7.5 (17)	7.5 (17)	8.5 (19)	8.5 (19)	15 (33)	15 (33)	18 (40)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35		6.35		6.35	9.52	9.52	
	Gas (Flare)		9.52		9.52		12.70	15.88	15.88	
Drain hose diameter (I.D./O.D.)			13.8/15.8 to16.7		13.8/15.8 to16.7		12/16		13.8/15.8 to16.7	
EV Kit (option)			–		–		–			

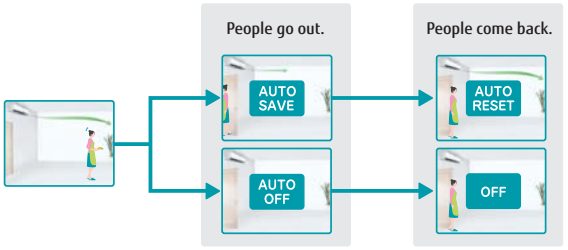
Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].
When ASY*004GTAH, ASY*007GTAH, ASY*009GTAH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

Human sensor increases more energy saving

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

Human sensor



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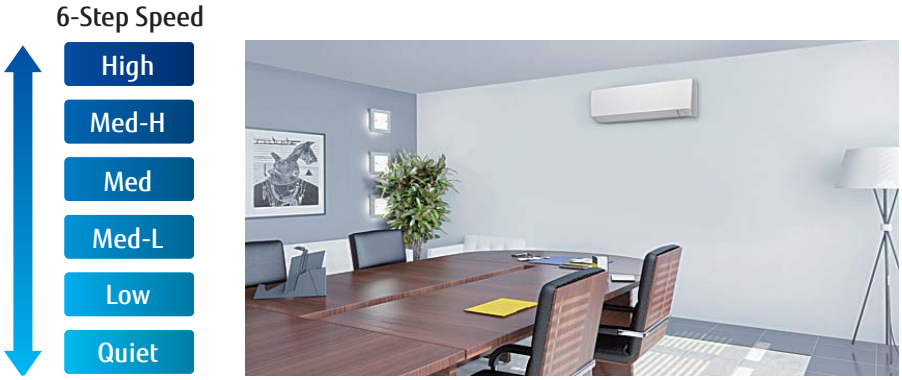
6 Fan Speed Control

Multistep airflow control is possible to suit the environment.



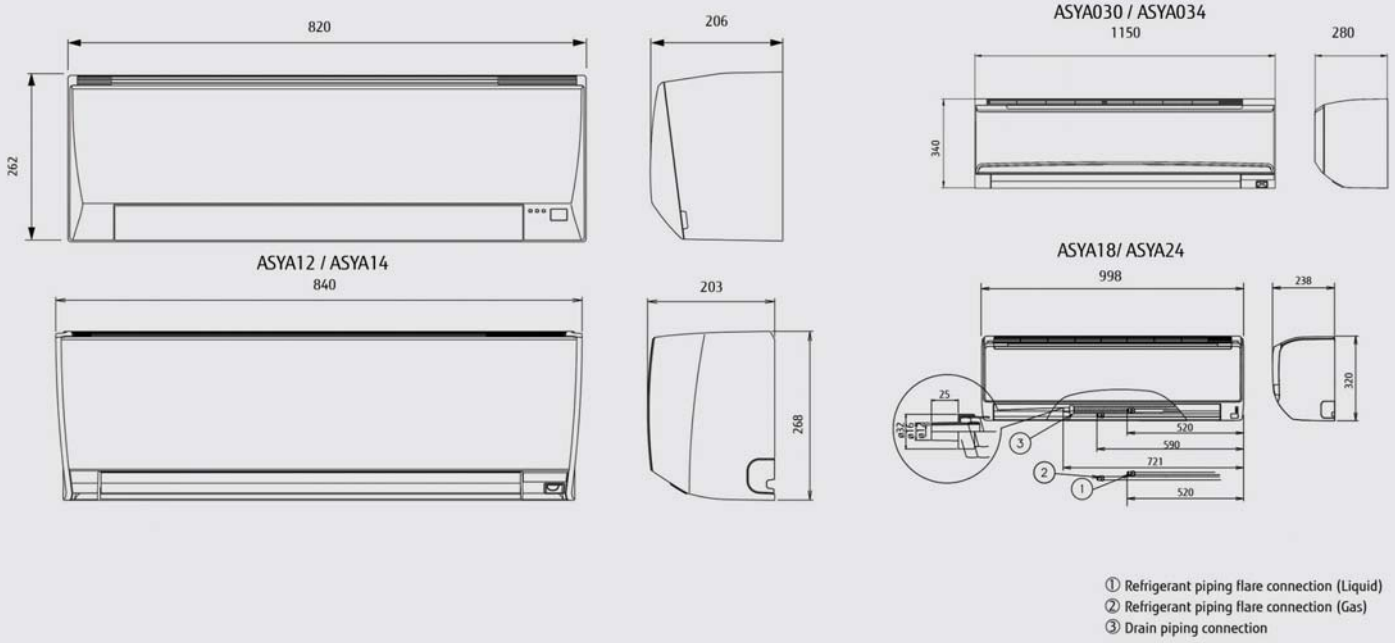
Fan speed
Quiet

Low noise
24 dB(A)

* Compatible Remote Controller is as follows:
UTY-RNRYZ2 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGY / UTY-DTGYZ1 / UTY-ALGX / UTY-APGX

Dimensions (Unit : mm)

Models: ASYA07 / ASYA09



Wall Mounted

Models (EEV internal model)
ASYA07GACH
ASYA09GACH
ASYA12GACH
ASYA14GACH

Models (EEV external model)
ASYE07GACH
ASYE09GACH
ASYE12GACH
ASYE14GACH

Compact and Stylish design indoor

Filter features

High quality air conditioning by incorporation of high performance filter.

Ion Deodorization Filter

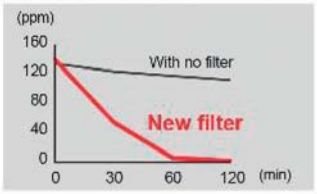
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

Apple-catechin Filter

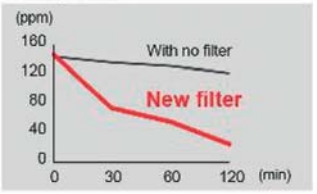
Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Deodorizing effect (Odor reduction rate)

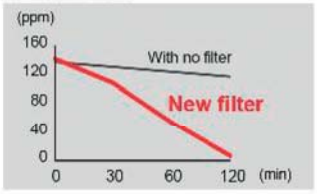
Ammonia



Trimethylamine



Hydrogen sulfate



Testing organization :
Environmental Sanitary Inspection Center
Test method :
Deodorization Test

Specifications

Model name			ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH	ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH
Power source			230V ~, 50Hz				230V ~, 50Hz			
Capacity	Cooling	BTU/h	7500	9600	12300	15400	7500	9600	12300	15400
	Heating		9600	10900	13900	17000	9600	10900	13900	17000
Input power		W	17	18	22	34	15	16	21	34
Airflow rate	High	m³/h (l/s)	490 (136)	500 (139)	560 (156)	670 (186)	490 (136)	500 (139)	560 (156)	680 (189)
	Med		450 (125)	450 (125)	480 (133)	490 (136)	450 (125)	450 (125)	480 (133)	490 (136)
	Low		370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)
Sound pressure level	High	dB(A)	35	36	39	44	34	35	38	43
	Med		33	33	35	37	32	32	34	35
	Low		27/31*1	27/31*1	31	32	26/30*1	26/30*1	30	30
Dimensions (H x W x D)		mm	275 x 790 x 215				275 x 790 x 215			
Weight		kg	9				9			
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø6.35			
	Gas (Flare)		ø12.70				ø12.70			
	Drain		ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)				ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)			
EV Kit (option)			—				UTR-EV09XB		UTR-EV14XB	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].
*1 : This value is under cooling operation.

Compact size

Powerful output even compact design

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

Width
790mm

New style high power DC fan motor

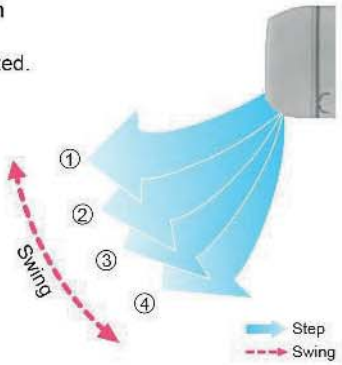
- High power
- Wide rotation range
- High efficiency
- Compact size

Symmetrical design

Symmetrical, clean design that suits all interiors.

Auto swing louvre

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



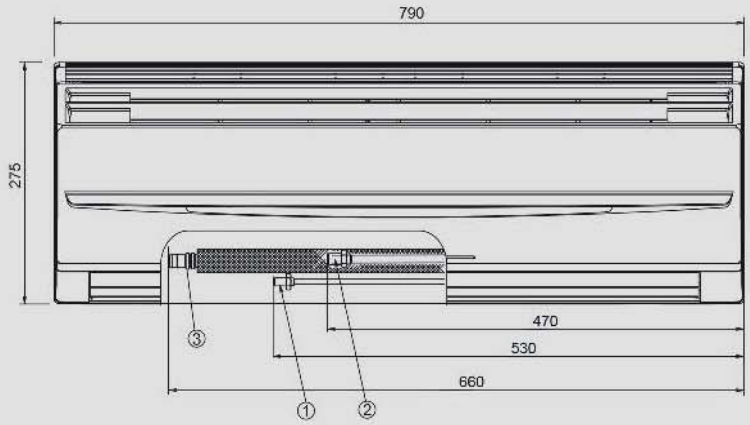
Easy maintenance

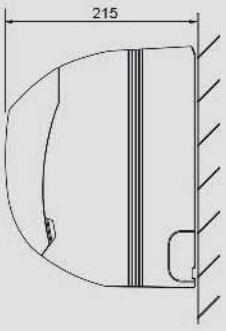
Easy maintenance has been realized as the front panel can removed for easy access.

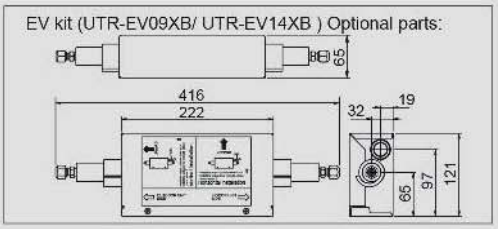
VRF

Dimensions (Unit : mm)

Models: ASYA07 / ASYA09 / ASYA12 / ASYA14
ASYE07 / ASYE09 / ASYE12 / ASYE14







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

Wall Mounted

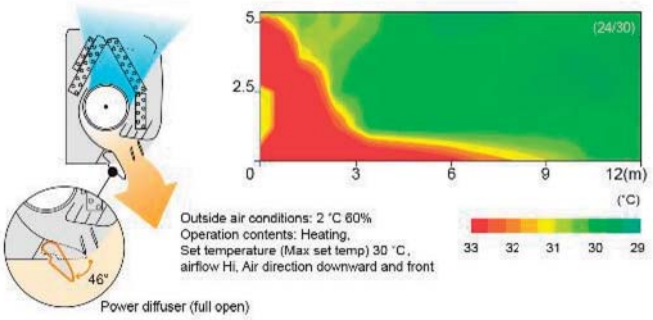
Models

ASYA18GACH
ASYA24GACH
ASYA30GACH

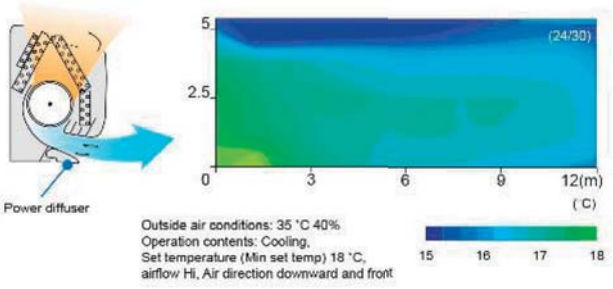
Simple & Elegant Appearance Design

More comfort airflow by adopting power diffuser

"Vertical airflow"
provides powerful floor level heating



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



Specifications

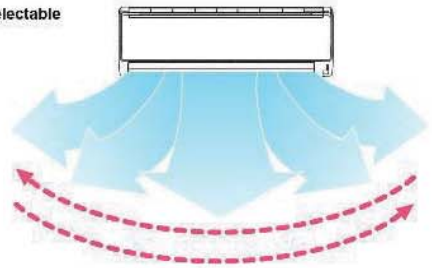
Model name			ASYA18GACH	ASYA24GACH	ASYA30GACH
Power source			230V ~, 50Hz		
Capacity	Cooling	BTU/h	19100	24200	27300
	Heating		21500	27300	30700
Input power		W	32	60	91
Airflow rate	High	m³/h (l/s)	840 (233)	1,100 (305)	1,240 (343)
	Med		770 (213)	910 (252)	980 (271)
	Low		690 (191)	730 (202)	770 (213)
Sound pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H x W x D)		mm	320 x 998 x 228		
Weight		kg	15		
Connection pipe diameter	Liquid (Flare)	mm	ø9.52		
	Gas (Flare)		ø15.88		
	Drain		ø12 (I.D.) ; ø16 (O.D.)		

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

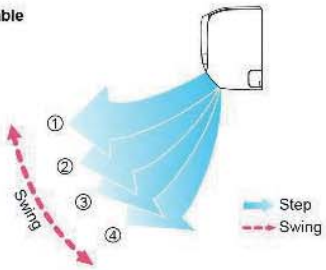
Double auto swing

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

5 steps selectable

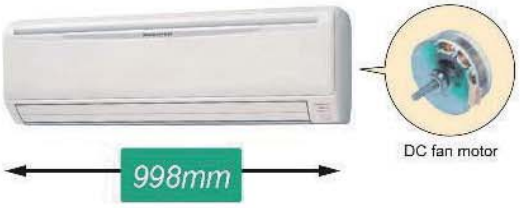


4 steps selectable

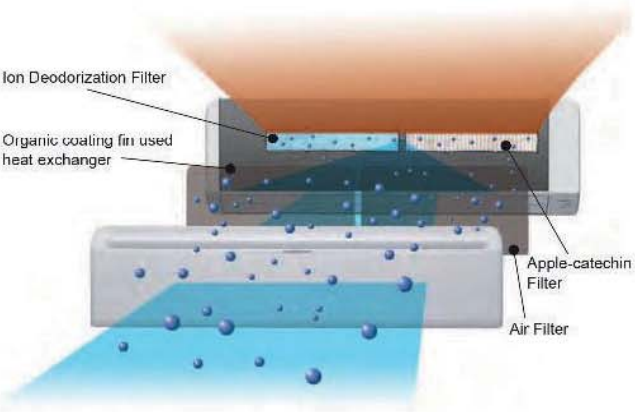


Compact & Slim design

By using DC fan motor, compact design is realized.



Air conditioner filter features



High quality air conditioning by incorporation of high performance filter.

Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

Apple-catechin Filter

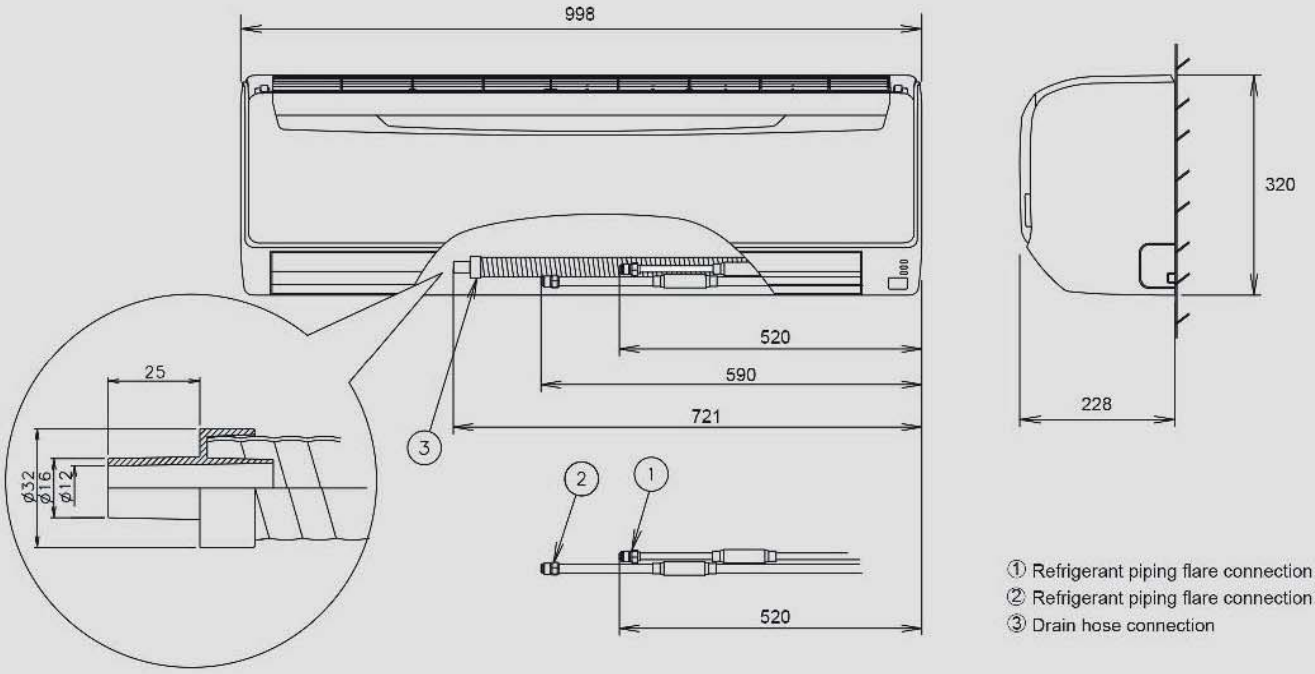
Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

Dimensions (Unit : mm)

Models: ASYA18 / ASYA24 / ASYA30



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

Residential, Commercial & Light Commercial

VENTILATION

92 VENTILATION Lineup
94 Energy Recovery Ventilator
98 DX-Kit for Air Handling Application
• for VRF Outdoor Unit
100 **New** DX-Kit for Air Handling Application
• for Single Split Outdoor Unit

Lineup

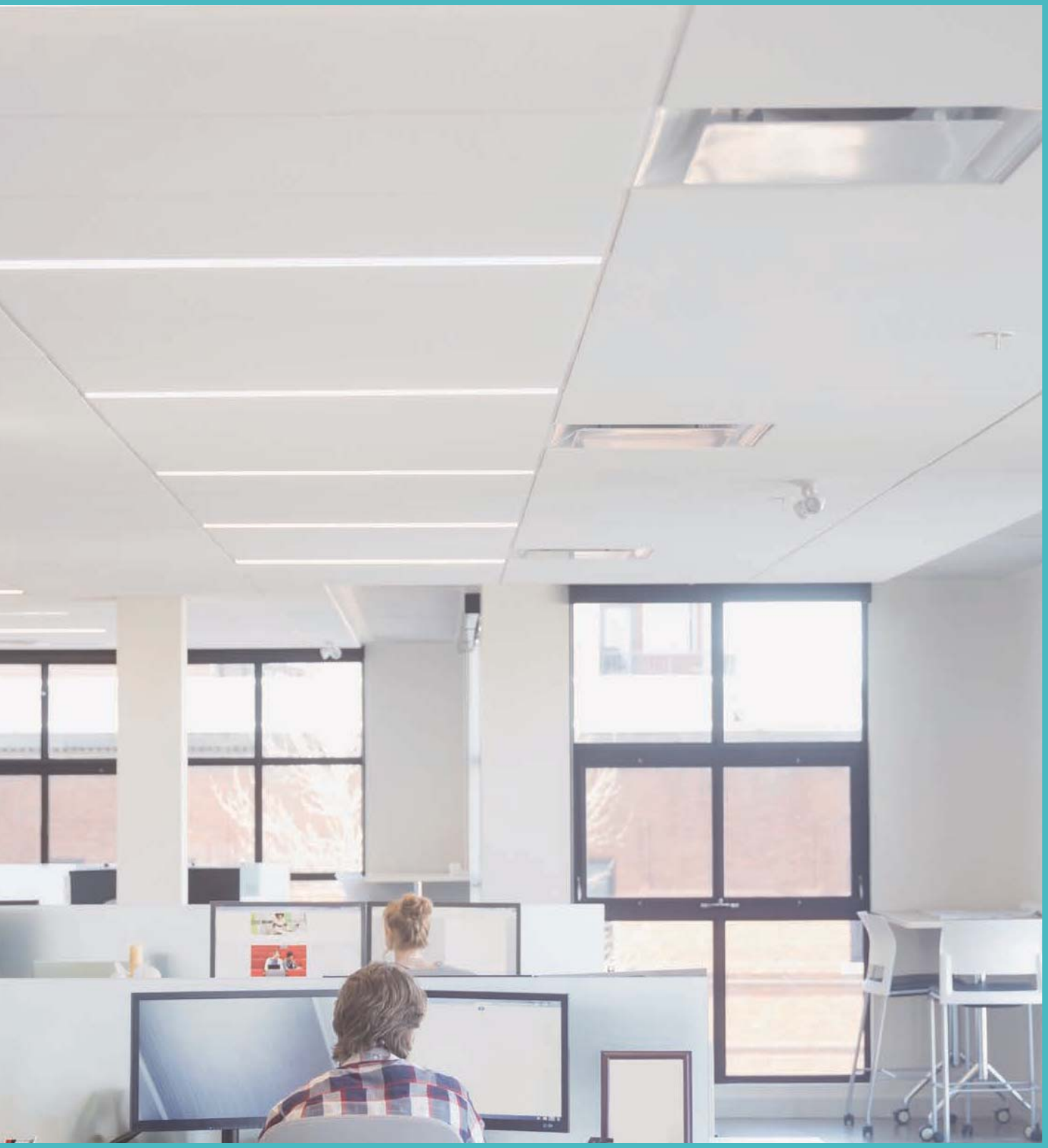
Airflow rate (m^3/h)	250	350	500	800	1000
Energy Recovery Ventilator	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C

Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for Air Handling Applications for VRF Outdoor Unit	EEV unit UTP-VX30A	Control unit UTY-VDGX		EEV unit UTP-VX60A	Control unit UTY-VDGX		EEV unit UTP-VX90A	Control unit UTY-VDGX	EEV unit UTP-VX90A×2	Control unit UTY-VDGX

Connectable capacity class (kW)	3.5 - 22.0
DX-Kit for Air Handling Applications for Single Split Outdoor Unit NEW	UTY-XDZX

Effective heat exchange and simultaneous fresh air ventilation

High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.



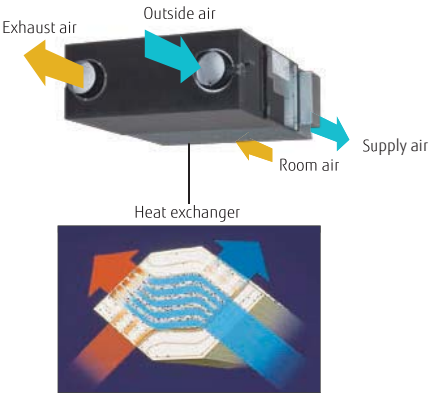
Energy Recovery Ventilator

Energy recovery ventilator unit offers maximum comfort and greater energy savings.

Heat exchange ventilation and normal ventilation

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

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



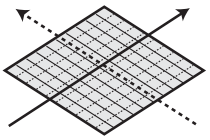
Adopts a highly efficient counter-flow heat exchange element

Energy efficiency and ecology

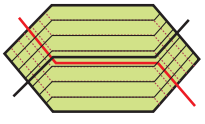
Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect improved.



Other element
(Cross-flow element)



Fujitsu element
(Counter-flow element)

Quiet operation

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

25.5dB
(UTZ-BD035C)

Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Slim shape and easier installation

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

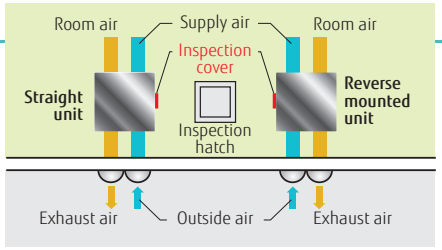
Height **270 mm**
UTZ-BD025C

Height **388 mm**
UTZ-BD080C/BD100C

Height **317 mm**
UTZ-BD035C/BD050C

Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Simple remote operation

Easy operation by connecting a liquid crystal switch

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

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

UTZ-BD025C UTZ-BD035C UTZ-BD050C UTZ-BD080C UTZ-BD100C

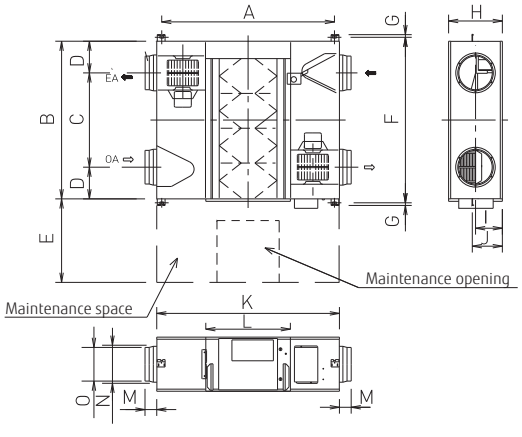
Specifications

Rated flow rate				250 m³/h	350 m³/h	500 m³/h	800 m³/h	1000 m³/h
Model No.				UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
Power source				220 - 240 V, 50Hz				
Heat Exchange Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33.0/31.0 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37.0 / 34.5	38.5 / 37.5 / 34.5
Normal Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33.0 / 31.0 / 25.5	38.5 / 38.0 / 32.5	37.5 / 37.0 / 34.5	40.5 / 39.5 / 36.5
Dimensions		W×D×H	mm	882 × 599 × 270	1,050 × 804 × 317	1,090 × 904 × 317	1,322 × 884 × 388	1,322 × 1,134 × 388
Weight			kg	29	49	57	71	83
Outlet duct diameter			mm	150	150	200	250	250
Operation range			℃	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40
Maximum humidity			%	85	85	85	85	85

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

Dimensions

(Unit : mm)



	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100B
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322	1,322
L	414	470	470	612	612
M	95	70	70	85	85
N	Ø164	Ø164	Ø210	Ø258	Ø258
O	Ø144	Ø144	Ø194	Ø242	Ø242

Outdoor Air Unit

Production by order

Models

ARXH054GTAH
ARXH072GTAH
ARXH096GTAH

The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.

