







FUJITSU GENERAL LIMITED



## **DESIGN for COMFORT**



## The AIRSTAGE™ series provides high energy savings, comfort, and reliability to the end user.

The design, installation, and servicing were developed based on the concepts of high flexibility and simplicity.

We offer an abundant VRF system lineup to match regional and customer needs by providing the best combination from low to high capacities and from giving priority to conserving installation space to giving priority to high efficiency.

## For **SMALL BUILDING**



for heating or cooling operation 8 HP - 12 HP 3 Models

14 HP - 16 HP & **NEW** 18 HP 3 Models/3 phase



for heating or cooling operation 4 HP - 6 HP 6 Models/Single phase, 3 phase



Heat Pump type for heating or cooling operation 4 HP - 6 HP 3 Models/Single phase





## AIRSTAGE VR-II

Heat Recovery Modular type for simultaneous heating and cooling operation 8 HP - 48 HP 34 Models

Space saving combinations: 8 HP to 48 HP/21 models Energy efficiency combinations: 16 HP to 44 HP/13 models



Heat Pump Modular type for heating or cooling operation 8 HP - 54 HP 39 Models Space saving combinations 8 HP to 54 HP/24 models Energy efficiency combinations

6 HP to 46 HP/15 models



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## **OUR HISTORY**

Overseas Air Conditioning Business since 1971 VRF Business since 2001

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

For Residential & Light Commercial Use



For Commercial Use



2004 J series 6HP / Heat pump





AIRSTAGE J-II 2011

J-II series High efficiency and small capacity model 4HP to 6HP / Heat pump





1936 Established as Yanu Shouten Ltd

1971 Air conditioner exports to Middle East.

2001 S series 10HP / Heat recovery & Heat pump

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



2007 V series 8HP to 42HP / Heat pump





AIRSTAGE V-II V-II series High efficiency and Compact design model Extensive lineup from 8HP to 48HP in 2HP increment / Heat pump



·



AIRSTAGE VR-II **VR-II** series High efficiency and Compact design model





## AIRSTAGE J-IIS

4HP to 6HP / Heat pump

2014 J-IIS series High efficiency and compact design model

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AIRSTAGE J-III

2016 J-III series High efficiency and small capacity model

4HP to 6HP / Heat pump

52 Page



AIRSTAGE J- III L

2017 - 2019 J-IIIL series

High efficiency and compact design model 10HP to 18HP / Heat pump

### 46 Page



2013

V-II TROPICAL series Tropical spec model Extensive lineup from 8HP to 42HP in 2HP increment / Heat pump



V-III series High efficiency and large capacity model. Extensive lineup from 8HP to 54HP





∕AIRSTAGE V-∭ 2016

V-III TROPICAL series Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump



1936-1971

1998

•

2001-2003

2004-2011

2012

2013

2014

2015

2017-2019 2016

**Certification Acquisition of** 

1998 Fujitsu General (Shanghai) Co.,Ltd.

1999 Fujitsu General (Thailand) co.,Ltd.

2002 FGA (Thailand) Co.,Ltd.

2006 Fujitsu General Central Air-conditioner (Wuxi) co.,Ltd.

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



**RoHS Compliant** 

Restriction of Hazardous Substances (RoHS) is an EU directive on the

restriction of the use of certain hazardous substances in all consumer electrical and electronic equipment.



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



## **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)





· Air conditioner solution center "THE AIRSTAGE" in Manhattan, New York JAPAN Head Office • Fujitsu General America, Inc • Fujitsu General Do Brasil Ltda. New Technology Research Building (Japan)

4 Overseas Sales Companies



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



Fujitsu General (Taiwan) Co., Ltd.



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



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



(Germany)



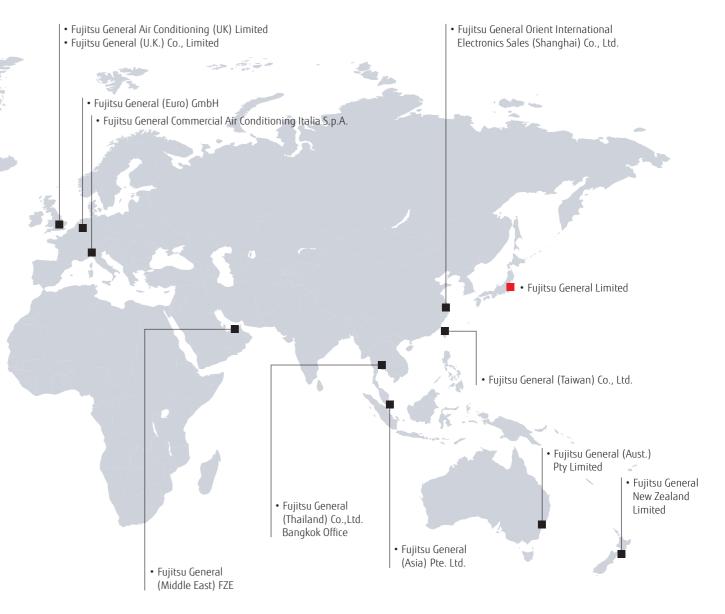
Fujitsu General (U.K.) Co., Ltd. (U.K.)



(UK) Limited (U.K.)



Fujitsu General Commercial Air Conditioning 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.)

## **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









## Middle East









## Europe











Oceania







## Asia









## International authoritative design awards





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

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



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



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



Coolworld Industry Awards "Most Efficient Air



China State Construction



Award is sponsored by the Japan Institute of Design Promotion and is awarded once GOOD a year for an item of

## PROJECT REFERENCE

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

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











## For Light Commercial

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









## For Commercial

- 9 Office in Europe
- Office in Europe
- Office in Europe
  Hotel in Asia







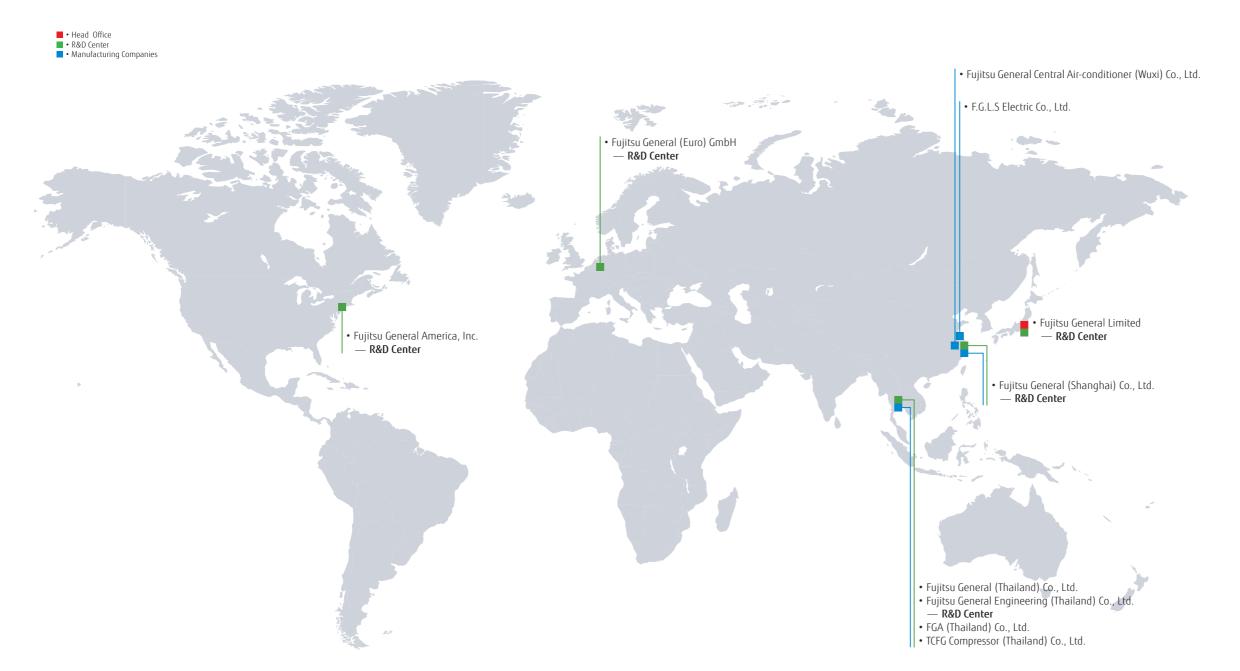


## For Residential

- 13 Residential in Europe
- Residential in Europe
- Residential in Oceania
- Residential in Middle East

## **GLOBAL DEVELOPMENT & PRODUCTION BASES**

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



## R&D Center & New Technology Research Building



R&D Center in Fujitsu General (Shanghai)



R&D Center in Fujitsu General Engineering (Thailand)



R&D Center in Fujitsu General (EURO) GmbH (Germany)



R&D Center in Fujitsu General America (U.S.A.)



R&D Center and 60 m Height Difference Testing Tower (Japan)

## Overseas Manufacturing Companies



Fujitsu General (Shanghai) Co., Ltd. (China)



F.G.L.S. Electric Co., Ltd. (China)



Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd (China)



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



Fujitsu General Engineering (Thailand) Co., Ltd. (Thailand)



FGA (Thailand) Co., Ltd. (Thailand)



TCFG Compressor (Thailand) Co.,Ltd. (Thailand)



Technology Research Building in Japan Head Office

## HIGH QUALITY DEVELOPMENT & PRODUCTION

## Advanced Research Facility and Equipment

## **Performance Testing**



Air Volume Measurement

Measure air volumes of the air conditioners from compact RAC models to VRF.



Measure the cooling/heating capacity by measuring the inlet and outlet temperatures, humidity, and air volume of the air conditioner.



Silent Room

Measure the operating sounds of air conditioners with the sound reflection-proof walls and Fujitsu General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance

using these facilities.

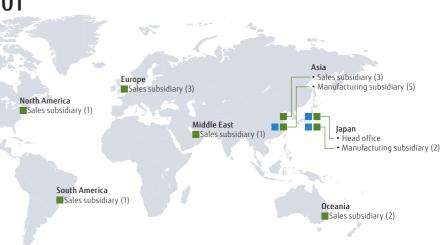
## Acquisition of ISO 9001 and ISO 14001

■ ISO 9001 ISO 14001 ( ) Number of companie

**FACILITIES** 

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

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



## **Reliability Testing**



Constant Temperature Room

Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.



**Practical Test Room** 

Check on whether the air conditioners performance under box of the outdoor unit is the actual house conditions is sustainable.



**Shower Test Room** 

Check on whether the electrical protected by rain waters with Typhoon like wind.

## **High Product Quality** Assurance

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

## Receiving inspection

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

## Stringent product quality inspection

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

## Transportation & Handling



Compressibility testing



Vibration testing



## **Testing Laboratory**

Fujitsu General EMC Laboratory Limited



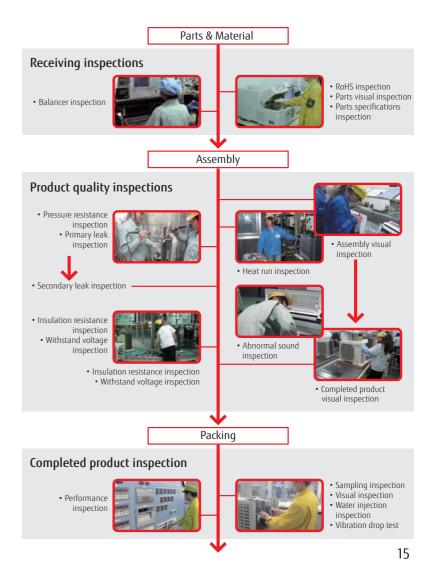




## 60 m Height Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability







Fujitsu General provides the best solutions suitable for properties.



## Solution Point

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



THE

## Target Property

## LIGHT COMMERCIAL

For Small offices, Hotels, School, Shops and Restaurant etc.

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



## COMMERCIAL

## For Large Building

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

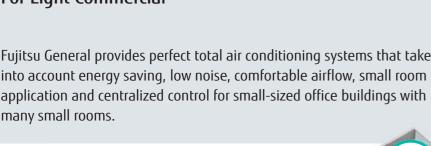


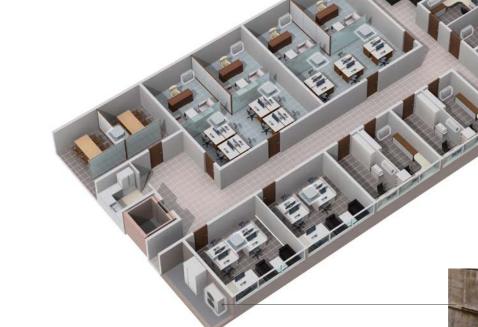
## **Small Offices**

**AIRSTAGE** 

For Light Commercial

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



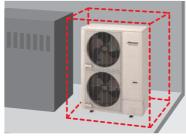




## AIRSTAGE™ J-Series Up to 18 HP by compact outdoor unit

Small VRF system is suitable for the buildings with many small rooms. Max. 42\* indoor units can be connected. \*Only J-IIIL 18 HP model





## Compact and low noise design outdoor unit

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

## New style 3D flow cassette provides more comfort

The left and right air outlet ports with max 100° rotation angle and the wide center air outlet port can minimize uneven temperature to create a comfortable space.



## Various indoor units lineup for low capacity class

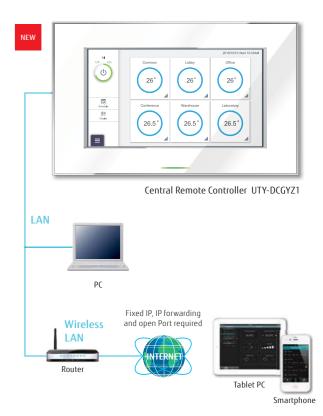
Various range of low capacity 1.1 kW indoor units to suit small rooms or spaces.





## New centralized remote controller with improved operability

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



## Control and monitoring

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

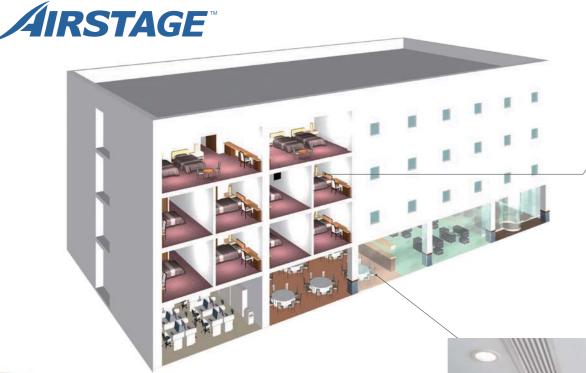


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## Hotels For Light Commercial

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.







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.





## 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.



## 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.





## Card key switch available Using the card key prevents

you from forgetting to switch off the air conditioner



connect switch

### Comfortable airflow that switches up and down air directions

The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.



Auto Louver Grille Kit

## 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.





## Large space air conditioning in the reception and lobby

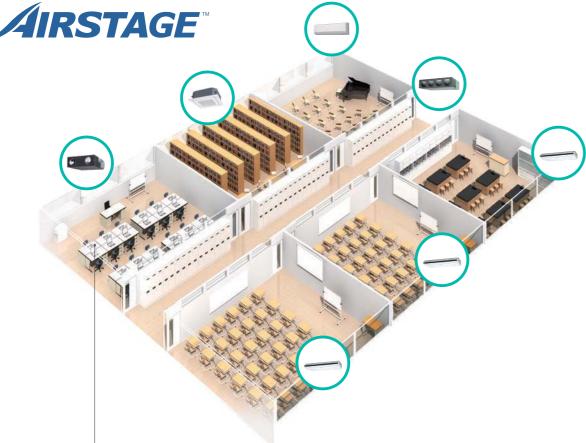
Ultra-large duct type single split system suitable for large spaces with high ceilings



## School For Light Commercial

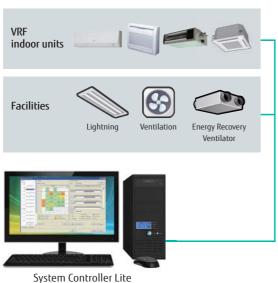
Fujitsu General provides the optimal number of connected indoor units for mid-sized educational institutions. The degree of freedom of the installation location selection is improved with a compact design that minimizes the installation area. Even one outdoor unit can cover the entire school building.





## 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.







## 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.





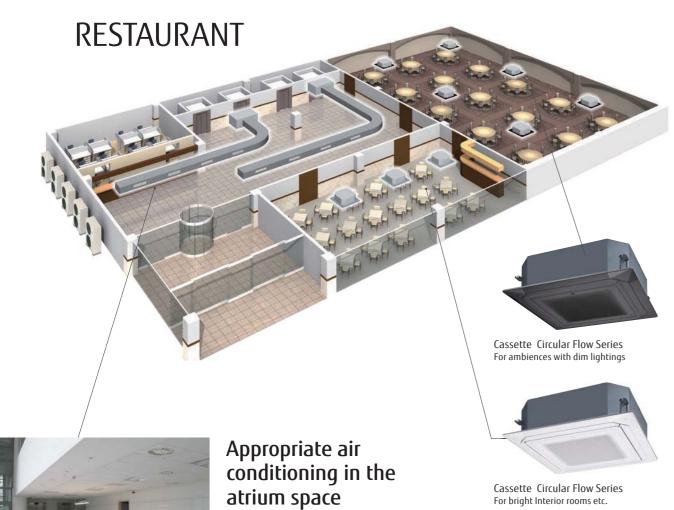
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## Restaurant, Shops

For Light Commercial

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.





High Static Pressure Duct



Appropriate air conditioning of the high ceiling and glass-sided atrium

space with a large duct system

## Color variations by two panels

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



## Low outside air temperature cooling air conditioning support

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





Medium Static Pressure Duct

30-150 Pa

## Large Building

For Commercial

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







## Abundant lineup suitable to match the operating environment

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



## AIRSTAGE VR-II

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

## 8 HP - 48 HP 34 Models

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

## Individual air conditioning system for large buildings

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



## 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.



(UTY-ALGXZ1 & UTY-PLGXX2)

Remote/ Monitoring side



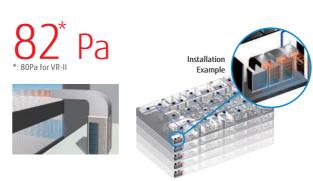
equipment in addition to air conditioning is possible by linking up with MODBUS, BACnet, KNX and other various interfaces.

**Link up with a variety of BMS**Centralized control including facilities and



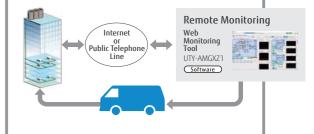
## High system flexibility

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.



## Rapid service support

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





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

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

HIGH ENERGY EFFICIENCY

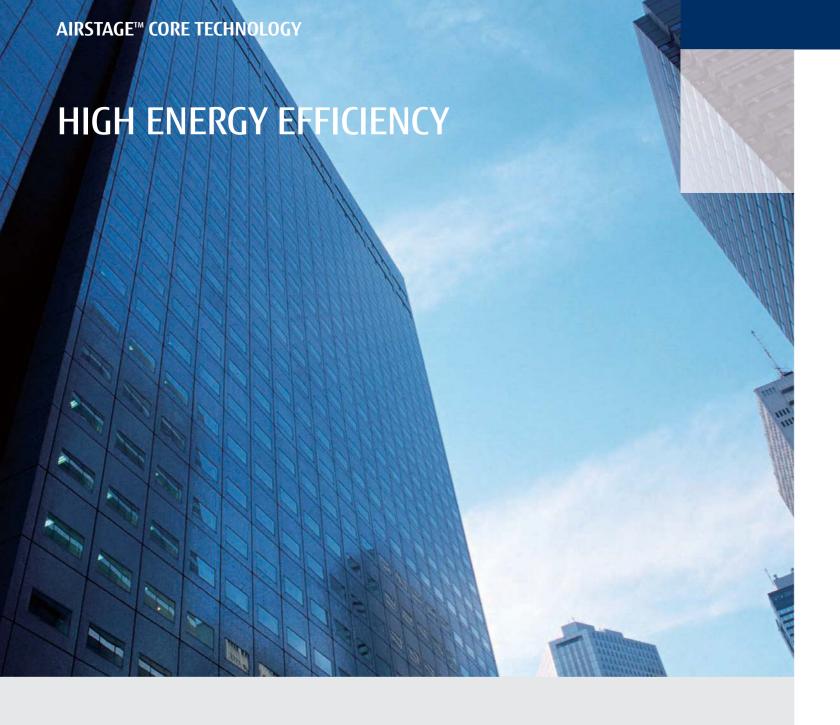
MORE COMFORT

HIGH RELIABILITY

DESIGN FLEXIBILITY

EASY INSTALLATION

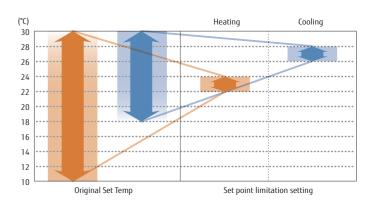
EASY SERVICE & MAINTENANCE



## Operation Performance is Efficiently Controlled.

## Room temperature set point limitation

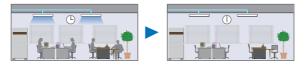
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

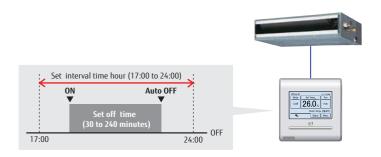


## **Auto-off timer**

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy.

Furthermore a new wired remote controller can set up the interval of time in case operation stops.

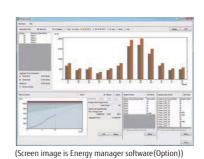


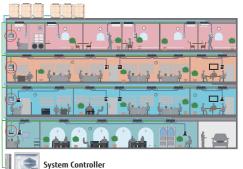


## Energy saving management

A variety energy saving operations can be set and managed depending on the season, weather, and time period.

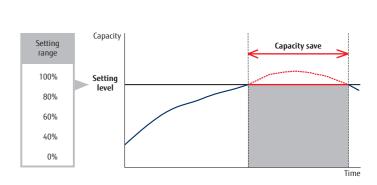
Excellent energy saving operation is performed by using System Controller.





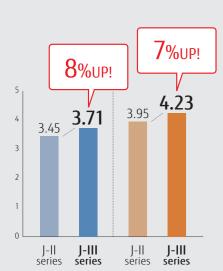


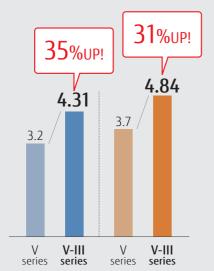
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.

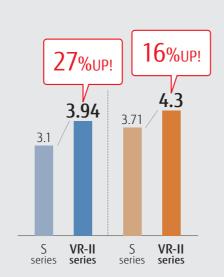


## Highly Energy Efficiency

Significantly efficiency is improved by using DC twin rotary compressor, inverter technology, and large heat exchanger.