ARXH054GTAH

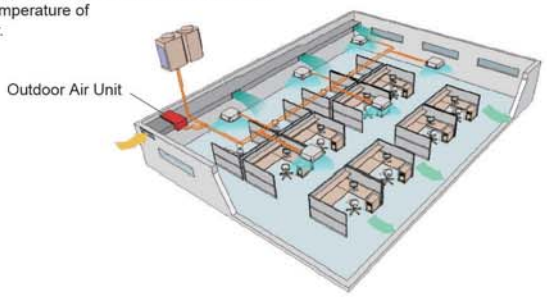
ARXH072GTAH

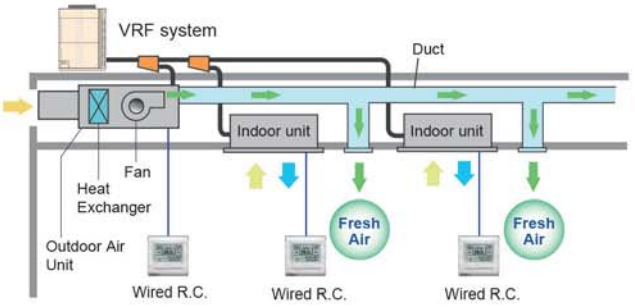
ARXH096GTAH

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

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

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





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

Specifications

(Tentative)

Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model No.			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source			230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input Power	Cooling / Heating	W	179	292	370
Airflow Rate		m³/h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level		dB (A)	42	44	47
Dimensions (H x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight		kg	48	55	71
Connection Pipe Diameter (Small / Large)		mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

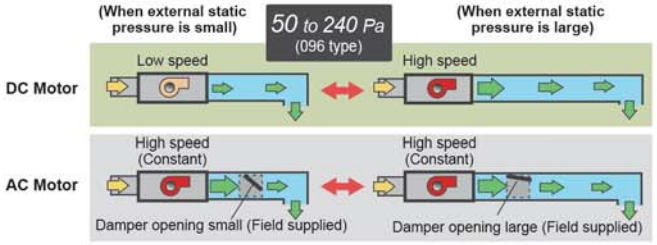
Note : Specifications are based on the following conditions.
Cooling : Outdoor temperature of 33°CDB / 28°CWB.
Heating : Outdoor temperature of 0°CDB / -2.9°CWB.
Pipe length : 7.5 m Voltage : 230 [V].

High energy savings and flexible duct design by using DC motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.

054 / 072 type　　096 type

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



Top class compact design

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

(ARXH072 type)

Various Controller

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

Individual Controller

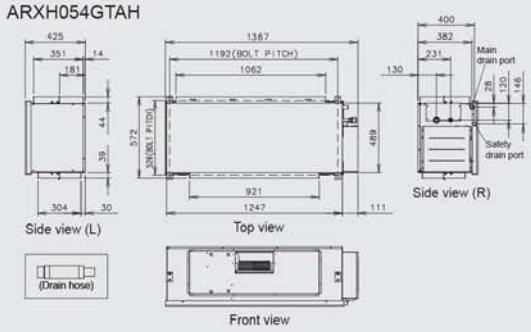
Central Controller

* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.

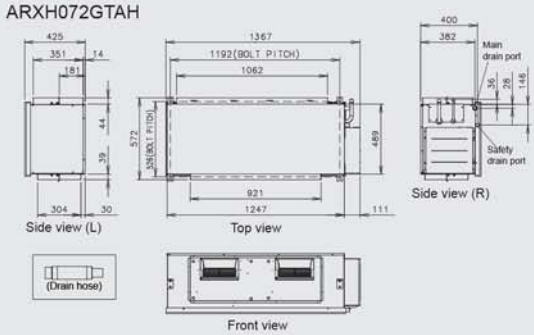
Dimensions (Unit : mm)

Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

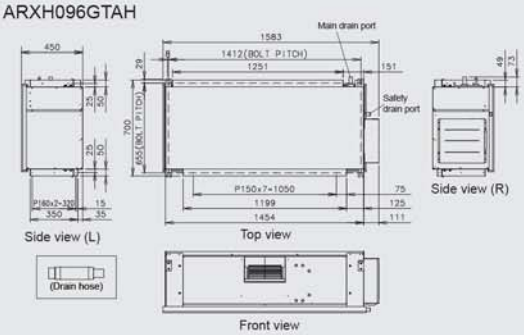
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH



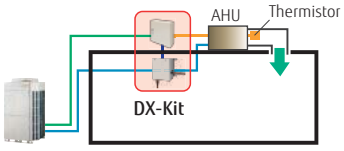
DX-Kit

for Air Handling Application

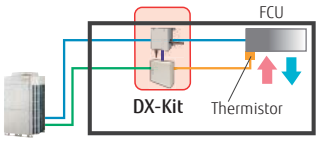
for VRF Outdoor Unit

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

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

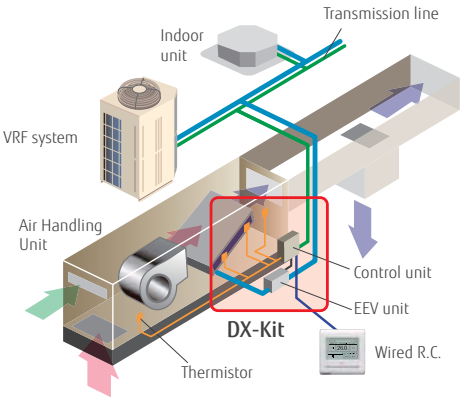


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



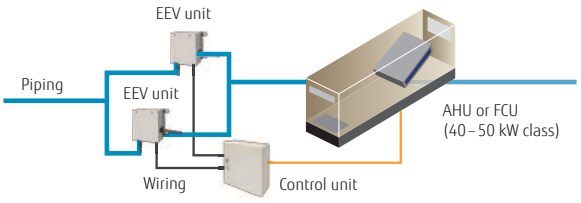
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



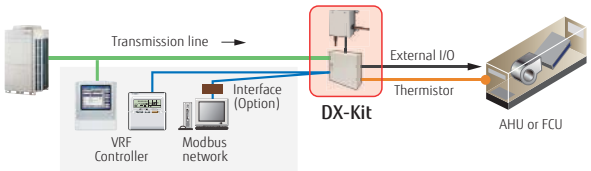
Supports a wide range of capacity classes

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

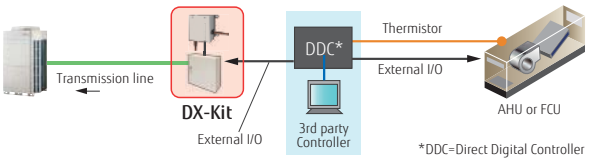


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



*DDC=Direct Digital Controller

Functions Summary

Inputs

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

Outputs

- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

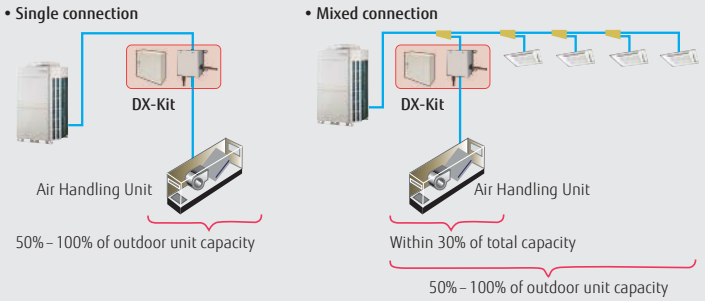
MODBUS® Control

Possible to control via a MODBUS enabled BMS by using optional interface.

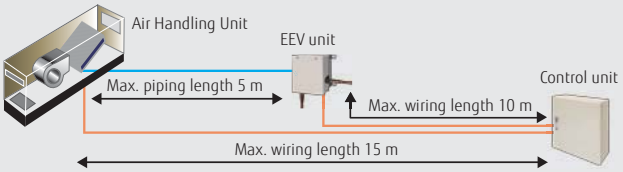
Installation Limitation

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

Connectable capacity



Piping and wiring length



For 2 EEV units connection (option)
Separation Tube: UTP-LX180A

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

EEV unit
UTP-VX30A

EEV unit
UTP-VX60A

EEV unit
UTP-VX90A

Control unit
UTY-VDGX

Specifications

Connectable Capacity class			5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	kW	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating		6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5

Control unit		UTY-VDGX
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	400 × 400 × 120

EEV unit		UTP-VX30A	UTP-VX60A	UTP-VX90A	UTP-VX90A×2
Connection pipe diameter (Liquid)	mm	Ø9.53	Ø12.70	Ø12.70	Ø12.70
Dimensions (H × W × D)		160 × 220 × 90			

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

NEW

DX-Kit

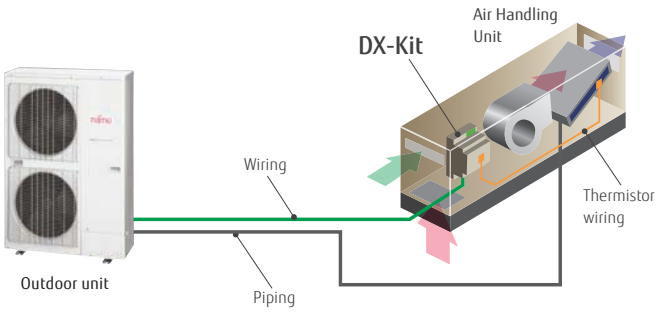
for Air Handling Application

for Single Split Outdoor Unit

This kit enables other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu General Split outdoor unit.

Flexible connectivity

This kit is a control unit to allow connection to third party manufacturer equipment. Fujitsu General single split outdoor units can be used with this control unit, creating an ideal solution when a unique air handling unit is required.

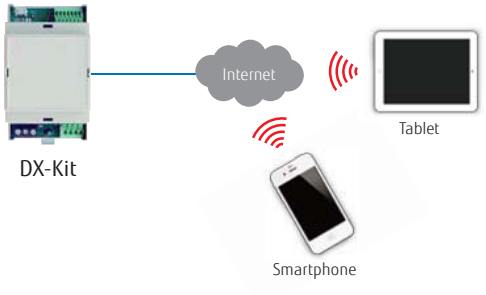


Supports a wide range of capacity class

Connectable large capacity range: 3.5 kW ~ 22.0 kW (Nominal)

Operation from anywhere on your mobile device

Available to use operation and management from remote control such as Smartphones and Tablets



Functions Summary

Inputs

- ON/OFF
- Heating/Cooling operation mode
- Capacity demand (analogue 0-10 V)
- Heat exchanger temperature

Outputs

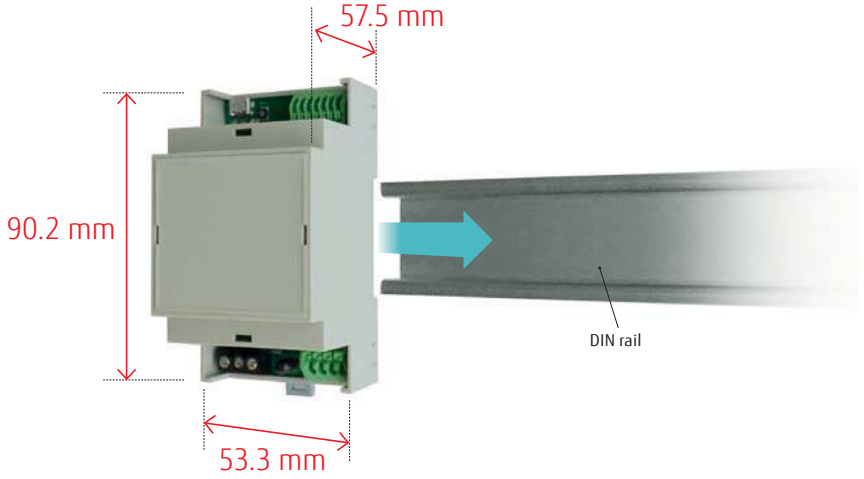
- Status of Compressor, Defrost, Error (Potential free relays)
- LED status indication

Wireless LAN Control

Wireless LAN control with cloud connectivity enables safe remote monitoring and control from anywhere.

Easy installation

- Simple installation through compact DIN rail mountable enclosure
- No need for expansion devise
- No separate external power required



model: UTY-XDZX

Specifications

BTU			12	14	18	24	30	36	45	54	60	72	90
Capacity (Nominal)	Cooling	kW	3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.3	15.0	19.0	22.0
	Heating		4.1	5.0	6.0	7.8	10.0	10.8	13.3	15.8	18.0	22.4	27.0

Model No.		UTY-XDZX
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	90.2 × 53.3 × 57.5
Weight	g	110

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].

Light Commercial & Commercial, Residential

CONTROL SYSTEM & OPTIONAL PARTS

CONTROL SYSTEM

INDIVIDUAL CONTROL

112 Wired Remote Controller (Touch Panel)
113 Wired Remote Controller
114 Simple Remote Controller

CONVERTOR/ADAPTOR

115 MODBUS® Convertor
KNX® Convertor
116 **New** Wireless LAN Interface
117 External Switch Controller
118 Network Convertor for Single Split

INDIVIDUAL CONTROL

119 Wired Remote Controller
120 Wireless Remote Controller
121 IR Receiver Unit

CENTRALIZED CONTROL

122 Central Remote Controller

CONVERTOR/ADAPTOR

123 MODBUS® Interface
KNX® Interface
124 Wireless LAN Interface

INDIVIDUAL CONTROL

125 Wireless Remote Controller
IR Receiver Unit
* For 3D Flow Cassette **New**

CENTRALIZED CONTROL

126 Group Remote Controller/ Network Convertor
127 **New** Central Remote Controller
128 Touch Panel Controller
132 System Controller Software
System Controller Lite Software

CONVERTOR/ADAPTOR

136 BACnet® Gateway Software
137 BACnet® Gateway Hardware
Network Convertor for LONWORKS®
138 MODBUS® Convertor
KNX® Convertor
139 Signal Amplifier

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140 Control System List

OPTIONAL PARTS

146 Auto Louver Grille Kit
147 **New** External Power Supply Unit

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148 Optional Parts List
150 Function List
154 Separation Tube etc.

SPLIT
MULTI SPLIT
VRF J-Series
VRF V-Series

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 convertors that link with other systems.

Control System Overview

For Split & Multi Split

All indoor units are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. 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.

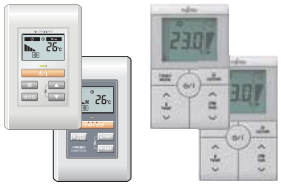
Air Conditioning
Individual Control

Wired Remote Controller

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

Wireless Remote Controller

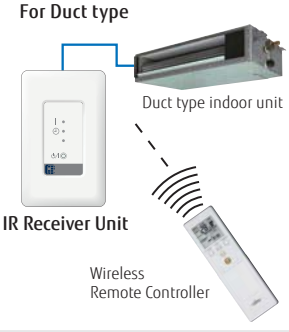
Simple and sophisticated operations with a choice of 4 daily timers



Simple Remote Controller

Compact remote controller provides access to basic functions

For Duct type

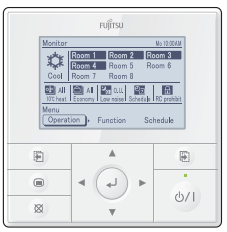


For Cassette type

IR Receiver Unit

Necessary to control for all duct type by Wireless Remote Controller

Air Conditioning
Centralized Control



Central Remote Controller For 5-6 & 8 Rooms Multi

Central Remote Controller allows individual and central control

Convertor/Adaptor

For external control via BMS/Home Automation Systems

MODBUS® Convertor
For indoor unit
UTY-VMSX

MODBUS® Interface
For indoor unit
FJ-RC-MBS-1

KNX® Convertor
For indoor unit
UTY-VKSX

KNX® Interface
For indoor unit
FJ-RC-KNX-1i

Wireless LAN Interface
FJ-RC-WIFI-1

Network Convertor

(DC power supply)
UTY-VTGX

(AC power supply)
UTY-VTGXV

Online Control (Wireless Control via Smart Phone/Tablet)

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

NEW

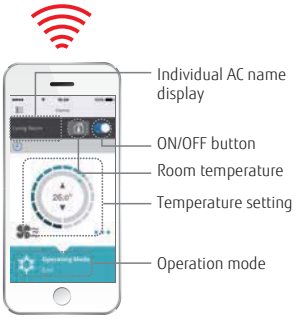
Wireless LAN Interface
(USB)

+

FGLair™ Download Free
Download on the App Store
Google play

User friendly app

User friendly screen display facilitates easy operation.



Control System Overview

For VRF

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

Air Conditioning
Individual Control

Wired Remote Controller
(Touch panel)
UTY-RNRYZ3

Wired Remote Controller
UTY-RLRY

Simple Remote Controller
UTY-RSRY
UTY-RHRY
Without operation mode

Wireless Remote Controller
UTY-LNHY

For Duct

New
For 3D Flow Cassette/ Duct

IR Receiver Unit
UTB-YWC For Duct

NEW
UTY-TRHX
For 3D Flow Cassette/Duct

For Cassette

For Circular Flow Cassette

UTY-LRHYB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

Air Conditioning
Centralized Control

System Controller Software
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)

Max. Controllable **1600**[*2] indoor units

*1: USB Adaptor: Echelon® U10 USB Network Interface
*2: Lite edition is max. controllable 400 indoor units

Touch Panel Controller
UTY-DTGYZ1

Max. Controllable **400** indoor units

NEW
Central Remote Controller
UTY-DCGYZ1

Max. Controllable **100** indoor units

Group Remote Controller
UTY-CGGY

Network Convertor
(For Group Remote Controller)
UTY-VGGXZ1

Max. Controllable **8** Remote Controller Groups

Convertor/Adaptor

For external control via BMS/Home Automation Systems

BACnet® Gateway
UTY-ABGXZ1 **Software**

BACnet® Gateway
UTY-VBGX **Hardware**

Network Convertor
(For LONWORKS®)
UTY-VLGX

MODBUS® Convertor For indoor unit
UTY-VMSX

MODBUS® Convertor
UTY-VMGX

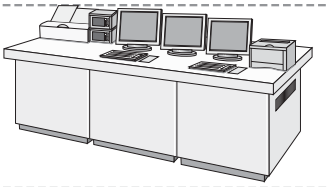
KNX® Convertor For indoor unit
UTY-VKSX

KNX® Convertor For VRF
UTY-VKGX

Wireless LAN Interface
UTY-TFSXZ1

External Switch Controller
UTY-TERX

BMS/BAS[*3]



BMS[*3]**, Home automation system**

or

*3: BMS/BAS: Building Management System/Building Automation System

Card-key
(Locally purchased)

Internet device

Convertor/Adaptor

For system expansion

Network Convertor
(DC power supply)
UTY-VTGX

Network Convertor
(AC power supply)
UTY-VTGXV

Signal Amplifier
UTY-VSGXZ1

Best Control Solution for Each Property

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

SHOP

Type	Individual Control	Centralized Control				Integrating Control (Interface)		
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●	●			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			●	●	●	●	●	●
Group Control		●	●	●	●			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●			
Remote Management			●	●	●			
Manage multiple sites			●	●	●			
Monitor energy consumption					●			
Control third party products					●			
Integrate FGL A/C into BMS						●	●	●

HOTEL

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY, UTY-LNTX	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	●	●	●									
Centralized A/C control for common space				●	●	●	●	●	●	●	●	
Limited control for hotel guests					●	●	●	●	●	●	●	
Remote Management					●	●	●					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with window contact												●
Interlock with key-card												●

OFFICE

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY, UTY-LNTX	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	●	●	●	●	●							
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●	●	●				
Centralized A/C control for management					●	●	●	●	●	●	●	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)					●	●	●	●	●	●	●	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Remote Management					●	●	●					
Energy Charge Apportionment						●	●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with door contact												●
Interlock with human sensor for meeting room												●

Comparison Table of Controllers

Item								
			Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1
Model name			UTY-RNRYZ3	UTY-RLRY	UTY-RVNYM	UTY-RSNYM	UTY-RSRY	UTY-RHRY
Max. controllable remote controller groups			1	1	1	1	1	1
Max. controllable indoor units			16	16	16	16	16	16
Max. controllable groups			–	–	–	–	–	–
Air conditioning control function	On / Off		●	●	●	●	●	●
	Operation mode setting		●	●	●	●	●	–
	Fan speed setting		●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●
	Room temp. set point limitation		●	●	●	–	●	●
	Test operation		●	●	●	●	●	●
	Up/down air direction flap setting		●	●	●	–	●	●
	Right/left air direction flap setting		●	●	●	–	–	–
	Individual louver control		●	–	–	–	–	–
	Group setting		–	–	–	–	–	–
	RC prohibition		–	–	–	–	–	–
	Anti freeze setting		●	–	–	–	–	–
	Set temp. auto return		●	●	●	–	–	–
	Economy mode setting		●	●	●	–	–	–
	Human sensor control		●	–	–	–	–	–
Display	Error		●	●	●	●	●	●
	Defrosting		●	●	●	●	●	●
	Current time		●	●	●	–	–	–
	Day of week		●	●	●	–	–	–
	R.C. prohibition		●	●	●	●	●	●
	Cooling/heating priority		●	●	–	●	●	●
	Address display		●	●	●	●	●	●
	Room temp		●	–	●	–	●	●
	Multi language		●	–	●	–	–	–
	Summer time		●	–	●	–	–	–
	Name registration		●	–	–	–	–	–
	Backlight		●	–	●	●	●	●
	2D floor layout / 3D building display		–	–	–	–	–	–
	Refrigerant leakage detection function		–	–	–	–	–	–
Timer	Schedule timer	Period	Week	Week	Week	–	–	–
		On/off, Temp, Mode, Times per day	8	4	8	–	–	–
	On/off timer		●	●	●	–	–	–
	Sleep timer		–	–	–	–	–	–
	Program timer		–	–	–	–	–	–
	Auto off timer		●	●	●	–	–	–
	Day off		●	●	●	–	–	–
	Min. unit of timer setting (Minutes)		10 • 30	30	30	–	–	–
Control	Status monitoring system		–	–	–	–	–	–
	Electricity charge apportionment		–	–	–	–	–	–
	Error history		●	●	●	–	–	–
	Emergency stop		–	–	–	–	–	–
	Remote management		–	–	–	–	–	–
	Energy saving management		–	–	–	–	–	–
	E-mail notification for malfunction		–	–	–	–	–	–
	Key lock		● Child lock	● Child lock	● Child lock	–	–	–
	Low noise mode		–	–	–	–	–	–

Wireless Remote Controller	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite Software	System Controller Software
UTY-LNHY	UTY-LNTY, UTY-LNTX	UTY-DMMYM	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
1	1	1	8	100	400	400	1600
16	16	8	128	100	400	400	1600
–	–	–	–	50	400	400	1600
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
–	–	–	–	●	●	●	●
●	●	–	–	●	●	–	–
●	●	–	–	●	●	●	●
●	–	–	–	●	●	●	●
–	–	–	–	●*3	●	–	–
–	–	–	–	●	●	●	●
–	–	●	–	●	●	●	●
–	–	–	–	●	●	●	●
–	–	–	–	–	●	–	–
●	●	●	–	●	●	●	●
–	–	●	–	–	●	●	●
–	–	●	●	●	●	●	●
–	–	–	–	●	●	●	●
●	●	●	●	●	●	●	●
–	–	–	●	●	●	●	●
–	–	●	●	●	●	●	●
–	–	–	●	●	●	●	●
–	–	–	●	●	●	●	●
–	–	–	–	–	●	–	–
–	–	●	–	●	●	●	●
–	–	●	–	●	●	●	●
–	–	–	–	●	●	●	●
–	–	●	–	●	●	–	–
–	–	–	–	–	–	–	●
–	–	–	–	●	●	●	●
–	–	Week	Week	Week	Year	Year	Year
–	–	4	4	20	20	144	144
●	●	–	–	–	–	–	–
●	●	–	–	–	–	–	–
●	●	–	–	–	–	–	–
–	–	–	–	●	●	–	–
–	–	●	–	●	●	●	●
5	5	5	10	10	10	10	10
–	–	–	–	●	●	●	●
–	–	–	–	–	○	○	●
–	–	–	●	●	●	●	●
–	–	–	–	●*2	●*2	–	–
–	–	–	–	●	●	○	●
–	–	–	–	–	–	○	○
–	–	–	–	●	●	●	●
–	–	● Child lock	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting
–	–	●	–	–	●	–	–

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control. *3 Only individual airflow batch reset is mounted.
●: Supported ○: Optional function –: Not supported yet

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3

Max. Controllable
16 indoor units

Max. Controllable
1 Group

Easy operation by high-definition large STN-LCD touch panel screen

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

High performance and compact size

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

Accurate and comfortable control

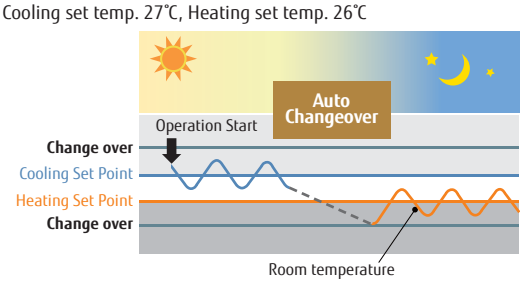
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.

Various energy saving control

Custom Auto

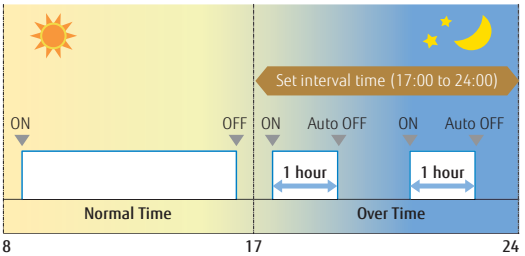
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.



Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRYZ3
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY

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

Max. Controllable
16 indoor units

Max. Controllable
1 Group

High performance and compact size

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

High visibility and easy operation

- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.

Specifications

Model name	UTY-RLRY
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 17
Weight (g)	170

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

UTY-RSRY / UTY-RHRY (Without operation mode)

Without operation mode

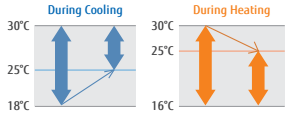
Compact remote controller provides access to basic functions

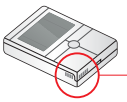
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

Max. Controllable
16 indoor units
Max. Controllable
1 Group

Corresponding to various applications

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





Room temperature sensor

Simple Remote Controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY (Without operation mode)

Without operation mode

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Backlight enables easy operation in a darkened room.
- 3-wire type

Easy-to-use operation

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Max. Controllable
16 indoor units
Max. Controllable
1 Group

Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSNYM, UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC 12 V is supplied by the indoor unit.

MODBUS® Convertor for Indoor Unit

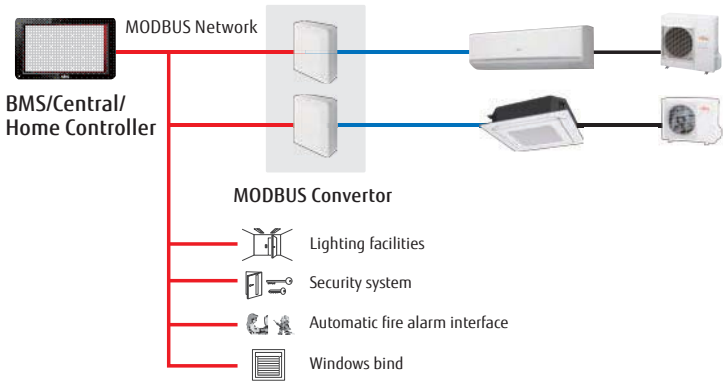
UTY-VMSX

Max. Connectable

1 Single indoor unit

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Convertor must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.

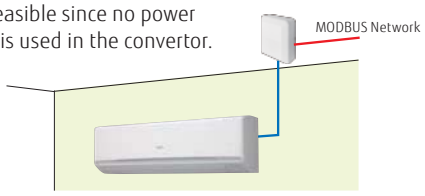


Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature setting and display
- Economy mode setting
- Error status

Easy Installation

Flexible installation locations with neat wirings are feasible since no power supply cable is used in the convertor.



KNX® Convertor for Indoor Unit

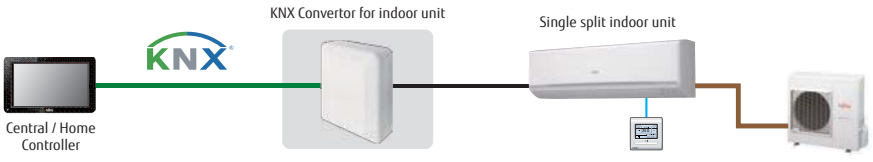
UTY-VKSX

Max. Connectable

1 Single indoor unit

KNX Convertor is useful for individual control of indoor.

- New KNX Convertor enables to connect central/home controller and Fujitsu General indoor unit.
- Compact and light weight design



Specifications

Model name	UTY-VMSX
Power supply	DC 12 V
Input Power (W)	Max. 1.2
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	200
Maximum Connectable indoor unit number per 1 MODBUS Convertor	1

Modbus communication specifications

Transfer mode	RTU mode
Communication speed	9600/19200bps
Data bit	8
Parity	even/odd/none
Stop bit	1/2 (no parity)
Network	RS485
Maximum cable length	1000m (3280 ft)

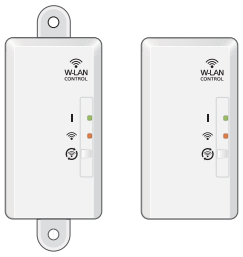
Model name	UTY-VKSX
Power supply	DC 12 V
Power consumption (W)	0.6
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	215

Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2

NEW

USB type for single split models
UTY-TFSXF2

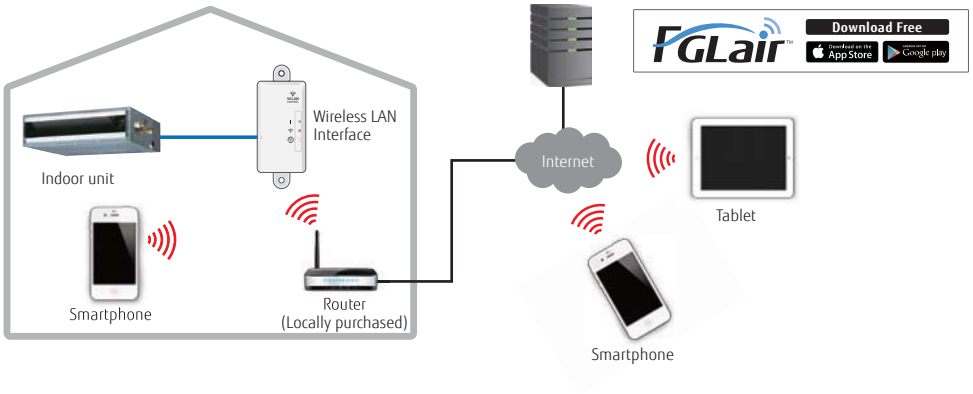


UTY-TFNXZ1 / UTY-TFSXZ1,
UTY-TFSXW1

Max. Connectable

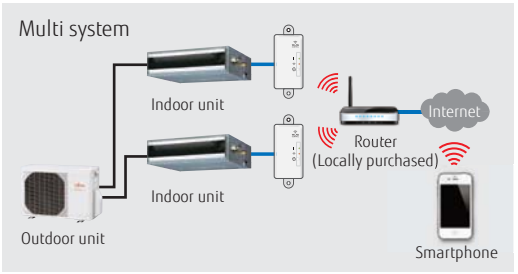
1 Single indoor unit

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



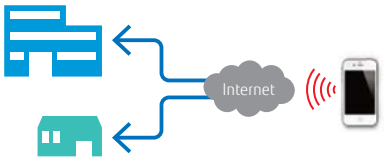
Basic control

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



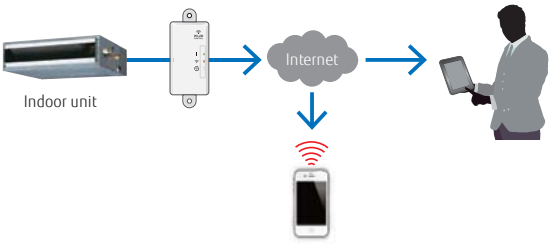
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

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



NEW

Wireless LAN Interface (USB type)

UTY-TFSXF2

New compact USB type is available. Specialized installation work is not required and it can be installed to indoor unit easily.

Specifications

Model name	UTY-TFNXZ1 / UTY-TFSXZ1	UTY-TFSXW1	UTY-TFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	30

External Switch Controller

UTY-TERX

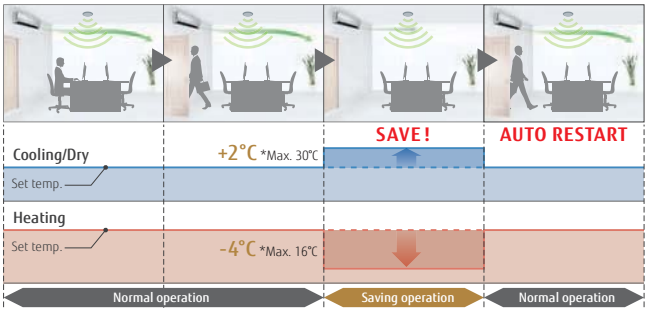
Max. Controllable
1 group

Air conditioner switching can be controlled by connecting other sensor switches

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

Installation example

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



Human sensor equipment needs to be purchased locally.
Human sensor is not mounted on the External Switch Controller.

Specifications

Model name	UTY-TERX
Power Supply	DC 6.5-16 V
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	250

DC 12 V is supplied by the indoor unit.

Network Convertor for Single Split

UTY-VTGX / UTY-VTGXV

UTY-VTGX
DC power supply type

UTY-VTGXV
AC power supply type

Max. Controllable
16
single indoor units

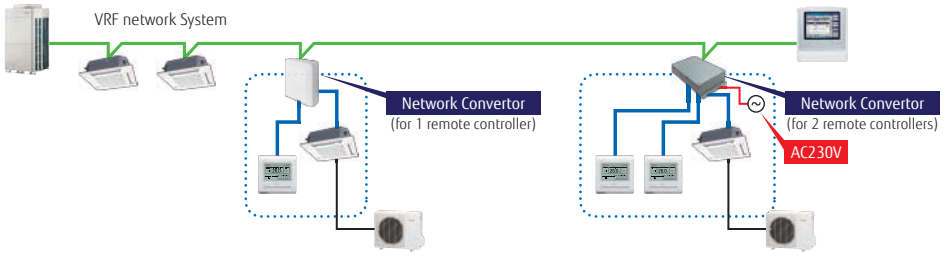
Max. Controllable
1 Group

Max. Controllable
100
Network Convertors

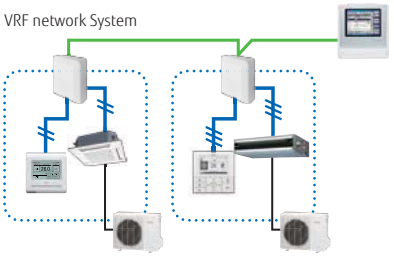
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example.

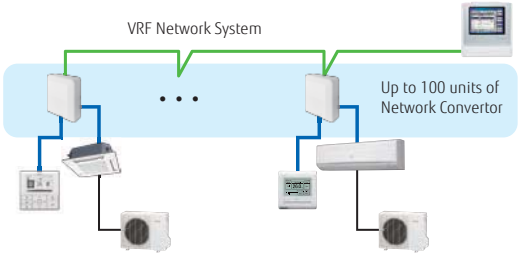
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



- 2-wire and 3-wire type of the wired remote controller can be connectable.



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



Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	220-240 V 50/60 Hz
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Wired Remote Controller

UTY-RVNYM

Max. Controllable
16 indoor units

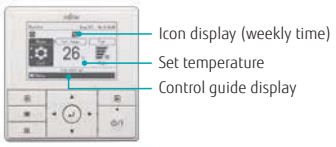
Max. Controllable
1 Group

Hi-grade individual control using various functions.

- 3.7-inch LCD backlight screen.
- Supporting various Energy Saving functions with simple operation.
- Multiple Language Support.
  (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

High visibility and Easy operation

- Icon display of effectual functions.
- Main functions in large icons: "Mode", "Set Temp", and "Fan".
- Easy to operate by Control guide display.
- Simple operation with easy 4-way navigation pad.



High performance and compact size

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

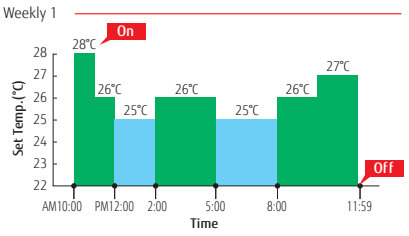
Various energy saving control

Weekly Timer function

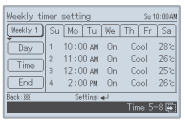
- Can be set up to 8 times per day (On/Off, mode, Temp)
- 2 pattern settings(i.e. Summer/Winter setting) are available.

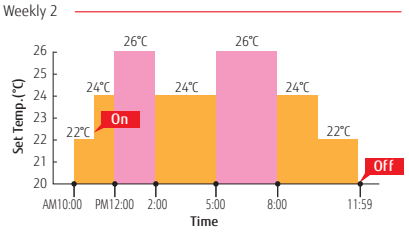
Auto OFF Timer

- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting

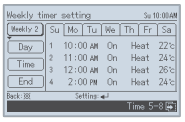


Setting menu in remote controller





Setting menu in remote controller



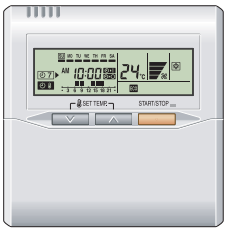
Specifications

Model name	UTY-RVNYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RNNYM



- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

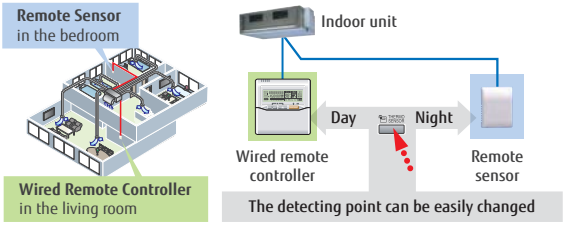
Max. Controllable
16 indoor units

Max. Controllable
1 Group

Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

Example of changing sensor



Displayed temperature is set temperature.

Built-in timers

Weekly timer: Possible to set ON/OFF time to operate twice each day of the week.
Setback timer: Possible to set temperature for two times spans and for each day of the week.
At "Weekly timer" + "Set back timer" setup

Wireless Remote Controller

UTY-LNTY, UTY-LNTX

Max. Controllable
1 indoor units

Max. Controllable
16 Group

Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

Specifications

Model name	UTY-RNNYM	UTY-LNTY/UTY-LNTX
Power Source	DC 12 V	DC5V
Dimensions (H × W × D) (mm)	120 × 120 × 18	145 × 90 × 30
Weight (g)	160	150

DC 12 V is supplied by the indoor unit.

IR Receiver Unit for Duct

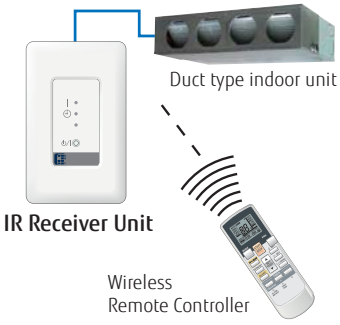
UTY-LRHYM, UTY-LBTYM

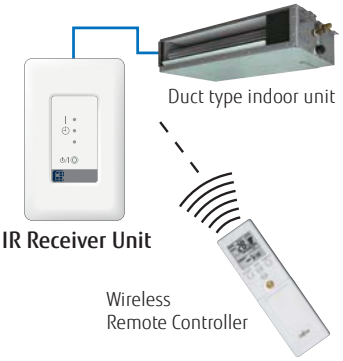
UTY-LRHYM

UTY-LBTYM

Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct cannot be connected to IR Receiver Unit.





IR Receiver Unit for Cassette

UTY-LRHYA2, UTY-LBTYC

UTY-LRHYA2

UTY-LBTYC

Cassette type indoor unit can be controlled with Wireless Remote Controller

Specifications

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LRHYA2	UTY-LBTYC
Battery	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2
Weight (g)	150	150	140	140

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DMMYM

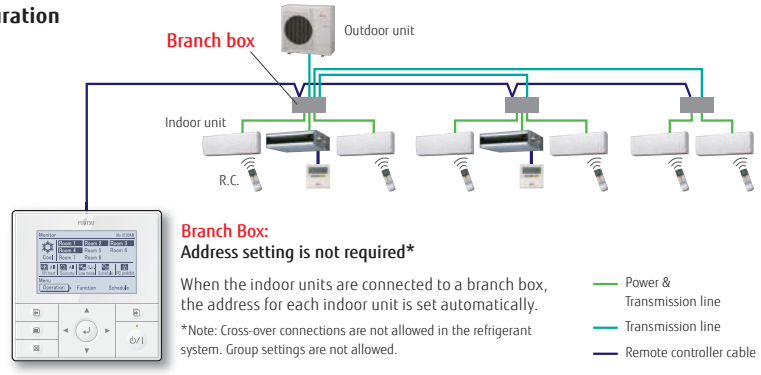
Max. Controllable
1 multi system

Max. Controllable
8 indoor units

For 5-6 Rooms Multi, 8 Rooms Multi

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

System configuration



Central Remote Controller Functions

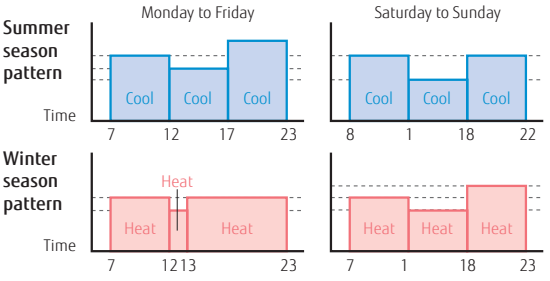
Weekly schedule timer
The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.

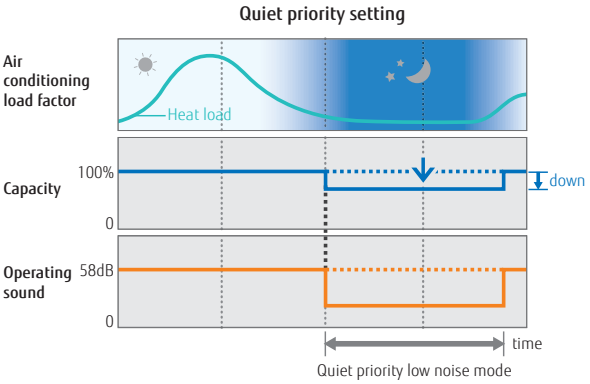
Low noise operation
Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.

10°C heat operation
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

Economy operation
Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibited Settings
The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc.





Specifications

Model name	UTY-DMMYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC 12 V is supplied by the indoor unit.

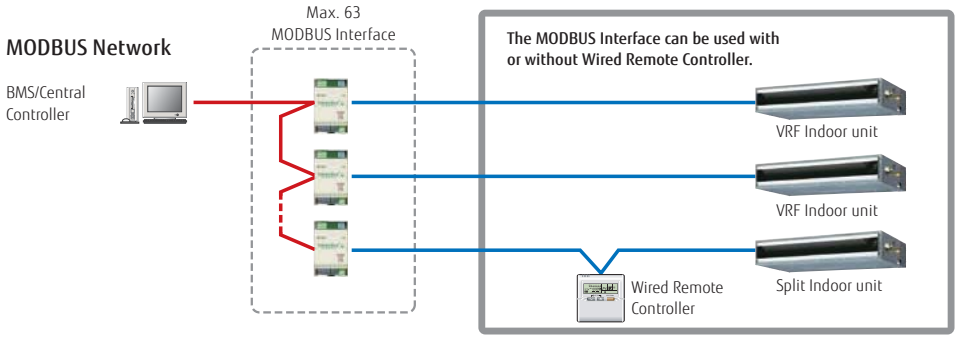
MODBUS® Interface

FJ-RC-MBS-1

Max. Connectable
1 Single indoor unit
Max. Controllable
1 Group

The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.



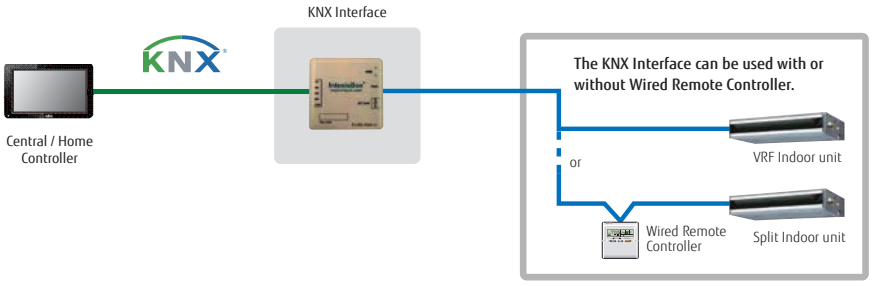
KNX® Interface

FJ-RC-KNX-1i

Max. Connectable
1 Single indoor unit
Max. Controllable
1 Group

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



Specifications

Model name	FJ-RC-MBS-1	FJ-RC-KNX-1i
Dimensions (H × W × D) (mm)	93 × 53 × 58	70 × 70 × 28
Weight (g)	85	70

Wireless LAN Interface

FJ-RC-WIFI-1

Max. Connectable

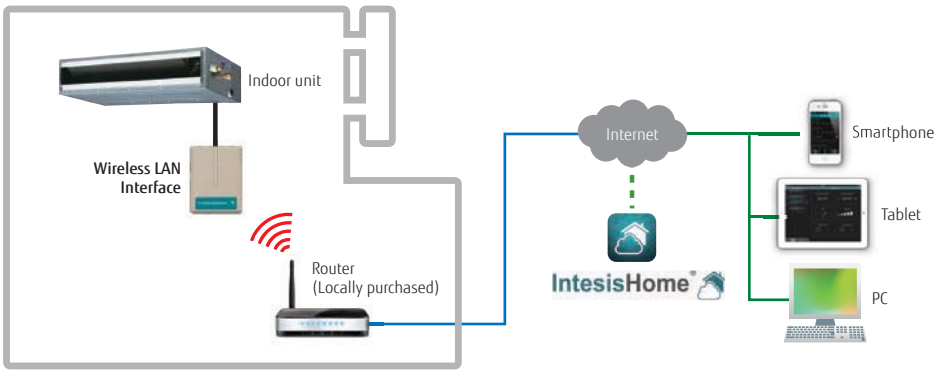
1 Single indoor unit

Max. Controllable

1 Group

IntesisHome

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



Basic control

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

(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

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

Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H × W × D) (mm)	108 × 70 × 28
Weight (g)	80

Wireless Remote Controller

UTY-LNHY

Max. Controllable
16 indoor units

Max. Controllable
1 Group

Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

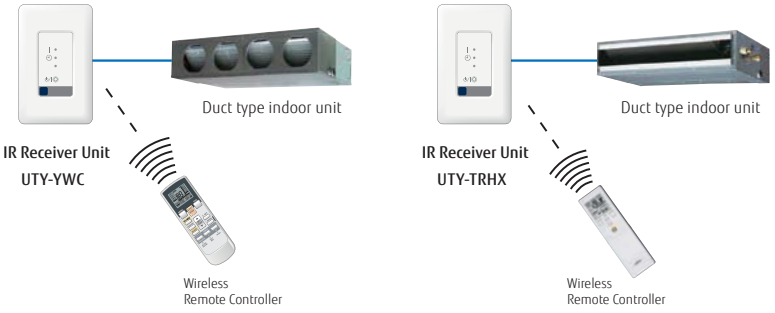
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct can not be connected to IR Receiver Unit.

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHXD, UTY-TRHX

Cassette type indoor unit can be controlled with Wireless Remote Controller

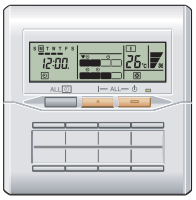
Specifications

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03 / LR03 / AAA)×2	DC 5 V	DC5V	DC5V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight (g)	85	150	140	140	150

DC 12 V is supplied by the indoor unit.

Group Remote Controller/Network Convertor

UTY-CGGY / UTY-VGGXZ1



Group Remote Controllers
UTY-CGGY

Network Convertor
UTY-VGGXZ1
For Group Remote Controller

Max. Controllable
8
remote
controller groups

Max. Controllable
92 indoor units in
8 Groups

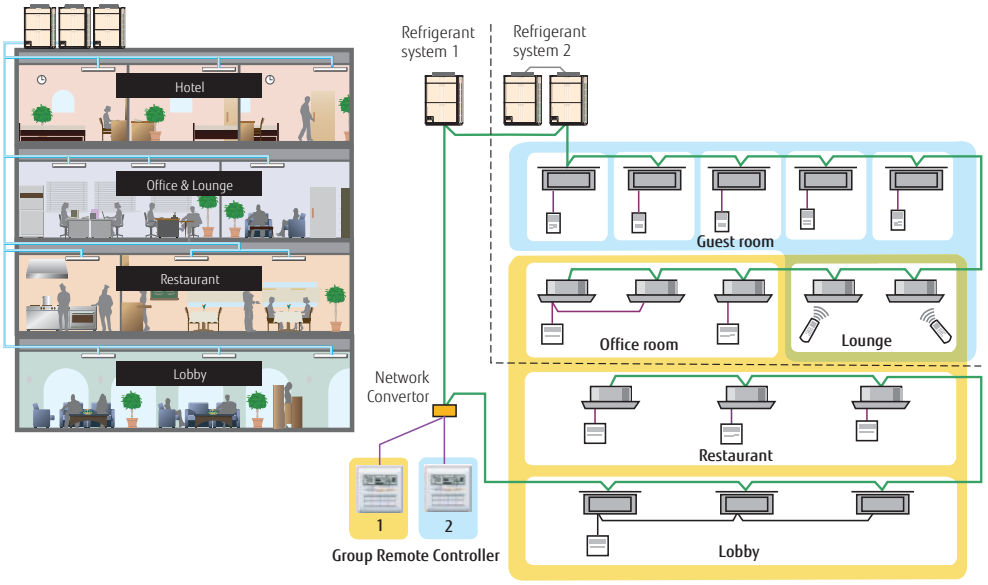
Max. Controllable
2 refrigerant circuits

Group control of indoor units with simple operation

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

Control up to 8 remote controller groups

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



Group Remote Controller 1:
To control office room, lounge, restaurant and lobby (8 remote controller groups)

Group Remote Controller 2:
To control guest room and lounge (7 remote controller groups)

High performance and compact size

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

Built-in weekly timers

The weekly timer is provided as a standard function.

Specifications

Model name	UTY-CGGY
Power Supply	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 18
Weight (g)	200

DC 12 V is supplied by the indoor unit.

Model name	UTY-VGGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Central Remote Controller

UTY-DCGYZ1

NEW

Max. Controllable
100 indoor units

Max. Controllable
50 groups

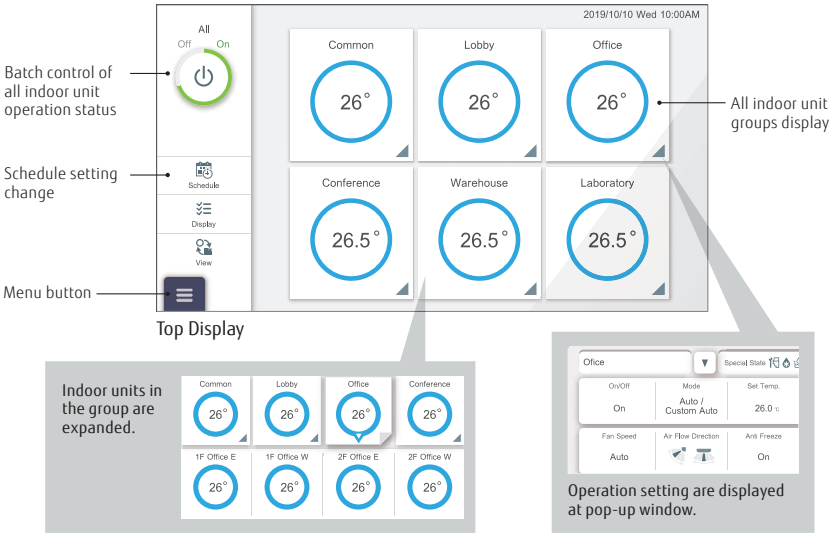
For small- and medium-sized buildings and tenants

- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports max.23 different languages
- Standard language corresponds to 12 different languages. (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)
- Additional language can be integrated by creative language database. *(Bulgarian, Czech, Danish, Estonian, Finnish, Croatian, Hungarian, Romanian, Slovak, Slovenian, Swedish)

*: The other language can be overwritten on the registered one.

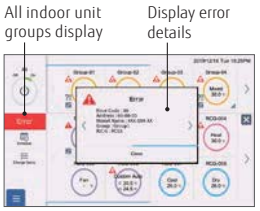
Easy operation

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



Trouble support function

Display error details
Display descriptive explanation when an error occurs



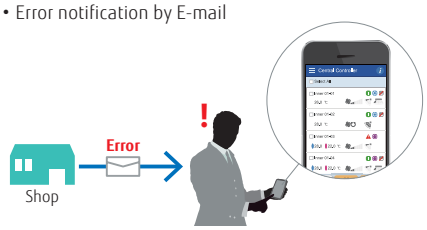
Sensor value monitoring function
Monitor sensor data of indoor unit / outdoor unit, send mail

Notify room temperature by email
Notify by e-mail when the temperature around the air conditioner is too high or too low

Remote monitoring / Remote operation

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

Example
- Control / Monitoring Fujitsu air conditioner
- Error notification by E-mail



Specifications

Model name	UTY-DCGYZ1
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.1 × 37.9
Weight (g)	750

Touch Panel Controller

UTY-DTGYZ1

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

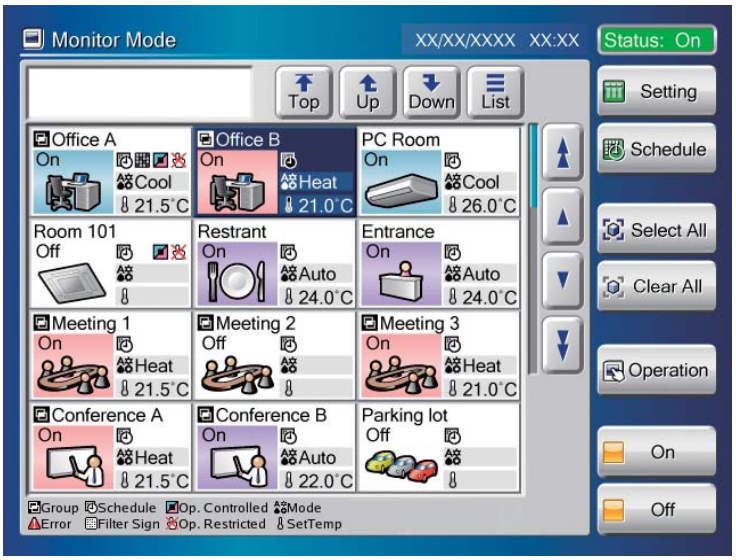
Max. Controllable
400 indoor units

Max. Controllable
100 outdoor units

Max. Controllable
400 groups

Easy Operation

- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon.
- Back color identifies current control operation blue for monitoring, green for operational control.