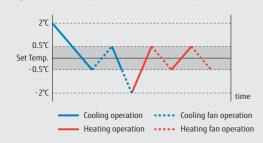
EER

COP (Max. Heating)



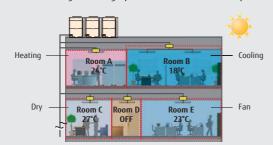
## Auto changeover function

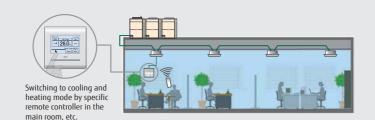
At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



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

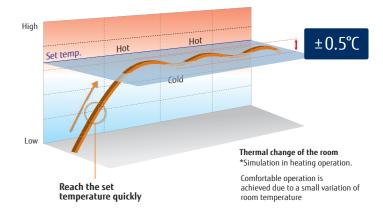
Automatic cooling / heating operation for each room is possible





## Precision refrigerant flow control

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



## Low sound level design

Small capacity indoor units respond for the demands of several applications.

These models will be able to offer greater audibility comfort by operating at super low sound levels.

Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.

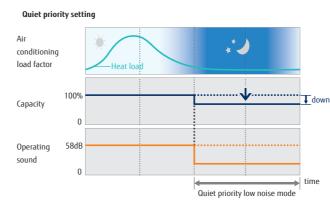


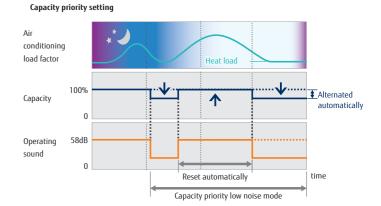
Small capacity indoor unit

## Quiet operation

## Low noise mode

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

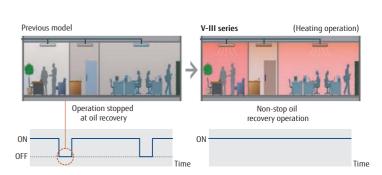


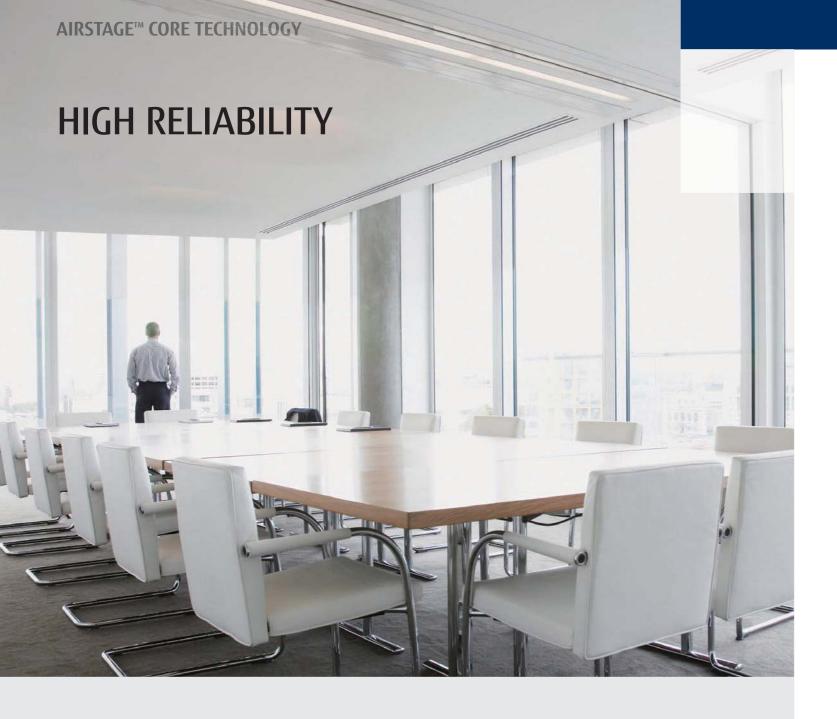


## Non-stop oil recovery operation

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

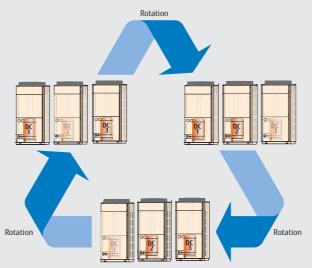
\*: AIRSTAGE VR-II series is not available.





## Outdoor unit rotational operation

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

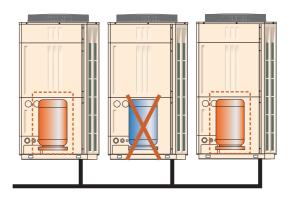


Note: Rotational operation is alternated by the start / stop timing of the compressor.

## **Backup operation**

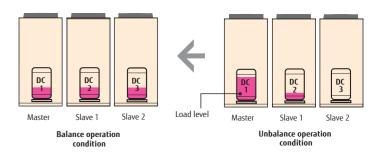
If one compressor fails, backup operation will be performed by the remaining compressors\*.

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



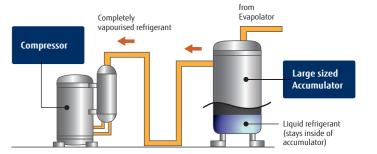
## Advanced refrigerant control

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



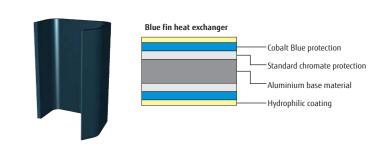
## Liquid flow back protection

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



## Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



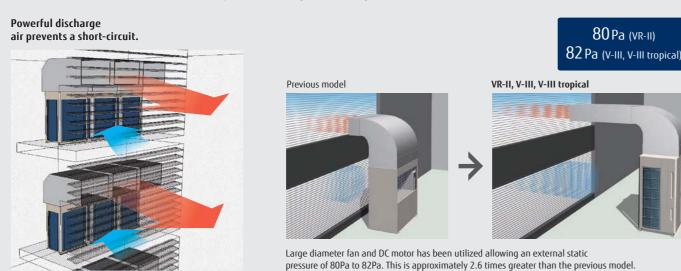
35

## **DESIGN FLEXIBILITY**



## High static pressure

The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa to 82Pa. This allows outdoor units to be installed within plant rooms in high rise buildings.



## High capacity connection



## AIRSTAGE™ J-III series Heat Pump type Connectable indoor unit

4HP-6HP 50% to 150%\*1\*4

Connectable indoor up to 13\*4

- \*1. Conditions of maximum connectable indoor unit capacity ratio is as the chart below.
- \*2. Max. capacities in the combinations including the 18HP outdoor unit fall below 150%.

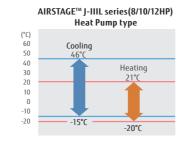
Series	Maximum connectable indoor unit capacity ratio										
Selles	Without 1.1kW models	With 1.1kW models* <sup>4</sup>									
VR-II	150%	130%									
V-III tropical	130%	-									
J-IIIL	150%	150%									
J-III	150%	150%									
J-IIS	130%	117%									

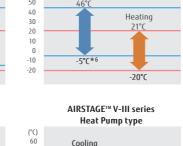
- \*3. In the case of connectable indoor units, 1.1 kW models and Cassette and / or Duct type of 9.0 kW class or more, maximum connectable indoor unit capacity ratio is 110%.
- \*4. When AUXN009/012/014GLAH and ARXN009/012/014GLBH are connected, capacity range is 50% to 105% and only 2 to 4 indoor units are

## Wide operating range

up to 64

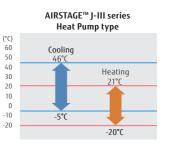
Installation in extreme temperature conditions is possible due to an increase in operational range.





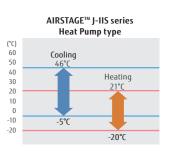
AIRSTAGE™ J-IIIL series (14/16/18HP)

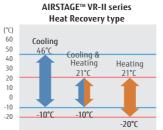
Heat Pump type

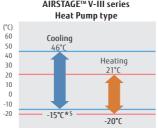


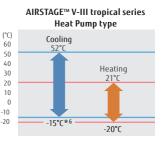
Connectable indoo

up to 64









- \*5. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.
- \*6. Note: Only when all indoor units are 5.6 kW or more in the system, the operation range is -15 to 46°C.

## **EASY INSTALLATION**



## Easily transported

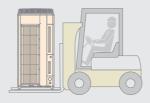
## Easily craned using lifting belt hooks

Design of outdoor unit allows for lifting straps to be used



## Transporting by forklift

Transport with forklift is possible.



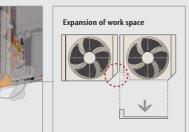
Can be transported in a small elevator



## Easy access

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

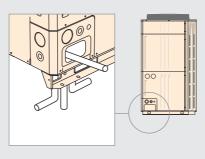


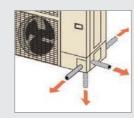




## Flexible piping connection

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

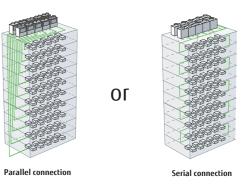




Flexible installation by 4 way pipe direction (J-IIIL is 3 way pipe direction.)

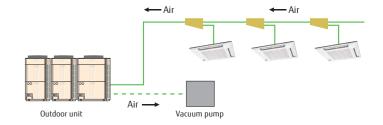
## Simple wiring work

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



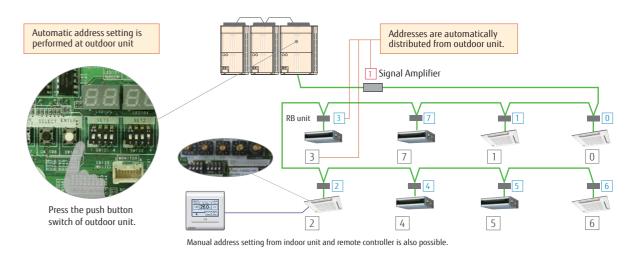
## Easy evacuation - using vacuum mode function

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



## Automatic address setting

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



## Easy commissioning by Service Tool

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



## **EASY SERVICE & MAINTENANCE**



## **Design for Easy Maintenance**

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



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

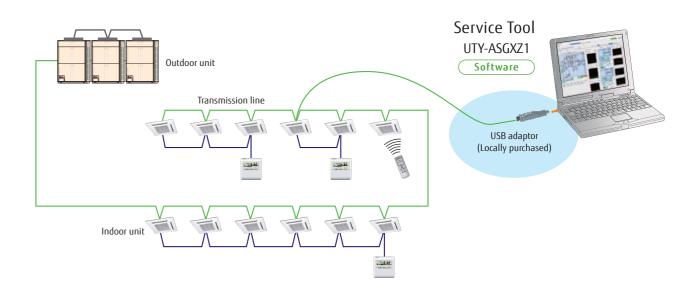


7-segment LED

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

## **Error diagnosis by Service Tool** Connection to Service Tool

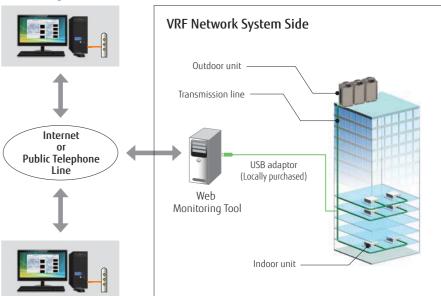
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



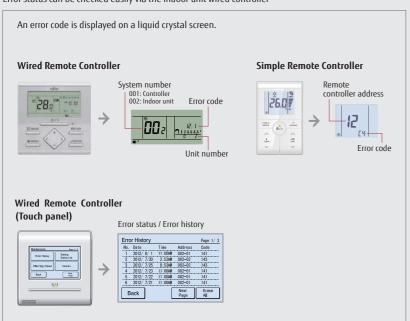
## Remote monitoring

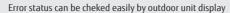
The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation. The operating VRF network system in the building can be monitored real time over the Internet.





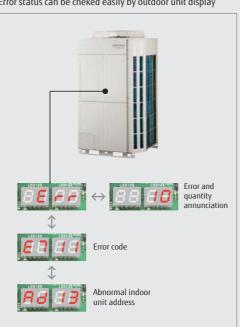
Error status can be checked easily via the indoor unit wired controller





Movable PCB panel Easier for maintenance

work behind the PCB





The AIRSTAGE™ 6 Series has a total of 126 models to meet the environmental and building size requirements.

The AIRSTAGE™ series outdoor units were developed with structural designs and advanced inverter technology to provide higher efficiency. High durability technology has also been incorporated to ensure long-term use.

AIRSTAGE™ LINE-UP

HEAT PUMP TYPE AIRSTAGE™ J-IIIL Series

HEAT PUMP TYPE AIRSTAGE™ J-III Series

HEAT PUMP TYPE AIRSTAGE™ J-IIS Series

HEAT RECOVERY TYPE AIRSTAGE™ VR-II Series

HEAT PUMP TYPE AIRSTAGE™ V-III Series

HEAT PUMP TYPE AIRSTAGE™ V-III TROPICAL Series

## AIRSTAGE™ LINE-UP

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

## ıIII

## Outdoor units range

НР	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
kW class	12.1	14.0	15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	139.0	143.0	147.0
AIRSTAGE J-IIIL Space saving Heat Pump				AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH	AJY162LELAH																		
AIRSTAGE J-III	AJY040LBLAH	AJY045LBLAH	AJY054LBLAH																								
Heat Pump High Efficiency (3 phase)	AJY040LELAH	AJY045LELAH	AJY054LELAH																								
AIRSTAGE J-IIS Space Heat Pump saving	AJY040LCLAH	AJY045LCLAH	AJY054LCLAH																								



AIRSTAGE VR-II	Space saving	AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH	AJY234GALI				AJY306GALH					AJY414GALH	AJY432GALH		
Heat Recovery	High Efficiency					AJY144GALHH			AJY198GALHH	AJY216GALHH	AJY234GALH				AJY306GALHH			AJY378GALHH	AJY396GALHH				
AIRSTAGE V-III	Space saving	AJY072LALBH	AJY090LALBH	AJY108LALBH		AJY144LALBH			AJY198LALBH	AJY216LALBH					AJY306LALBH				AJY396LALBH	AJY414LALBH A	AJY432LALBH AJ	Y450LALBH A	NY468LALBH AJY486LA
Heat Pump	High Efficiency					AJY144LALBHH	AJY162LALBHH	AJY180LALBHH		AJY216LALBHH	AJY234LALBH				AJY306LALBHH			AJY378LALBHH	AJY396LALBHH	AJY414LALBHH			
AIRSTAGE V-III TROPICAL series	Space saving	AJY072LNLBH	AJY090LNLBH	AJY108LNLBH	100	AJY144LNLBH			AJY198LNLBH	AJY216LNLBH	AJY234LNLB	H AJY252LNLBH	AJY270LNLBH	1000	AJY306LNLBH			AJY378LNLBH	AJY396LNLBH	AJY414LNLBH A	AJY432LNLBH AJ	Y450LNLBH A	NJY468LNLBH AJY486LN
Heat Pump  Production by order	High Efficiency					AJY144LNLBHH	AJY162LNLBHH	AJY180LNLBHH		AJY216LNLBHH	AJY234LNLBH				AJY306LNLBHH		AJY360LNLBHH	AJY378LNLBHH	AJY396LNLBHH	AJY414LNLBHH			

## Features

## HEAT PUMP TYPE

AIRSTAGE J- III L series

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

## System Outline

## **Compact Outdoor unit**

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

## Small room application

Up to 40 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

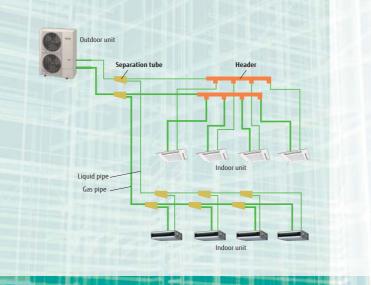
## Quiet design

Small Office

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

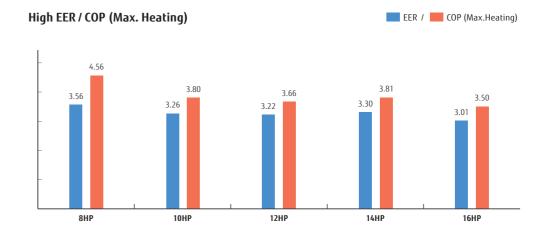
## System configuration example

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



## Efficiency in actual operation

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



## Advanced high efficiency technology



## Large propeller fan

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



## DC fan motor

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



## Large heat exchanger

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



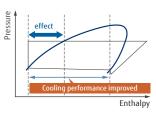
## DC inverter control

Efficiency is improved by mounting of new active filter module.



## — Subcool heat exchanger

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



## Scroll compressor

15-120 rps

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



## Slim & Compact Design Height difference -262 mm AIRSTAGE J-IIIL AIRSTAGE J-IIIL 14/16 HP models & New 18 HP model 480 mm Current model AIRSTAGE™ V-Series Installation space Depth difference Weight -26%! -45%! -58 kg!-285<sub>mm</sub> J-IIIL all models

## **Various Installation**







## In house installation

## Low noise in consideration for the nearby residents

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





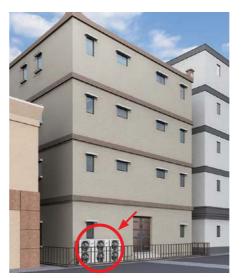




## Narrow space behind building

## Space saving

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









AIRSTAGE™ V-Series outdoor unit

AIRSTAGE™ J-Series outdoor unit

## Installation at back street of building

## Flexible installation

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



## Long piping capability

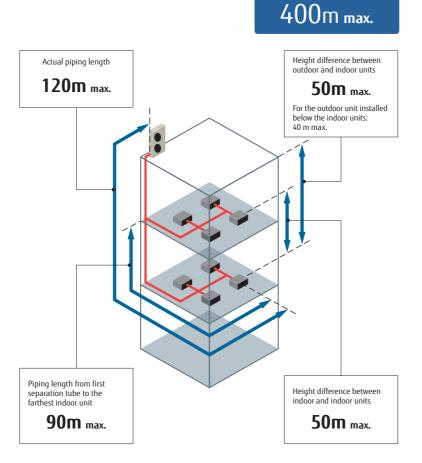
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.

## Up to 42 units\* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 42 units.

\*: 18HP model

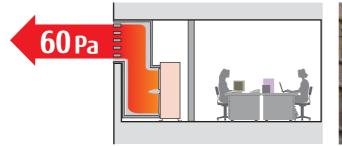




Total pipe length

## **High Static Pressure**

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



## **Specifications**

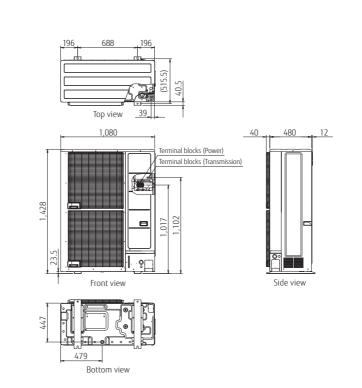
Rating Capacil	ty range	HP	8	10	12	14	16	18
Model name			AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH	AJY162LELAH
Maximum Con	nectable Indoor Unit		1-20	1-25	1-30	1-36	1-40	1-42
Power source					3-phase, ~	400V, 50Hz		
	Cooling		22.4	28.0	33.5	40.0	45.0	50.0
Capacity	Nominal Heating	j kW	22.4	28.0	33.5	40.0	45.0	50.0
	Max Heating	1	25.0	31.5	37.5	45.0	50.0	55.0
	Cooling		6.30	8.59	10.42	12.12	14.96	18.52
Input power	Nominal Heating	j kW	4.65	6.61	8.18	9.71	11.81	13.66
	Max Heating	1	5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling		3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating	W/W	4.82	4.24	4.10	4.12	3.81	3.66
COP	Max Heating	1	4.56	3.80	3.66	3.81	3.50	3.30
Air flow rate		m3/h	8,400	9,000	11,000	13,000	14,000	14,800/15,300
Sound pressure I	evel / Cooling	1D (A)	52/66	54/69	59/73	62/75	64/77	65/79
Power level	Heating	dB (A)	54/—	57/—	61/—	63/—	65/—	68/—
	Height		1,428	1,428	1,428	1,638	1,638	1,638
Dimensions	Width	mm	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
D - (-: )	Type (Global Warming	Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant –	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 (24.6)
Connection pi	pe Liquid		9.52	9.52	12.70	12.70	12.70	12.70
diameter	Gas	mm	19.05	22.20	28.58	28.58	28.58	28.58
Total pipe leng	jth		400	400	400	400	400	400
Max. Height d	ifference	m			50/40 (Outdoor u	ınit: Upper/Lower)		
Operation san	Cooling	- °c	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
Operation ran	ge Heating	٦ '	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

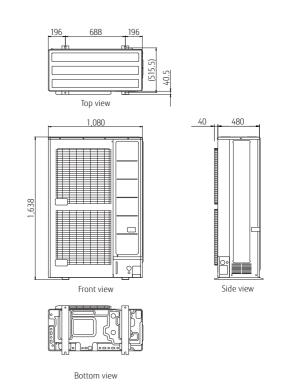
Note: Specifications are based on the following conditions.

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.

## **Dimensions**

Models: AJY072LELAH / AJY090LELAH / AJY108LELAH Models: AJY126LELAH / AJY144LELAH / AJY162LELAH (Unit:mm)





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.



AIRSTAGE J- series

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

## System Outline

## High Energy Efficiency

Small Office

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

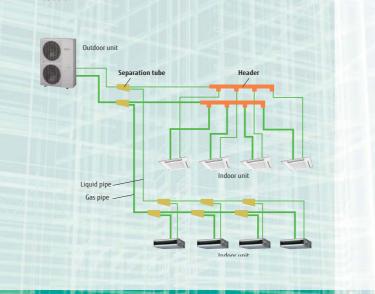
## Flexible systems for small- and medium-size buildings air conditioning

Space saving design and long piping design allows flexible installations on the roofs or balconies of smalland medium-size buildings.

Multiple indoor units of various capacities and types can

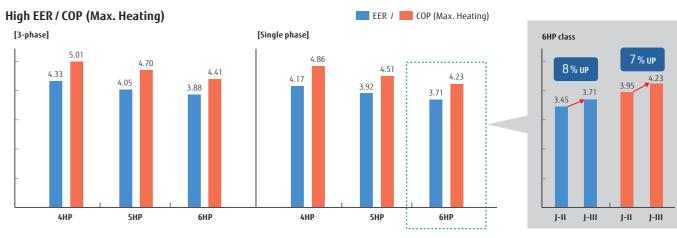
## System configuration example

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



## Efficiency in actual operation

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



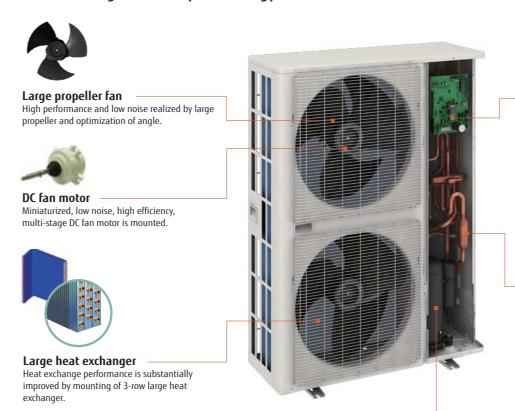
## Advanced high efficiency technology

High efficiency

compressor motor

Optimized refrigerant flow design

Highly accurate parts



DC twin rotary compressor

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

DC Twin Rotary compresso

Compressor capacity



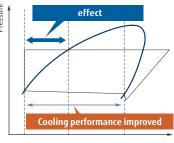
## DC inverter control

Efficiency is improved by mounting of new active filter module.



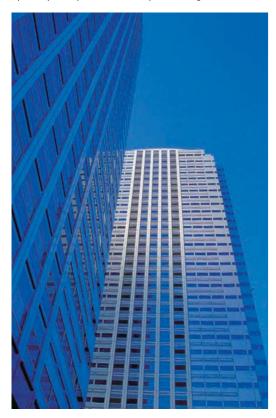
### Subcool heat exchanger Cooling performance is improved by

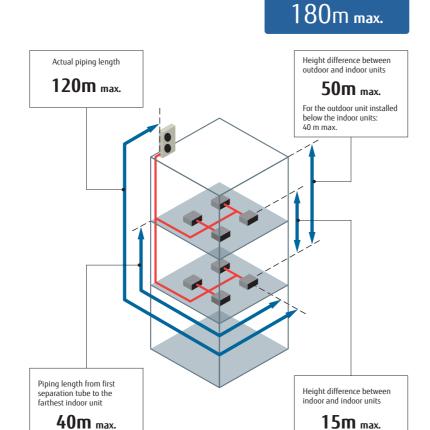
mounting of dual tube heat exchanger.



## Long piping capability

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

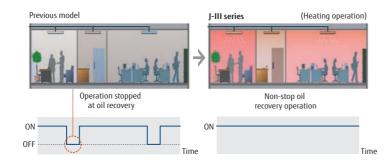




Total pipe length

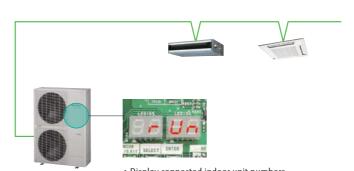
## Non-stop oil recovery operation

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

## **Specifications**

Rating Capacity ran	ge	HP	4	5	6	4	5	6
Model name			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
Maximum Connecta	able Indoor Unit		1-9	1-10	1-13	1-9	1-10	1-13
Power source			9	Single-phase, ~230V, 50H	Z			
	Cooling		12.1	14.0	15.5	12.1	14.0	15.5
Capacity	Nominal Heating	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Max Heating	]	13.6	16.0	18.0	13.6	16.0	18.0
	Cooling		2.90	3.57	4.18	2.79	3.46	3.99
Input power	Nominal Heating	kW	2.30	2.83	3.28	2.23	2.71	3.14
	Max Heating		2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling		4.17	3.92	3.71	4.33	4.05	3.88
СОР	Nominal Heating	W/W	5.27	4.96	4.74	5.44	5.17	4.94
COP	Max Heating		4.86	4.51	4.23	5.01	4.70	4.41
Air flow rate		m3/h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level /	Cooling	dB (A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
Power level	Heating	UB (A)	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
	Height		1,334	1,334	1,334	1,334	1,334	1,334
Dimensions	Width	mm	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 P	otential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Kenigerani	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	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
diameter	Gas	111111	15.88	15.88	19.05	15.88	15.88	19.05
Total pipe length		m	180	180	180	180	180	180
Max. Height differe	nce	""		0 (Outdoor unit: Upper/Lo			0 (Outdoor unit: Upper/Lo	
Operation range	Cooling	• (	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
- operation range	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.

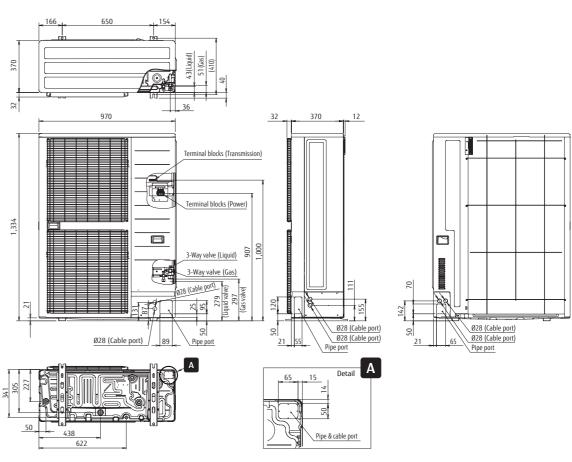
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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**

Models: AJY040LBLAH / AJY045LBLAH / AJY054LBLAH / AJY040LELAH / AJY045LELAH / AJY054LELAH



(Unit:mm)



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

## System Outline

## 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 buildingss 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.

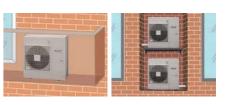
## **Large Homes** System configuration example

## It Can be Easily Carried and **Installed Obscure Place**



## Small and light weight outdoor unit

This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces



## Low sound level design

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



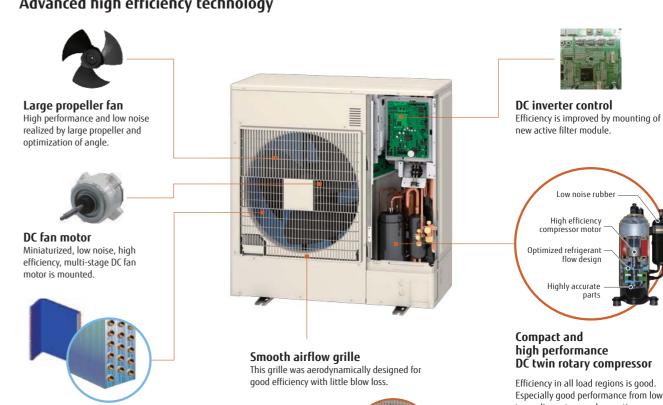
## Advanced high efficiency technology

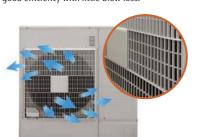
Large heat exchanger Heat exchange performance is substantially improved by mounting of 3-row large heat

> High heat transfer copper tube (Improved

lead angle)

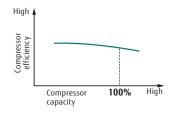
exchanger.





## Efficiency in all load regions is good.

Especially good performance from low to medium at normal operation.



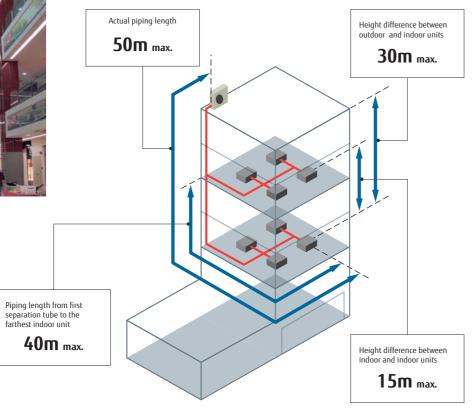


## **Long Piping Length**

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.

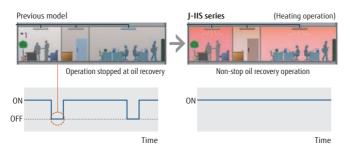






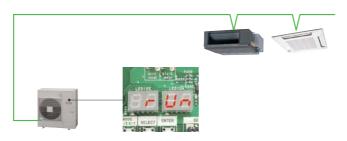
## Non-stop oil recovery operation

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

## Specifications

Rating Capacity ra	nge	HP	4	5	6			
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH			
Maximum Connec	table Indoor Unit		7	8	8			
Power source				Single-phase, ~230V, 50Hz				
	Cooling		12.1	14.0	15.1			
Capacity	Nominal Heating	kW	12.1	14.0	15.1			
. ,	Max Heating	1	13.6	16.0	16.5			
	Cooling		3.44	4.43	5.03			
Input power	Nominal Heating	kW	2.51	3.11	3.52			
	Max Heating	1	3.09	3.93	4.11			
EER	Cooling		3.52	3.16	3.00			
COD	Nominal Heating	W/W	4.83	4.51	4.30			
COP	Max Heating	1	4.40	4.07	4.01			
Air flow rate	-	m³/h	4,040	4,200	4,200			
Sound pressure level	/ Cooling	4D (A)	51 / 67	53 / 69	54 / 70			
Power level	Heating	dB (A)	54 / 68	55 / 69	56 / 70			
Heat exchanger fi	n		Blue fin	Blue fin	Blue fin			
	Height		998	998	998			
Dimensions	Width	mm	970	970	970			
	Depth	]	370	370	370			
Weight		kg	86	86	87			
Refrigerant Typ	e (Global Warming F	otential)	R410A (2,088)	R410A (2,088)	R410A (2,088)			
Remgerant	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)			
Connection pipe	Liquid	mm	9.52	9.52	9.52			
diameter	Gas	mm	15.88	15.88	15.88			
Total pipe length		m	80	80	80			
Max. Height difference		'"	30	30	30			
Onesakina sanaa	Cooling	- °C	-5 to 46	-5 to 46	-5 to 46			
Operation range	Heating	] (	-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.

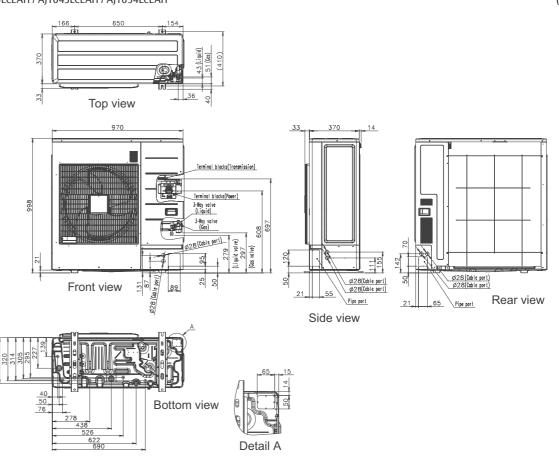
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

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

## **Dimensions**

## Models: AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

(Unit:mm)



AIRSTAGE VR-II series

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

## System Outline

Simultaneous cooling and heating operation using 1 refrigerant system

Cooling and heating can be freely selected for each indoor unit to provide simultaneous cooling and heating in rooms with large temperature differences.

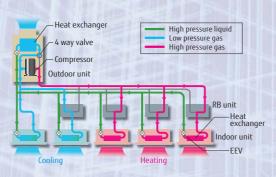
## Annual cooling operation

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

## Handles changes in the temperature difference

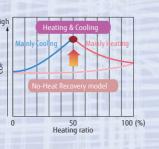
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons

# Large Building



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

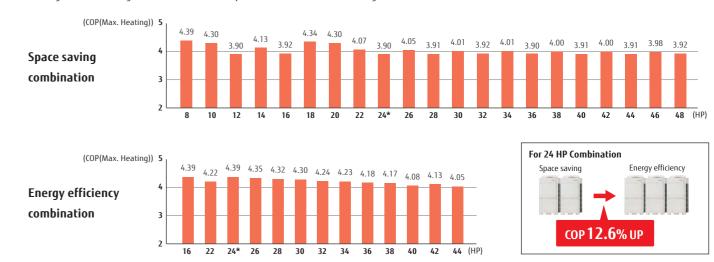
Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



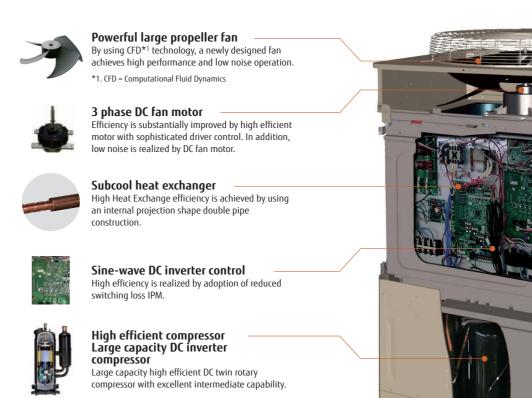
## **Features**

## Efficiency in actual operation

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



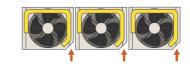
## Energy saving technology that boosted operation efficiency





## 4-face heat exchanger

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





## Front intake port -

(corner cut air inhaling structure)
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.





## All inverter compressor

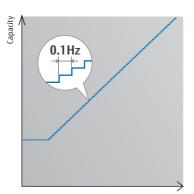
## Large capacity DC inverter compressor

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



## High efficient compressor speed control

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



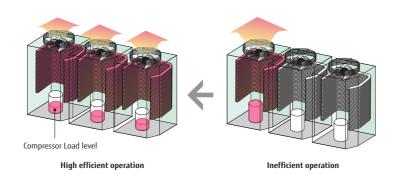
Inverter frequency

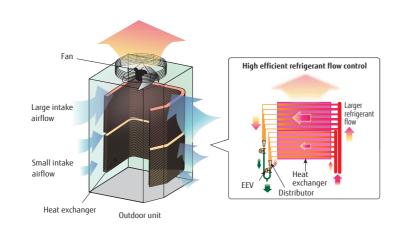
## Multiple outdoor operation control

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

## Heat exchanger refrigerant control

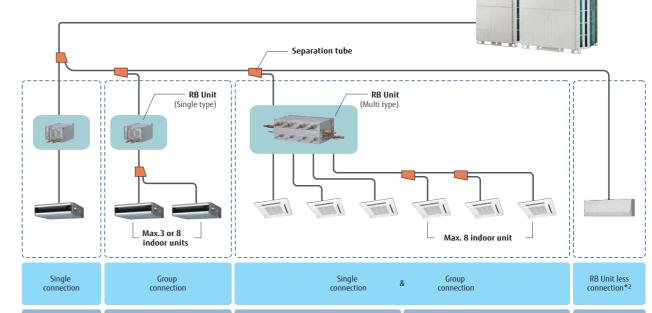
The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.





## Flexible piping connection

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



Individual

cooling and heating

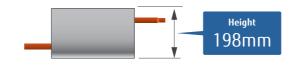
• The RB unit can be freely positioned between the first branch and the indoor unit

cooling and heating

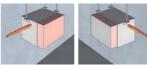
- The maximum height difference between RB units is 15 m.
- \*2. RB Unit is not necessary for cooling only use.

## Flexible installation of RB unit

cooling and heating



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

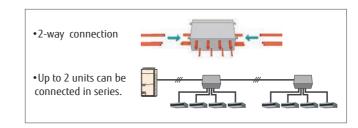






Installation possible on the upper-side for use in narrow space

- Small design saves space
- A drain pipe is not required
- Simple installation series connection design







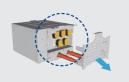
Cooling only

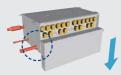
RB unit (single type)

RB unit (multi type)

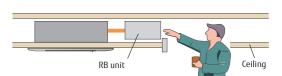


Simultaneous cooling and heating





- Maintenance can be performed from the side.
- Electrics box can be temporarily fixed by sliding
- Parts can be replaced easily even at narrow space in the ceiling.

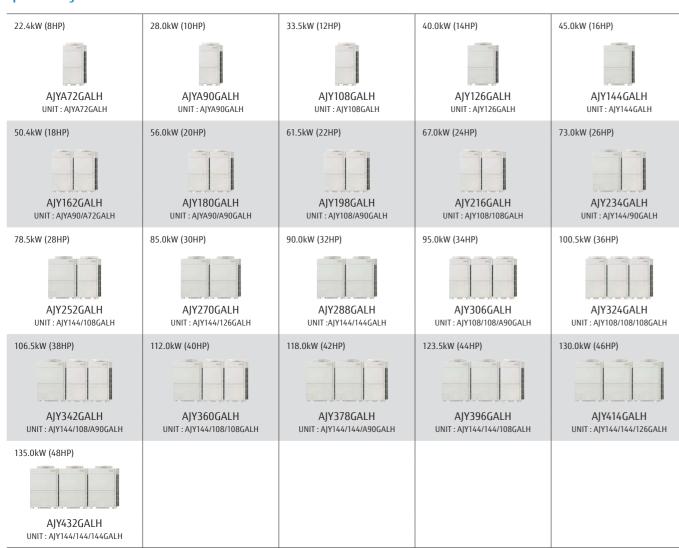


• Combinations other than the followings are not recommended.



(Unit: mm)



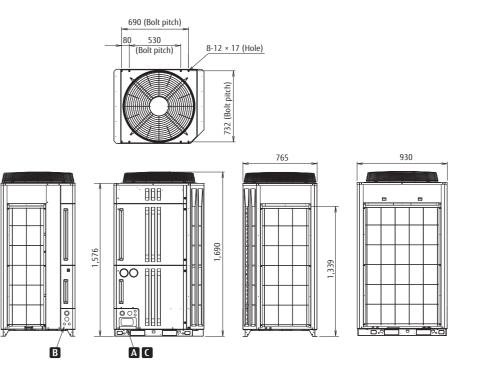


## **Energy efficiency combinations**

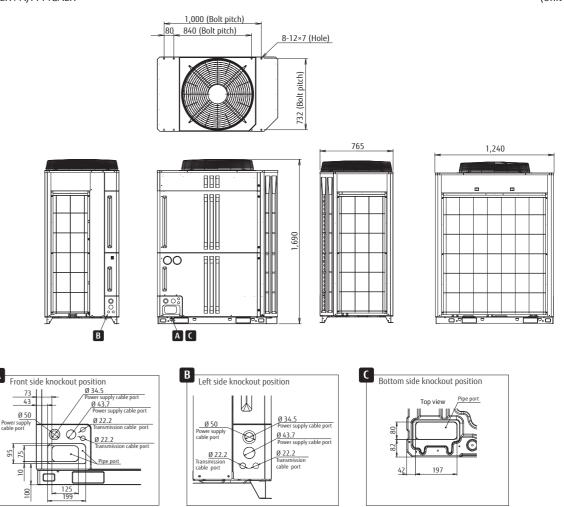


### Dimensions

**8,10,12HP**: AJYA72GALH / AJYA90GALH / AJY108GALH



**14,16HP :** AJY126GALH / AJY144GALH (Unit : mm)





## **Space Saving Combinations**

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
Model name			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH	AJY234GALH	AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH	
Unit 1			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH	AJYA90GALH	AJY108GALH	AJY108GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY108GALH	AJY108GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	AJY144GALH	
Unit 2 Unit 3								AJYA72GALH	AJYA90GALH	AJYA90GALH	AJY108GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH	AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH	AJY144GALH AIYA90GALH	AJY144GALH AJY108GALH	AJY144GALH AJY126GALH	AJY144GALH AJY144GALH	
Maximum Connectable Indoo	r IInit*1		15	16	17	21	24	32	30	32	35	39	42	45	48	50	53	57	60	63	64	64	64	
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	25.2-75.6	28.0-84.0	30.8-92.2	33.5-100.5	36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.3-159.7	56.0-168.0	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5	
	cooming		11.2 33.0	11.0 12.0	10.0 30.2				20.0 0 1.0	30.0 32.2	33.3 100.3	30.3 103.3	33.3	12.3 127.3	15.0 155.0	17.5 112.5			30.0 100.0	33.0 177.0	01.0 103.2	03.0 133.0	07.5 202.5	
Power source															. ,	wire, 400 V, 50Hz								
	Cooling		22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0	73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0	
Capacity	Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	
	Max Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0	81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0	
	Cooling		5.45	7.11	9.75	11.34	13.61	12.56	14.22	16.86	19.50	20.72	23.36	24.95	27.22	26.61	29.25	30.47	33.11	34.33	36.97	38.56	40.83	
Input power	Nominal Heating	kW	4.73	6.00	7.89	8.85	10.54	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	
	Max Heating		5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24	20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31	
EER	Cooling		4.11	3.94	3.44	3.53	3.31	4.01	3.94	3.65	3.44	3.52	3.36	3.41	3.31	3.57	3.44	3.50	3.38	3.44	3.34	3.37	3.31	
COP	Nominal Heating	W/W	4.74	4.67	4.25	4.52	4.27	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	
	Max Heating		4.39	4.30	3.90	4.13	3.92	4.34	4.30	4.07	3.90	4.05	3.91	4.01	3.92	4.01	3.90	4.00	3.91	4.00	3.91	3.98	3.92	
Air flow rate	High	m³/h	11,100	11,100	11,100	13,000	13,000	11,100×2	11,100×2	11,100×2	11,100×2	13,000+11,100	13,000+11,100	13,000×2	13,000×2	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3	
Sound pressure level*2 /	Cooling	dB (A)	56 / 77	58 / 79	59 / 80	60 / 81	61 / 82	60 / 81	61 / 82	62 / 83	62 / 83	63 / 84	63 / 84	64 / 84.5	64/85	63 / 85	64 / 85	64 / 85	65 / 85.5	65 / 86	65 / 86	65 / 86	66 / 87	
Power level	Heating	( /	58 / 80	59 / 81	61 / 83	61 / 83	61 / 83	62 / 84	62 / 84	63 / 85	64 / 86	63 / 85	64 / 86	64 / 86	64 / 86	65 / 87.2	65 / 87	65 / 87	66 / 87.7	65 / 87	66 / 88	66 / 88	66 / 88	
Maximum external static pres	ssure	Pa	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	
Compressor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5×2	7.5×2	7.5×2	7.5×2	11.0+7.5	11.0+7.5	11.0×2	11.0×2	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	
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	Blue fin	Blue fin	Blue fin	Blue fin							
	Height		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	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	
Dimensions	Width	mm	930	930	930	1,240	1,240	930×2	930×2	930×2	930×2	1,240+930	1,240+930	1,240×2	1,240×2	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3	
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	
Weight		kg	262	262	262	286	286	262×2	262×2	262×2	262×2	286+262	286+262	286×2	286×2	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3	
Refrigerant	obal Warming Poter	,	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)	R410A (2,088)	R410A (2,088)							
CI	iarge k	g(CO2eq-T)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8×2	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	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)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	
	Liquid		12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
Connection pipe diameter	Discharge Gas	mm	15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	
	Cooling		-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46							
Operation range	Heating	*C	-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	-20 to 21	-20 to 21							
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21							

## **Energy Efficiency Combinations**

Rating Capacity range		HP	16	22	24	26	28	30	32	34	36	38	40	42	44	
Model name				AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH	AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH
Unit 1				AJYA72GALH	AJY126GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY144GALH	AJY126GALH	AJY144GALH
Unit 2				AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH
Unit 3						AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH	AJYA72GALH	AJYA90GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH
	nnectable Indoo	1		24	33	36	39	42	45	48	51	54	57	60	64	64
Indoor unit conr	nectable capacity	Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0	45.2-135.6	48.0-144.0	51.2-153.6	54.0-162.0	56.5-169.5	60.0-180.0	62.5-187.5
Power source							3-р	hase 4 wire, 400 V,	50Hz					3-phase 4 wir	e, 400 V, 50Hz	
		Cooling		44.8	62.4	67.2	72.8	78.4	84.0	90.4	96.0	102.4	108.0	113.0	120.0	125.0
Capacity		Nominal Heating	kW		-	_	_	_		_	_	_	_	_	_	-
		Max Heating		50.0	70.0	75.0	81.5	88.0	94.5	101.5	108.0	115.0	121.5	126.5	135.0	140.0
		Cooling		10.90	16.79	16.35	18.01	19.67	21.33	23.90	25.56	28.13	29.79	32.06	34.02	36.29
Input power		Nominal Heating	kW	_	_	_	_	_	_	_	_	_	_	_	_	_
		Max Heating		11.40	16.60	17.10	18.73	20.36	21.99	23.93	25.56	27.50	29.13	31.00	32.70	34.57
EER	Cooling			4.11	3.72	4.11	4.04	3.99	3.94	3.78	3.76	3.64	3.63	3.52	3.53	3.44
		Nominal Heating	W/W	_	_	_	_	_	_	_	_	_	_	_	_	_
COP		Max Heating		4.39	4.22	4.39	4.35	4.32	4.30	4.24	4.23	4.18	4.17	4.08	4.13	4.05
Air flow rate		High	m³/h	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
Sound pressure	re level*2 /	Cooling		59 / 80	61 / 82	61 / 82	62 / 83	62 / 83	63 / 84	63 / 84	64 / 85	64 / 85	64 / 86	65 / 86	65 / 86	65 / 86
Power level	icicici 27	Heating	dB (A)	61 / 83	63 / 85	63 / 85	63 / 85	63 / 85	64/86	64 / 86	65 / 87	65 / 87	65 / 87	65 / 87	66 / 88	66 / 88
Maximum exte	ternal static pres	SSUITE	Pa	80	80	80	80	80	80	80	80	80	80	80	80	80
Compressor m			kW	7.5×2	11.0+7.5	7.5×3	7.5×3	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Heat exchange				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin				
		Height		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
Dimensions		Width	mm	930×2	1.240+930	930×3	930×3	930×3	930×3	1.240+930×2	1.240+930×2	1.240×2+930	1.240×2+930	1.240×2+930	1.240×3	1.240×3
		Depth		765	765	765	765	765	765	765	765	765	765	765	765	765
			kg	262×2	286+262	262×3	262×3	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
	Type (Glo	obal Warming Pot		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)				
Refrigerant	// '	narge	kg(CO2eg-T)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	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)	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)
		J. 1.	12.70	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
Connection pipe diameter Discharge Gas		mm	22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	
Suction Gas			28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	
																-10 to 46
Operation rand	ine		٠,													-20 to 21
	. 5 -															-10 to 21
Suction Ga Cooling Operation range Heating		Discharge Gas Suction Gas Cooling		22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34 41 -10 -20

Note: Specifications are based on the following conditions.