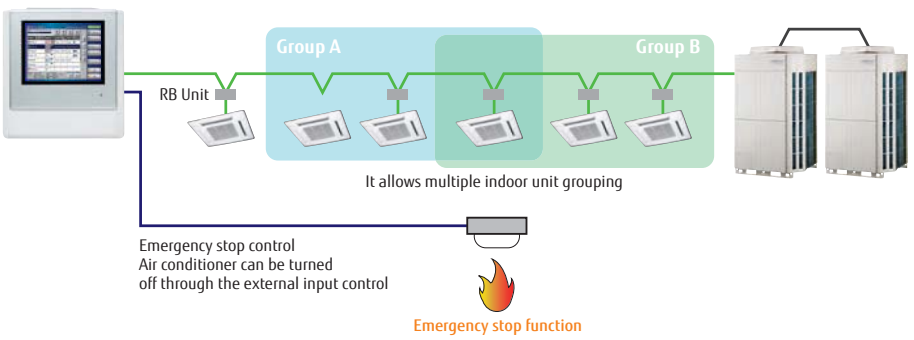
Easy maintenance

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

Easy installation

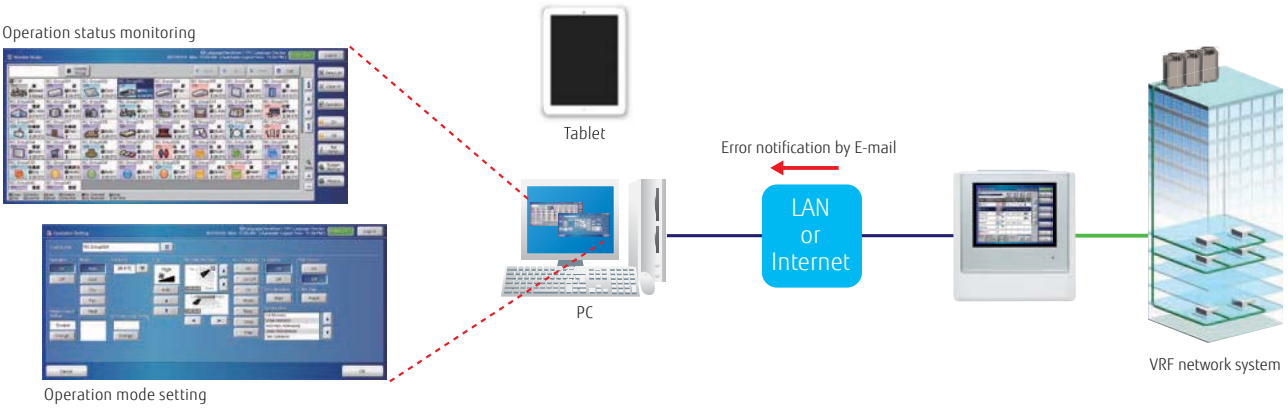
- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation

Up to 400 indoor units can be controlled



Control & monitoring

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



Smart Phone

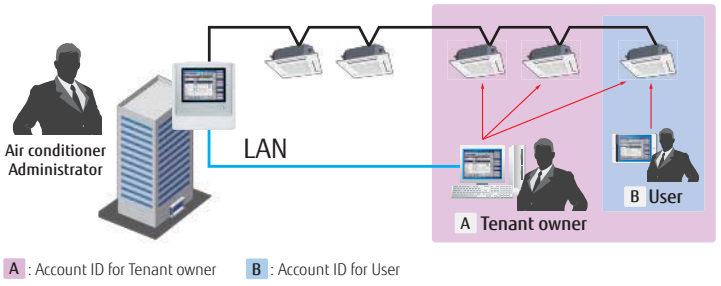
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone 7 (iOS 10.1)	Safari 10

Tablet

Model name	Browser
iPad Pro 9.7 inch (iOS 10.2.1)	Safari 10

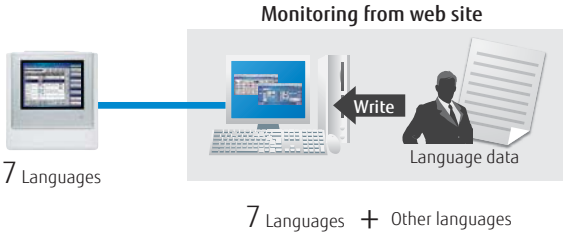
Flexible access permission for Point each level user.

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



Additional languages function

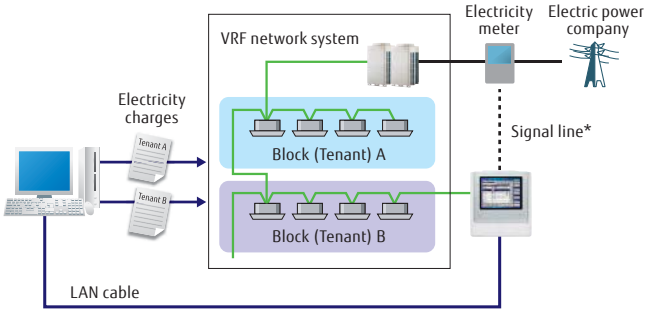
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.
Additional language can be integrated on remote device by creating language database.
Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other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



Electricity charge apportionment
(Option: UTY-PTGXA)

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

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



*: Electricity meter (1unit) can be connected to external input connector of the TPC unit. In this case, electricity meter cannot be connected to outdoor unit simultaneously.

Features: Touch Panel Controller

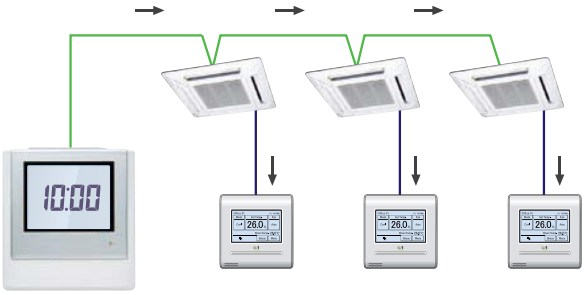
Automatic summer time setting

Providing function

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

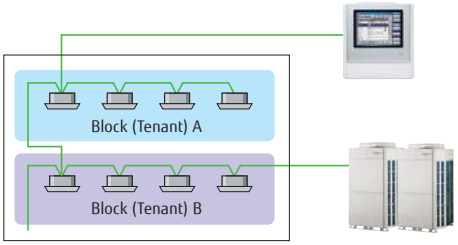
Automatic clock adjustment

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

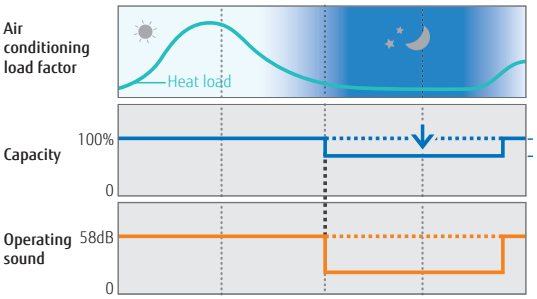


Outdoor low noise operation

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



Quiet priority setting

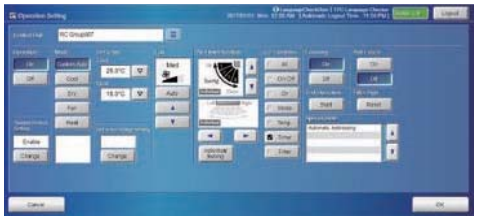


Various energy saving control

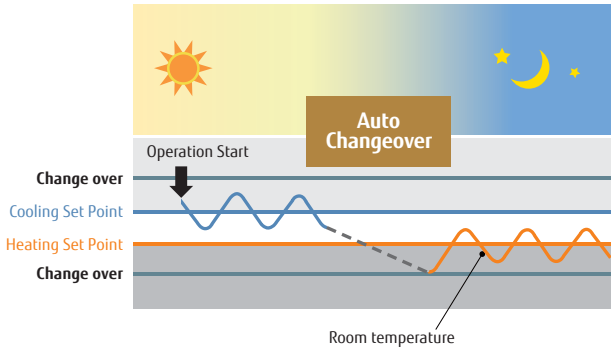
Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.



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



Refrigerant leakage detection function

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

FUNCTIONS SUMMARY

	UTY-DTGYZ1	Monitoring side
Air conditioning control function		
On / Off	●	●
Operation mode setting*	●	●
Fan speed setting	●	●
Room temp. setting	●	●
Room temp. set point limitation	●	●
Test operation	●	●
Up/down air direction flap setting	●	●
Right/left air direction flap setting	●	●
Individual louver control	●*1	●
Group setting	●	●
RC prohibition	●	●
Anti freeze setting	●	●
Set temp. auto return	–	●
Various energy saving control	–	●
Economy mode setting	●	●
Human sensor control	–	●
Display		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
R.C. prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temp	●	●
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	7	7+other
Filter sign reset	●	●
Memory operation	●	●
Refrigerant leakage detection function	●	●

		UTY-DTGYZ1	Monitoring side
Timer			
Schedule timer	Period	Year	Year
	On/off, Temp, Mode, Times per day	20	20
On/off timer		–	–
Sleep timer		–	–
Program timer		–	–
Auto off timer		–	●
Day off		●	●
Min. unit of timer setting (Minutes)		10	10
Control			
Status monitoring system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote management		–	●
Energy saving management		–	–
E-mail notification for malfunction		–	●
Key lock		● Password setting	–
Low noise mode		●	●

●: Supported ○: Optional function –: Not supported yet
*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.

Specifications

Model name	UTY-DTGYZ1
Power Supply	100-240 V 50/60 Hz, Single phase
Dimensions (H × W × D) (mm)	260 × 246 × 54
Weight (g)	2,150
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW

System Controller

UTY-APGXZ1 Software

Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

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

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

System Controller Lite

UTY-ALGXZ1 Software

Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

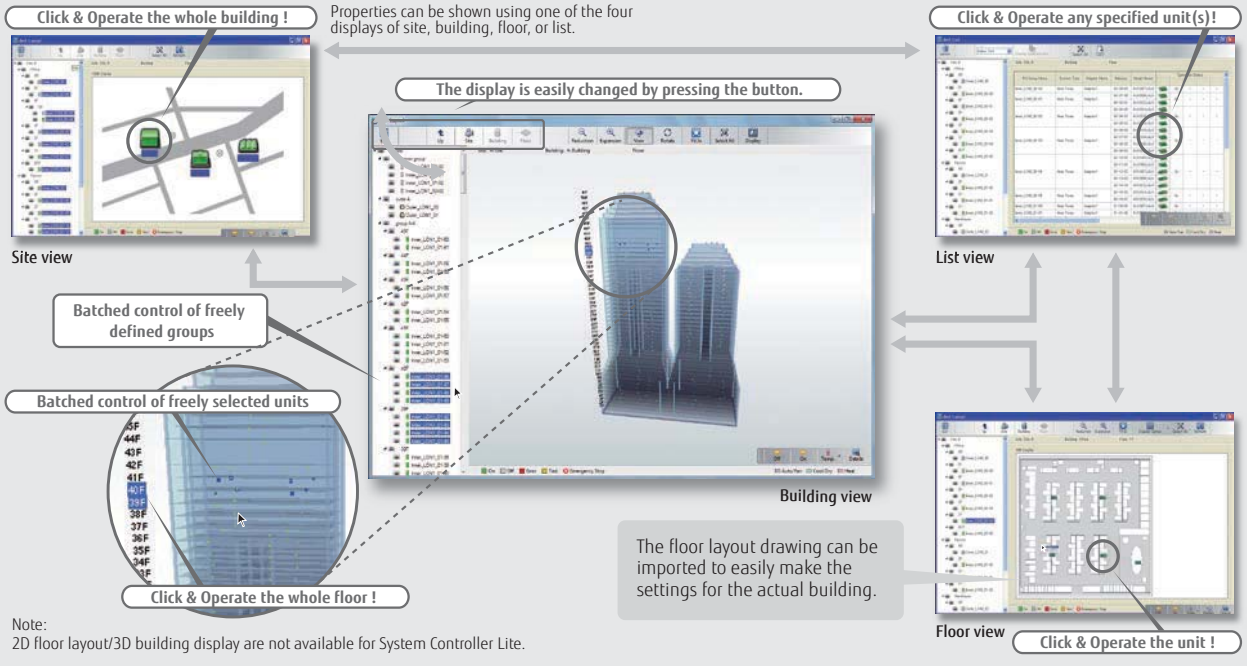
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

High visibility and Easy operation

Click & Operate: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

Freely define groups for batched control: Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.

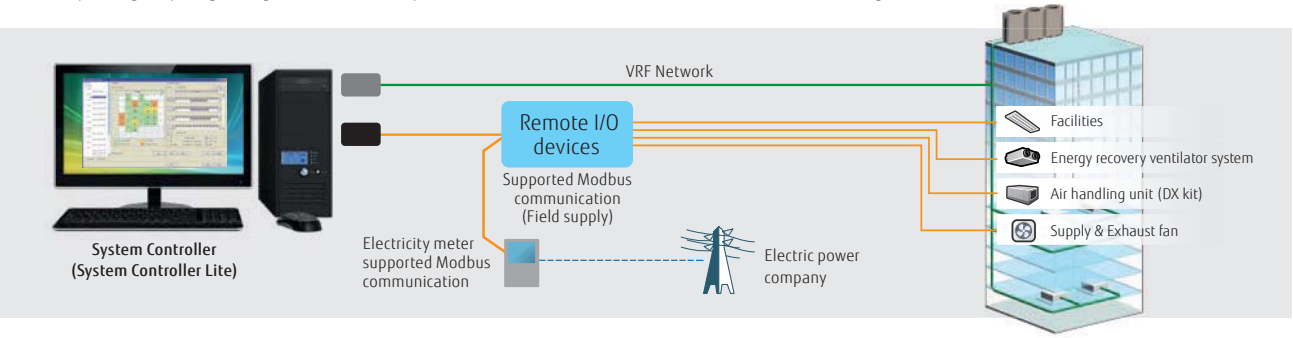


Note:
2D floor layout/3D building display are not available for System Controller Lite.

3rd party devices connected by Modbus can be controlled.

Standard for System Controller **Option** for System Controller Lite UTY-PLGXX2

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



Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

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

Diverse control of indoor unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

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

Operating & control record

Displays the history of operation status and control.

Data base import/export

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

Automatic clock adjustment

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

Electricity charge apportionment

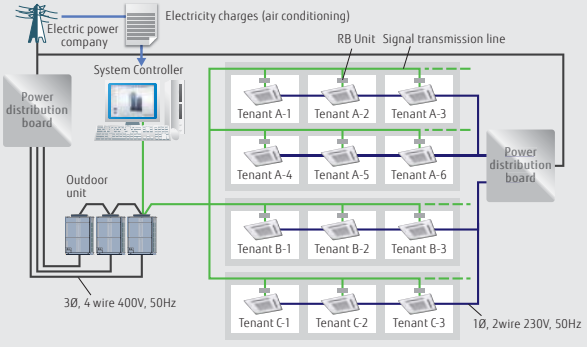
Standard for System Controller

Option for System Controller Lite UTY-PLGXA2

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example



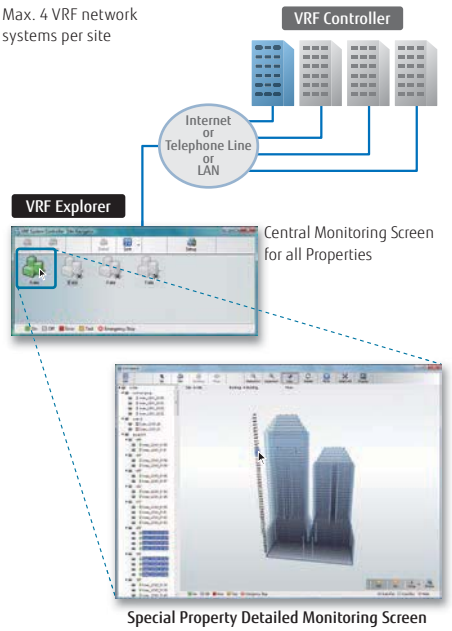
Features: System Controller/System Controller Light

Remote management

Standard for System Controller
Option for System Controller Lite UTY-PLGXR2

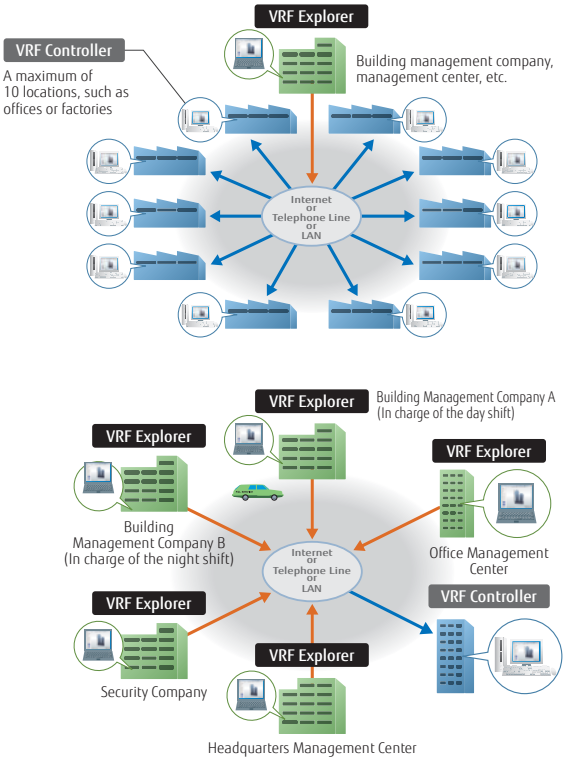
System Controller may be used on site or remotely over various networks for remote central control.
System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system.
VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller.
VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.
By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control



Special Property Detailed Monitoring Screen

Remote central control



Energy saving management

Option for System Controller UTY-PEGXZ1
Option for System Controller Lite UTY-PLGXE2

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

Energy Saving Management Main Screen

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.

Indoor unit rotation operation

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

Peak cut operation

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

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

Function	Type		System controller		System controller lite				
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
System specification	Max. VRF networks supported		4	—	1	—	—	—	—
	Max. indoor unit / remote controller groups per VRF network		400	—	400	—	—	—	—
	Max. outdoor units per VRF network		100	—	100	—	—	—	—
	Max. indoor units / remote controller groups per System controller		1600	—	400	—	—	—	—
	Max. outdoor units per System controller		400	—	100	—	—	—	—
Site supervision	Multi site display		10	—	10	—	—	—	—
	Number of building / 1 site		20	—	—	—	—	—	—
	Number of floor per 1 site		200	—	—	—	—	—	—
	Number of floor per 1 building		50	—	—	—	—	—	—
	3D graphical layout view		●	—	—	—	—	—	—
	2D graphical layout view		●	—	—	—	—	—	—
	List display		●	—	●	—	—	—	—
	Tree display		●	—	●	—	—	—	—
	Group display		●	—	●	—	—	—	—
Error management	Error notification		●	—	●	—	—	—	—
	Audible alarm		●	—	●	—	—	—	—
	Error e-mail notification		●	—	●	—	—	—	—
History	Error history		●	—	●	—	—	—	—
	Operation history		●	—	●	—	—	—	—
	Control history		●	—	●	—	—	—	—
Operation control	Individual control	On/Off	●	—	●	—	—	—	—
		Operation mode*	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Air flow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Room temperature set point limitation	●	—	●	—	—	—	—
		Antifreeze	●	—	●	—	—	—	—
		Outdoor unit low noise setting	●	—	●	—	—	—	—
	Individual management	Remote control prohibition setting	●	—	●	—	—	—	—
		Temperature upper and lower limit setting	●	—	●	—	—	—	—
		Filter sign reset	●	—	●	—	—	—	—
	Other	Memory operation	●	—	●	—	—	—	—
		Pattern operation	●	—	●	—	—	—	—
Schedule	Annual Schedule		●	—	●	—	—	—	—
	Special day setting		●	—	●	—	—	—	—
	On /off per day		72	—	72	—	—	—	—
	On / off per week		504	—	504	—	—	—	—
	Day off		●	—	●	—	—	—	—
	Min. unit of timer setting (Minutes)		10	—	10	—	—	—	—
	Low noise mode Weekly schedule		●	—	●	—	—	—	—
Remote management	Web Operation		●	—	●	—	—	—	—
	Remote monitoring		●	—	—	●	—	—	—
	Remote operation control		●	—	—	●	—	—	—
	Remote function setting		●	—	—	●	—	—	—
Electricity charge apportionment	Apportionment charge/bill calculation		●	—	—	—	●	—	—
	Tenant (block) setting		●	—	—	—	●	—	—
	Common facilities apportionment setting		●	—	—	—	●	—	—
	Rated power consumption allotment setting		●	—	—	—	●	—	—
	Individual calculation at cooling and heating		—	●	—	—	●	—	—
	Electricity meter supported		—	●	—	—	●	—	—
Energy saving management	Indoor unit rotation		—	●	—	—	—	●	—
	Peak cut control		—	●	—	—	—	●	—
	Outdoor unit capacity save		—	●	—	—	—	●	—
	Record of energy saving operation		—	●	—	—	—	●	—
	Energy saving information		—	●	—	—	—	●	—
	Power consumption monitor		—	●	—	—	—	●	—
	Electricity meter supported			●		—	—	●	—
External Device Control	Monitor		●	—	—	—	—	—	●
	Control		●	—	—	—	—	—	●
Others	Database import/export		●	—	●	—	—	—	—
	Automatic clock adjustment		●	—	●	—	—	—	—
	Multi language		7 languages	—	7 languages	—	—	—	—
	Refrigerant leakage detection function		●	—	●	—	—	—	—
	Power shutdown		●	—	●	—	—	—	—

●●: Available. - : Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® CoreTM i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	•Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	•Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

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

PACKING LIST

Type	For System controller		For System controller Lite				
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.
System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

BACnet® Gateway

UTY-ABGXZ1 Software

WHITE-USB-KEY
(Software Protection Key)

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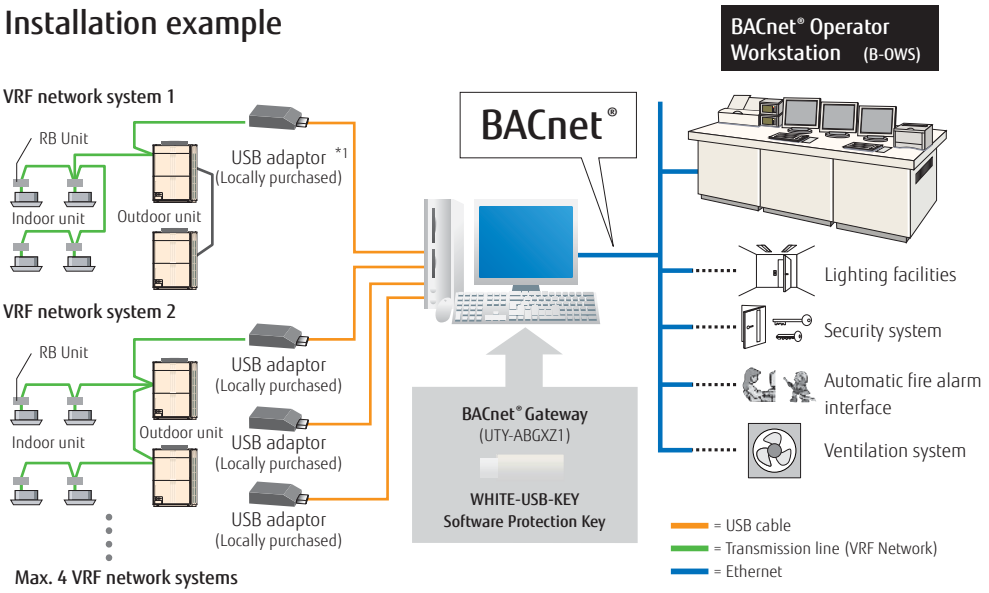
- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable
4
VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

Installation example



*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGXZ1
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later

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

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway

UTY-VBGX Hardware

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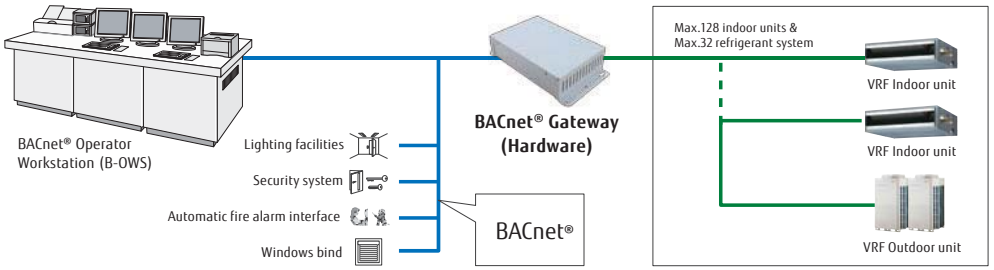
Max. Controllable
1 VRF network system

Max. Controllable
32 refrigerant system

Max. Controllable
128 indoor units

- BACnet® Gateway enables to connect a BMS and Fujitsu General VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example



Specifications

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4

Model name	UTY-VBGX
Power Supply	100-240 V 50/60 Hz, single phase
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1,200

Network Convertor for LONWORKS®

UTY-VLGX

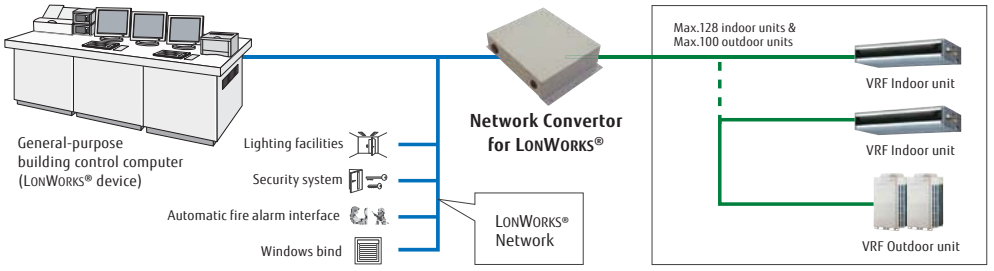
Max. Controllable
4 units to BMS

Max. Controllable
100 outdoor units

Max. Controllable
128 indoor units

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

Installation example



Specifications

Model name	UTY-VLGX
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

MODBUS® Convertor for VRF

UTY-VMGX

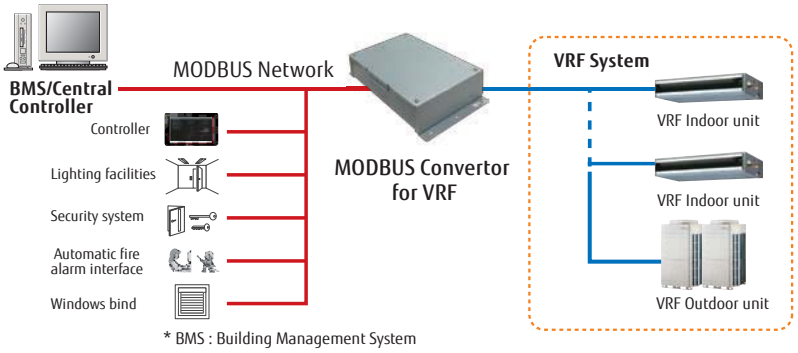
The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units



* BMS : Building Management System

KNX® Convertor for VRF

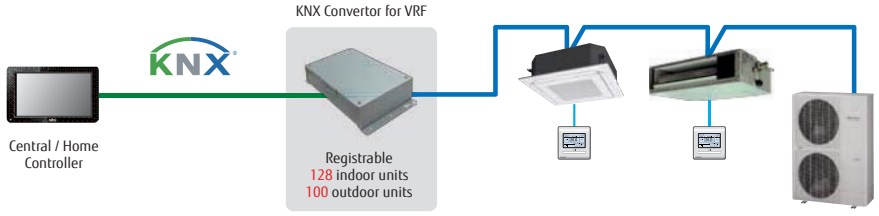
UTY-VKGX

KNX Convertor is useful for centralized control in a system.