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

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

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

<sup>\*1 :</sup> Minimum connectable indoor unit number is 2.

<sup>\*2 :</sup> 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 TYPE**

AIRSTAGE 1/- III series

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

## System Outline

## **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.

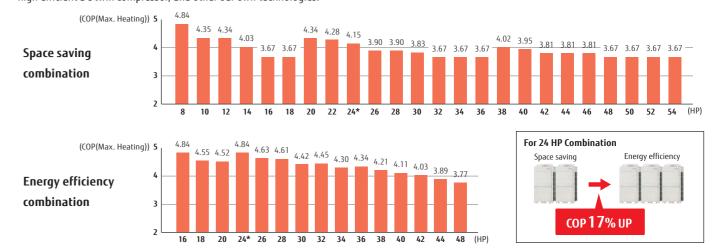
## Easy installation and maintenance

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

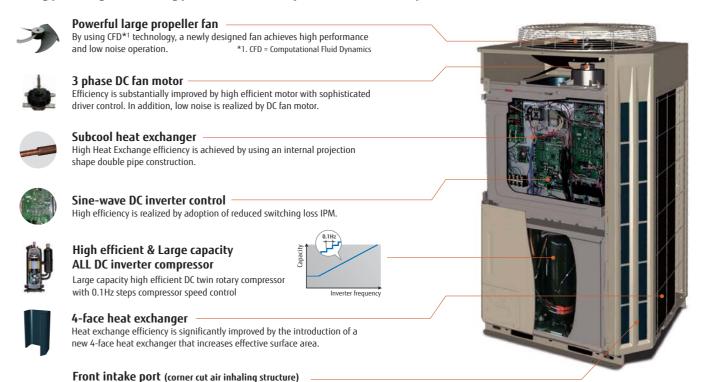
# Large Office System configuration example This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system. Connection of multiple indoor units using separation tubes and headers. Liquid pipe Gas pipe Indoor unit

## **Efficiency in actual operation**

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



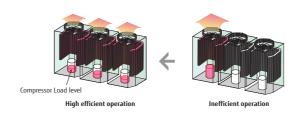
## Energy saving technology that boosted operation efficiency



## Advanced energy saving control

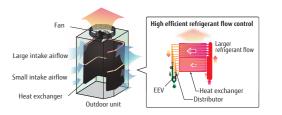
## Multiple outdoor operation control

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



## Heat exchanger refrigerant control

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

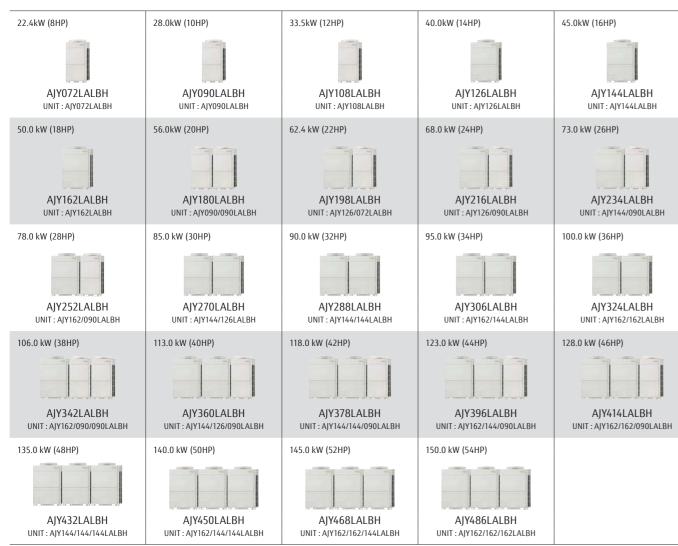


• Combinations other than the followings are not recommended.

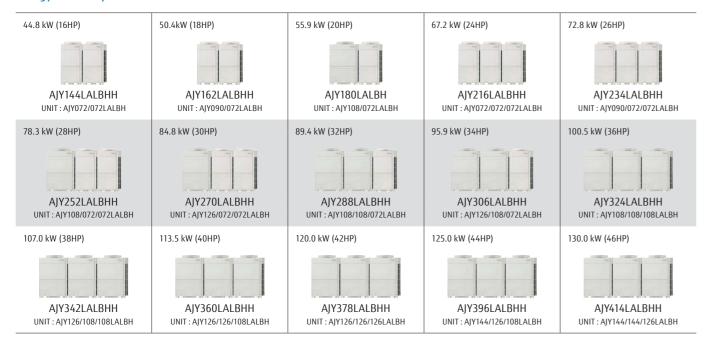


(Unit:mm)

## **Space saving Combinations**

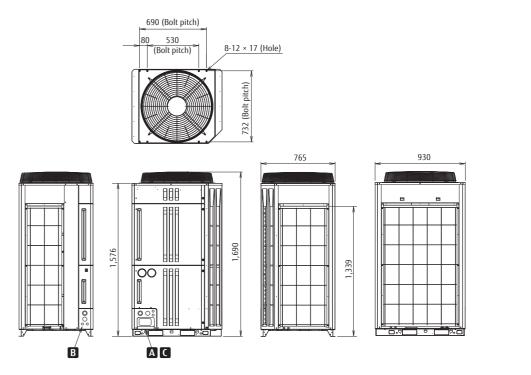


## **Energy efficiency Combinations**

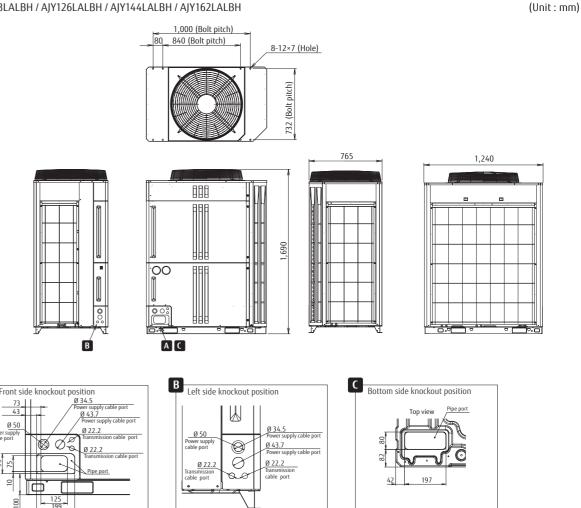


### Dimensions

8,10HP: AJY072LALBH / AJY090LALBH



12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH





# **Space Saving combinations**

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Model name			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
Unit 1 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH		AJY090LALBH AJY090LALBH		AJY126LALBH AJY090LALBH			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
Maximum Connectable Indoo	r Unit*1		17	21	26	30	34	39	43	47	52	56	60	64	64	64	64	64	64	64	64	64	64	64	64	64
Indoor unit connectable capacity	Cooling	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	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
Power source							3-ph	se 4 wire, 400 V,	, 50Hz										3-ph	ase 4 wire, 400 V,	50Hz					
	Cooling		22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	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
Capacity	Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0	50.0	-	-	-	-	_	-	_	_	_	-	-	-	-	_	-	-	-	-
	Max Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5	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
	Cooling		5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84	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
Input power	Nominal Heating	kW	4.31	5.98	7.10	8.97	11.09	13.63	-	-	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	Max Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88	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
EER	Cooling		4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	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
COD	Nominal Heating	W/W	5.20	4.69	4.72	4.46	4.06	3.67	_	-	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
COP	Max Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90	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
Air flow rate	High	m³/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	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
Sound pressure level*2 /	Cooling	JD (A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85	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
Power level	Heating	dB (A)	58 / 80	59 / 81	60 / 83	62 / 84	64/86	64 / 86	62/84	63 / 85	64/86	65 / 87	65 / 87	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
Maximum external static pres	sure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	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	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
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	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin					
	Height		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	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
Dimensions	Width	mm	930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930	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
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	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	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
Type (Gl	bal Warming Poter	tial)	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)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)					
Refrigerant Ch	arge k	(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)	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)
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	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
	Discharge Gas	1/1111	22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	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
Operation range	Cooling	٠,	-15 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	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46					
	Heating	C	-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	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21					

# **Energy Efficiency combinations**

Rating Capacit	ity range		HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
Model name				AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH
Unit 1				AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY072LALBH	AJY090LALBH							AJY126LALBH	AJY126LALBH	AJY144LALBH	AJY144LALBH
Unit 2				AJY072LALBH	AJY072LALBH	AJY072LALBH		AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY108LALBH	AJY108LALBH	AJY108LALBH	AJY108LALBH	AJY126LALBH	AJY126LALBH	AJY126LALBH	AJY144LALBH
Unit 3							AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY072LALBH		AJY108LALBH	AJY108LALBH	AJY108LALBH	AJY126LALBH	AJY126LALBH	AJY126LALBH
	nnectable Indoor			34	39	43	52	56	60	64	64	64			64	64	64	64
Indoor unit conr	nectable capacity	Cooling	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	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
Power source								3-pha	ase 4 wire, 400 V	, 50Hz						3-phase 4 wir	e, 400 V, 50Hz	
		Cooling		44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
Capacity		Nominal Heating	kW	-	_	_	-	_	_	_	_	_	_	_	_	_	_	_
		Max Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
		Cooling		10.40	12.48	14.16	15.60	17.68	19.36	21.36	23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
Input power		Nominal Heating	kW	-	-	-	-	-	-	-	-	-	-	_	_	_	_	_
		Max Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
EER		Cooling		4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
		Nominal Heating	W/W	-	_	_	-	_	_	_	_	_	-	_	_	_	_	_
COP		Max Heating		4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
Air flow rate		High	m <sup>3</sup> /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	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
Sound pressur	re level*2 /	Cooling	10 (4)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84	61 / 82	63 / 84	63 / 83	64/84	64/85	65 / 88	66 / 87	66 / 87
Power level		Heating	dB (A)	61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64/86	65 / 87	64/87	65 / 88	65 / 88	65 / 88	66 / 88	67 / 89	68 / 90	68/90
Maximum ext	ternal static pres	sure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor m	notor 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	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
Heat exchange	jer 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	Blue fin	Blue fin	Blue fin
		Height		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	1,690	1,690
Dimensions		Width	mm	930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2	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
		Depth		765	765	765	765	765	765	765	765	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	275×2+252	275×2+252	275×3	275×3	275×3	275×3	275×3	275×3
	Type (Glo	obal Warming Pot	tential)	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)	R410A (2,088)	R410A (2,088)
Refrigerant	Ch	arge	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)	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)
		Liquid		12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
Connection pi	pe diameter	Discharge Gas	mm	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
		Cooling		-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	-5 to 46	-5 to 46
Operation ran	ige	Heating	*C	-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	-20 to 21	-20 to 21
		Heating		-20 (0 21	-201021	-20 10 21	-20 (0 2 1	-20 (0 21	-20 t0 21	-20 10 21	-20 10 21	-20 10 21	-20 (0 2 1	-20 (0 2 1	-20 t0 21	-20 (0 2 1	-20 (0 21	-20 10 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.

<sup>\*1 :</sup> Minimum connectable indoor unit number is 2. However ARXC72 and ARXC90 can be used signal connection.

<sup>\*2 :</sup> 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 TYPE

AIRSTAGE V- TROPICAL series ROPICAL



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

# System Outline

# High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

# Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

# Anti-corrosion treatment design

Large Office

All metalic and PCB components are protected against corrosion

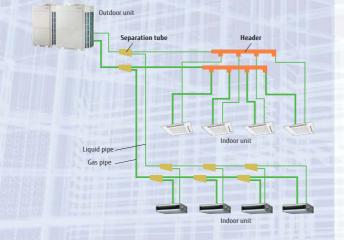






# System configuration example

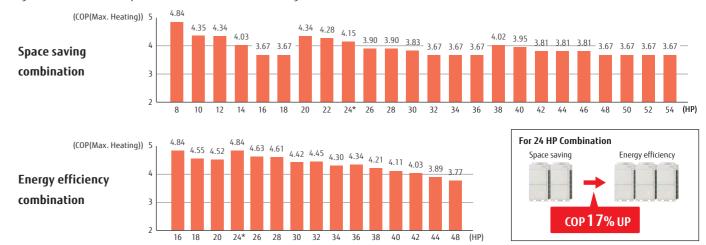
- This system is used for medium-sized and large buildings.
   Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers



# **Features**

# Efficiency in actual operation

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



# Energy saving technology that boosted operation efficiency

# 7

# 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



# 3 phase DC fan motor

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



### Subcool heat exchanger

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



# Sine-wave DC inverter control

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



# High efficient & Large capacity DC inverter compressor

Large capacity high efficient DC twin rotary compressor with 0.1Hz steps compressor speed control



# 4-face heat exchanger

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

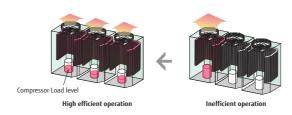
 $\begin{tabular}{ll} Front in take port ({\it corner cut air inhaling structure}) \\ \end{tabular}$ 



# Advanced energy saving control

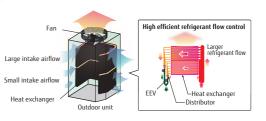
# Multiple outdoor operation control

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



# Heat exchanger refrigerant control

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

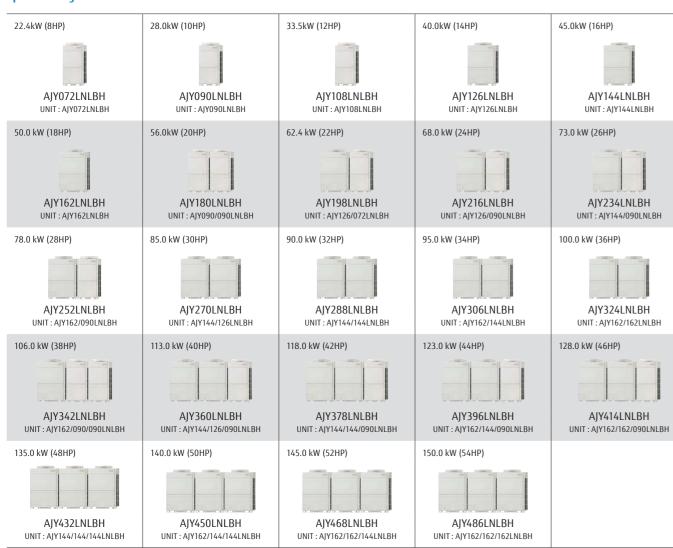


• Combinations other than the followings are not recommended.

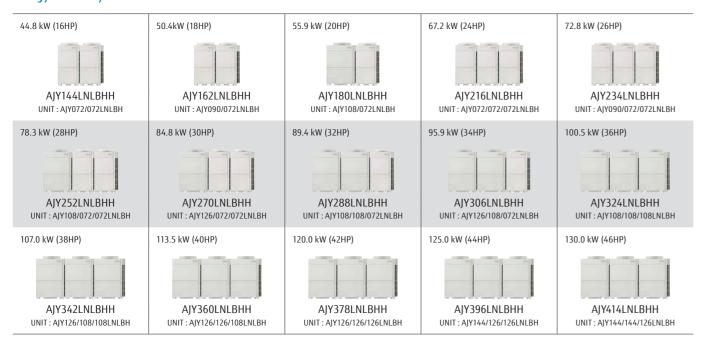


(Unit:mm)



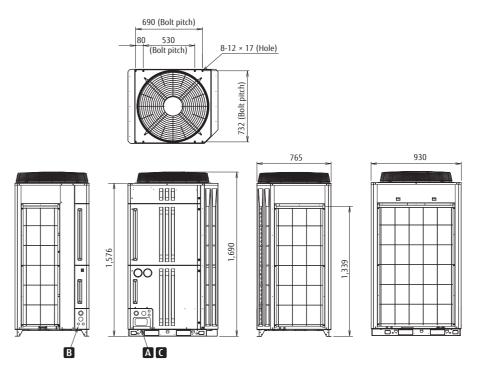


# **Energy efficiency combinations**

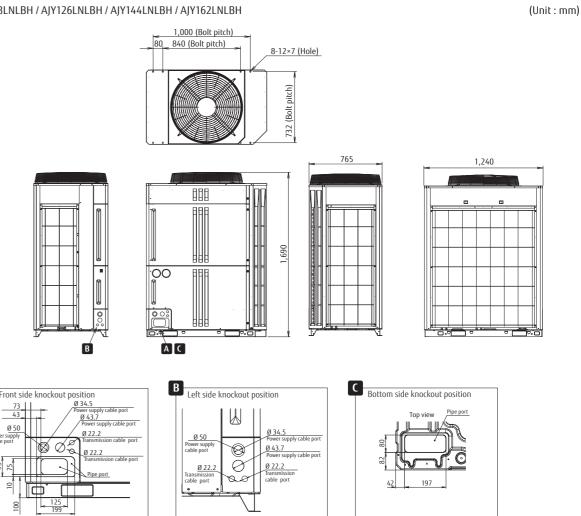


### Dimensions

8,10HP: AJY072LNLBH / AJY090LNLBH



**12,14,16,18HP**: AJY108LNLBH / AJY126LNLBH / AJY144LNLBH / AJY162LNLBH





# **Space Saving Combinations**

Rating Capacity	range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Model name				AJY072LNLBI	I AJY090LNLBH	AJY108LNLBH	I AJY126LNLBI	H AJY144LNLBH	H AJY162LNLBH	AJY180LNLBH	AJY198LNLBH	AJY216LNLBH	AJY234LNLBH	AJY252LNLBH	AJY270LNLBH	AJY288LNLBH	AJY306LNLBH	AJY324LNLBH	AJY342LNLBH	AJY360LNLBH	AJY378LNLBH	AJY396LNLBH	AJY414LNLBH	AJY432LNLBH	AJY450LNLBH	AJY468LNLBH	AJY486LNLBH
Unit 1				AIY072LNLBH	AIY090LNLBH	AIY108LNLBH	AIY126LNLBH	H AIY144LNLBH	H AIY162LNLBH	AIY090LNLBH	AIY126LNLBH	AIY126LNLBH	AIY144LNLBH	AIY162LNLBH	AIY144LNLBH	AIY144LNLBH	AIY162LNLBH	AJY162LNLBH	AIY162LNLBH	AIY144LNLBH	AIY144LNLBH	AIY162LNLBH	AJY162LNLBH	AIY144LNLBH	AIY162LNLBH	AJY162LNLBH	AIY162LNLBH
Unit 2				-	1	'	-	'	-	AJY090LNLBH	AJY072LNLBH	AJY090LNLBH	AJY090LNLBH	AJY090LNLBH	AJY126LNLBH	AJY144LNLBH	AJY144LNLBH	AJY162LNLBH	AJY090LNLBH	AJY126LNLBH	AJY144LNLBH	AJY144LNLBH	AJY162LNLBH	AJY144LNLBH	AJY144LNLBH	AJY162LNLBH	AJY162LNLBH
Unit 3																			AJY090LNLBH	AJY090LNLBH	AJY090LNLBH	AJY090LNLBH	AJY090LNLBH	AJY144LNLBH	AJY144LNLBH	AJY144LNLBH	AJY162LNLBH
Maximum Conn	ectable Indoo	or Unit		13	16	19	23	26	29	33	36	40	43	46	50	53	55	55	55	55	55	55	55	55	55	55	55
Indoor unit conne	ctable capacit	y 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	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
		, ,												<u> </u>				'									
Power source				22.4	20.0	22.5	100	- P	hase 4 wire, 400 \	1		50.0	72.0	70.0	05.0		05.0	4000	405.0		nase 4 wire, 400 V,		420.0	425.0	4/00	415.0	1500
		Cooling		22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	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
		Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0	50.0	-	-	-	-	-		-	-	-	-	- 425.5	-	-	-	-	-	-	-
	Capacity	Max Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5	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
		Cooling	Btu/h	76,400	95,500	114,300	136,500	153,500	170,600	191,000	212,900	232,000	249,000	266,100	290,000	307,000	324,100	341,200	361,600	385,500	402,500	419,600	436,700	460,500	477,600	494,700	511,800
-		Heating		85,300	107,500	128,000	153,500	170,600	170,600	215,000	238,800	261,000	278,100	278,100	324,100	341,200	341,200	341,200	385,600	431,600	448,700	448,700 36.85	448,700	511,800	511,800	511,800	511,800 49.68
		Cooling	kW	5.20 4.31	7.28 5.98	8.96 7.10	10.96 8.97	13.01	16.56	14.56	16.16	18.24	20.29	23.84	23.97	26.02	29.57	33.12	31.12	31.25	33.30	30.03	40.40	39.03	42.58	46.13	49.00
T1	Input power		KVV	5.17		8.65	11.17	13.63														2/.51		40.89			
condition		Max Heating		9.2	7.25	15.0	17.7	20.7	13.63	14.50	16.34	18.42	20.88	20.88	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
	Current	Cooling Heating	A	9.2	12.0	14.6	18.2	21.5	21.5	<del>-</del>	_	_	_	_		_	_	_	_	_	_	_	_	_	_		<del></del>
-	FFR	Cooling		4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	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
-	EEK	Nominal Heating	W/W	5.20	4.69	4.72	4.46	4.06	3.67	3.03	3.00	3./3	3.00	3.27	3.33	J.40 —	3.21	3.02	J.41 —	3.02	3.34	3.34	3.17	J.40 —	J.25 —	J.14 —	3.02
	COP	Max Heating	VV/ VV	4.84	4.35	4.72	4.40	3.67	3.67	4.34	4.28	4.15	3.90	3.90	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
-	FFR	Cooling		14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2	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
-	COP	Heating	Btu/h/W	16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3	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
	COP	пеанну	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4	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
	Capacity		Btu/h	68,900	86.000	97.200	109,200	119.800	120,100	172,000	178.100	195,200	205.800	206.100	229.000	239.600	239.900	240.200	292,100	315.000	325.600	325,900	326.200	359.400	359,700	360.000	360,300
T3	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	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
condition	Current	Cooling	A	10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-	-	-	-		-	-	- JZ.03		-	-	-	-	- 37.03
condiction		-	W/W	3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.80	2.98	2.97	2.91	2.85	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85
	EER		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	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
Power factor			%	90	92	92	92	92	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- ower ractor					1 32		-	-												13,700+13,000+							_
Air flow rate		High	m³/h	11,100	11,100	13,000	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,700+11,100	13,700+11,100	13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	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
Sound pressure	level*2 /	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	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
Power level		Heating	ub (A)	58 / 80	59 / 81	60 / 83	62 / 84	64/86	64/86	62 / 84	63 / 85	64/86	65 / 87	65 / 87	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
Maximum exter	nal static pre	ssure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor mo	tor 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	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
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	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
		Height		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	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
Dimensions		Width	mm	930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930	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
		Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight			kg	255	255	279	279	279	279	255×2	279+255	279+255	279+255	279+255	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
	Type (G	Ilobal Warming Po	tential)	R410A (2,088	R410A (2,088)	R410A (2,088)	R410A (2,088	B) 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)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant	(	Charge	kg(CO2eg-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	11.8+11.7	11.8+11.7	11.8+11.7	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	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
					1		1	+	1		(24.6+24.4)	(24.6+24.4)	(24.6+24.4)	(24.6+24.4)					(24.6+24.4×2)	(24.6×2+24.4)	(24.6×2+24.4)	(24.6×2+24.4)	(24.6×2+24.4)				<del></del>
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	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
		Discharge Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	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
Operation range	2	Cooling	*C	-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	-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
,		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	-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