- New KNX Convertor enables to connect central/home controller and Fujitsu General VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor.

Max. Controllable
100 outdoor units

Selectable
128 indoor units



Specifications

Model name	UTY-VMGX
Power Supply	220-240 V 50/60 Hz
Input power (W)	Max. 2
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,100

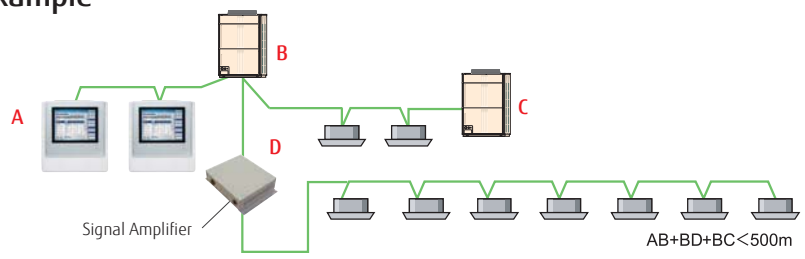
Model name	UTY-VKGX
Power supply	220-240 V 50/60 Hz
Power consumption (W)	1.5
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,200

Signal Amplifier

UTY-VSGXZ1

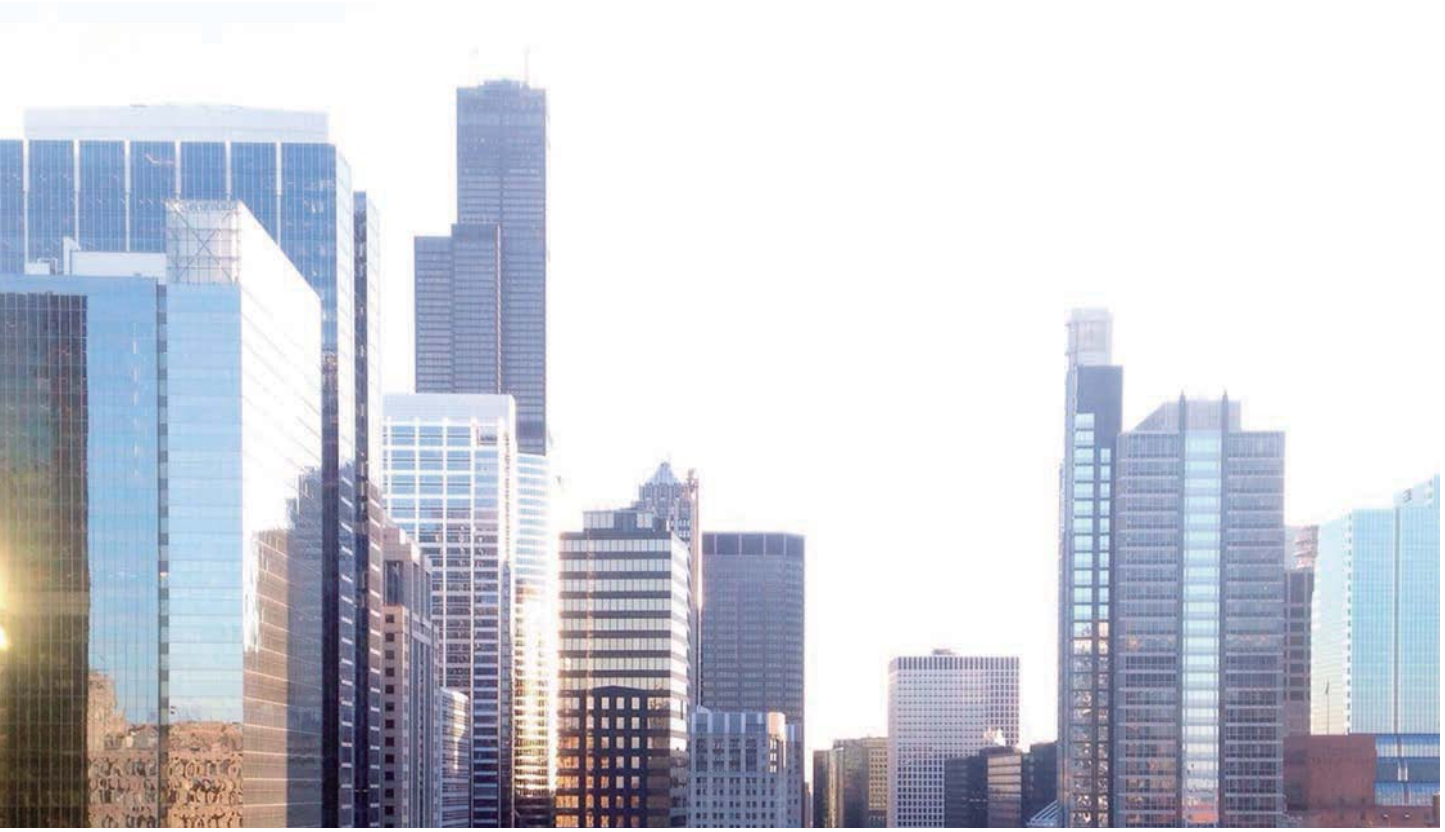
- Transmission Line length can be extended up to 3,600 m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
  (1) When the total wiring length of the transmission line exceeds 500 m.
  (2) When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

Model name	UTY-VSGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500



Control System List For Split/Multi Split

Type		Refrigerant	Indoor unit																
			Wall Mounted												Cassette				
			Flagship Range	Designer Range	Standard Range		ECO Range		Designer Range		Standard Range			ECO Range	4-way Flow Compact		Circular Flow		
		R32	ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KMTB	ASYG 18/24KMTA	ASYG 07/09/12 KPCA	ASYG 18/24KLCA							AUXG 09/12/14/ 18/22/24 KVLA		AUXG 18/22/24/ 30/36/45/ 54KRLB		
		R410A							ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE		AUYG 12/14/18 LVLB, AUYG24LVLA		AUXG 18/24/30/ 36/45/54 LRLB	
Controllers	Wired Remote Controller			● UTY-RNRYZ3+ UTY-TWRXZ2		● UTY-RNRYZ3+ UTY-TWRXZ2							● UTY-RNRYZ3+ UTY-TWRX		● UTY-RNRYZ3		● UTY-RNRYZ3		
				● UTY-RLRY+ UTY-TWRXZ2		● UTY-RLRY+ UTY-TWRXZ2							● UTY-RLRY+ UTY-TWRX		● UTY-RLRY		● UTY-RLRY		
					● UTY-RVNYM+ UTY-TWBXF2				● UTY-RVNYM+ UTY-TWBXF2		● UTY-RVNYM+ UTY-XCBXZ2	● UTY-RVNYM	● UTY-RVNYM+ UTY-XWNX		● UTY-RVNYM				
					● UTY-RNNYM+ UTY-TWBXF2				● UTY-RNNYM+ UTY-TWBXF2		● UTY-RNNYM+ UTY-XCBXZ2	● UTY-RNNYM	● UTY-RNNYM+ UTY-XWNX		● UTY-RNNYM				
	Simple Remote Controller	2-wire type 3-wire type		● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2	● UTY-RSNYM+ UTY-TWBXF2	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2			● UTY-RSNYM+ UTY-TWBXF2		● UTY-RSNYM+ UTY-XCBXZ2	● UTY-RSNYM	● UTY-RSNYM+ UTY-XWNX, UTY-RSRY UTY-RHRY+ UTY-XWRX		● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM		
	Central Remote Controller																		
	Wireless Remote Controller														● UTY-LNTY, UTY-LNTX				
	IR Receiver Unit with Wireless Remote Controller	For Duct For Cassette																	
		For Duct For Cassette															● UTY-LBTYC		
Interface	MODBUS Convertor			● UTY-VMSX									● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		
	MODBUS Interface								● FJ-RC-MBS-1+ UTY-TWBXF2		● FJ-RC-MBS-1+ UTY-XCBXZ2	● FJ-RC-MBS-1	● FJ-RC-MBS-1+ UTY-XWNX		● FJ-RC-MBS-1				
	KNX Convertor			● UTY-VKSX									● UTY-VKSX		● UTY-VKSX		● UTY-VKSX		
	KNX Interface								● FJ-RC-KNX-1i+ UTY-TWBXF2		● FJ-RC-KNX-1i+ UTY-XCBXZ2	● FJ-RC-KNX-1i	● FJ-RC-KNX-1i+ UTY-XWNX		● FJ-RC-KNX-1i				
	Wireless LAN Interface			● UTY-TFSXW1					● UTY-TFNXZ1+ UTY-TWBXF2		● UTY-TFNXZ1+ UTY-XCBXZ2	● UTY-TFNXZ1	● UTY-TFNXZ1+ UTY-XWNX		● UTY-TFSXZ1	● UTY-TFNXZ1	● UTY-TFSXZ1	● UTY-TFNXZ1	
						● UTY-TFSXF2													
									● FJ-RC-WIFI-1+ UTY-TWBXF2		● FJ-RC-WIFI-1+ UTY-XCBXZ2	● FJ-RC-WIFI-1	● FJ-RC-WIFI-1+ UTY-XWNX		● FJ-RC-WIFI-1				
	External Switch Controller			● UTY-TERX					● UTY-TERX						● UTY-TERX				
	Network Convertor	DC Power Supply Type AC Power Supply Type		● UTY-VTGX UTY-VTGXV					● UTY-VTGX UTY-VTGXV						● UTY-VTGX UTY-VTGXV				

Indoor unit																						Outdoor unit	Other
Cassette	Duct													Floor	Floor/ Ceiling	Ceiling	Multi Split					Single Phase	Branch Box (8 Rooms Multi)
4-way Flow	Mini	Slim		Medium Static Pressure (Compact & Comfort)		Medium Static Pressure (Standard)		High Static Pressure		Big							Compact Cassette	Mini Duct	Slim Duct	Floor Ceiling		5-6 Rooms Multi	
		ARXG 09/12/14/18 KLLAP		ARXG 12/14/18/ 22/24/30/ 36/45/54 KHTAP		ARXG 22/24/30/ 36/45KMLA		ARXG 45/54KHTA								AUYG 07KVLA	ARYG 07/09/12 KSLAP	ARYG 07KLLAP				
AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP		ARYG 12/14/18 LLTB		ARYG 12/14/18/ 24/30/36/ 45/54 LHTBP		ARYG 24/36/45 LMLA, ARYG 30/36LMLE		ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 18LVTB, ABYG 24LVTA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	AUYG 07/09LVLA	ARYG 07/09LSLAP	ARYG 07/09LLTA	ABYG 14LVTA	AOYG 36LBLA5, AOYG 45LBLA6	UTP-PY03A UTP-PY02A
	● UTY-RNRYZ3			● UTY-RNRYZ3						● UTY-RNRYZ3				● UTY-RNRYZ3 (KVLA)	● UTY-RNRYZ3							
	● UTY-RLRY			● UTY-RLRY						● UTY-RLRY				● UTY-RLRY								
● UTY-RVNYM																							
● UTY-RNNYM																							
● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM		● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM			● UTY-RSNYM			● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM			● UTY-RSRY, UTY-RHRY, UTY-RSNYM			● UTY-RSNYM				
																					● UTY-DMMYM		
																● UTY-LNTY, UTY-LNTX							
● UTY-LRHYA2			● UTY-LRHYM				● UTY-LRHYM		● UTY-LRHYM (60)	● UTY-LRHYM								● UTY-LRHYM					
	● UTY-LBTYM			● UTY-LBTYM						● UTY-LBTYM							● UTY-LBTYM						
	● UTY-VMSX			● UTY-VMSX						● UTY-VMSX						● UTY-VMSX (KVLA)	● UTY-VMSX					
● FJ-RC-MBS-1		● FJ-RC-MBS-1								● FJ-RC-MBS-1						● FJ-RC-MBS-1	● FJ-RC-MBS-1 (KSLAP)	● FJ-RC-MBS-1				
	● UTY-VKSX			● UTY-VKSX						● UTY-VKSX						● UTY-VKSX (KVLA)	● UTY-VKSX					
● FJ-RC-KNX-1i		● FJ-RC-KNX-1i								● FJ-RC-KNX-1i						● FJ-RC-KNX-1i	● FJ-RC-KNX-1i (KSLAP)	● FJ-RC-KNX-1i				
● UTY-TFNXZ1	● UTY-TFNXZ1	● UTY-TFSXZ1	● UTY-TFNXZ1	● UTY-TFSXZ1	● UTY-TFNXZ1	● UTY-TFSXZ1	● UTY-TFNXZ1		● UTY-TFSXZ1			● UTY-TFNXZ1				● UTY-TFSXZ1 (KVLA), UTY-TFNXZ1 (LVLA)	● UTY-TFSXZ1	● UTY-TFSXZ1 (KLLAP), UTY-TFNXZ1 (LLTA)	● UTY-TFNXZ1			
● FJ-RC-WIFI-1																● FJ-RC-WIFI-1							
● UTY-TERX																							
● UTY-VTGX UTY-VTGXV																							

Control System List For VRF

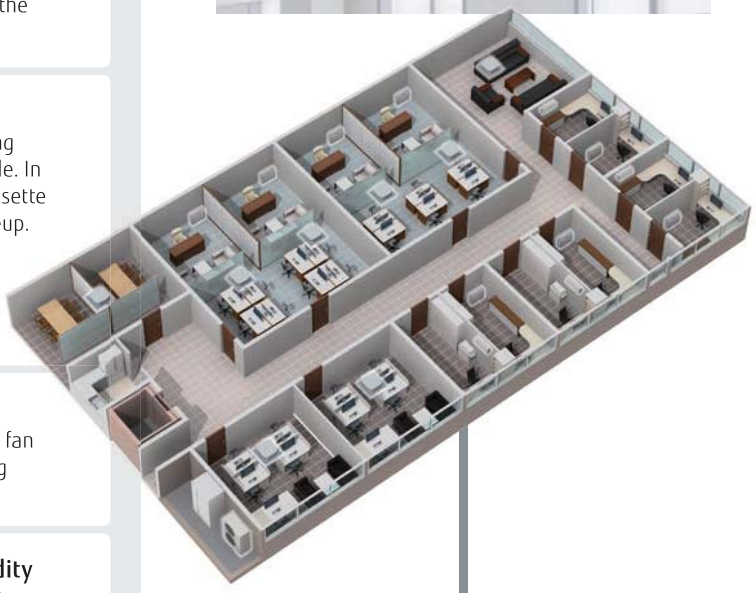
Type		Refrigerant	Indoor unit										
			Cassette				Duct						
			3D Flow	Compact Grid type / Standard type	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	Slim (With drain pump)		Medium Static Pressure	High Static Pressure		Large Airflow Duct (Compact)
		R410A	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLEH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXA 024/030/036/ 045GLEH	ARXC 45/60GATH	ARXC 036/072/090/ 096GTEH	ARXN 009/012/014/ 018/024/030 GLBH
Controllers	Wired Remote Controller		● UTY-RNRYZ3										
			● UTY-RLRY										
	Simple Remote Controller	2-wire type 3-wire type	● UTY-RSRY UTY-RHRY					● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	
	Wireless Remote Controller		● UTY-LNHY										
	Group Remote Controller		● UTY-CGGY + UTY-VGGXZ1										
	Central Remote Controller		● UTY-DCGYZ1										
	Touch Panel Controller		● UTY-DTGYZ1										
	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1										
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX										
	Network Convertor for LonWorks		● UTY-VLGX										
	MODBUS Convertor		● UTY-VMSX										
	MODBUS Convertor		● UTY-VMGX										
	KNX Convertor		● UTY-VKSX										
	KNX Convertor		● UTY-VKGX										
	Wireless LAN Interface		● UTY-TFSXZ1		● UTY-TFSXZ1								
	External Switch Controller		● UTY-TERX										
	Network Convertor for Single split	DC Power Supply Type AC Power Supply Type	● UTY-VTGX UTY-VTGXV										

Indoor unit										
Duct	Floor		Ceiling/ Floor	Ceiling	Wall Mounted					
Large Airflow Duct (Large)	—	EEV external			—	EEV external	—	EEV external	—	
ARXN 18/24/30/ 34/36/45 GATH	AGYA 004/007/ 009/012/014 GCEH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH	ASYA 004/007/009 GTEH	ASYE 004/007/009 GTEH	ASYA 012/014GCEH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH
● UTY-RNRYZ3										
● UTY-RLRY										
● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY								● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY
● UTY-LNHY										
● UTY-CGGY + UTY-VGGXZ1										
● UTY-DCGYZ1										
● UTY-DTGYZ1										
● UTY-APGXZ1, UTY-ALGXZ1										
● UTY-ABGXZ1, UTY-VBGX										
● UTY-VLGX										
● UTY-VMSX										
● UTY-VMGX										
● UTY-VKSX										
● UTY-VKGX										
	● UTY-TFSXZ1				● UTY-TFSXZ1					● UTY-TFSXZ1
● UTY-TERX										
● UTY-VTGX UTY-VTGXV										

Optional Parts Overview

For Split & Multi Split, VRF

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

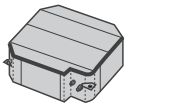


Optional Parts
For Cassette

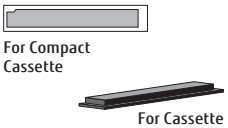
Human Sensor Kit
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

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

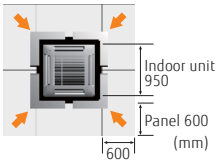
Fresh Air Intake Kit
Fresh air can be taken in by a fan which can be connected using external control unit.



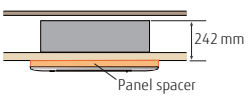
Insulation for High Humidity
For Compact Cassette type/ Cassette type
Insulation for High Humidity is used when the installation location is in the high humidity environment.



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

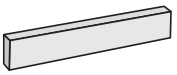


Wide Panel
When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.



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

Optional Parts
For Floor



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

Optional Parts
For Duct & Ceiling

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

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

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

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

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

Connection Parts

For Wall Mounted type

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

For Wall Mounted type

For Duct
and Cassette type

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

External Input and Output PCB Box & Bracket
These are the box and bracket for installing the External input and output PCB

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

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

NEW

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

Auto Louver Grille Kit

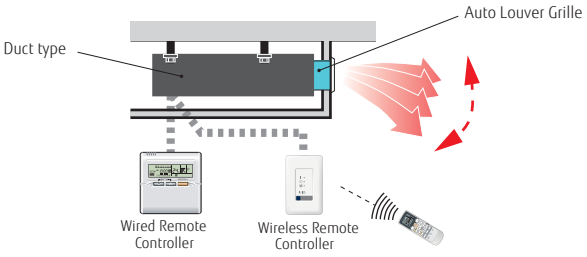
UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

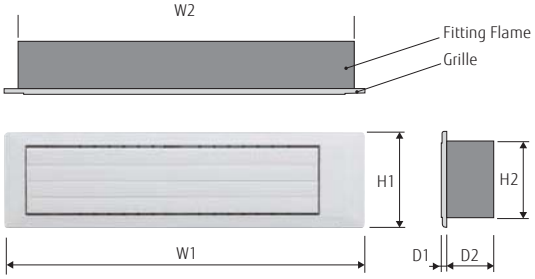
Closed louver　　Opened louver

Flexible Control

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



Dimensions



Unit:mm

Model Name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	180	148	9	84
UTD-GXTB-W	883	845				
UTD-GXTC-W	1,083	1,045				

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louver Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×883×(84+9)	180×1083×(84+9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operation range	Cooling	°C	18 to 32		
		% RH	80% or less		
	Heating	°C	16 to 30		

External Power Supply Unit

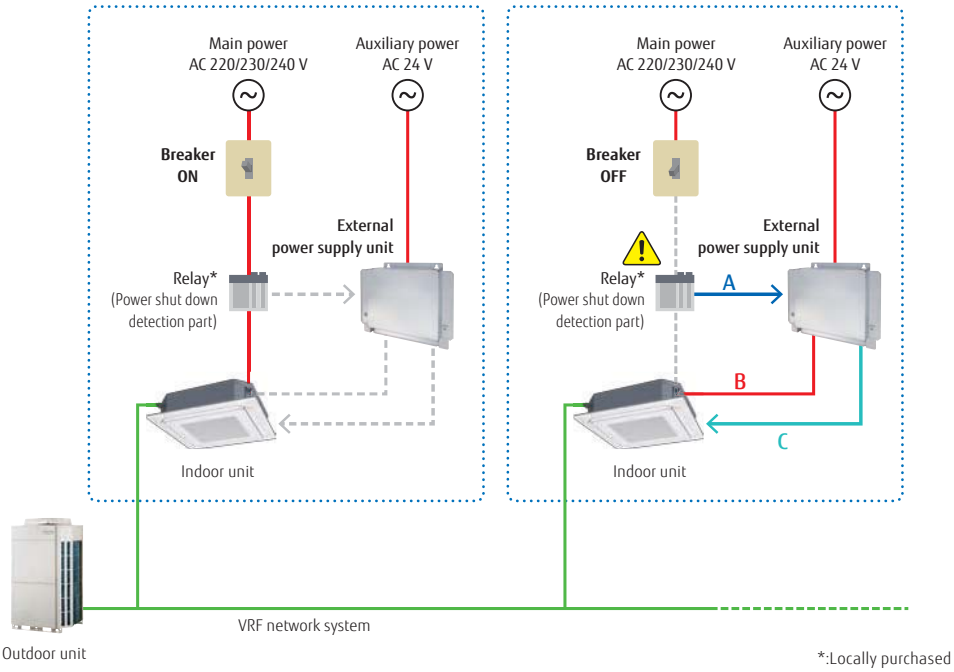
UTZ-GXXA

External power supply unit can protect the units in the system even if some powers of indoor units are shut down in the system.

Power is supplied to the indoor unit from auxiliary power by connecting to external power supply unit. This makes it possible to operate continuously without system error.

High Reliability

- A: Main power shut down can be detected at power shut down detection part.
- B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
- C: Power supply from external power supply unit is notified.



*:Locally purchased

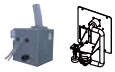
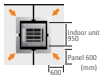
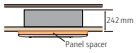
Note

- When changing the voltage AC 200 to 240 V, use a power transformer with an insulation structure equivalent to CLASS 2.
- Indoor units that are powered off and driven by an external power supply unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

Specifications

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

Optional Parts List For Split/Multi Split

Type	Refrigerant	Indoor unit							
		Cassette			Duct				
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure
	R32	AUXG 09/12/14/ 18/22/24 KVLA	AUXG 18/22/24/ 30/36/45/54 KRLB			ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/ 24/30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG45/54KHTA
	R410A	AUYG12/14/18LVLB, AUYG24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG30/36LRLE, AUYG36/45/54LRLA	ARYG12/14/18LSLAP	ARYG12/14/18LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG24/36/45LMLA, ARYG30/36LMLE	ARYG45/54/60LHTA
Human Sensor Kit			● UTY-SHZXC						
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.				● UTY-XSZX				
Cassette Grille	UTG-UFYF-W UTG-UFYD-W UTG-UGYA-W UTG-UKYA-W UTG-UKYC-W UTG-UKYA-B	● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA,LVLB)	● UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B	● UTG-UGYA-W					
Auto Louver Grille Kit					● UTD-GXTA-W (09/12/14) UTD-GXTB-W (18)				
Long Life Filter							● UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14)	● UTD-LF25NA	● UTD-LF60KA (45/54)
Flange								● UTD-SF045T UTD-RF204	
Drain Pump Unit								● UTZ-PX1NBA	
Wide Panel			● UTG-AKXA-W						
Panel Spacer			● UTG-BKXA-W						
Fresh Air Intake Kit	For Compact Cassette For Cassette	● UTZ-VXAA	● UTZ-VXRA						
Air Outlet Shutter Plate	For Compact Cassette For Cassette	● UTR-YDZB	● UTR-YDZK						
Insulation for High Humidity	For Compact Cassette type/ Cassette type	● UTZ-KXGC	● UTZ-KXRA						
Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.								
Remote Controller Holder									

Indoor unit								
Duct		Floor	Ceiling	Wall Mounted		Multi Split			
Big						4-way flow Compact Cassette	Mini Duct	Slim Duct	Floor Ceiling
				ASYG07/09/12KPCA		AUYG07KVLA	ARYG07/09/12KSLAP	ARYG07KLLAP	
ARYG72/90LHTA		AGYG09/12/14LVCA	ABYG30/36LRTE, ABYG36/45/54LRTA		ASYG07/09/12LLCE	AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA	ABYG14LVTA
● UTY-XSZX							● UTY-XSZX		
						● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA)			
							● UTD-GXTA-W (09/12)		
● UTD-LFKA									
			● UTD-RF204						
● UTZ-PX1NAB			● UTR-DPB24T						
						● UTZ-VXAA			
						● UTR-YDZB			
						● UTZ-KXGC			
		● UTR-STA							
				● UTZ-RXLA					

• There are no optional parts for Floor/Ceiling type.