# **Energy Efficiency Combinations**

Rating Capacit	ty range		HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
Model name				AJY144LNLBHH	AJY162LNLBHH	AJY180LNLBHH	AJY216LNLBHH	AJY234LNLBHH	AJY252LNLBHH	AJY270LNLBHH	AJY288LNLBHH	AJY306LNLBHH	AJY324LNLBHH	AJY342LNLBHH	AJY360LNLBH	H AJY378LNLBHH	AJY396LNLBHH	AJY414LNLBHH
Unit 1				AIY072LNLBH	AIY090LNLBH	AIY108LNLBH	AIY072LNLBH	AJY090LNLBH	AIY108LNLBH	AIY126LNLBH	AIY108LNLBH	AJY126LNLBH	AIY108LNLBH	AIY126LNLBH	AJY126LNLBH	AIY126LNLBH	AIY144LNLBH	AJY144LNLBH
Unit 2				AJY072LNLBH								AJY108LNLBH		AJY108LNLBH	AJY126LNLBH		AJY126LNLBH	AJY144LNLBH
Unit 3				-	-	-	AJY072LNLBH	AJY072LNLBH	AJY072LNLBH	AJY072LNLBH	AJY072LNLBH	AJY072LNLBH	AJY108LNLBH	AJY108LNLBH	AJY108LNLBH	AJY126LNLBH	AJY126LNLBH	AJY126LNLBH
Maximum Con	nectable Indoo	r Unit		26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit conn	nectable 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	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
																2 1		
Power source					50.4	55.0	67.0		se 4 wire, 400 V		00.1	05.0	400 5	407.0	443.5		re, 400 V, 50Hz	1300
		Cooling		44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
		Nominal Heating	kW	 50.0	- 56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0		135.0	140.0	145.0
	Capacity	Max Heating			171,900			248,300				327,200				409,500		443,500
		Cooling	Btu/h	152,800		190,700	229,200 255,900		267,100	289,300	305,000	366.800	342,900	365,100 409.500	387,300	409,500	426,500	494,700
		Heating Cooling		170,600 10.40	192,800 12.48	213,300 14.16	15.60	278,100 17.68	298,600 19.36	324,100 21.36	341,300 23.12	25.12	384,000 26.88	28.88	435,000 30.88	32.88	477,600 34.93	36.98
		Nominal Heating	kW	10.40	12.46	14.10	15.00	17.00	19.30	21.30	23.12	25.12	20.00	20.00	30.88	32.00	34.93	30.90
T1	Input power	Max Heating	KVV	10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
condition		Cooling		10.34	12.42	13.02	13.31	17.39	10.33	21.31	-	24.55	23.93	20.47	30.33	33.31	- 33.57	30.43
	Current	Heating	A		_	<del>-</del>			_	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>		_		+ -	_	<del></del>
	EER	Cooling		4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
		Nominal Heating	W/W	4.51	4.04	-	4.51	4.12	4.04	-	J.07	J.02	J./4 —	J.70 —	J.00	J.05	-	J.J2
	COP	Max Heating	**/**	4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
	EER	Cooling		14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
	COP	Heating	Btu/h/W	16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
	COF	rieating	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	80.7	85.5	89.0	92.5	96.0	99.1	102.2
	Capacity		Btu/h	137.800	154,900	166.100	206,700	223.800	235,000	247,000	263,300	275,300	291,600	303.600	315,600	327.600	338,200	348,800
T3	Input power	-	kW	137,600	15.93	16.08	20.20	22,66	22.81	24.17	25.42	26.78	28.03	29.39	30.75	32.11	33.22	34.34
condition	Current	Cooling	A	-	-	10.00	- 20.20		-		- 23.42	20.76	20.03	-	J0.73	JZ.11	-	J4.J4 —
condicion		-	W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	3.01	3.05	3.03	3.01	2.99	2.98	2.98
	EER		Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	10.28	10.40	10.33	10.26	10.20	10.18	10.16
Power factor			%	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-
									13,000+	13.000+	13,000×2+	13,000×2+						
Air flow rate		High	m³/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×2	11,100×2	11,100	11,100	13,000×3	13,000×3	13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000
Sound pressure	e level*2 /	Cooling		59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84	61 / 82	63 / 84	62 / 83	63 / 84	64/85	65 / 88	66 / 87	66 / 87
Power level		Heating	dB (A)	61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64/86	65 / 87	64/87	65 / 88	65 / 88	66 / 88	66 / 88	67 / 89	68 / 90	68/90
	ernal static pres	3	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor me		Juic	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	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
Heat exchange		l		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	Blue fin	Blue fin
		Height		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	1.690	1.690
Dimensions		Width	mm	930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2	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
		Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight			ka	255×2	255×2	279+255	255×3	255×3	279+255×2	279+255×2	279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3	279×3
	Type (GI	obal Warming Po	tential)	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)
Refrigerant	CI	narge	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)	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)
	·	Liquid		12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
Connection pip	pe diameter	Discharge Gas	mm	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
		Cooling		-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	-5 to 52	-5 to 52
Operation rang	ge	Heating	*C	-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	-20 to 21	-20 to 21
												,			201021			

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.



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

The AIRSTAGE™ indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain. Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user's perspective.

# **INDOOR UNITS LINE-UP**

3D Flow Cassette
Compact Cassette (Grid type / Standard type)
Circular Flow Cassette
Mini Duct
Slim Duct / Slim Concealed Floor
Medium Static Pressure Duct
High Static Pressure Duct
Large Airflow Duct
Compact Floor
Floor / Ceiling
Ceiling
Wall Mounted (EEV Internal / external)

# **INDOOR UNITS LINE-UP**

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs. 14 types, 90 models, Capacity range from 1.1kW to 28.0kW

# Indoor units range

Model code		4	7	9	12	14	18	24	30	34	36	45	54	60	72	90	96
Capacity range	(kW)	1.1	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
	3D Flow Cassette NEW						AUXS018GLEH	AUXS024GLEH									
Cassette	Compact Cassette Grid type / Standard type	AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH									
	(Slim type)			AUXN009GLAH*4	AUXN012GLAH*4	AUXN014GLAH*4	AUXM018GLEH	AUXM024GLEH	AUXM030GLEH								
	(Large type)						AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH				
	Mini Duct (With drain pump)	ARXK004GLEH	ARXK007GLEH	ARXK009GLEH	ARXK012GLEH	ARXK014GLEH	ARXK018GLEH	ARXK024GLEH									
	Slim Duct (With drain pump)	ARXD04GALH*3	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH									
Duct	Medium Static Pressure Duct							ARXA024GLEH	ARXA030GLEH		ARXA036GLEH	ARXA045GLEH					
Duct	High Static Pressure Duct										ARXC036GTEH	ARXC45GATH		ARXC60GATH*1	ARXC072GTEH*1	ARXC090GTEH*1	ARXC096GTEH*1
	(Compact type)  Large Airflow Duct			ARXN009GLBH* <sup>4</sup>	ARXN012GLBH*4	ARXN014GLBH*4	ARXN018GLBH	ARXN024GTBH	ARXN030GTBH								
	(Large type)						ARXN18GATH*2	ARXN24GATH* <sup>2</sup>	ARXN30GATH*2	ARXN34GATH*2	ARXN36GATH*2	ARXN45GATH*2					
	Floor (Same as Ceiling models)				ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH									
Floor	Slim Concealed Floor (Same as Slim Duct models)	ARXD04GALH*3	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH									
	Compact Floor	AGYA004GCEH	AGYA007GCEH	AGYA009GCEH	AGYA012GCEH	AGYA014GCEH											
	Compact Floor (EEV external)	AGYE004GCEH	AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH	With this model, connection of EV kit is necessary.										
Ceiling	Ceiling				ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH	ABYA030GTEH		ABYA036GTEH	ABYA045GTEH	ABYA054GTEH				
Wall Mounted	Wall Mounted	ASYA004GTEH	ASYA007GTEH	ASYA009GTEH	ASYA012GCEH	ASYA014GCEH	ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH							
Tan Mounted	Wall Mounted (EEV external)	ASYE004GTEH	ASYE007GTEH	ASYE009GTEH	ASYE012GCEH	ASYE014GCEH	With this model, connection of EV kit is necessary.										

<sup>\*1:</sup> ARXC60/072/090/096G cannot be connected to J-IIS series and J-III series.

\*2: Large airflow duct (Large type ARXN\*\*GATH) type can be connected to VR-II / V-III series only.

\*3: ARXD04GALH cannot be connected to J-IIIL series.

\*4: AUXN009/012/014GLAH and ARXN009/012/014GLBH can be connected to J-IIS series and J-III series only. Specifications and design are subject to change without notice.



# 3D Flow Cassette

Models **AUXS018GLEH** 

**AUXS024GLEH** 





# **Feature**

# 3 Air Outlet Ports can be controlled individually

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

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

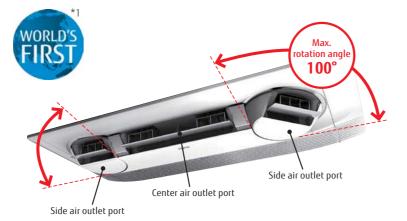


When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40m2 environmental our test room for the AUXS024GLEH



# Heating

When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air the AUXS024GLEH



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

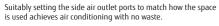
# Individual airflow setting

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











for improved comfort is achieved even for long



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

# Individual airflow setting

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



# Optional parts

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

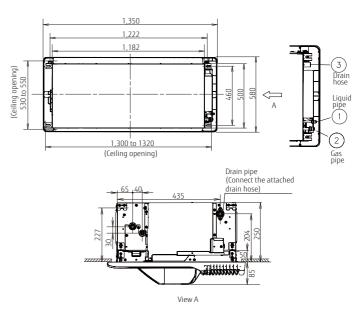


# **Specifications**

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single - phase, ~230	/, 50Hz
Capacity	Cooling	kW	5.60	7.10
Capacity	Heating	KVV	6.30	8.00
Input power		W	20/28	34 / 43
	High		750 / 870	950 / 1,040
	Med-H		710 / 830	890 / 990
Airflow rate*	Med	m³/h	690 / 780	860 / 930
Airriow rate"	Med-L	m>/n	660 / 740	810 / 880
	Low		630 / 700	770 / 840
	Quiet		540 / 540	540 / 540
	High		38 / 41	43 / 46
	Med-H		36 / 40	42 / 45
Sound pressure	Med	dB	35 / 39	41 / 43
leve*	Med-L	(A)	35 / 37	40 / 42
	Low		33 / 36	38 / 40
	Quiet		29 / 29	29 / 29
Dimensions (H ×	W × D)	mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg	25 (55)	25 (55)
Connection	Liquid (Flare)		6.35	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88
Drain hose diam	eter (I.D./O.D.)		25 / 32	
-	Model nar	me	UTG-USYA-W	
Cassette Grille	Dimensions (H×W×D)	mm	85 × 1,350 × 58	0
	Weight	kg	11.5 (25)	
Note · Specificat	ions are hased o	n the fol	lowing conditions. *: This value is "cooling"	g operation / heating operation".
oce . Specificat	.os o.c basea o	101	. 1113 value 13 Coolini	g operation , meaning operation .

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

# Dimensions (Unit: mm)



# Compact Cassette (Grid type)

# Models

**AUXB004GLEH AUXB007GLEH** AUXB009GLEH **AUXB012GLEH AUXB014GLEH AUXB018GLEH AUXB024GLEH** 

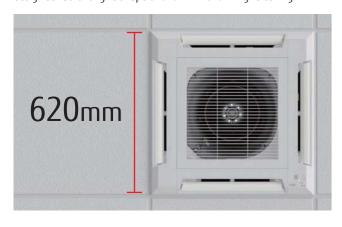




### **Feature**

# Compact and stylish panel design

Compact and stylish panel design fits the grid type ceiling. It is a linear design suitable for grid shape of  $620\text{mm} \times 620\text{mm}$  grid ceiling.

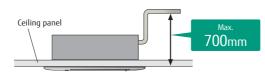


# Flexible installation

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



# Flexible installation



# 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.





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







# High ceiling mode

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

Model code	The maximum height f	rom floor to ceiling (m)
Model code	Standard mode	High ceiling mode
004	2.7	-
007	2.7	-
009	2.7	-
012	2.7	3.0
014	2.7	3.0
018	2.7	3.0
024	2.7	3.0

# **Optional parts**

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

Casette Grille: UTG-UFYC-W, UTG-UFYE-W

External Power Supply Unit: UTZ-GXXA



# **Specifications**

Model name			AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH
Power source					Sir	ngle - phase, ~230V, 50	Hz		
Canadibu	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	Heating	KVV	1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	23	25	25	29	35	36	84
	High		530/530	540	550	600	680	710	1,030
	Med-H		490/480	500	520	560	620	660	910
Airflow rate	Med	m³/h	450/430	460	480	520	560	590	790
Airriow rate	Med-L	m>/n	420/380	420	440	480	500	520	680
	Low		390/340	390	400	430	440	460	560
	Quiet		350/300	350	350	390	390	400	450
	High		34/34	34	35	37	38	41	50
	Med-H		32/31	32	33	34	37	39	46
Sound pressure	Med	dB	30/29	30	31	33	34	36	43
level .	Med-L	(A)	28/26	28	29	31	32	33	39
	Low		27/24	27	27	29	30	30	35
	Quiet		25/21	25	25	27	27	27	30
Dimensions (H ×	W × D)	mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg	15	15	15	15	15	17	17
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diam	eter (I.D./O.D.)					25/32			
	Model nar	ne			U	TG-UFYE-W / UTG-UFYC	W		
Cassette Grille	Dimensions (H×W×D)	mm			49 ×	620 × 620 / 49 × 700 ×	700		
	Weight	kg				2.3 / 2.6			

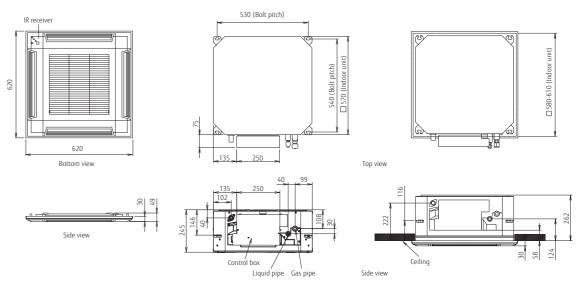
Note: Specifications are based on the following conditions.

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

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

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

# Dimensions (Unit: mm)



# Circular Flow Cassette

Models (Large type) Models (Slim type) **AUXK018GLEH AUXN009GLAH AUXN012GLAH AUXK024GLEH AUXN014GLAH AUXK030GLEH** AUXM018GLEH **AUXK034GLEH** AUXM024GLEH **AUXK036GLEH** AUXM030GLEH **AUXK045GLEH AUXK054GLEH** 





Feature

# **Unique Circular Flow design**

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



# Uniform temperature air conditioning

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





# Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts. \* Touch Panel Wired RC

(UTY-RNRYZ3) only



Comfortable air conditioning by preventing direct blowing of cold air and by providing



# Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected. \*Touch Panel Wired RC (UTY-RNRYZ3) only



2 modes can be selected Auto saving Power is saved while people are away. Auto OFF Operation stops after

people go out.

# **Optional parts**

Human Sensor Kit: UTY-SHZXC Wide Panel: UTG-AKXA-W Panel Spacer: UTG-BKXA-W Fresh Air Intake Kit: UTZ-VXRA Air Outlet Shutter Plate: UTR-YDZK Insulation Kit for High Humidity: UTZ-KXRA UTG-UKYC-W, UTG-UKYA-B Casette Grille:

External Power Supply Unit: UTZ-GXXA



# **Specifications**

Model name			AUXN009 GLAH	AUXN012 GLAH	AUXN014 GLAH	AUXM018 GLEH	AUXM024 GLEH	AUXM030 GLEH	AUXK018 GLEH	AUXK024 GLEH	AUXK030 GLEH	AUXK034 GLEH	AUXK036 GLEH	AUXK045 GLEH	AUXK054 GLEH
Power source								Single -	phase, ~230	)V, 50Hz					
Connection	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9.0	5.6	7.1	9.0	10.0	11.2	12.5	14.0
Capacity	Heating	KVV	3.2	4.0	5.0	6.3	8.0	10.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	20	20	20	20	25	49	40	40	47	47	61	89	116
	High		1,050	1,050	1,050	1,050	1,120	1,470	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-Hi		930	930	930	930	1,050	1,160	1,360	1,360	1,440	1,440	1,500	1,590	1,800
A: (1 .	Med	2.0	900	900	900	900	930	1,070	1,300	1,300	1,340	1,340	1,400	1,500	1,590
Airflow rate	Lo-Hi	m³/h	870	870	870	870	900	930	1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		810	810	810	810	870	900	1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		780	780	780	780	780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150
	High		33	33	33	33	35	40	38	38	39	39	41	44	47
	Med-Hi		32	32	32	32	33	36	37	37	38	38	40	42	45
Sound pressure	Med	dB	31	31	31	31	32	34	36	36	37	37	38	40	42
level	Lo-Hi	(A)	30	30	30	30	31	32	35	35	36	36	37	38	39
	Low		29	29	29	29	30	31	34	34	35	35	36	36	36
	Quiet		28	28	28	28	28	28	33	33	33	33	33	33	33
Dimensions (H ×	W × D)	mm						2	46×840×84	0					
Weight		kg	24.5	24.5	24.5	24.0	24.5	24.5	26.5	26.5	29.5	29.5	29.5	29.5	29.5
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	9.52	9.52	6.35	9.52	9.52	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70	15.88	15.88	12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diam	eter (I.D./O.D.)								25 / 32						
	Model nar	me						UTG-UK	YC-W / UTG-	UKYA-B					
Cassette Grille	Dimensions (H×W×D)	mm							53×950×950	)					
	Weight	kg							6.0						

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 70°CDB / 6°CWB.

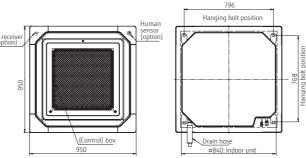
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

When AUX\*018GLEH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Lig/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit

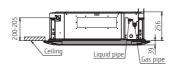
other than J-IIIL, gas pipe diameter should be Ø19.05.

# Dimensions (Unit: mm)

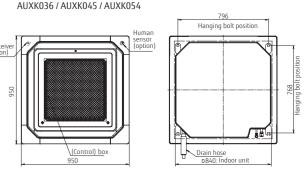
Models: AUXN009 / AUXN012 / AUXN014 AUXM018 / AUXM024 / AUXM030

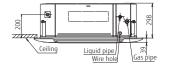






### Models: AUXK018 / AUXK024 / AUXK030 / AUXK034 AUXK036 / AUXK045 / AUXK054





# Mini Duct

Models (With drain pump)

ARXK004GLEH

ARXK007GLEH

ARXK009GLEH

ARXK012GLEH

ARXK014GLEH ARXK018GLEH

ARXK024GLEH







ARXK024

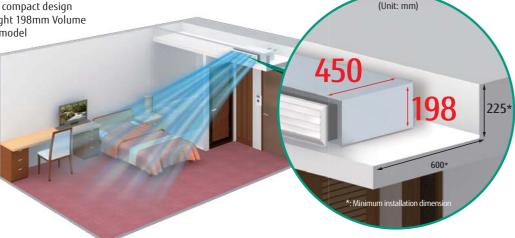
# Feature

# Large living space available

• Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design

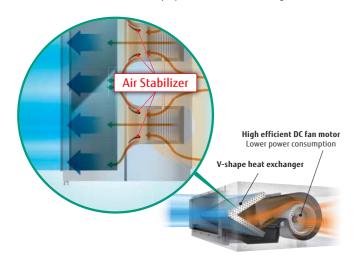
• Minimum size: Depth 450mm, Height 198mm Volume 30% down compared with current model

• Lightweight: 16kg 10%down



# Optimum airflow path and low noise operation

Low noise is realized drastically by stabilized airflow design



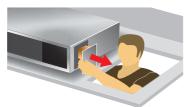
# Easy design and maintenance for drain

By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa\*.

The change of static pressure range is possible by remote controller. \*: 0 to 30 Pa. (004-012 models)

# Built-in drain pump as standard:

Maintenance is easy



Parts can be replaced from the side of the body where maintenance is easier

# 6-speed control\*

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



at 04 model



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

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

- Thin design provides a comfortable living environment over a wide area.
- Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well. (Optional)



# **Optional parts**

Remote Sensor Unit: UTY-XSZX IR Receiver Unit: UTB-YWC

UTD-GXTA-W (for ARXK004/007/009/012/014) Auto Louver Grille Kit:

UTD-GXTB-W (for ARXK018)

UTD-GXTC-W (for ARXK024)

External Power Supply Unit: UTZ-GXXA

# **Specifications**

Model name			ARXK004GLEH	ARXK007GLEH	ARXK009GLEH	ARXK012GLEH	ARXK014GLEH	ARXK018GLEH	ARXK024GLEH
Power source					Sir	ngle - phase, ~230V, 50	Hz		
Canacibu	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	26	28	28	35	66	73	80
	High		460	460	460	550	760	930	1,160
	Med-H		440	-	-	-	-	-	-
Airflow rate	Med	m³/h	420	420	420	480	560	740	960
Allilow rate	Med-L	1112/11	400	-	-	-	-	-	-
	Low	]	370	370	370	410	410	540	750
	Quiet	]	340	-	-	-	-	-	-
Static pressure ra	ange	Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static p	ressure	Pa	10	10	10	10	15	15	15
	High		25	26	26	29	34	33	32
	Med-H		24	25	25	27	31	30	30
Sound pressure	Med	dB	23	24	24	26	28	28	28
level	Med-L	(A)	22	23	23	25	26	26	27
	Low		21	22	22	24	24	24	25
	Quiet		20	21	21	22	22	22	22
Dimensions (H ×	W × D)	mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight		kg	14.5	15.5	15.5	16	16	19	22.5
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diam	eter (I.D./O.D.)					25 / 32			

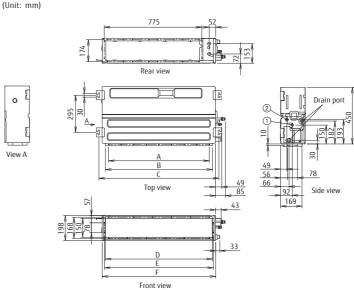
Note: Specifications are based on the following conditions.

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].

Dimensions (Unit: mm)

(Drain hose)



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

	ARXK004-014	ARXK018	ARXK024
Α	P100×6=600	P100×8=800	P100×10=1000
В	650	850	1050
C	752	952	1152
D	650	850	1050
Ε	665	864	1064
F	700	900	1100

# Slim Duct / Slim Concealed Floor

Models (With drain pump)

ARXD04GALH

ARXD007GLEH

ARXD009GLEH

ARXD012GLEH

ARXD014GLEH

ARXD018GLEH

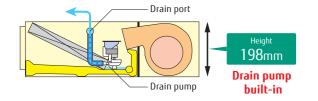
ARXD024GLEH



### **Feature**

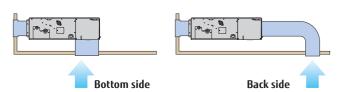
# Slim design

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.



# Flexible installation

Ceiling concealed











Slim Concealed Floor





# 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.

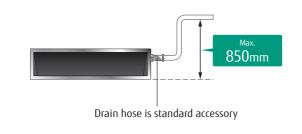


Static pressure range

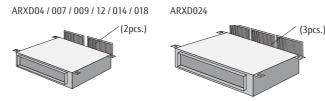
O to 90 Pa

\*024 model is 0 to 50Pa

# High lift drain pump

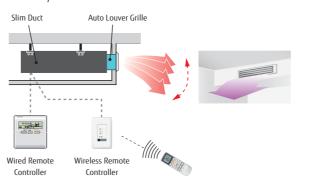


# Filter (Accessory)



# Auto Louver Grille Kit (Option)

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



# Optional parts

Remote Sensor Unit: UTY-XSZX IR Receiver Unit: UTB-YWC

Auto Louver Grille Kit: UTD-GXTA-W (for ARXD04/007/009/012/014)

UTD-GXTB-W (for ARXD018) UTD-GXTC-W (for ARXD024)

External Power Supply Unit: UTZ-GXXA

# **Specifications**

Model name			ARXD04GALH	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source					Sir	ngle - phase, ~230V, 50	Hz		
Caracita	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	Heating	KW	1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	38	44	50	54	92	83	122
	High		510	550	600	600	800	940	1,330
	Med-H		-	480	510	530	680	820	1,140
Airflow rate	Med	m³/h	400/470*1	440	460	490	600	730	1,020
Allilowiate	Med-L	1112/11	-	410	420	450	520	630	900
	Low		320/440*1	370	370	410	440	540	780
	Quiet		-	320	320	340	340	470	610
Static pressure ra	ange	Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static p	ressure	Pd	25	25	25	25	25	25	25
	High		26	28	29	30	34	34	35
	Med-H		-	26	27	28	32	31	31
Sound pressure	Med	dB	21/25*1	25	25	27	30	29	29
level	Med-L	(A)	-	24	24	26	28	27	27
	Low		20/22*1	22	22	24	25	25	24
	Quiet		-	21	21	22	22	23	21
Dimensions (H ×	W × D)	mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg	17	17	17	18	18	22	26
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52
pipe diameter	Gas (Flare)	mm	12.70	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diam	eter (I.D./O.D.)			·	·	25 / 32			

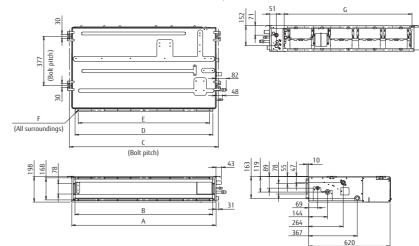
 $\label{thm:conditions} \mbox{Note: Specifications are based on the following conditions.}$ 

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

# Dimensions (Unit: mm)

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

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



	ARXD04-014	ARXD018	ARXD024
Α	700	900	1100
В	650	850	1050
С	734	934	1134
D	650	850	1050
Е	P100x6=600	P100x8=800	P100x10=1000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

<sup>\*1:</sup> This value is under cooling operation.

# Medium Static Pressure Duct

# Models

ARXA024GLEH ARXA030GLEH ARXA036GLEH ARXA045GLEH

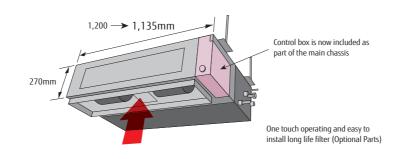




### Feature

# Slim & Compact design

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



# Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.





030 / 036 / 045 model

# Can be installed for various location

It can be installed in such locations as high-rise condominiums by low static pressure design.



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



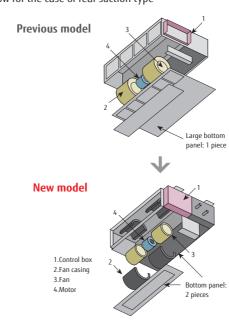
# Selectable with a wide range of static pressure

It is possible to change of static pressure range 0 to 150Pa.



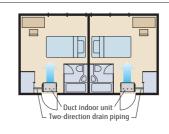
# Easy maintenance

See below for the case of rear suction type



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.

# Two-direction drain piping



# Easy setting by using remote controller

The change of static pressure range is possible by remote controller

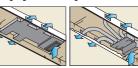


# **Installation styles**

### Embedded in Ceiling



# Hanging from Ceiling



# **Optional parts**

Remote Sensor Unit: UTY-XSZX Flange (Round): UTD-RF204 Long Life Filter: UTD-LF25NA Flange (Square): UTD-SF045T

IR Receiver Unit: UTB-YWC Drain Pump Unit : UTZ-PX1NBA

External Power Supply Unit: UTZ-GXXA

### **Specifications**

Model name			ARXA024GLEH	ARXA030GLEH	ARXA036GLEH	ARXA045GLEH
Power source			,	Single - phase	e, ~230V, 50Hz	
Caaasibu	Cooling	kW	7.1	9.0	11.2	12.5
Capacity	Heating	KVV	8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
	High		1,280	1,410	1,840	1,970
	Med-H		1,180	1,350	1,750	1,910
Airflow rate Med	Med	m³/h	1,090	1,280	1,660	1,860
Allilow rate	Med-L		1,000	1,240	1,600	1,780
	Low		920	1,190	1,530	1,710
	Quiet		840	1,150	1,470	1,640
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static p	ressure	ra	40	50	50	60
	High		31	34	37	41
	Med-H		29	33	36	40
Sound pressure	Med	dB	27	32	35	38
level .	Med-L	(A)	26	31	35	38
	Low		24	30	34	37
	Quiet		23	29	33	36
Dimensions (H ×	W × D)	mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg	36	40	40	40
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	15.88	15.88	15.88	15.88
Drain hose diam	eter (I.D./O.D.)			25	/ 32	

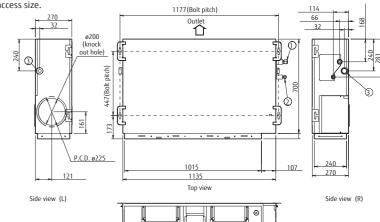
Note: Specifications are based on the following conditions.

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].

# **Dimensions** (Unit: mm)

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

ø205 hole



- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas):

③ Drain piping connection (Drain pipe)

# **High Static Pressure Duct**

Models ARXC036GTEH

ARXC45GATH ARXC60GATH Models

Models

ARXC096GTEH

ARXC072GTEH ARXC090GTEH



ARXC036 ARXC45 ARXC60



ARXC072 ARXC090

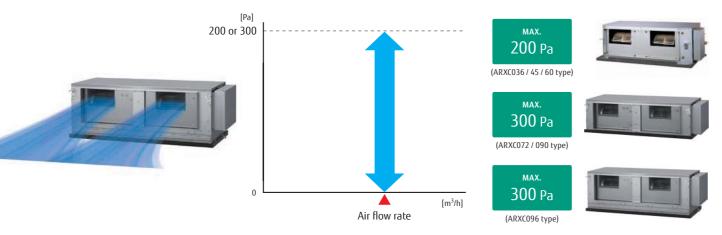


ARXC096

# Feature

# Static pressure selection

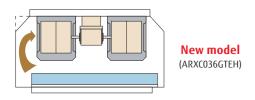
By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036) / 300Pa (ARXC072 / 090 / 096).



# Low noise

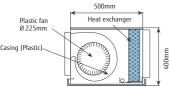
### Models: ARXC036 / ARXC45 / ARXC60

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



# ARXC036GTEH: Plastic fan [42dB(A)]

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



# Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.





(ARXC036 type)

(ARXC072 / 090 / 096 type)

# Easy installation (Compact size & Lightweight)

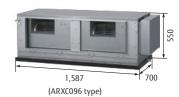
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.



(ARXC036 / 45 / 60 type)



(ARXC072 / 090 type)



(Unit:mm)

# **Optional parts**

Long-Life Filter: UTD-LF60KA (For ARXC036 / 45 / 60)

IR Receiver Unit: UTB-YWC
Remote Sensor Unit: UTY-XSZX
External Power Supply Unit: UTZ-GXXA

# **Specifications**

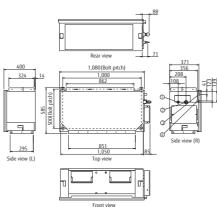
Model name			ARXC036GTEH	ARXC45GATH	ARXC60GATH*	ARXC072GTEH*	ARXC090GTEH*	ARXC096GTEH*
Power source					Single - phase	e, ~230V, 50Hz		
Caracita	Cooling	kW	11.2	12.5	18.0	22.4	25.0	28.0
Capacity	Heating	KVV	12.5	14.0	20.0	25.0	28.0	31.5
Input power		W	207	715	730	681	819	838
	High		1,990	3,000	3,350	3,900	4,300	4,850
	Med-H		1,810	-	-	3,600	4,150	4,550
Airflow rate	Med	m³/h	1,680	2,700	2,850	3,300	4,000	4,250
Allilowiate	Med-L	1112/11	1,500	=	-	3,150	3,750	3,920
	Low		1,330	2,300	2,550	3,000	3,500	3,600
	Quiet		1,160	=	-	2,850	3,250	3,280
Static pressure range		n-	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static p	ressure	Pa	100	100	100	150	150	150
	High		42	47	48	47	48	48
	Med-H		39	=	-	45	47	46
Sound pressure	Med	dB	36	43	44	43	46	45
level	Med-L	(A)	34	=	-	41	45	43
	Low		32	40	41	40	44	42
	Quiet		30	-	-	38	42	40
Dimensions (H ×	W × D)	mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg	40	46	46	84	84	105
Connection	Liquid		9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52(Flare)	9.52(Flare)	9.52 (Brazing)
pipe diameter	Gas	mm	15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	19.05(Flare)	19.05(Flare)	22.22 (Brazing)
Drain hose diame	eter (I.D./O.D.)				25	/ 32		

Note: Specifications are based on the following conditions.

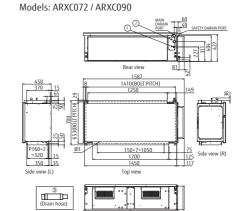
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

# **Dimensions** (Unit: mm)

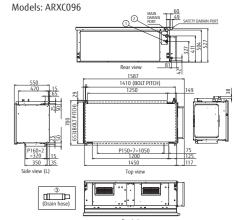
Models: ARXC036 / ARXC45 / ARXC60



- ${ ext{ }}{ ext{ }}{ ext{ }}{ ext{ }}{ ext{ Refrigerant piping flare connection (Liquid)}$
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection



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



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

<sup>\*:</sup> ARXC60/072/090/096G cannot be connected to J-III series.

# Large Airflow Duct (Compact type)

Models

ARXN012GLBH

ARXN014GLBH

Models

Models ARXN009GLBH ARXN018GLBH ARXN024GTBH ARXN030GTBH





ARXN009 ARXN012 ARXN014



ARXN024 ARXN030



# **Feature**

# Large airflow volume

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

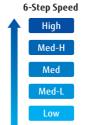


# Quiet operation

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









# Slim & Compact design

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



# Optional parts

IR receiver unit: UTB-YWC

UTD-LF25NA(For ARXN018GLBH), Long life filter: UTD-LFNA(For ARXN024/030GTBH)

UTD-SF045T(For ARXN018GLBH), Flange: UTD-RF204(For ARXN018GLBH) UTZ-PX1NBA(ARXN018GLBH) Drain pump unit:

Remote sensor unit: UTY-XSZX

Auto Louver Grille Kit: UTD-GXTC-W (for ARXN009/012/014GLBH)



# **Specifications**

Model name			ARXN009GLBH	ARXN012GLBH	ARXN014GLBH	ARXN018GLBH	ARXN024GTBH	ARXN030GTBH
Power source					Single - phase	e, ~230V, 50Hz		
Canasibu	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9.0
Capacity	Heating	KVV	3.2	4.0	5.0	6.3	8.0	10.0
Input power		W	88	122	122	173	180	273
	High		1,100	1,330	1,330	1,720	2,100	2,700
	Med-H		-	-	-	-	2,050	2,390
Airflow rate	Med	m³/h	1,010	1,240	1,240	1,470	1,860	2,080
Airriow rate	Med-L	m>/n	-	-	-	-	1,660	1,770
	Low		880	1,100	1,100	1,360	1,470	1,470
Quiet			-	-	-	-	1,260	1,260
Static pressure ra	ange	D-	0 to 50	0 to 50	0 to 50	0 to 80	0 to 100	0 to 100
Standard static p	ressure	Pa	25	25	25	50	50	50
	High		32	35	35	36	37	41
	Med-H		-	-	-	-	35	38
Sound pressure	Med	dB	30	32	32	33	33	34
level	Med-L	(A)	=	=	-	-	31	31
	Low		28	29	29	30	28	28
	Quiet		-	-	-	-	26	26
Dimensions (H ×	W × D)	mm	198 × 1,100 × 620	198 × 1,100 × 620	198 × 1,100 × 620	270 × 1,135 × 700	300 × 1,400 × 700	300 × 1,400 × 700
Weight		kg	26	26	26	40	48	48
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diame	eter (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  $^{\circ}$  CDB / (15  $^{\circ}$  CWB), and outdoor temperature of 7  $^{\circ}$  CDB / 6  $^{\circ}$  CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

# Dimensions (Unit: mm)

Models: ARXN009 / ARXN012 / ARXN014

Models: ARXN018

Outlet

Models: ARXN024 / ARXN030

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

① Refrigerant pipe flare connection (Liquid) 

③ Drain hose

# Large Airflow Duct (Large type)

# Models

ARXN18GATH ARXN24GATH ARXN30GATH ARXN34GATH ARXN36GATH ARXN45GATH





# Feature

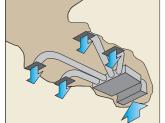
# Large airflow volume

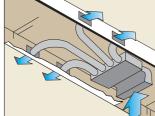
It can be installed in places such as early replacement of air required by large airflow volume.





# **Installation styles**





# Selectable with a wide range of static pressure



static pressure range 50 to 250 Pa

static pressure range 50 to 300 Pa

(30 / 34class)

(36 / 45class)

# Optional parts

Remote Sensor Unit: UTY-XSZX



# **Specifications**

Model name			ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH		
Power source			Single - phase, ~230V, 50Hz							
Connector	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5		
Capacity	Heating	KW	6.3	8.0	10.0	11.2	12.5	14.0		
Input power		W	154	205	306	432	572	572		
	High		2,280	2,640	3,200	3,720	4,120	4,120		
Airflow rate	Med	m3/h	-	-	-	-	-	-		
	Low		-	_	-	-	-	_		
Static pressure range		_	50 to 100	50 to 150	50 to 250	50 to 250	50 to 300	50 to 300		
Standard static p	ressure	Pa	50	50	50	50	60	60		
	High	_	35	37	40	43	45	45		
Sound pressure level	Med	dB (A)	-	-	-	-	-	-		
ievei	Low	(//)	-	-	-	-	-	-		
Dimensions (H ×	W × D)	mm	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700		
Weight		kg	84	84	84	84	84	84		
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52	9.52	9.52		
pipe diameter	Gas (Flare)	mm	15.88	15.88	15.88	15.88	19.05	19.05		
Drain hose diam	eter (I.D./O.D.)				25	/ 32				

Note: Specifications are based on the following conditions.

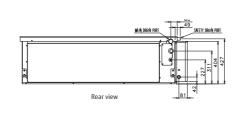
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

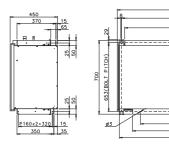
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

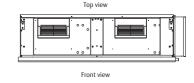
Large Airflow Duct (Large type) can be connected to VR-II / V-III series only.

# Dimensions (Unit: mm)









 ${\textstyle \frac{\wedge}{1}}$ 

Air Flow

# Compact floor

Models (EEV internal) Models (EEV external) AGYA004GCEH AGYE004GCEH AGYA007GCEH AGYE007GCEH AGYA009GCEH AGYE009GCEH AGYA012GCEH AGYE012GCEH AGYA014GCEH AGYE014GCEH

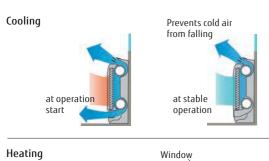


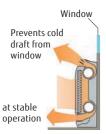


# **Feature**

# 2-Fan & Wide airflow

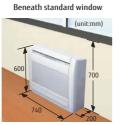
Individual vertical airflow by 2-fan can control the whole room comfortably.

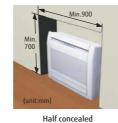


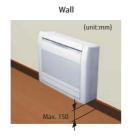


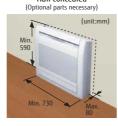
# Flexible & easy installation

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









# **Quiet operation**

Quiet operation is realized by 6 fan speed control. (via 2 wire controller)

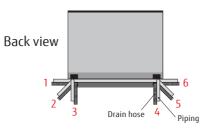




# UTY-RNRYZ3 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

# Flexible piping connection 6 direction of drain & piping

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



# Optional parts

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



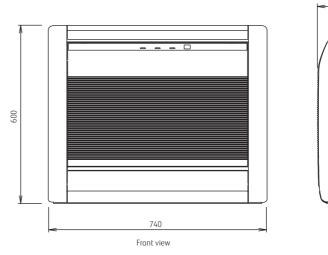
# **Specifications**

Model name			AGYA004GCEH	AGYA007GCEH	AGYA009GCEH	AGYA012GCEH	AGYA014GCEH	AGYE004GCEH	AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH	
Power source				Single - phase, ~230V, 50Hz									
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0	
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5	
Input power		W	12 / 14	16	17	22	29	12 / 14	16	17	22	29	
	High		380 / 430	470	500	590	670	380 / 430	470	500	590	670	
	Med-H		350	420	450	520	590	350	420	450	520	590	
Airflow rate	Med	m³/h	320	390	400	470	520	320	390	400	470	520	
All low rate	Med-L	1112/11	310	360	360	420	450	310	360	360	420	450	
	Low		280	330	330	390	390	280	330	330	390	390	
Quie	Quiet		210	270	270	340	340	210	270	270	340	340	
Hi	High		35 / 36	37	38	42	46	35 / 36	37	38	42	46	
	Med-H		33	35	36	39	42	33	35	36	39	42	
Sound pressure	Med	dB	31	33	34	37	39	31	33	34	37	39	
level	Med-L	(A)	30	31	31	35	36	30	31	31	35	36	
	Low		28	29	29	33	33	28	29	29	33	33	
	Quiet		22	22	22	30	30	22	22	22	30	30	
Dimensions (H ×	W × D)	mm	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	
Weight		kg	15	15	15	15	15	14.5	14.5	14.5	14.5	14.5	
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.5	12.70	12.70	
Drain hose diameter (I.D./O.D.)						13.8 / 15	.8 to 16.7						
EV Kit (option)			-	-	-	_	_	UTR-EV09XB	UTR-EV09XB	UTR-EV09XB	UTR-EV14XB	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]. When AGY\*004GCEH, AGY\*007GCEH, and AGY\*009GCEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

# Dimensions (Unit: mm)



Side view

# Floor / Ceiling

# Models

ABYA012GTEH ABYA014GTEH ABYA018GTEH ABYA024GTEH







# Feature

# Flexible installation

Example for floor installation

Floor console



# Example for ceiling installation

Under ceiling



# Double auto swing

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

RIGHT and LEFT SWING



UP and DOWN SWING



# High power DC fan motor

- High power
- Wide rotation range
- High efficiency



# Compact design

Symmetrical, slim and compact design.



# **Auto-closing louver**

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

# Super vane

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

# Optional parts

External Power Supply Unit: UTZ-GXXA

# **Specifications**

Model name			ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH
Power source			•	Single - pha	se, ~230V, 50Hz	
C	Cooling	kW	3.6	4.5	5.6	7.1
Capacity	Heating	kW	4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
	High		660	780	1,000	1,000
Med-H	Med-H		620	740	910	930
Airflow rate	Med	m³/h	580	690	830	870
Airriow rate	Med-L	m>/n	550	640	750	800
	Low		520	600	660	740
	Quiet		490	550	580	680
	High		36	40	46	47
	Med-H		34	39	44	45
Sound pressure	Med	dB	33	38	42	43
level .	Med-L	(A)	31	36	40	41
	Low		29	35	37	39
	Quiet		28	34	35	37
Dimensions (H ×	W × D)	mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg	25	26	26	27
Connection	Liquid (Flare)		6.35	6.35	6.35	9.52
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	15.88
Drain hose diam	eter (I.D./O.D.)			2	5 / 32	

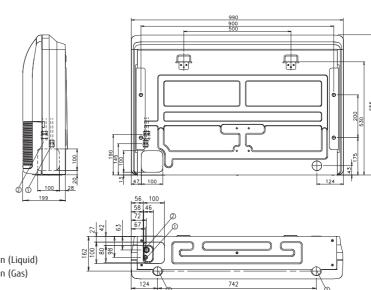
Note : Specifications are based on the following conditions.

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].

Dimensions (Unit: mm)



- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- $\ \, \textbf{ 3} \text{ Drain piping connection} \\$

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# Ceiling

# Models

ABYA030GTEH ABYA036GTEH ABYA045GTEH ABYA054GTEH



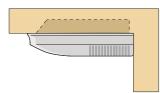


# Feature

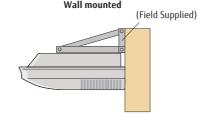
# Installation

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





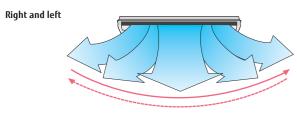
Installation pattern where part of the indoor unit is embedded into the ceiling.