Function List For Split/Multi Split

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

Type		Refrigerant	Indoor unit															
			Wall Mounted												Cassette			
			Flagship Range	Designer Range	Standard Range		ECO Range		Designer Range		Standard Range			ECO Range	4-way Flow Compact		Circular Flow	
		R32	ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KMTB	ASYG 18/24KMTA	ASYG 07/09/12 KPCA	ASYG 18/24KLCA							AUXG 09/12/14/ 18/22/24 KVLA		AUXG 18/22/24/ 30/36/45/ 54KRLB	
		R410A							ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE		AUYG 12/14/18 LVLB, AUYG24LVLA		AUXG 18/24/30/ 36/45/54 LRLB
Input	Operation/Stop			● UTY-XCSXZ2+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5	● UTY-XCSXZ2+ UTY-XWZXZ5			● UTY-XWZXZ5 + UTY-TWBXF2		● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX	●UTY-XWZX or ●○ UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB		● PCB Terminal or ●○UTY-XCSX +UTZ-GXRA	● UTY-XWZX	● PCB Terminal or ●○UTY-XCSX +UTZ-GXRA	
	Batch Stop																	
	Forced Stop			● UTY-XCSXZ2+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5	● UTY-XCSXZ2+ UTY-XWZXZ5			● UTY-XWZXZ5 + UTY-TWBXF2		● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX	●UTY-XWZX or ●○ UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB		● PCB Terminal	● UTY-XWZX	● PCB Terminal	
	Emergency Stop																	
	Forced Thermostat off			● UTY-XCSXZ2+ UTY-XWZX		● UTY-XCSXZ2+ UTY-XWZXZ5							●○ UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB		●○ UTY-XCSX +UTZ-GXRA		●○ UTY-XCSX +UTZ-GXRA	
	Low Noise Mode Operation																	
	Cooling / Heating Priority																	
	Outdoor Unit Operation Peak Control																	
Output	Operation Status			● UTY-XCSXZ2+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5	● UTY-XCSXZ2+ UTY-XWZXZ5			○ UTY-XWZXZ5 + UTY-TWBXF2		○ UTY-XWZXZ5+ UTY-XCBXZ2	○ UTY-XWZX	●UTY-XWZX ●UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB		● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA	○ UTY-XWZX	● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA	
	Error Status			● UTY-XCSXZ2+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5	● UTY-XCSXZ2+ UTY-XWZXZ5			○ UTY-XWZXZ5 + UTY-TWBXF2		○ UTY-XWZXZ5+ UTY-XCBXZ2		●UTY-XWZX ●UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB		● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA		● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA	
	Compressor status			● UTY-XCSXZ2+ UTY-XWZX														
	Indoor Unit Fun Operation Status			● UTY-XCSXZ2+ UTY-XWZX		● UTY-XCSXZ2+ UTY-XWZXZ5							●UTY-XWZX ●UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB		● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA	● UTZ-VXAA*1	● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA	
	Set point attainment status												● UTY-XWZX*2					
	Auxiliary Heater Output														● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA		● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA	
	Base Heater																	

*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) *2: This function is for installing at server room.

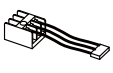
For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

Communication Kit

UTY-TWBXF2

UTY-XCBXZ2

UTY-TWRX



UTY-XWNX

External input and output PCB

UTY-XCSXZ2
for Wall Mounted type

UTY-XCSX
for Duct and Cassette type

External input and output PCB Box

UTZ-GXXB

UTZ-GXRA

External input and output PCB Bracket

UTZ-GXNA

Indoor unit																Multi split			Outdoor unit					
Cassette	Duct										Floor	Floor/ Ceiling	Ceiling				Single Split		Single Phase	Simultaneous Multi				
4-way Flow	Mini	Slim		Medium Static Pressure (Compact & Comfort)		Medium Static Pressure (Standard)		High Static Pressure		Big				Mini Duct	Slim Duct	Compact Cassette			8 Rooms Multi				
		ARXG 09/12/14/ 18KLLAP		ARXG 12/14/18/ 22/24/30/ 36/45/54 KHTAP		ARXG 22/24/30/ 36/45 KMLA		ARXG 45/54 KHTA																
AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP		ARYG 12/14/18 LLTB		ARYG 12/14/18/ 24/30/36/ 45/54 LHTBP		ARYG 24/36/45 LMLA, ARY 36LMLE		ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 18LVTB, ABYG 24LVTA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	ARYG 07/09LSLAP	ARYG 07/09LLTB	AUYG 07/09LVLA	AOYG 36/45/54/ 60LATT	AOYG 45/54LBTA, AOYG 72/90LHTA	AOYG 45LBTB	AOYG 36/45LBTB	AOYG 36/45/54 LATT			
● UTY-XWZX	● PCB Terminal		● UTD-ECS5A	● PCB Terminal or ●○ UTY-XCSX +UTZ-GXRA		● PCB Terminal	● UTD-ECS5A			● PCB Terminal or ●○ UTY-XCSX	● UTY-XWZX			● PCB Terminal										
																			● UTY-XWZXZ3					
● UTY-XWZX	● PCB Terminal		● UTD-ECS5A	● PCB Terminal			● UTD-ECS5A			● PCB Terminal	● UTY-XWZX			● PCB Terminal										
																			● UTY-XWZXZ3					
				● UTY-XCSX				● UTD-ECS5A		● UTY-XCSX														
																	● UTY-XWZXZ2	● UTY-XWZXZ3			○ UTY-XWZXZ2			
																			● UTY-XWZXZ3					
																	● UTY-XWZXZ2	● UTY-XWZXZ3			○ UTY-XWZXZ2			
○ UTY-XWZX	● UTY-XWZXZG		○ UTD-ECS5A	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG	○ UTD-ECS5A			● UTY-XWZXZG or UTY-XCSX	○ UTY-XWZX			● UTY-XWZXZG										
				● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA													● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3		○ UTY-XWZXZ2			
																	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3		○ UTY-XWZXZ2			
● UTZ-VXRA*1	● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG	● UTD-ECS5A			● UTY-XWZXZG or UTY-XCSX			● UTD-ECS5A	● UTY-XWZXZG										
	● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG	● UTD-ECS5A			● UTY-XWZXZG or UTY-XCSX				● UTY-XWZXZG										
																			● UTY-XWZXZ4					

●: Dry Contact ○: Apply Voltage

Communication system

External Connect Kit

For Indoor Unit

UTY-XWZX

UTY-XWZXZ5

UTY-XWZXZG

For Outdoor Unit

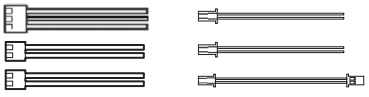
UTY-XWZXZ2

UTY-XWZXZ3

UTY-XWZXZ4

External Control Set

For Indoor unit



UTD-ECS5A

Function List For VRF

External Input and Output Function/External Connect Kit

Type		Refrigerant	Indoor unit										
			Cassette			Duct						Floor	
			3D Flow	Compact Grid type / Standard type	Circular Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	Large Airflow Duct (Compact)	Large Airflow Duct (Large)	—	EEV external
		R410A	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH, AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLEH	ARXD 007/009/012/ 014/018/024 GLEH, ARXD 04GALH	ARXA 024/030/036/ 045GLEH	ARXC 036/072/090/ 096GTEH, ARXC 45/60GATH	ARXN 009/012/014/ 018/024/030 GLBH	ARXN 18/24/30/ 34/36/45 GATH	AGYA 004/007/ 009/012/014 GCEH	AGYE 004/007/ 009/012/014 GCEH
Input	Operation / Stop		● UTY-XWZXZD ○ UTY-XWZXZB										
	All On / All Off												
	Batch Stop												
	Forced Stop		● UTY-XWZXZD ○ UTY-XWZXZB										
	Emergency Stop		● UTY-XWZXZD ○ UTY-XWZXZB										
	Forced Thermostat off		● UTY-XWZXZE ○ UTY-XWZXZ7										
	Low Noise Mode Operation												
	Cooling/ Heating Priority												
	Outdoor Unit Operation Peak Control												
	Power Usage Information from Electricity Meter												
Output	Operation Status		● UTY-XWZXZC										
	Error Status		● UTY-XWZXZC										
	Indoor Unit Fun Operation Status		● UTY-XWZXZC										
	Auxiliary Heater Output					● UTY-XWZXZC							
	Base Heater												

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

Communication system

External Connect Kit

For Indoor unit

UTY-XWZXZ7

UTY-XWZXZB

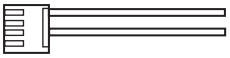
UTY-XWZXZC

UTY-XWZXZD

UTY-XWZXZE

For Outdoor unit

UTY-XWZXZ6

UTY-XWZXZ9 

UTY-XWZXZF

Indoor unit						Outdoor unit						Controller		Other
Floor / Ceiling		Wall Mounted				J-IIIL	J-III	J-IIS	V-III	V-III Tropical	VR-II	Central Remote Controller	Touch Panel Controller	RB Unit
		—	EEV external	—										
ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH	ASYA 004/007/009 GTEH, ASYA 012/014GCEH	ASYE 004/007/009 GTEH, ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH	AJG 072/090/108/ 126/144/162 LELAH	AJY 040/045/054 LBLAH, AJY 040/045/054 LELAH	AJY 040/045/054 LCLAH	AJY 072/090/108/ 126/144/162 LNLBH	AJY 072/090/108/ 126/144/162 LALBH	AJYA 072/090/ 108/126/144 GALH	UTY-DCGYZ1	UTY-DTGYZ1	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH
● UTY-XWZXZD ○ UTY-XWZXZB														
												●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
						● UTY-XWZXZ6								
● UTY-XWZXZD ○ UTY-XWZXZB														
● UTY-XWZXZD ○ UTY-XWZXZB						● UTY-XWZXZ6						●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
● UTY-XWZXZE ○ UTY-XWZXZ7														
						● UTY-XWZXZ6								
						● UTY-XWZXZ6								●UTY-XWZXZ6 ○UTY-XWZXZB
						● UTY-XWZXZ6								
						● UTY-XWZXZF							●*2 ○*2	
● UTY-XWZXZC						○ UTY-XWZXZ6						○UTY-XWZXZA	○UTY-XWZXZA	
● UTY-XWZXZC						○ UTY-XWZXZ6						○UTY-XWZXZA	○UTY-XWZXZA	
● UTY-XWZXZC														
						● UTY-XWZXZ9			● UTY-XWZXZ9					

●: Dry Contact ○: Apply Voltage

For RB unit

UTY-XWZXZ6

UTY-XWZXZB

For Central Remote Controller

UTY-XWZXZ7

UTY-XWZXZ8

UTY-XWZXZA

For Touch Panel Controller

UTY-XWZXZA

Separation Tube etc.

For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

Separation Tube

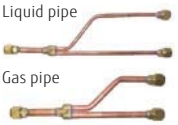
UTP-SX236A / UTP-SX254A
For 3-phase Simultaneous Multi

UTP-SX272A
For Simultaneous Multi Twin / Triple / Double Twin

UTP-SX354A
For 3-phase Simultaneous Multi

UTP-SX372A
For Simultaneous Multi Twin / Triple / Double Twin

UTP-SX248A
For 8 Rooms Multi



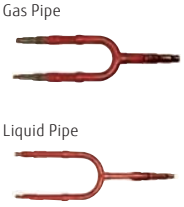
Branch Box

UTP-PY03A
UTP-PY02A
For 8 Rooms Multi

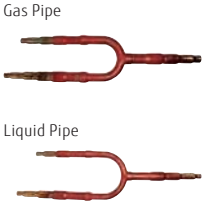
For VRF

Separation Tube

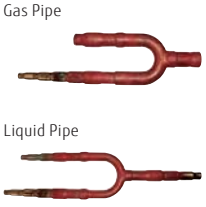
UTP-AX054A



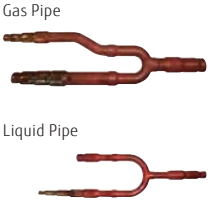
UTP-AX090A



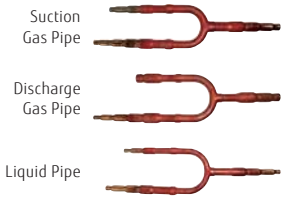
UTP-AX180A



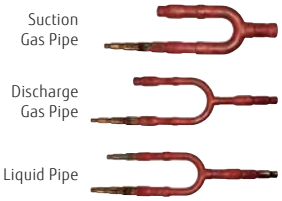
UTP-AX567A



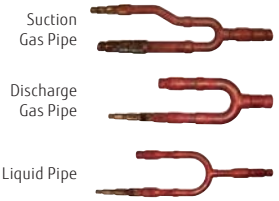
UTP-BX090A



UTP-BX180A



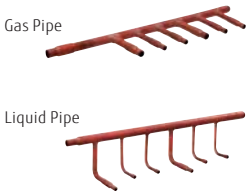
UTP-BX567A



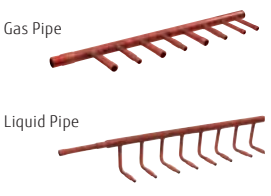
UTP-LX180A
For DX-Kit

Header

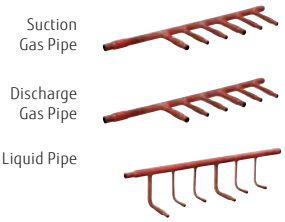
UTR-H0906L / UTR-H1806L



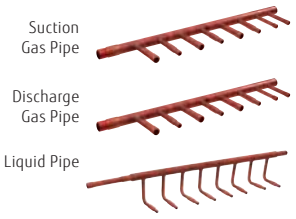
UTR-H0908L / UTR-H1808L



UTR-J0906A / UTR-J1806A

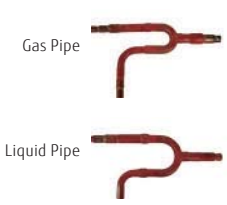


UTP-J0908A / UTP-J1808A

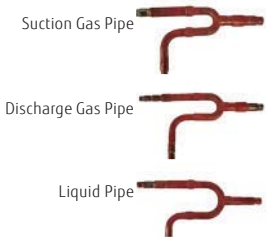


Outdoor Unit Branch Kit

UTP-CX567A



UTP-DX567A



For VRF

EV Kit	RB Unit	
Model code ≦ 09 : UTR-EV09XB Model code ≧ 12 : UTR-EV14XB **For Compact Wall Mounted type**	UTP-RX01AH / UTP-RX01BH / UTP-RX01CH **Single type**	UTP-RX04BH **Multi type**

Specifications

Separation Tube

Model name	UTP-AX054A	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit (kW)	19.6 or less	28.0 or less	28.1 to 56.0	56.1 or more

Model name	UTP-BX090A	UTP-BX180A	UTP-BX567A
Total cooling capacity of indoor unit (kW)	28.0 or less	28.1 to 56.0	56.1 or more

Header

Model name	3-6 Branches	UTR-H0906L	UTR-H1806L
	3-8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Model name	3-6 Branches	UTP-J0906A	UTP-J1806A
	3-8 Branches	UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-III/V-III Tropical)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1	
	3 outdoor units	2	

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASYE004GTEH ASYE007GTEH ASYE009GTEH	AGYE004GTEH AGYE007GTEH AGYE009GTEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

Type		Single type			Multi type
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz	230/ 1 / 50			
Input power	W	17	24	31	96
Number of branches		1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≦ 56.1*1
Maximum capacity of connectable indoor units per branch (Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≦ 18.0
Maximum number of connectable indoor units per branch		3	8	8	8
Dimensions (H×W×D)	mm	198×298×268			260×658×428

*1: In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0 kW.

Residential

AIR TO WATER

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WATERSTAGE™

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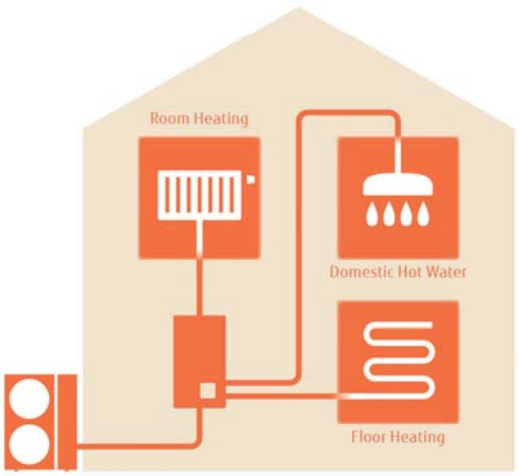
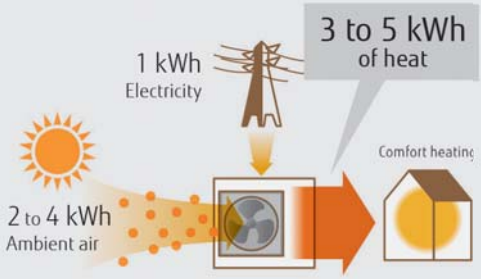


What's a Heat Pump ?

Absorbing free energy from the atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



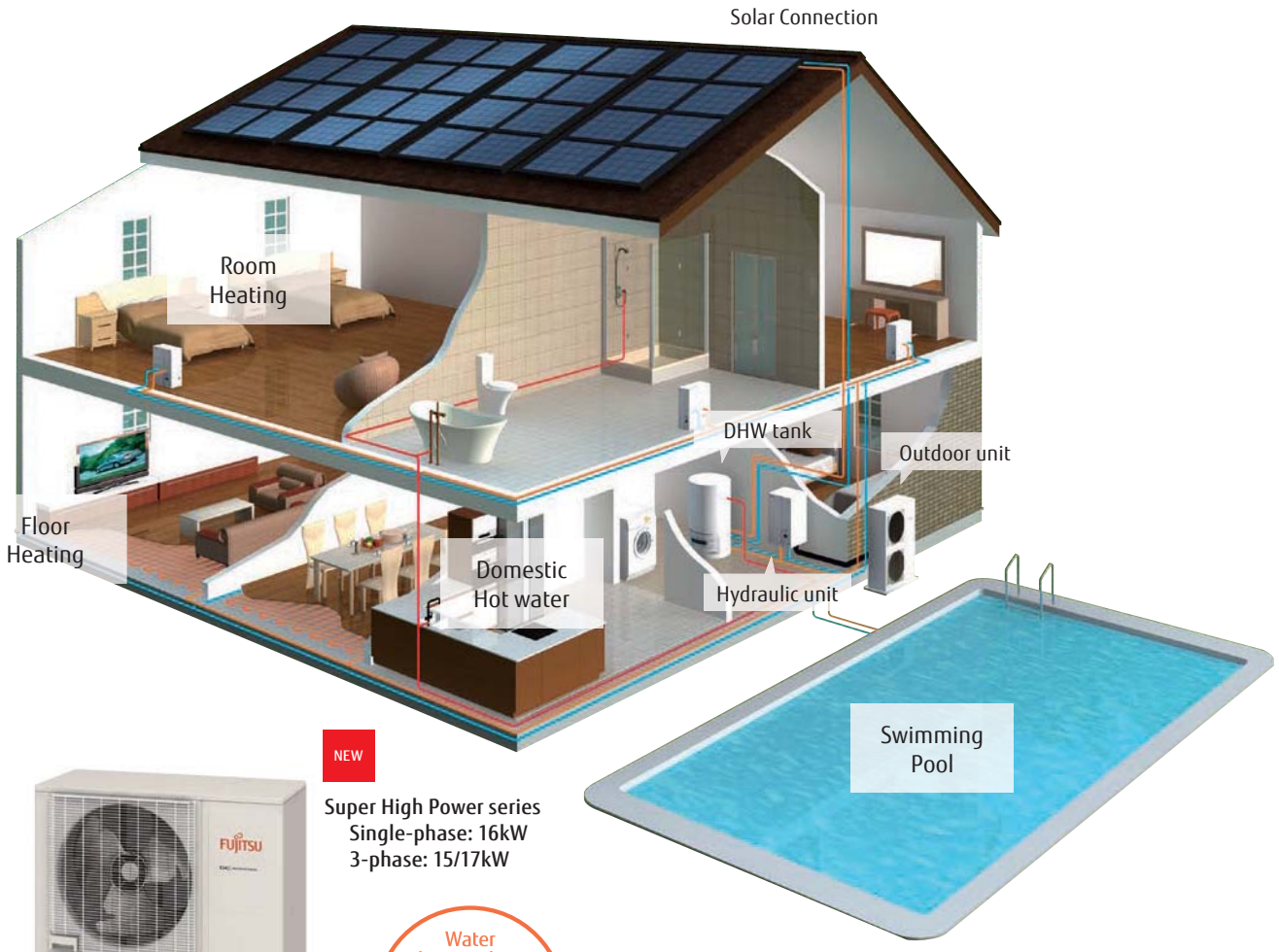
Complete Solution meets various needs

The clean energy produced by WATERSTAGE™ reliably delivers "comfort" to all spaces in the home up to the living room, bedrooms, bath, and swimming pool.

Home Heating

Air to Water Overview

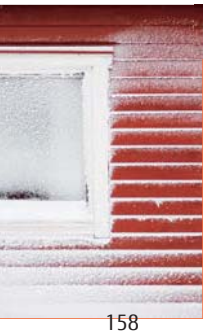
Wide range lineup suited for regional characteristics, family structure, and application. We provide various products to meet your needs from High Power via heating-centered series to reasonably-priced compact series.



NEW

Super High Power series
Single-phase: 16kW
3-phase: 15/17kW

Water temperature
60°C



High leaving water temperature

High leaving water temperature 60°C kept down to -20°C outdoor temperature without using backup heater.

For Room heating & domestic hot water

Outdoor unit and hydraulic indoor unit can be installed freely, so installation is easy. Since hydraulic indoor unit is installed inside a house, freezing of circulated water can be prevented. A larger heating capacity can be performed flexibly by using more units in cascade connection.

Appearance-oriented compact outdoor unit

Split type Comfort series

For Comfort series, optimized flow temperature control is realized by DC inverter technology.

*: Outdoor Unit: WOYA060LFCA/WOYA080LFCA

+ DHW Tank

DHW tank (option) can be used to supply hot water by connecting it to the system.

+ Boiler

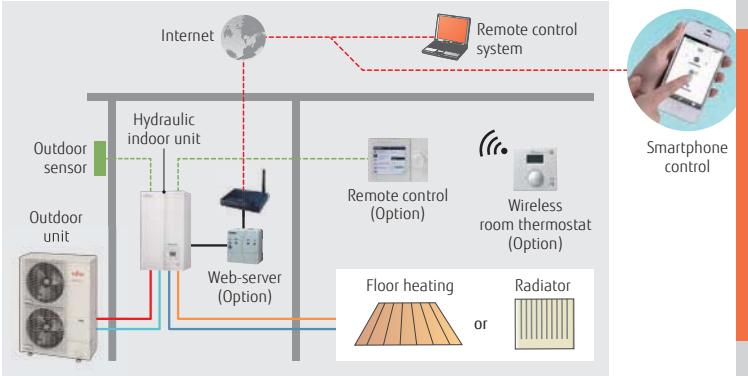
By combining existing boiler, powerful heating can be performed even at low outdoor temperature.

*optional part necessary

Stylish space saving solution with built-in DHW tank

Space is saved drastically due to built-in DHW tank.

Existing boiler can be replaced easily. A larger heating capacity can be performed flexibly by using more units in cascade connection.



Smart control

User's needs are supported by offering a variety of controls, such as individual control and remote control options.

Technology

High Efficiency

For Outdoor Unit

Twin Rotary Compressor with Linear Control Injection Port

It realizes the high condensing temperature without overheating discharge gas temperature by Linear Control Injection process during compression. Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is realized by controlling the injection amount according to the usage state.

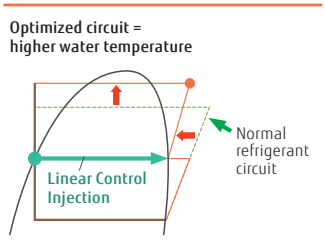
For Hydraulic Indoor Unit

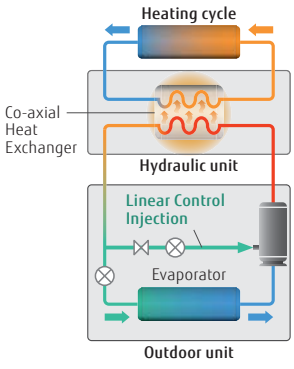
Class A pump

Energy saving pump with constant volume or pressure adjustment function.

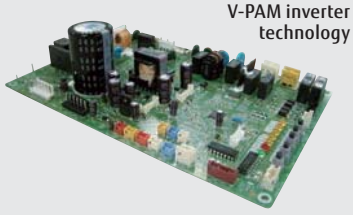
A++

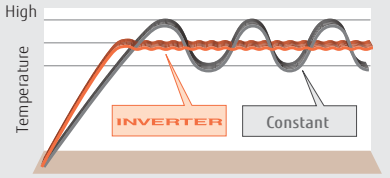
Energy efficiency class
WSYK170DJ9





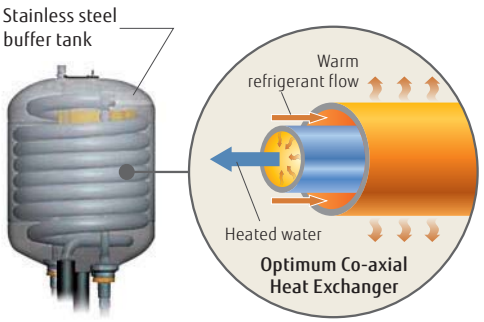
Accurate temperature control by DC inverter technology





Stainless steel buffer tank

Heat exchange amount is 25% higher than previous model. Energy saving performance is improved.



Easy Control

Hydraulic Indoor Unit Controller

4 Heating mode

1. Automatic mode
Comfort/Reduce mode switching automatically according to time program

2. Reduce mode
Constant reduce temperature

3. Comfort mode
Constant comfort temperature

4. Protection mode
Stand-by mode with anti-frost protection

WATERSTAGE™ Lineup

	Capacity (kW)	5	6	8	10	11	14	15	16	17
Split	Super High Power series Single phase NEW Hydraulic Indoor Unit/ Outdoor Unit								 WSYG160DJ6 / WOYG160LJL	
Split	Super High Power series 3 phase NEW Hydraulic Indoor Unit/ Outdoor Unit							 WSYK170DJ9 / WOYK150LJL		 WSYK170DJ9 / WOYK170LJL
Split	High Power series Single phase Hydraulic Indoor Unit/ Outdoor Unit					 WSYG140DG6 / WOYG112LHT	 WSYG140DG6 / WOYG140LCTA			
Split	High Power series 3 phase Hydraulic Indoor Unit/ Outdoor Unit					 WSYK160DG9 / WOYK112LCTA	 WSYK160DG9 / WOYK140LCTA		 WSYK160DG9 / WOYK160LCTA	
Split	Comfort series Hydraulic Indoor Unit/ Outdoor Unit	 WSYA050DG6 / WOYA060LFCA	 WSYA100DG6 / WOYA060LFCA	 WSYA100DG6 / WOYA080LFCA	 WSYA100DG6 / WOYA100LFTA					
Split DHW integrated	Super High Power series Single phase NEW Hydraulic Indoor Unit/ Outdoor Unit								 WGYG160DJ6 / WOYG160LJL	
Split DHW integrated	Super High Power series 3 phase NEW Hydraulic Indoor Unit/ Outdoor Unit							 WGYK170DJ9 / WOYK150LJL		 WGYK170DJ9 / WOYK170LJL
Split DHW integrated	High Power series Single phase Hydraulic Indoor Unit/ Outdoor Unit					 WGYG140DG6 / WOYG112LHT	 WGYG140DG6 / WOYG140LCTA			
Split DHW integrated	High Power series 3 phase Hydraulic Indoor Unit/ Outdoor Unit					 WGYK160DG9 / WOYK112LCTA	 WGYK160DG9 / WOYK140LCTA		 WGYK160DG9 / WOYK160LCTA	
Split DHW integrated	Comfort series Hydraulic Indoor Unit/ Outdoor Unit	 WGYA050DG6 / WOYA060LFCA	 WGYA100DG6 / WOYA060LFCA	 WGYA100DG6 / WOYA080LFCA	 WGYA100DG6 / WOYA100LFTA					

EHPA Quality Label

Fujitsu General's WATERSTAGE* have obtained the EHPA Quality Label** by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label** is a label that shows the end-consumer a quality heat pump unit on the market.