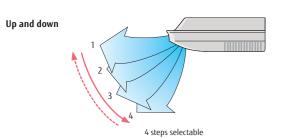
Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

# Double auto swing and wide airflow

Auto airflow direction and auto swing

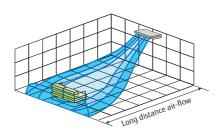


5 steps selectable



# Long airflow

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

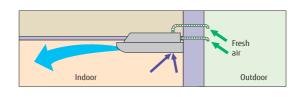


# High power DC fan motor

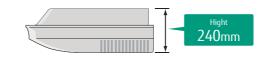
• High power • Wide rotation range • High efficiency



# Fresh air intake

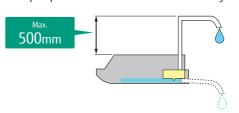


# Slim & Compact design



# High lift drain pump

Optional drain pump unit allows flexible installation design.



# Optional parts

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

# **Specifications**

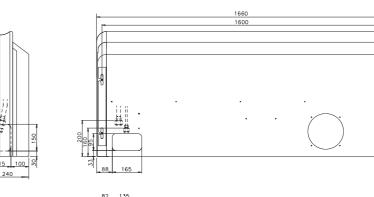
Model name			ABYA030GTEH	ABYA036GTEH	ABYA045GTEH	ABYA054GTEH
Power source				Single - pha	se, ~230V, 50Hz	
Cib.	Cooling	kW	9.0	11.2	12.5	14.0
Capacity	Heating	KVV	10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
	High		1,630	1,690	2,010	2,270
Med-H	Med-H		1,520	1,560	1,840	2,070
Airflow rate	Med	m³/h	1,420	1,450	1,690	1,860
Allilow rate	Med-L	1112/11	1,320	1,360	1,530	1,660
	Low	]	1,220	1,270	1,380	1,470
	Quiet		1,140	1,170	1,230	1,280
	High		42	45	48	51
	Med-H		40	41	46	49
Sound pressure	Med	dB	39	39	45	46
level	Med-L	(A)	37	38	41	43
	Low		35	36	38	40
	Quiet	1	33	34	35	36
Dimensions (H ×	W × D)	mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg	46	48	48	48
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	15.88	15.88	15.88	15.88
Drain hose diam	eter (I.D./O.D.)			2	5/32	

Note: Specifications are based on the following conditions.

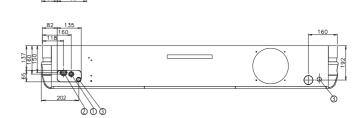
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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].

Dimensions (Unit: mm)



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



# Wall Mounted

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

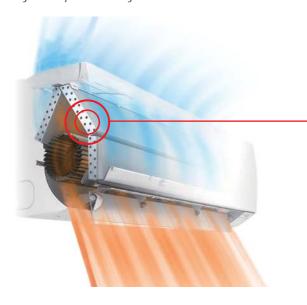




# **Feature**

# High efficient compact design

Ø5mm high density heat exchanger is mounted for the first time in the industry.



# High density heat exchanger



Making the tube thin:

 $7 \text{mm} \rightarrow 5 \text{mm}$ 

Increase of heat exchanger volume by high density and adopting sub heat exchanger

# 6 Fan Speed Control

to suit the environment.



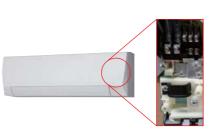




\* Compatible Remote Controller is as follows: UTY-RNRYZ3 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

# **Easy installation**

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



# Optimized design matches to a small room

Efficient operation and refrigerant saving are realized by optimum heat exchanger design suited for small rooms.



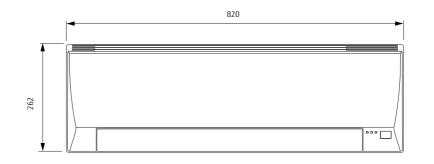
# **Specifications**

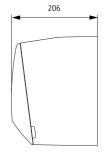
Model name			ASYA004GTEH	ASYA007GTEH	ASYA009GTEH	ASYE004GTEH	ASYE007GTEH	ASYE009GTEH			
Power source				Single - phase, ~230V, 50Hz							
Caaasiku	Cooling	kW	1.1	2.2	2.8	1.1	2.2	2.8			
Capacity	Heating	KVV	1.3	2.8	3.2	1.3	2.8	3.2			
Input power		W	13	19	34	13	19	34			
	High		430	550	720	430	550	720			
	Med-H		420	460	570	420	460	570			
Airflow rate	Med	m³/h	390	420	500	390	420	500			
AIIIIOW Iate	Med-L	1112/11	380	390	410	380	390	410			
	Low		360	360	360	360	360	360			
	Quiet		330	330	330	330	330	330			
	High		31	35	43	31	35	43			
	Med-H	]	30	32	38	30	32	38			
Sound pressure	Med	dB	28	30	34	28	30	34			
level	Med-L	(A)	26	27	29	26	27	29			
	Low	]	24	24	24	24	24	24			
	Quiet	1	22	22	22	22	22	22			
Dimensions (H ×	W × D)	mm	262×820×206	262×820×206	262×820×206	262×820×206	262×820×206	262×820×206			
Weight		kg	7.5	7.5	7.5	7	7	7.5			
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35			
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52			
Drain hose diam	eter (I.D./O.D.)	1			13.8 / 15	.8 to 16.7					
V Kit (option)			-		-	UTR-EV09XB	UTR-EV09XB	UTR-EV09XB			
	ione are based	on the fel	llowing conditions				/*000CTEH are connected to				

Note: Specifications are based on the following conditions.

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

# Dimensions (Unit: mm)





# **Wall Mounted**

Models (EEV internal) Models (EEV external) ASYA012GCEH ASYE012GCEH ASYA014GCEH ASYE014GCEH





# **Feature**

# High efficient compact design

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

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





# More comfort airflow

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

### Heating

Vertical airflow provides powerful floor level heating





# Cooling

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



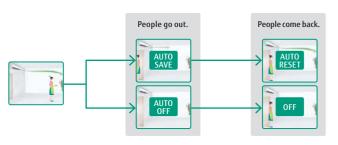


# **Human sensor increases** more energy saving

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



Human sensor



# 6 Fan Speed Control

Multistep airflow control is possible to suit the environment.



Low noise 24 dB(A)

# 6-Step Speed





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



# **Specifications**

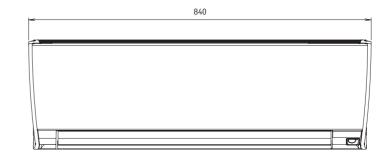
Model name			ASYA012GCEH	ASYA014GCEH	ASYE012GCEH	ASYE014GCEH
Power source				Single - phas	e, ~230V, 50Hz	
Canadibu	Cooling	kW	3.6	4.0	3.6	4.0
Capacity	Heating	KVV	4.0	4.5	4.0	4.5
Input power		W	25	36	25	36
	High		690	800	690	800
	Med-H		610	740	610	740
Airflow rate	Med	m³/h	560	680	560	680
Allilow rate	Med-L	1112/11	530	610	530	610
	Low		470	550	470	550
	Quiet		330	330	330	330
	High		40	44	40	44
	Med-H		37	42	37	42
Sound pressure	Med	dB	35	40	35	40
level	Med-L	(A)	33	37	33	37
	Low		30	34	30	34
	Quiet		24	24	24	24
Dimensions (H ×	W × D)	mm	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203
Weight		kg	8.5	8.5	8.5	8.5
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70
Drain hose diam	eter (I.D./O.D.)			13.8 / 15	i.8 to 16.7	
EV Kit (option)			-	=	UTR-EV14XB	UTR-EV14XB

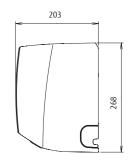
Note: Specifications are based on the following conditions.

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

Dimensions (Unit: mm)





# Wall Mounted

Models Models

ASYA18GBCH ASYA030GTEH ASYA24GBCH ASYA034GTEH



ASYA18 ASYA24

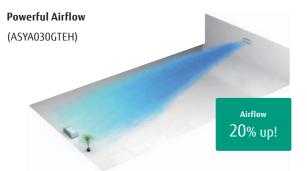


ASYA030 ASYA034

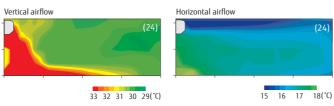


# Feature

# **Powerful & Comfort airflow**







# Human sensor (ASYA030/034GTEH only)

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

(Available to wired remote controller as UTY-RNRYZ3)



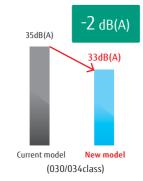






# Quiet operation & 6 Fan speed control

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







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



Model name			ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source				Single - phas	e, ~230V, 50Hz	
C	Cooling	kW	5.6	7.1	9.0	10.0
Capacity	Heating	KVV	6.3	8.0	10.0	11.2
Input power		W	32	60	74	103
	High		840	1,100	1,440	1,620 / 1,520
	Med-H		-	-	1,200	1,300
Airflow rate	Med	m³/h	770	910	1,050	1,120
Allilow late	Med-L	1112/11	-	-	940	980
	Low		690	730	890	890
	Quiet		-	-	700	700
	High		41	48	53	55 / 54
	Med-H		-	-	49	51
Sound pressure	Med	dB	39	43	45	47
level	Med-L	(A)	-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Dimensions (H ×	W × D)	mm	320 × 998 × 238	320 × 998 × 238	340 x 1,150 x 280	340 x 1,150 x 280
Weight		kg	15	15	18	18
Connection	Liquid (Flare)		6.35	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88	15.88	15.88
Drain hose diam	eter (I.D./O.D.)		12 /	16	13.8 / 15.	8 to 16.7

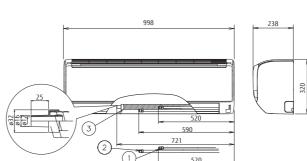
Note : Specifications are based on the following conditions.

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

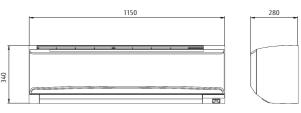
When ASYA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

# Dimensions (Unit: mm)

Models: ASYA18 / ASYA24







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



# Effective heat exchange and simultaneous fresh air ventilation

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

# **Energy Recovery Ventilator**

DX-Kit for air handling applications

# Energy Recovery Ventilator range

Airflow rate (m³/h)	250	350	500	800	1000
Model code	025	035	050	080	100
Energy Recovery Ventilator	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C

# **Energy Recovery Ventilator**

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











UTZ-BD100C

UTZ-BD080C

# Feature

# Heat exchange ventilation and normal ventilation

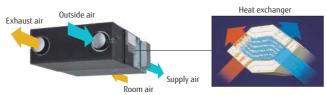
### Heat exchange ventilation

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

### Normal ventilation

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

# Adopts a highly efficient counter-flow heat exchange element



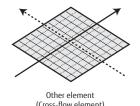
# Energy efficiency and ecology

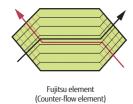
Energy consumption is dramatically reduced by using a counterflow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.



# 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.





# **Quiet operation**

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

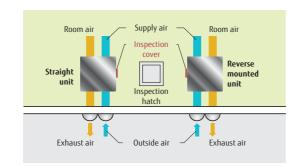
# Reverse mountable direct air supply / exhaust system

# 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.



# Slim shape and easier installation

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



# Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan

This allows for application in a wide variety building.

# Easy remote operation



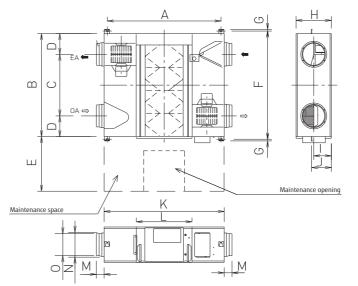
- POWER ON/OFF
- Air volume High/Low
- Heat exchange /Normal Ventilation
- ON/OFF Timer
- Clean filter display

### Specifications

Rated	flow rate			250 m <sup>3</sup> /h	350 m <sup>3</sup> /h	500 m <sup>3</sup> /h	800 m <sup>3</sup> /h	1000 m <sup>3</sup> /h			
Model	name			UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C			
Power	source			220 - 240V, 50Hz							
	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	1000 / 1000 / 700			
ğ z	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75			
HEAT EXCHANGE VENTILATION	Temperature Exchange Efficiency	Extra high / High / Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79			
HEAT	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 Heating	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			
NC	Input power	Extra high / High / Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311			
NORMAL VENTILATION	Air flow rate	Extra high / High / Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700			
ŠĘ	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75			
Z E	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			
Dimen	nsions (W × D × H)		mm	882 × 599 × 270	1050 × 804 × 317	1090 × 904 × 317	1322 × 884 × 388	1322 × 1134 × 388			
Weight kg			kg	29	49	57	71	83			
Outlet duct diameter mm			mm	150	150	200	250	250			
Operation range °C			°C	-10 to 40							
Maximum humidity %				85	85	85	85	85			

<sup>\*</sup> The noise level must be measured 1.5 m below the centre of the unit

# Dimensions (Unit: mm)



	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
Α	810	978	1018	1250	1250
В	599	804	904	884	1134
C	315	580	640	428	678
D	142	112	132	228	228
Ε	600	600	600	600	600
F	655	860	960	940	1190
G	19	19	19	19	19
Н	270	317	317	388	388
-1	135	159	159	194	194
J	159	182	182	218	218
K	882	1050	1090	1322	1322
L	414	470	470	612	612
M	95	70	70	85	85
N	Ø164	Ø164	Ø210	Ø258	Ø258
0	Ø144	Ø144	Ø194	Ø242	Ø242

# **DX-Kit** for air handling applications

Models
Control unit
UTY-VDGX

UTP-VX30A UTP-VX60A UTP-VX90A

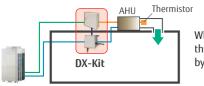
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).



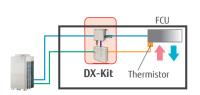


### Feature

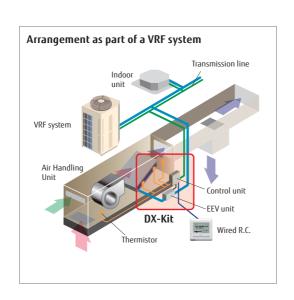
# Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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

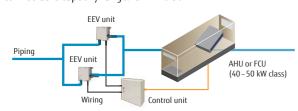


When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.



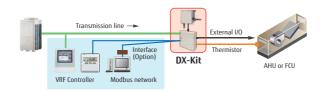
# Supports a wide range of capacity classes

- 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

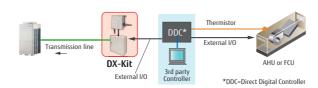


# A variety of controls to match the application

• Central control using our VRF controllers or central management controllers



• Central control from external controllers



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

# [For 2EEV units connection (option)]

• Separation Tube : UTP-LX180A



### Connectable capacity

• Single connection

DX-Kit

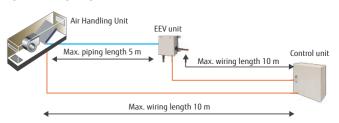
50% - 100% of outdoor unit capacity



Mixed connection

50% – 100% of outdoor unit capacity

# Piping and wiring length



# Specifications

EEV unit			UTP-VX30A			UTP-VX60A			UTP-\	/X90A	UTP-VX90A×2			
Power source		V/Ø/Hz		230/1/50										
Connectable cap	acity class	kW	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0		
Caracita	Cooling	Law	5.6 (5.1-5.9)	6.3 (6.0-7.1)	8 (7.2-9.0)	10 (9.1-11.1)	12.5 (11.2-13.2)	14 (13.3-18.0)	22.4 (18.1-23.7)	25 (23.8-28.0)	40 (28.1-44.7)	50.4 (44.8-50.4)		
Capacity	Heating	kW	6.3 (5.7-6.7)	7.1 (6.8-8.0)	9 (8.1-10.0)	11.2 (10.1-12.4)	14 (12.5-15.0)	16 (15.1-20.0)	25 (20.1-26.5)	28 (26.6-31.5)	45 (31.6-49.9)	56.5 (50.0-56.5)		
Airflow Rate(Ref	erence value)	m3/h	1,060	1,200	1,520	1,600	2,000	2,240	3,560	4,000	6,400	8,000		
Dimensions (H ×	W × D)	mm		160 × 220 × 90								(160 × 220 × 90)× 2		
Weight kg					2	2				2 × 2				
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	12.70	12.70	12.70	12.70		

Control unit		UTY-VDGX					
Power source	V/Ø/Hz	230/1/50					
Dimensions (H × W × D)	mm	400 × 400 × 120					
Weight	kg	10					

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].



# AIRSTAGE™ CONTROL SYSTEMS & OPTIONAL PARTS

# User friendly control system provides individual control

The AIRSTAGE™ control system can perform air conditioning control of individual room, centralized control by floor or by building, or centralized energy saving air conditioning control for large buildings. A variety of air conditioning management schemes are available to match the application, such as linking with the building control system, linking with a single split models, and using various interfaces.

# CONTROL SYSTEMS

Control System Overview Individual Controller Centralized Controller Convertor / Adaptor

# **OPTIONAL PARTS**

Optional Parts Overview
External Power Supply Unit
Auto Louver Grille Kit

CONTROL SYSTEM LIST
OPTIONAL PARTS LIST
CONTROL SYSTEM Lineup
OPTIONAL PARTS Lineup
FUNCTION LIST
SEPARATION TUBE etc.

# **BEST CONTROL SOLUTION FOR EACH PROPERTY**

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

<b>\</b> I		

Туре	Individual Control		Centraliz	ed Control		Into	egrating Control (Interfa	ace)
The state of the s	- X				-			
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor
E	UTY-RNRYZ3, UTY-RLRY	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						•	•	•

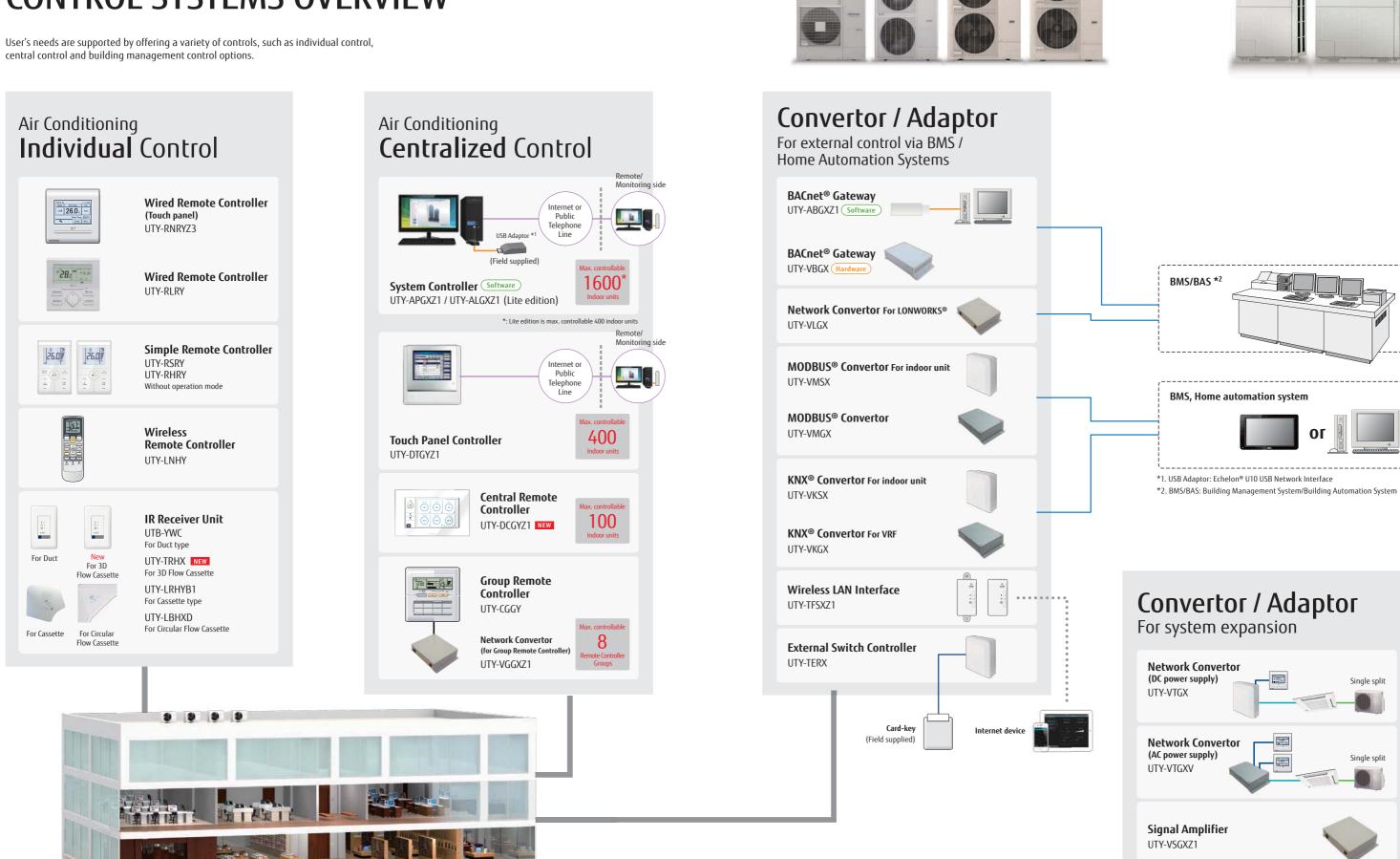
# HOTEL

Туре		Individual Control			Centralize	ed Control			Integra	ting Control (In	terface)	
State of the state		jad jad			8 00.0 2 00.0		-	<b>\Q</b>				
	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
66	UTY-RNRYZ3, UTY-RLRY	UTY-RSRY, UTY-RHRY	UTY-LNHY	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

Туре		Individual Control			Centralize	ed Control			Integra	ting Control (In	terface)	
4 2 10		kaf kaf			* 000		-	<b>\Q</b>				
THE PARTY OF THE P	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
Bit	UTY-RNRYZ3, UTY-RLRY	UTY-RSRY, UTY-RHRY	UTY-LNHY	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												•

# **CONTROL SYSTEMS OVERVIEW**



For Light Commercial

• J- Series

For Commercial

125

• V- Series

# **COMPARISON TABLE OF CONTROLLERS**

Item		W.	ļķi ofi	jësof L					-	-
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller* <sup>1</sup>	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite Software	System Controller Software
Model name	UTY-RNRYZ3	UTY-RLRY	UTY-RSRY	UTY-RHRY	UTY-LNHY	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups	1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units	16	16	16	16	16	128	100	400	400	1600
Max. controllable groups	-	-	-	-	-		50	400	400	1600
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	•	-	-	_	-	_	●*³	•	-	_
Group setting Group setting	-	-	-	-	-	_	•	•	•	•
RC prohibition	-	-	-	-	-	-	•	•	•	•
Anti freeze setting	•	-	-	_	-		•	•	•	•
Set temp. auto return	•	•	-	_	-		-	•	-	-
Economy mode setting	•	•	-	_	•	-	•	•	•	•
Human sensor control	•	-	-	_	-	-	-	•	•	•
Error	•	•	•	•	-	•	•	•	•	•
Defrosting	•	•	•	•	-	_	•	•	•	•
Current time	•	•	-	_	•	•	•	•	•	•
Day of week	•	•	-	_	_	•	•	•	•	•
R.C. prohibition	•	•	•	•	_	•	•	•	•	•
Address display	•	•	•	•	-	•	-	•	•	•
Room temp	•	-	•	•	-	=	•	•	-	=
Multi language	•	_	_	_	_	_	•	•	•	•
Summer time	•	_	-	_	-	-	•	•	•	•
Name registration	•	-	-	_	_	-	•	•	•	•
Backlight	•	-	•	•	-	=	•	•	-	=
2D floor layout / 3D building display	-	-	-	_	-	-	-	-	-	•
Refrigerant leakage detection function	-	-	-	_	-	-	•	•	•	•
Period	Week	Week	-	_	-	Week	Week	Year	Year	Year
Schedule timer On/off, Temp, Mode, Times per day	8	4	-	-	-	4	20	20	144	144
On/off timer	•	•	-	_	•	-	-	-	-	-
Sleep timer	=	=	_		•			-	_	=
Program timer	-	-	-	_	•	=	-	-	-	-
Auto off timer	•	•	-	_	-	-	•	•	-	-
Day off	•	•	-	_	-	-	•	•	•	•
Min. unit of timer setting (Minutes)	10 • 30	30	-	_	5	10	10	10	10	10
Status monitoring system	-	-	-	_	-	-	•	•	•	•
Electricity charge apportionment	-	-	-	_	-	-	-	0	0	•
Error history	•	•	-	_	-	•	•	•	•	•
Emergency stop	-	-	-	_	-	-	●* <sup>2</sup>	•* <sup>2</sup>	-	-
Remote management	-	-	-	_	-	=	•	•	0	•
Energy saving management	-	-	-	_	-	-		-	0	0
E-mail notification for malfunction	-	-	-	-	-	-	•	•	•	•
Key lock	•	•	_	_	_	•		•	_ •	•
	Child lock	Child lock				Child lock	Password setting	Password setting	Password setting	Password setting
Low noise mode	-	-	-	-	-	_	-	•	•	•

<sup>\*1 &</sup>quot;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**

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



### **Functions**

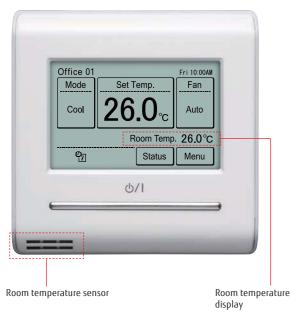
# High performance and compact size

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



# Accurate and comfortable control

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



# Backlight

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



# Various convenient functions

# Displays setting status and Limitations

• The remote controller settings can be easily checked



### **Summer Time display**

 This function can be set easily from Menu screen



Cool 26.0 c Auto

# Child lock

• Lock / unlock method: Push the ON/ OFF button and the screen (4 seconds)



# Name Registration

 Remote controller names can be registered in the remote controller screen. This makes it easy to identify the indoor unit you want to control in the room.