*: only High Power 3phase

**: Check the validity of label at www.ehpa.org/quality/quality-label/

SG-Ready Label

SG-Ready is a defined standard by BWP***, which makes it possible that the device can be integrated into a smart grid. Heat pumps, which are equipped with the SG-Ready Label, can receive signals from the power grid (and e.g. also from PV systems) about the available (unused renewable) energy (from wind, sun & water). Fujitsu General provides the SG-Ready compatibility to all new Heat Pumps series.

***BWP: the Federal German Heat Pump Association

Split Type / Split DHW Integrated Type

WATERSTAGE™

Split Type

Super high power series

Hydraulic indoor unit:
WSYG160DJ6/[3 phase] WSYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL/WOYK170LJL

Hydraulic indoor unit	Outdoor unit	
Single Phase/ 3 Phase	Single Phase 16kW	3 Phase 15/17kW

High power series

Hydraulic indoor unit:
WSYG140DG6/[3 phase] WSYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3 phase] WOYK112LCTA/WOYK140LCTA/ WOYK160LCTA

Hydraulic indoor unit	Outdoor unit	
Single Phase/ 3 Phase	Single Phase 11/14 kW	3 Phase 11/14/16 kW

Comfort series

Hydraulic indoor unit:
WSYA050DG6/WSYA100DG6
Outdoor unit:
WOYA060LFCA/WOYA080LFCA/ WOYA100LFTA

Hydraulic indoor unit	Outdoor unit	
Single Phase	Single Phase 5/6/8kW	Single Phase 10kW

Split DHW Integrated Type

Super high power series

Hydraulic indoor unit:
WGYG160DJ6/[3 phase] WGYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL/WOYK170LJL

Hydraulic indoor unit	Outdoor unit	
Single Phase/ 3 Phase	Single Phase 16kW	3 Phase 15/17kW

High power series

Hydraulic indoor unit:
WGYG140DG6/[3 phase] WGYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3 phase] WOYK112LCTA/WOYK140LCTA/ WOYK160LCTA

Hydraulic indoor unit	Outdoor unit	
Single Phase/ 3 Phase	Single Phase 11/14 kW	3 Phase 11/14/16 kW

Comfort series

Hydraulic indoor unit:
WGYA050DG6/WGYA100DG6
Outdoor unit:
WOYA060LFCA/WOYA080LFCA/ WOYA100LFTA

Hydraulic indoor unit	Outdoor unit	
Single Phase	Single Phase 5/6/8 kW	Single Phase 10 kW

High leaving water temperature

Super High power series:
High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.
And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.

Super high power series

High power series:
High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

High power series

Comfort series:
Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

Comfort series

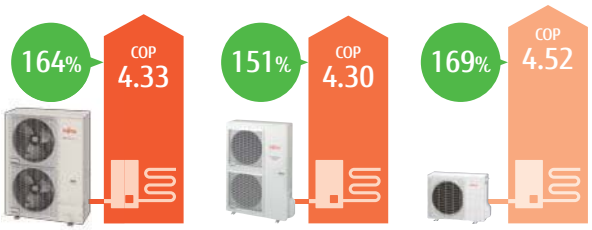
* If you want to raise the hot water supply temperature, backup heaters can be used for auxiliary operation.

High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.

Energy efficiency class A++

Seasonal space heating energy efficiency (η_s)

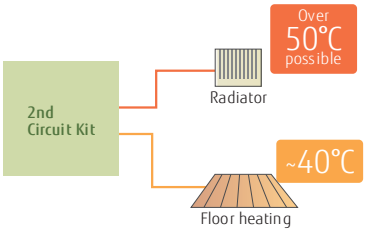


Super High power series (15 kW class) | High power series (11 kW class) | Comfort series (5 kW class)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

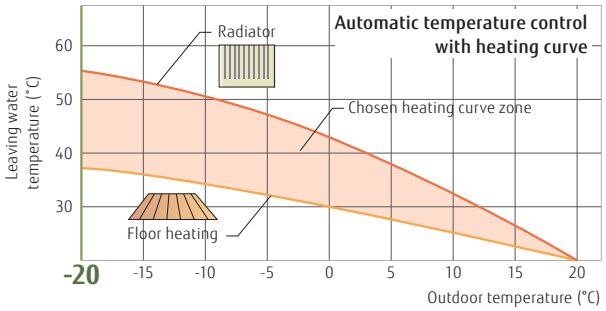
2 Zone individual control*

2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*
*: Optional parts are required.



Automatic heating curve control

Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)

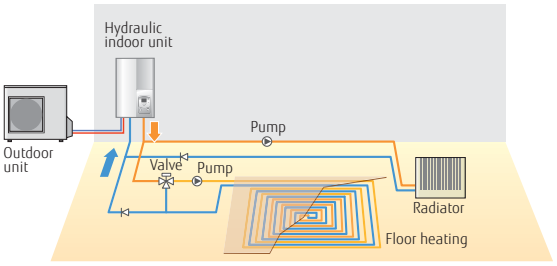


Case Studies

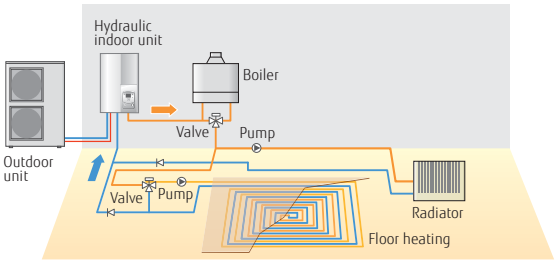
Split Type

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



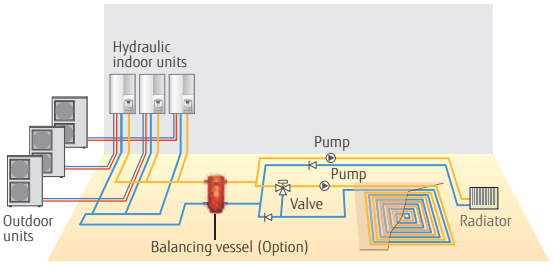
Boiler connected to heating (Boiler + Heating)



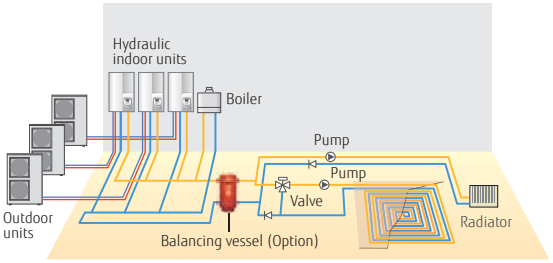
Split Cascade System

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator



Boiler connected to heating (Boiler + Heating)

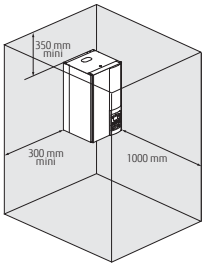


Installation Limitations

Equipment Installation

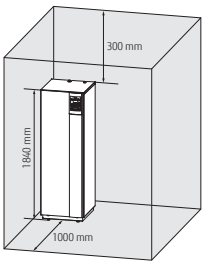
Split type Hydraulic indoor unit

- Hydraulic indoor unit is to be hang on the wall
- Weight ≦ 88 kg (including water)
- Space for maintenance should be respected



Split DHW integrated type Hydraulic indoor unit

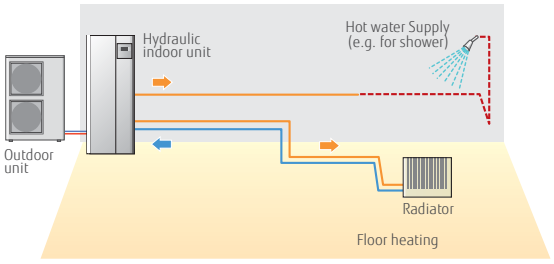
- Floor stand
- Weight ≦ 393 kg (including water)
- Space for maintenance should be respected.



Split DHW Integrated Type

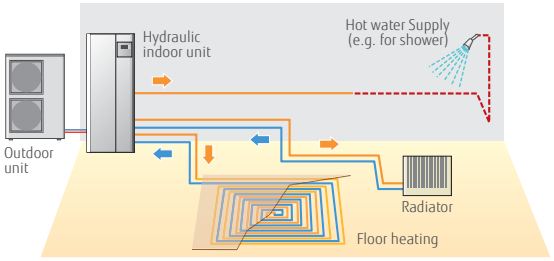
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water



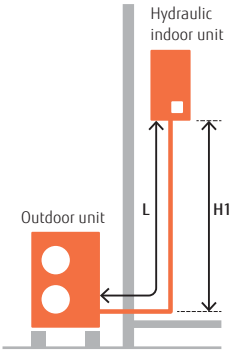
2 emitter simultaneous heating (Individual control) & Domestic Hot Water

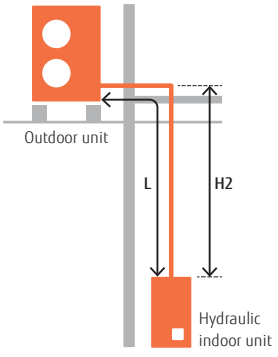
Radiator + Domestic Hot Water



Piping and Wiring Split type

Series	Capacity range (kW)	Pipe diameter (Liquid/Gas) (mm)	H1 (m)	H2 (m)	L (m)
Comfort	5	6.35/12.70	+20	-20	5-30
	6				
	8	6.35/15.88			
	10	9.52/15.88			
High power	11	9.52/15.88	+15	-15	5-20
	14				
	16				
Super High power	15	9.52/15.88	+15	-25	5-30
	16				
	17				





Optional Parts

Product Name	Model Name	Split												Split DHW integrated type											
		Super High Power			High Power					Comfort				Super High Power			High Power					Comfort			
		1Ø		3Ø	1Ø		3Ø			1Ø				1Ø		3Ø	1Ø		3Ø			1Ø			
		16	15	17	11	14	11	14	16	5	6	8	10	16	15	17	11	14	11	14	16	5	6	8	10
2nd Circuit Kit	UTW-KZSXE	–	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
	UTW-KZDXE	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	●
	UTW-KZSXJ	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	UTW-KDSXJ	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–
Boiler Connection Kit	UTW-KBSXD	–	–	–	●	●	●	●	●	●	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–
	UTW-KBDXD	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	●	●	●	●	●
	UTW-KBSXJ	●	●	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–
Balancing Vessel	UTW-TEVXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
DHW Kit	UTW-KDWXD (External)	●	●	●	●	●	●	●	●	●	●	●	●	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1
DHW Tank 200 Liter 300 Liter	UTW-T20AXH UTW-T30AXH	●	●	●	●	●	●	●	●	●	●	●	●	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1
DHW Tank 200 Liter 300 Liter	UTW-T20BXH UTW-T30BXH	●	●	●	●	●	●	●	●	●	●	●	●	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1	_*1
Circulating Pump	UTW-PHFXG	●	●	●	●	●	●	●	●	–	–	–	–	●	●	●	●	●	●	●	●	–	–	–	–
Swimming Pool Kit	UTW-KSPXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heat Exchanger for Swimming Pool Kit	UTW-ESPXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cooling Kit	UTW-KCLXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Regulation Extension Kit	UTW-KREXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Low Noise Kit	UTW-KLNXE	●	●	●	●	●	●	●	●	–	–	–	–	●	●	●	●	●	●	●	●	–	–	–	–
Drain Pan	UTW-KDPXA	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	●	●	●	–

Product Name	Model Name	Split												Split DHW integrated type											
		Super High Power			High Power					Comfort				Super High Power			High Power					Comfort			
		1Ø		3Ø	1Ø		3Ø			1Ø				1Ø		3Ø	1Ø		3Ø			1Ø			
		16	15	17	11	14	11	14	16	5	6	8	10	16	15	17	11	14	11	14	16	5	6	8	10
Cascade Master Kit (incl. LPB Clip)	UTW-KCMXE	–	–	–	●	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
Cascade Slave Kit (incl. LPB Clip)	UTW-KCSXE	–	–	–	●	●	●	●	●	–	–	–	●	–	–	–	–	–	–	–	–	–	–	–	–
HMI Kit	UTW-KHMXE*3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remote Controller Wired	UTW-C74TXF*3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	UTW-C74HXF*3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Room Thermostat Wired	UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Wireless	UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor Sensor Transmitter	UTW-MOSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RF Modules for BSB-Port	UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Web Server	UTW-KW1XD UTW-KW4XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LPB Clip	UTW-KL1XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Service Tool (incl. OCI700 Adapter)	UTW-KSTXD	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5
Service Tool Software	UTW-KPSXD	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6	●*6
External Connect Kit	UTY-XWZXZ2	–	–	–	●	●	●	●	●	–	–	–	–	–	–	–	●	●	●	●	●	–	–	–	–
	UTY-XWZXZ3	●	●	●	–	–	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–

*1: DHW operation is possible without DHW Kit and DHW Tank.
*3: 19 Languages included, no separate Eastern European RC necessary. C74TXF: Built in Room Temperature sensor C74HXF: Built in Room temperature and Humidity sensor
*4: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia)
*5: UTW-KL1XD is required for the connection.
*6: UTW-KW1XD or UTW-KW4XD is required for the connection.
*7: Additional optional part necessary

● : Available – : Not Available

Specifications & Dimensions

for Split Type Super High Power Series

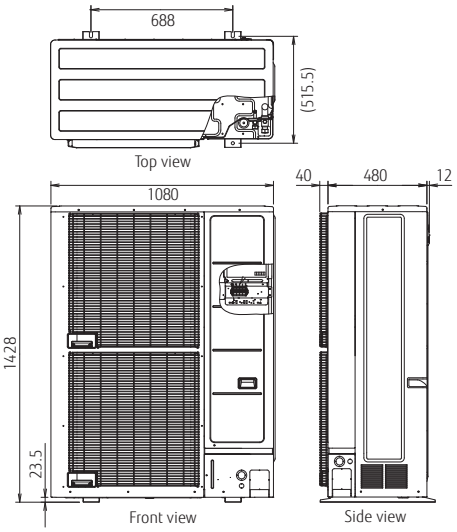
Specifications

			Tentative					
Model Name	Hydraulic indoor unit		WSYG160DJ6		WSYK170DJ9		WSYK170DJ9	
	Outdoor unit		WOYG160LJL		WOYK150LJL		WOYK170LJL	
Capacity range			16		15		17	
7°C/35°C floor heating *1	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 *1	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*1	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*2								
Temperature application		°C	55	35	55	35	55	35
Energy efficiency class			A++	A++	A++	A++	A++	A++
Rated heat output(P_{rated})		kW	14	16	16	17	17	18
Seasonal space heating energy efficiency(η_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 indoor unit	dB(A)	45	45	45	45	45	45
	Outdoor unit		67	66	67	66	67	68
Hydraulic indoor unit Specification								
Power source			Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz			
Dimensions H×W×D		mm	805 × 450 × 471		805 × 450 × 471			
Weight (Net)		kg	52.5		52.5			
Water circulation	Min/Max	L/min	26.4/57.8		24.0/54.2		27.3/61.4	
Buffer tank capacity		L	25		25			
Expansion vessel capacity		L	10		10			
Leaving water temperature range	Max	°C	60		60			
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4			
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification								
Power source			Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz			
Current	Max	A	28.00		14.0		14.0	
Dimensions H × W × D		mm	1,428 × 1,080 × 480		1,428 × 1,080 ×480		1,428 × 1,080 ×480	
Weight (Net)		kg	137		138		138	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)					
	Charge	kg	3.80		3.80		3.80	
Additional refrigerant charge amount		g/m	50		50		50	
Connection pipe	Diameter	Liquid mm	Ø 9.52		Ø 9.52		Ø 9.52	
		Gas	Ø 15.88		Ø 15.88		Ø 15.88	
	Length	Min/Max	m	5/30		5/30		5/30
	Length(Pre-charge)		m	15		15		15
	Height difference	Max	m	25/15 (Outdoor unit:Upper/Lower)				
Operation range		Heating	°C	-25 to 35		-25 to 35		-25 to 35

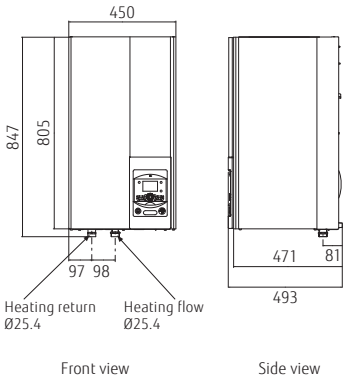
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

Dimensions

NEW **Outdoor Unit:**
Single Phase: WOYG160LJL
3 Phase: WOYK150LJL/WOYK170LJL



NEW **Hydraulic Indoor Unit:**
Single Phase : WSYG160DJ6
3 Phase: WSYK170DJ9



for Split Type High Power Series

Specifications

Model Name	Hydraulic indoor unit		WSYG140DG6		WSYG140DG6		WSYK160DG9		WSYK160DG9		WSYK160DG9	
	Outdoor unit		WOYG112LHT		WOYG140LCTA		WOYK112LCTA		WOYK140LCTA		WOYK160LCTA	
Capacity range			11		14		11		14		16	
7°C/35°C floor heating *1	Heating capacity	kW	10.80		13.50		10.80		13.50		15.17	
	Input power		2.54		3.23		2.51		3.20		3.70	
	COP		4.25		4.18		4.30		4.22		4.10	
2°C/35°C floor heating *1	Heating capacity	kW	10.77		12.00		10.77		13.00		13.50	
	Input power		3.44		3.87		3.40		4.15		4.34	
	COP		3.13		3.10		3.17		3.13		3.11	
-7°C/35°C floor heating*1	Heating capacity	kW	10.38		11.54		10.38		12.20		13.50	
	Input power		4.32		5.08		4.28		5.13		5.40	
	COP		2.40		2.27		2.43		2.38		2.50	
Space heating characteristics*2												
Temperature application		°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency class			A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output(P_{rated})		kW	9	11	11	13	9	11	11	13	13	14
Seasonal space heating energy efficiency(η_s)		%	112	151	113	148	112	154	117	150	117	149
Annual energy consumption		kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,408
Sound power level	Hydraulic indoor unit	dB(A)	46		46		46		46		46	
	Outdoor unit		68		69		69	68	70	68	71	
Hydraulic indoor unit Specification												
Power source			Single-phase, 230 V 50 Hz				3-phase, 400 V 50 Hz					
Dimensions H×W×D		mm	800 × 450 × 457				800 × 450 × 457					
Weight (Net)		kg	42				42					
Water circulation	Min/Max	L/min	19.5/39.0		24.4/48.7		19.5/39.0		24.4/48.7		27.4/54.8	
Buffer tank capacity		L	16				16					
Expansion vessel capacity		L	8				8					
Leaving water temperature range	Max	°C	60				60					
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4				Ø 25.4/Ø 25.4					
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)				9.0(3.0kW×3pcs.)					
Outdoor unit specification												
Power source			Single-phase, 230 V 50 Hz				3-phase, 400 V 50 Hz					
Current	Max	A	22.0		25.0		9.0		9.5		10.5	
Dimensions H × W × D		mm	1,290 × 900 ×330									
Weight (Net)		kg	92				99					
Refrigerant	Type (Global Warming Potential)		R410A (2,088)									
	Charge	kg	2.50									
Additional refrigerant charge amount		g/m	50									
Connection pipe Diameter	Liquid	mm	Ø 9.52									
	Gas		Ø 15.88									
Length	Min/Max	m	5/20									
Length(Pre-charge)		m	15									
Height difference	Max	m	15									
Operation range	Heating	°C	-25 to 35									

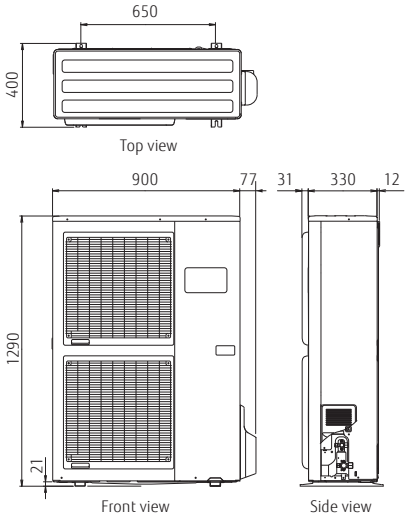
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

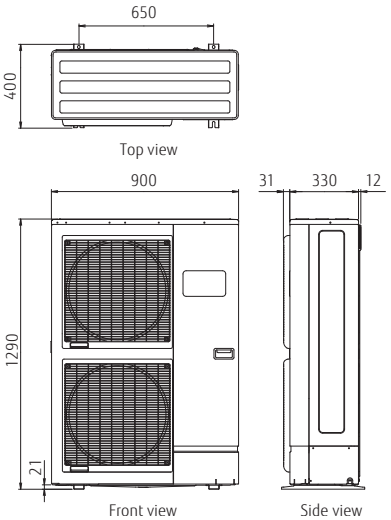
Dimensions

Outdoor Unit:

Single Phase: WOYG112LHT/WOYG140LCTA



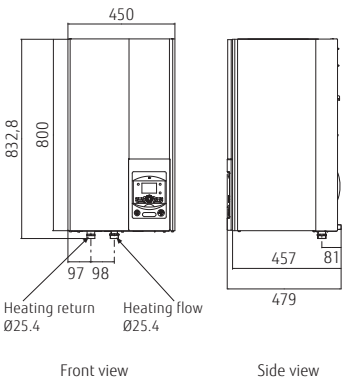
3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

Single Phase: WSYG140DG6

3 Phase: WSYK160DG9



for Split Type Comfort Series

Specifications

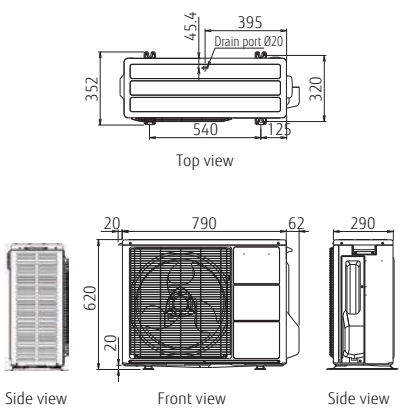
Model Name	Hydraulic indoor unit		WSYA050DG6		WSYA100DG6		WSYA100DG6		WSYA100DG6	
	Outdoor unit		WOYA060LFCA		WOYA060LFCA		WOYA080LFCA		WOYA100LFTA	
Capacity range			5		6		8		10	
7°C/35°C floor heating *1	Heating capacity	kW	4.50		6.00		7.50		10.00	
	Input power		0.996		1.41		1.84		2.49	
	COP		4.52		4.27		4.08		4.02	
2°C/35°C floor heating *1	Heating capacity	kW	4.50		4.95		5.65		7.70	
	Input power		1.39		1.53		1.78		2.47	
	COP		3.24		3.24		3.17		3.12	
-7°C/35°C floor heating*1	Heating capacity	kW	4.10		4.60		5.70		7.40	
	Input power		1.47		1.74		2.23		2.97	
	COP		2.79		2.64		2.56		2.49	
Space heating characteristics*2										
Temperature application		°C	55	35	55	35	55	35	55	35
Energy efficiency class			A+	A++	A+	A++	A+	A++	A+	A++
Rated heat output(P_{rated})		kW	4	4	5	5	6	7	8	8
Seasonal space heating energy efficiency(η_s)		%	115	169	115	169	118	156	113	155
Annual energy consumption		kWh	3,026	2,160	3,180	2,505	3,886	3,375	5,415	4,415
Sound power level	Hydraulic indoor unit	dB(A)	46		46		46		46	
	Outdoor unit		65	60	65	63	65	69	68	69
Hydraulic indoor unit Specification										
Power source			Single-phase 230 V 50 Hz							
Dimensions H×W×D		mm	800 × 450 × 457							
Weight (Net)		kg	42							
Water circulation	Min/Max	L/min	8.1/16.2		10.8/21.7		13.5/27.1		18.1/36.1	
Buffer tank capacity		L	16							
Expansion vessel capacity		L	8							
Leaving water temperature range	Max	°C	55							
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4							
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)							
Outdoor unit specification										
Power source			Single-phase 230 V 50 Hz							
Current	Max	A	12.5				17.5		18.5	
Dimensions H × W × D		mm	620 × 790 ×290						830 × 900 × 330	
Weight (Net)		kg	41				42		60	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)							
	Charge	kg	1.10				1.40		1.80	
Additional refrigerant charge amount		g/m	25						40	
Connection pipe	Diameter	Liquid mm	Ø 6.35						Ø 9.52	
		Gas mm	Ø 12.7				Ø 15.88			
	Length	Min/Max m	5/30							
	Length(Pre-charge)	m	15							
	Height difference	Max m	20							
Operation range		Heating °C	-20 to 35							

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

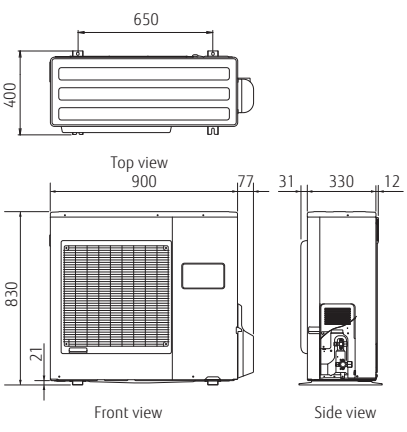
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

Dimensions

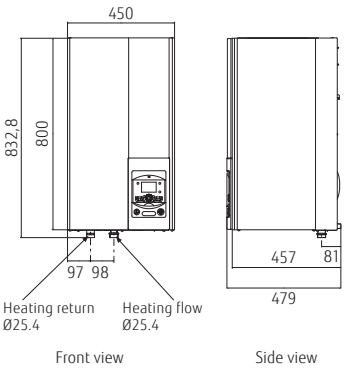
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFTA



Hydraulic Indoor Unit:
WSYA050DG6/WSYA100DG6



for Split DHW Integrated Type Super High Power Series

Specifications

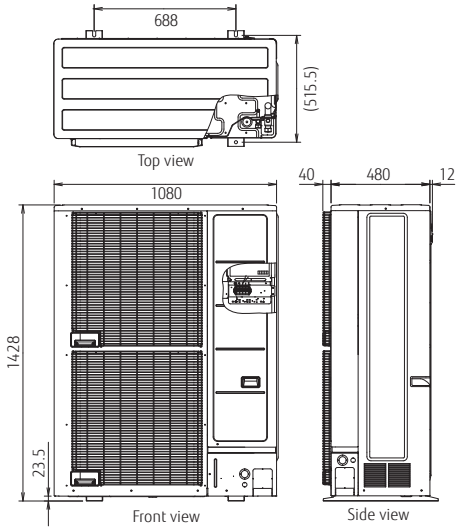
				Tentative					
Model Name			Hydraulic indoor unit	WGYG160DJ6		WGYK170DJ9		WGYK170DJ9	
			Outdoor unit	WOYG160LJL		WOYK150LJL		WOYK170LJL	
Capacity range				16		15		17	
7°C/35°C floor heating *1	Heating capacity	kW		16.00		15.00		17.00	
	Input power			3.86		3.46		4.10	
	COP			4.15		4.33		4.15	
2°C/35°C floor heating *1	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*1	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*2									
Temperature application			℃	55	35	55	35	55	35
Energy efficiency class				A++	A++	A++	A++	A++	A++
Rated heat output(P_{rated})			kW	14	16	16	17	17	18
Seasonal space heating energy efficiency(η_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 indoor unit		dB(A)	45	45	45	45	45	45
	Outdoor unit			67	66	67	66	67	68
Domestic hot water characteristics*2									
Load profile				L					
Energy efficiency class				A					
Energy efficiency(ηwh)			%	109					
Annual electricity consumption			kWh	941					
Hydraulic indoor unit Specification									
Power source				Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz			
Dimensions H×W×D			mm	1,841 × 648 × 698					
Weight (Net)			kg	166					
Water circulation			L/min	26.4/57.8		24.0/54.2		27.3/61.4	
DHW capacity			L	190					
Hot water heater capacity			kW	1.5					
Expansion vessel capacity			L	12					
Leaving water temperature range		Max	℃	60					
Water pipe connection diameter		Flow/Return	mm	Ø 25.4/Ø 25.4					
Hot water pipe connection diameter			mm	Ø 19.05					
Backup heater		Capacity	kW	6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification									
Power source				Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz			
Current		Max	A	28.0		14.0			
Dimensions H × W × D			mm	1,428 × 1,080 × 480		1,428 × 1,080 × 480			
Weight (Net)			kg	137		138			
Refrigerant		Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)			
		Charge	kg	3.80		3.80			
Additional refrigerant charge amount			g/m	50		50			
Connection pipe	Diameter	Liquid	mm	Ø 9.52		Ø 9.52			
		Gas		Ø 15.88		Ø 15.88			
	Length	Min/Max	m	5/30		5/30			
	Length(Pre-charge)		m	15		15			
	Height difference	Max	m	15		15			
Operation range		Heating	℃	-25 to 35		-25 to 35			

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

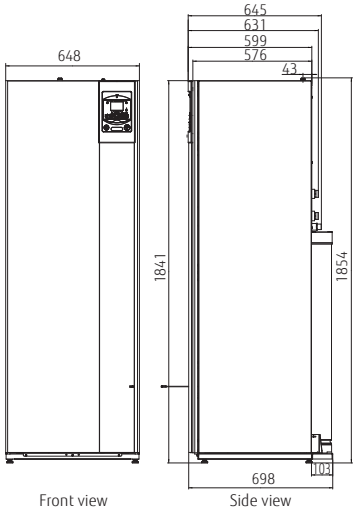
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

Dimensions

NEW **Outdoor Unit:**
Single Phase: WOYG160LJL
3 Phase: WOYK150LJL/WOYK170LJL



NEW **Hydraulic Indoor Unit:**
Single Phase: WGYG160DJ6
3 Phase: WGYK170DJ9



for Split DHW Integrated Type High Power Series

Specifications

Model Name	Hydraulic indoor unit		WGYG140DG6		WGYG140DG6		WGYK160DG9		WGYK160DG9		WGYK160DG9	
	Outdoor unit		WOYG112LHT		WOYG140LCTA		WOYK112LCTA		WOYK140LCTA		WOYK160LCTA	
Capacity range			11		14		11		14		16	
7°C/35°C floor heating *1	Heating capacity	kW	10.80		13.50		10.80		13.50		15.17	
	Input power		2.54		3.23		2.51		3.20		3.70	
	COP		4.25		4.18		4.30		4.22		4.10	
2°C/35°C floor heating *1	Heating capacity	kW	10.77		12.00		10.77		13.00		13.50	
	Input power		3.44		3.87		3.40		4.15		4.34	
	COP		3.13		3.10		3.17		3.13		3.11	
-7°C/35°C floor heating*1	Heating capacity	kW	10.38		11.54		10.38		12.20		13.50	
	Input power		4.32		5.08		4.28		5.13		5.40	
	COP		2.40		2.27		2.43		2.38		2.50	
Space heating characteristics*2												
Temperature application		°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency class			A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output(P_{rated})		kW	9	11	11	13	9	11	11	13	13	14
Seasonal space heating energy efficiency(η_s)		%	112	151	113	148	112	154	117	150	117	149
Annual energy consumption		kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,408
Sound power level	Hydraulic indoor unit	dB(A)	46		46		46		46		46	
	Outdoor unit		68		69		69	68	70	68	71	
Domestic hot water characteristics*2												
Load profile			L									
Energy efficiency class			A									
Energy efficiency(η_{wh})		%	88									
Annual electricity consumption		kWh	1166									
Hydraulic indoor unit Specification												
Power source			Single-phase 230 V 50 Hz				3-phase, 400 V 50 Hz					
Dimensions H×W×D		mm	1,840× 648 × 698									
Weight (Net)		kg	152									
Water circulation		L/min	19.5/39.0		24.4/28.7		19.5/39.0		24.4/48.7		27.4/54.8	
DHW capacity		L	190									
Hot water heater capacity		kW	1.5									
Expansion vessel capacity		L	12									
Leaving water temperature range	Max	°C	60									
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4									
Hot water pipe connection diameter		mm	Ø 19.05									
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)				9.0(3.0kW×3pcs.)					
Outdoor unit specification												
Power source			Single-phase 230 V 50 Hz				3-phase, 400 V 50 Hz					
Current	Max	A	22.0		25.0		9.0		9.5		10.5	
Dimensions H × W × D		mm	1,290 × 900 ×330									
Weight (Net)		kg	92				99					
Refrigerant	Type (Global Warming Potential)		R410A (2,088)									
	Charge	kg	2.50									
Additional refrigerant charge amount		g/m	50									
Connection pipe: Diameter	Liquid	mm	Ø 9.52									
	Gas		Ø 15.88									
Length	Min/Max	m	5/20									
Length(Pre-charge)		m	15									
Height difference	Max	m	15									
Operation range	Heating	°C	-25 to 35									

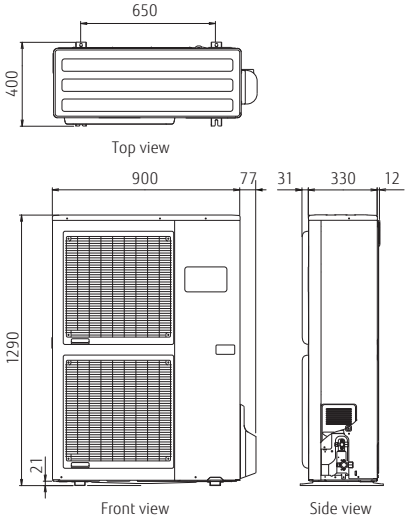
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

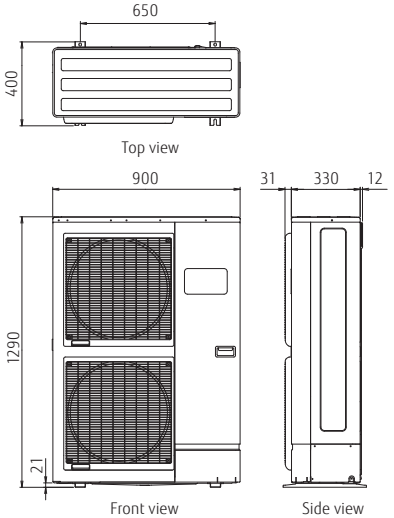
Dimensions

Outdoor Unit:

Single Phase: WOYG112LHT/WOYG140LCTA



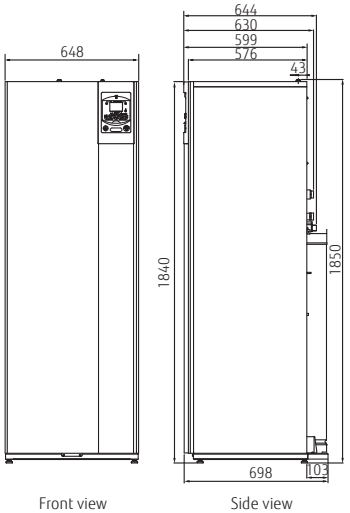
3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

Single Phase: WGYG140DG6

3 Phase: WGYK160DG9



for Split DHW Integrated Type Comfort Series

Specifications

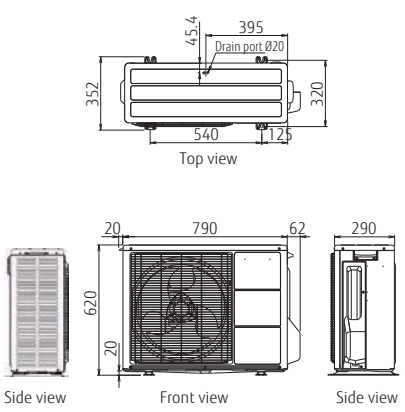
Model Name	Hydraulic indoor unit		WGYA050DG6		WGYA100DG6		WGYA100DG6		WGYA100DG6	
	Outdoor unit		WOYA060LFCA		WOYA060LFCA		WOYA080LFCA		WOYA100LFTA	
Capacity range			5		6		8		10	
7°C/35°C floor heating *1	Heating capacity	kW	4.50		6.00		7.50		10.00	
	Input power		0.996		1.41		1.84		2.49	
	COP		4.52		4.27		4.08		4.02	
2°C/35°C floor heating *1	Heating capacity	kW	4.50		4.95		5.65		7.70	
	Input power		1.39		1.53		1.78		2.47	
	COP		3.24		3.24		3.17		3.12	
-7°C/35°C floor heating*1	Heating capacity	kW	4.10		4.60		5.70		7.40	
	Input power		1.47		1.74		2.23		2.97	
	COP		2.79		2.64		2.56		2.49	
Space heating characteristics*2										
Temperature application		°C	55	35	55	35	55	35	55	35
Energy efficiency class			A+	A++	A+	A++	A+	A++	A+	A++
Rated heat output(P_{rated})		kW	4	4	5	5	6	7	8	8
Seasonal space heating energy efficiency(η_s)		%	115	169	115	169	118	156	113	155
Annual energy consumption		kWh	3,026	2,160	3,180	2,505	3,886	3,375	5,415	4,415
Sound power level	Hydraulic indoor unit	dB(A)	46		46		46		46	
	Outdoor unit		65	60	65	63	65	69	68	69
Domestic hot water characteristics*2										
Load profile			L							
Energy efficiency class			A+							
Energy efficiency(ηwh)		%	120							
Annual electricity consumption		kWh	880							
Hydraulic indoor unit Specification										
Power source			Single-phase 230 V 50 Hz							
Dimensions H×W×D		mm	1,840× 648 × 698							
Weight (Net)		kg	152							
Water circulation		L/min	8.1/16.2		10.8/21.7		13.5/27.1		18.1/36.1	
DHW capacity		L	190							
Hot water heater capacity		kW	1.5							
Expansion vessel capacity		L	12							
Leaving water temperature range	Max	°C	55							
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4							
Hot water pipe connection diameter		mm	Ø 19.05							
Backup heater	Capacity	kW	6.0(3.0kW×2pcs.)							
Outdoor unit specification										
Power source			Single-phase 230 V 50 Hz							
Current	Max	A	12.5				17.5		18.5	
Dimensions H × W × D		mm	620 × 790 ×290						830 × 900 ×330	
Weight (Net)		kg	41				42		60	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)							
	Charge	kg	1.10				1.40		1.80	
Additional refrigerant charge amount		g/m	25						40	
Connection pipe Diameter	Liquid	mm	Ø 6.35						Ø 9.52	
	Gas		Ø 12.70				Ø 15.88			
Length	Min/Max	m	5/30							
Length(Pre-charge)		m	15							
Height difference	Max	m	20							
Operation range	Heating	°C	-20 to 35							

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

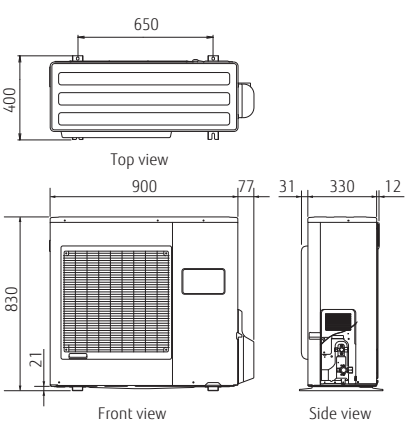
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

Dimensions

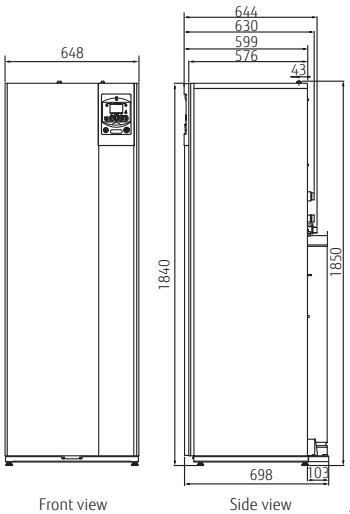
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFTA



Hydraulic Indoor Unit:
WGYA050DG6/WGYA100DG6



SUPPORT

176 AIRSTAGE™ Support
180 Quick Service & Maintenance
182 Service Tool
183 Web Monitoring Tool

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

Category	Information Material												Tool					
	Product Sales Training Material	Product Technical Training Material	Product news	Brochures	Feature Promotion Movie	Operating Manual	Design & Technical Manual	Certificate Data	2D CAD Data	3D CAD (Revit) Data	Installation Manual	Service Manual	WATERSTAGE™ Package label creator	Design Simulator (RAC, PAC, VRF)	WATERSTAGE™ proposer	CFD Simulation	Service Tool / Web Monitoring Tool	Mobile Technician
Product Training	●	●																
Product Information Seek			●	●	●	●	●											
Technical Information Seek							●	●					●					
Model Selection							●							●	●			
Design							●		●	●								
Verification																●		
Installation							●				●							
After sales and Service												●					●	●

Service & Supports Web site
https://www.fujitsu-general.com/global/support/index.html

AIRSTAGE™ Support

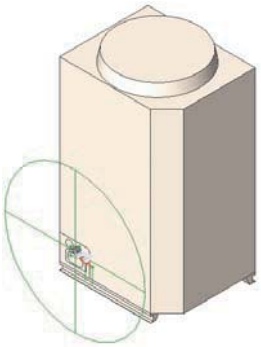
Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities.
We provide a wide range of support to maintain high quality from design to installation.

Technical information

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

Features

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



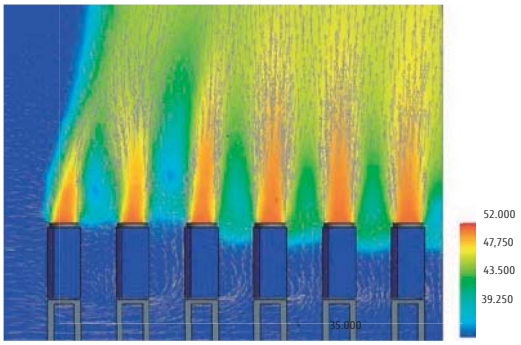
2D/3D CAD Data

Technical support

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

Features

- CFD Simulation
- Guide line
- Commissioning Support



CFD Simulation

Product information

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

Features

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

Commissioning Support

https://www.fujitsu-general.com/uk/support/downloads/vrf/index.html

Training facilities

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

Features

- Designing AIRSTAGE™ Systems
- Control System on-site training

1 Head Office Training Center: Japan
2 China Training Center: China
3 Asia Training Center: Singapore
4 Europe Training Center: U.K.
5 Europe Training Center: Germany
6 America Training Center: U.S.A.
7 Middle East Training Center: UAE
8 Oceania Training Center: Australia

Quick Service & Maintenance

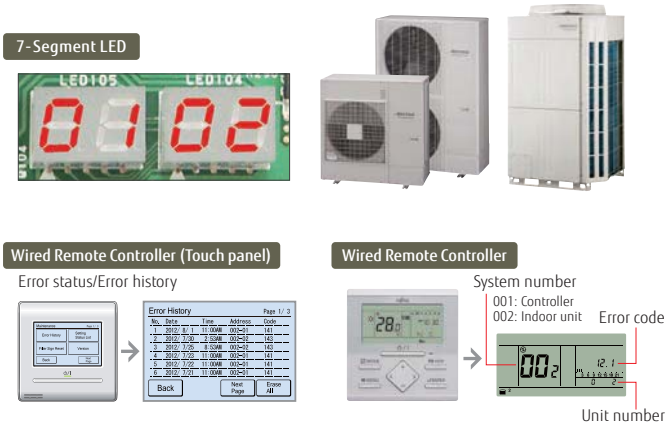
If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at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

Easy maintenance & monitoring

Design for easy maintenance

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

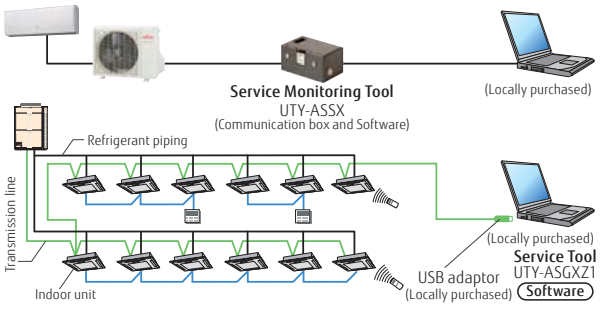
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.



Error diagnosis by Service Tool

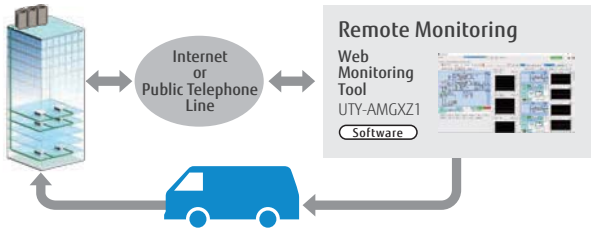
The unit status details from single split models to VRF system can be checked on PC screen by connecting Service Tool.
Quick countermeasures can be taken

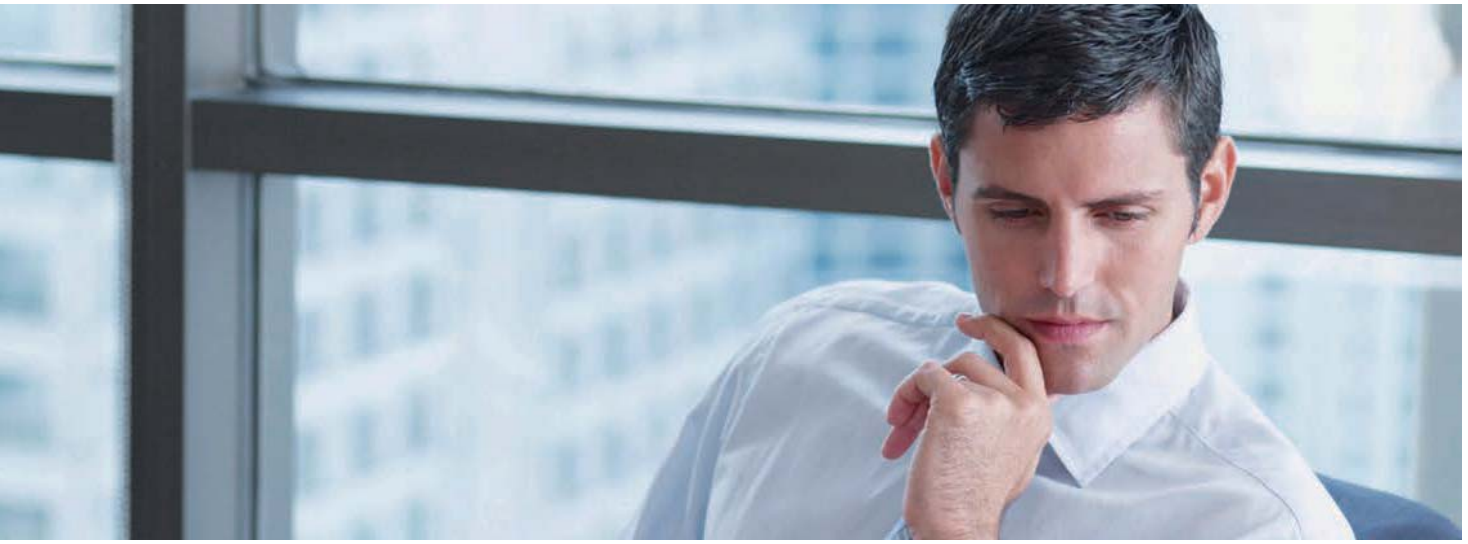
- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)



Remote monitoring

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



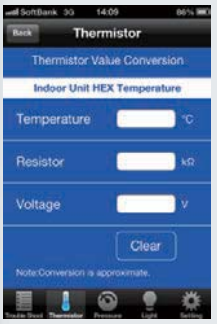


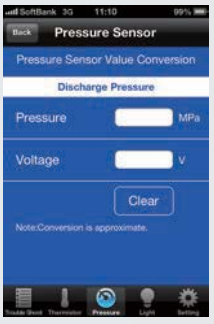
Mobile Troubleshooting Tool for iPhone & Android

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products and Android products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/ PAC, VRF, ATW, FGLair, R32 calculation of allowable refrigerant capacity)

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

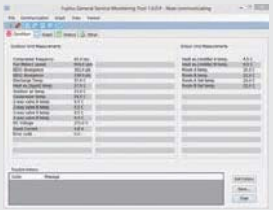
Mobile Technician FREE





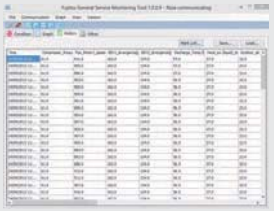
Service Monitoring Tool for Single Split, Multi Split & Air to Water

- Quick overview about temperature sensor readings and controlled parts like EEV, Fan, Compressor and so on.
- It is not easy to judge the point. So it would be better to delete it.
- Visualization of protection operation
- Helpful for intermittent troubleshooting
- Proof of normal operation for the customer during periodical maintenance.



Actual operating condition display

Graph display



Operation history display

	UTY-ASSX
Dimensions (H×W×D) (mm)	60 x 160 x 160
Weight (g)	500

Service Tool

Extensive monitoring and analysis functions for installation and maintenance

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

* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
  - UTR-YSTB/UTR-YSTC (Service Tool)
  - UTR-YMSA (Web Monitoring Tool)

Automatic operation check for refrigeration cycle

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

[Note] Use only as a guide and judge for yourself finally.

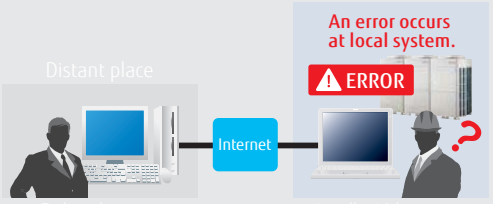
Whether each sensor value is normal is judged automatically.

- ☑ Discharge temperature normal value OK
- ☑ Super heat volume normal value OK
- ☑ High pressure pipe normal value OK
- ☑ Low pressure pipe normal value OK

...etc.

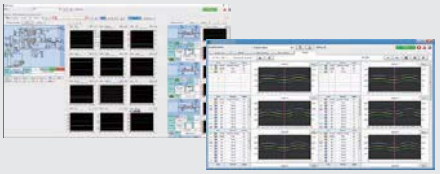
Remote technical support & maintenance

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



Various trend graph display

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



Personal computer system requirements

	UTY-ASGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
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])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port for U10 USB Network Interface and Software protection key
Software	Internet Explorer® 11 or Microsoft Edge

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

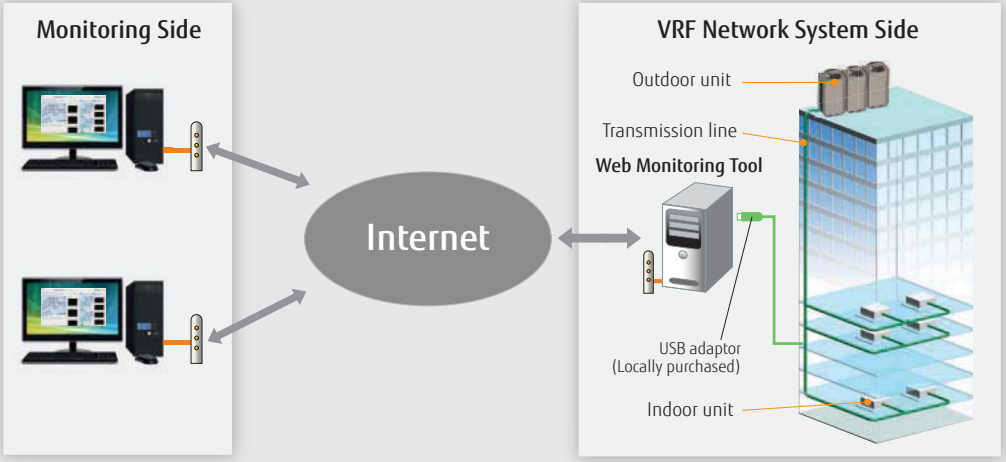
Web Monitoring Tool

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

*1: Use of internet mail system required.

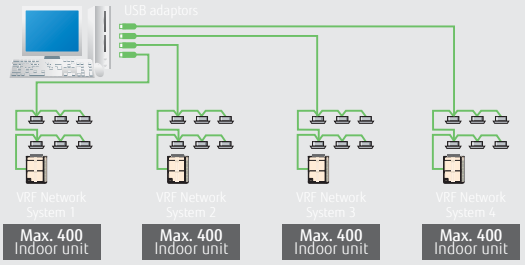
Web Monitoring System



Support 4 VRF network systems

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

Suitable for large-scale buildings or hotels.



Personal computer system requirements

	UTY-AMGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
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])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port (for 10 USB Network Interface Max.4, Software protection key) • Either of the following interface is required for remote connection: - Public Telephone Line: Modem is required - Internet using LAN: Ethernet port is required
Software	Internet Explorer® 11 or Microsoft Edge

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.))

NOTE

NOTE

NOTE