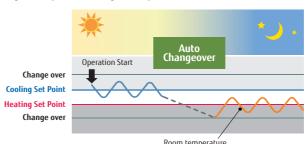


# Various energy saving control

### **Custom Auto**

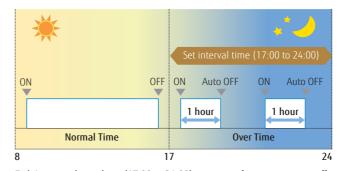
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.
- \* This function is not available for some models.

Cooling set temp. 27°C, Heating set temp. 26°C



### Auto OFF timer

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



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

- 2 schedules such as for the summer and winter can be set.
- 8 setting changeable per day of week (Setting items: On/Off, Temperature, Mode, Time)



### Set Temperature Auto Return

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

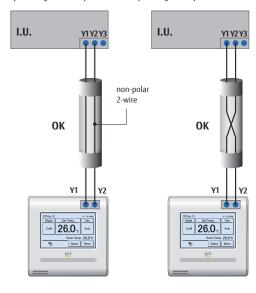
# Set Temperature Upper and Lower Limit Setting

 The set temperature range can be set for each operation mode. (Cooling / Heating / Auto).

# Simplified installation

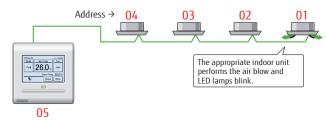
# Uses non-polar 2-wire type

• The faulty wiring can be prevented by using non-polar 2-wire.



# **Auto Address Setting/Setting Position Notification**

- Reduce errors and install time compared with the current specification Rotary SW
- When will be set remote controller groups, can also be set automatically new Wired remote controller address
- After auto address setting of new wired remote controller groups, what number can also confirm addresses



# **Easy Maintenance**

# **Error History Display**

- The errors that occur in the indoor unit or remote controller are saved as a history.
- A maximum of 32 error incidents can be saved.



# Specifications

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

DC12V is supplied by indoor unit.

# Wired Remote Controller

# 16

### **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



### **Functions**

# High performance and compact size

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



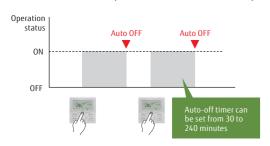
# High visibility and easy operation

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



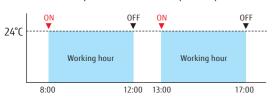
# Auto-off timer

• The indoor unit automatically turns off after a set time has passed.



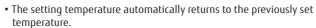
# Weekly timer function

• Not only time setting On / Off, but also setting of the operation mode and set temperature can be set by Weekly timer function.

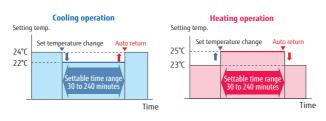


4 types (ON, OFF, ON, OFF) can be set on every day of the week in a week

Set temperature auto return

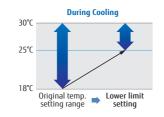


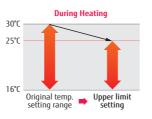
• The time range in which the set temperature can be changed is 30 to 240 minutes.



# Set temperature upper and lower limit setting

• The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)





# Specifications

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

DC12V is supplied by indoor unit.

# Simple Remote Controller

# **UTY-RSRY**

# UTY-RHRY (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





26.07

LITY-RSRY

Without Operation mode

**Functions** 

# Corresponding to various applications

### • Vertical louver control:

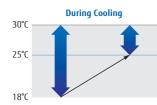
Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.

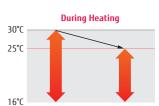




# • Room temperature set point limitation:

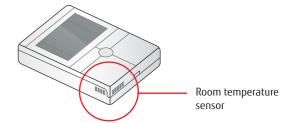
The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.





# • Built in room temperature sensor:

The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



# **Specifications**

-						
Model name		UTY-RSRY UTY-RHRY				
Power Supply		DC 12V				
Dimensions (H x W x D)	mm	120 × 75 × 19.4				
Weight	q	12	20			

DC12V is supplied by indoor unit.

# Wireless Remote Controller

# Max. controllable Selectable 4 indoor units daily timers

# **UTY-LNHY**

Simple and sophisticated operations with a choice of 4 daily timers

• A single controller controls up to 16 indoor units.

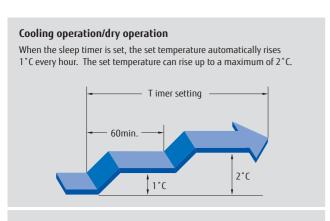


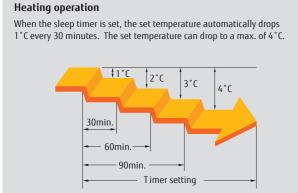
### **Functions**

# **Built-in daily timer**

**Select from 4 different timer programs :** On / Off / Program / Sleep **Program timer :** The program timer operates the ON and OFF timer once within a 24 hour period.

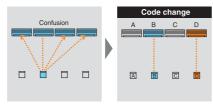
**Sleep timer:** The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.





# Easy installation and operation

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

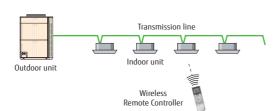


Wide and precise



# Address setting

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



# **Specifications**

•		
Model name		UTY-LNHY
Power Supply		1.5V (R03 / LR03 / AAA) × 2
Dimensions (H x W x D)	mm	170 × 56 × 19
Weight	q	85

# 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.

- 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.
- \*The wireless remote controller (Model: UTY-LNHY) is necessary separately

# **Functions**

# Wireless Remote Controller Wireless Remote Controller

### **Specifications**

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

# IR Receiver Unit for Cassette

# UTY-LRHYB1, UTY-LBHXD, UTY-TRHX

Cassette type indoor unit can be controlled with Wireless Remote Controller

\*The wireless remote controller (Model: UTY-LNHY) is necessary separately







# Functions

# Wireless Remote Controller UTY-LRHYB1 Wireless Remote Controller UTY-LBHXD Wireless Remote Controller UTY-TRHX Wireless Remote Controller UTY-TRHX Wireless Remote Controller UTY-TRHX Wireless Remote Controller UTY-TRHX

# **Specifications**

•				
Model name		UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Power Supply		DC 5V	DC 5V	DC 5V
Dimensions (H x W x D)	mm	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight	q	140	140	150

# Group Remote Controller / Network Convertor







# UTY-CGGY / UTY-VGGXZ1

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one 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



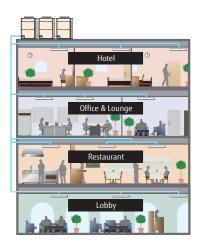
**Group Remote Controllers** UTY-CGGY

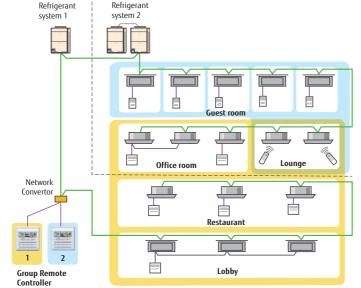
UTY-VGGXZ1 For Group Remote Controller

### **Functions**

# Control up to 8 remote controller groups

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





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

To control guest room and launge (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 12V
Dimensions (H x W x D)	mm	120 × 120 × 18
Weight g		200

DC12V is supplied by indoor unit.

### Model name UTY-VGGXZ1 Power Supply 208-240V 50/60Hz, Single phase Input power W 8.5 mm 67 × 288 × 211

# Central Remote Controller



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.12 different languages
- Standard language corresponds to 12 different languages. (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)



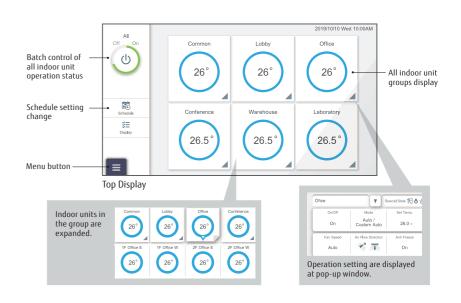
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### **Functions**

# Easy operation

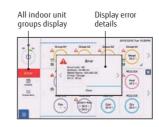
- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.



# **Trouble support function**

# Display error details

Display descriptive explanation when an error occurs



### 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.

• Control / Monitoring Fujitsu air conditioner

• Error notification by E-mail



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JИ	CL	 La	u	u	ш	3

Model name		UTY-DCGYZ1
Power Supply		100-240 V 50/60 Hz
Dimensions (H x W x D)	mm	134.6 × 216.2 × 37.9
Weight	g	800

# **Touch Panel Controller**

# Max. controllable 400 indoor units Max. controllable 100 outdoor units Max. controllable 400 groups

### **UTY-DTGYZ1**

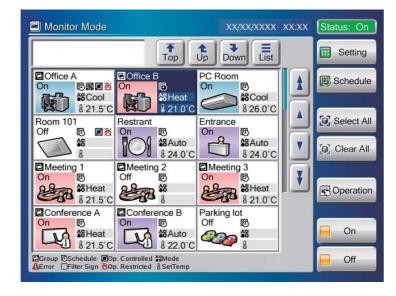
- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different-languages ,English, Chinese, French, German, Spanish, Russian,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



### **Functions**

# Control & monitoring from anywhere

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



# Easy maintenance

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

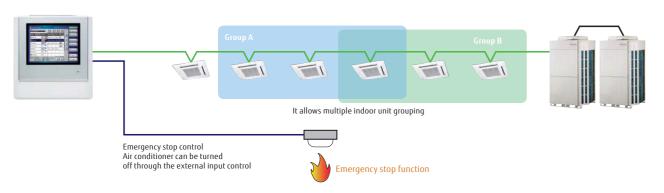


# Easy installation

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

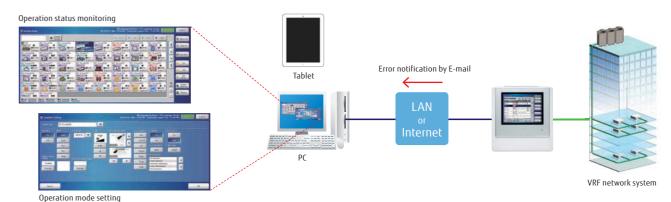


# Up to 400 indoor units can be controlled



# **Control & 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**

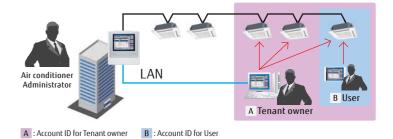
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

### Tablet

Model name	Browser	
ipad Pro 9.7inch (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.

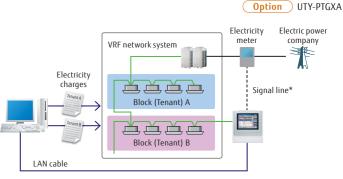


7 Languages + Other languages

# **Electricity charge apportionment**

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

- Apportionment 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.

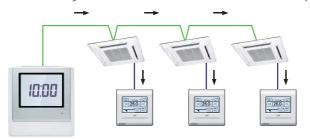
# Automatic summer time setting

# **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

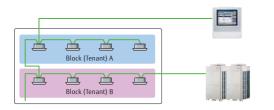
2) The time setting of each controller can be set in batch automatically.



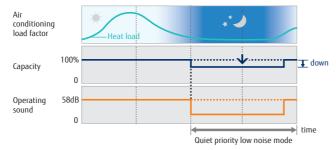
# Outdoor low noise operation

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



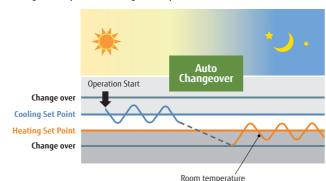
# Various energy saving control

# **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.



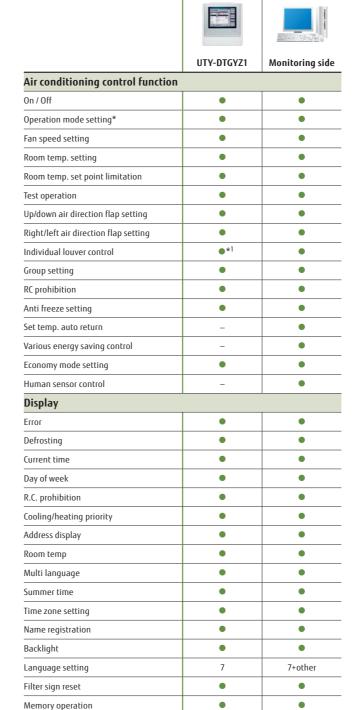
# Cooling set temp. $28^{\circ}$ C, Heating set temp. $18^{\circ}$ C



# 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.





: Supported	$\bigcirc$ : Optional function	– : Not supported yet
-------------	--------------------------------	-----------------------

<sup>\*1</sup> Only setting cancellation can be operated.

Refrigerant leakage detection function

# **FUNCTIONS SUMMARY**

			B.6
		UTY-DTGYZ1	Monitoring
Timer	I		I
	Period	Year	Year
Schedule timer	On/off, Temp, Mode, Times per day	20	20
On/off timer		-	_
Sleep timer		_	_
Program timer		-	-
Auto off timer		-	•
Day off		•	•
Min. unit of time	setting (Minutes)	10	10
Control			
Status monitorin	g system	•	•
Electricity charge	apportionment	0	0
Error history		•	•
Emergency stop		<b>●</b> *2	•*2
Remote management		_	•
Energy saving ma	anagement	-	_
E-mail notificatio	n for malfunction	-	•
Key lock		• Password setting	_
Low noise mode		•	•

# **Specifications**

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

<sup>\*2</sup> This function is available only through external input control.

# System Controller Software

### **UTY-APGXZ1**

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.





# **UTY-ALGXZ1**

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.







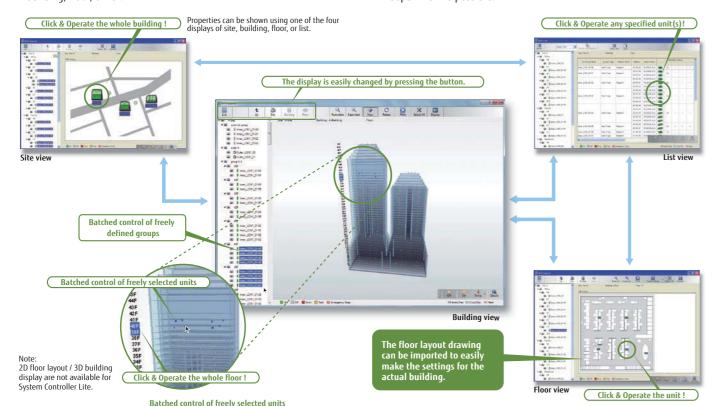
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### **Functions**

# User friendly view and operation

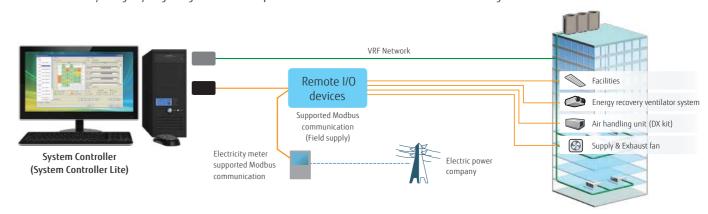
• Click & Operate: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

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



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

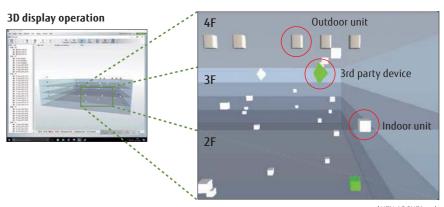
When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



**Standard** for System Controller

# 3D display of external equipment

3D display is also enabled for 3rd party devices, so Installation location and operation status can be checked at a glance and the operation can be managed easily.



\*UTY-APGXZ1 only

# Diverse operation management & Data management

# Schedule management

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

# Same of the same o

Option for System Controller Lite UTY-PLGXX2

# Diverse control of indoor and outdoor unit

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

# Remote controller prohibition

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

### Automatic clock adjustment

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

# Error display & E-mail notification

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

# Data base import/export

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

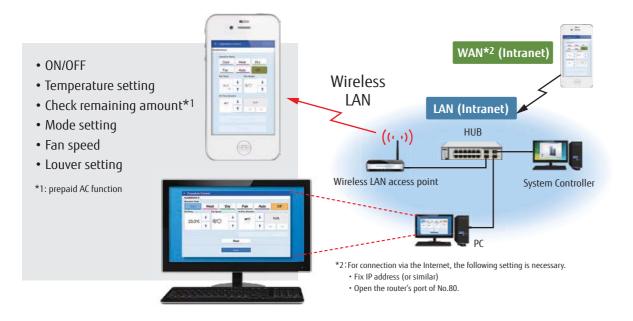
### Operating & control record

Displays the history of operation status and control.

**Functions** 

# Web Operation

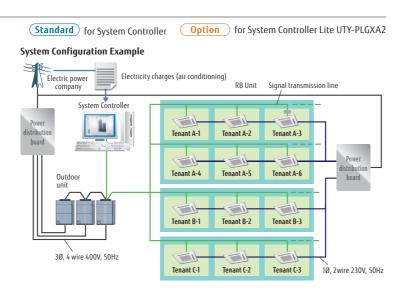
PC and smartphones can be used as simple remote controller. (Indoor unit user setting is necessary to operate it from System Controller side)

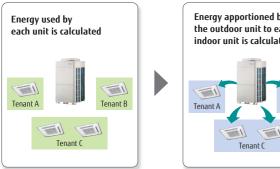


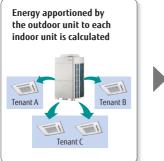
# **Electricity charge apportionment**

# Electricity charge apportionment calculation framework

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







The energy used by each indoor unit and the energy apportioned by the outdoor unit are added together to calculate the total amount of eneray used. Indoor unit energy used Apportioned energy

Indoor unit total energy used

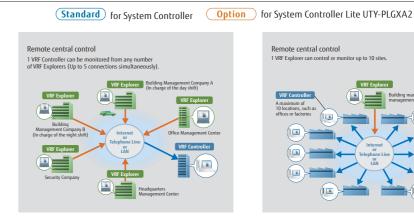
# Electricity charges by tenant are calculated

The distribution ratio for energy used by each indoor unit is calculated and the electricity charges for the energy used by each indoor unit are calculated from the total electricity charges.



# Remote management

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

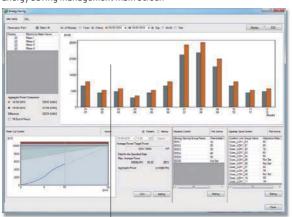


Remote central control

# Energy saving management

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

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

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

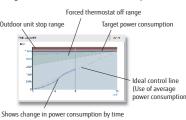
The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.



# Peak cut operation

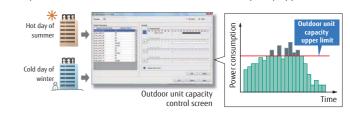
A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control

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.

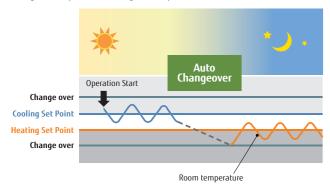


#### **Functions**

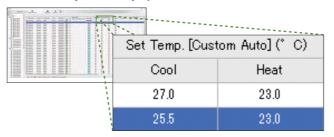
### **Custom Auto Function**

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

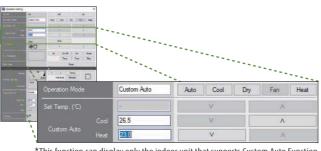
### Cooling set temp. 28°C, Heating set temp. 18°C



#### **Custom Auto operation display**



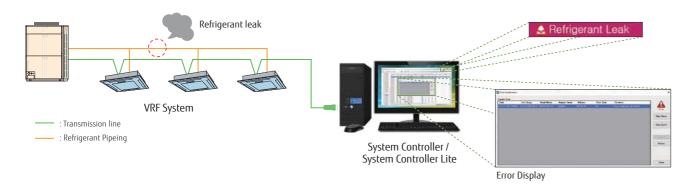
#### **Custom Auto operation display**



<sup>\*</sup>This function can display only the indoor unit that supports Custom Auto Function

### Refrigerant leakage detect function

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



#### Error display

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



### Diverse control of indoor units

- Indoor unit operation state, operation mode, etc. are displayed.
- Indoor unit start/stop and operation mode switching, temperature setting, remote controller prohibition, etc. setting.



### Operating & control record

Displays the history of operation status and indications.



### **Energy saving function**

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

Enible		Datie			Erobie	
Ronge		Lewe	Link		Upper	Land
26.0	28.0	lates.	in the	-	100	100
21.0	23.0	(w)	A.	-	(M)	A
21.0	20.0	-Mil	-Au	_	[.N.	(A)

### **FUNCTIONS SUMMARY**

			System	controller	System controller lite				
Function		Туре	UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX
	Max. VRF networks s		400	_	1	_	_	_	_
System		x. indoor unit / remote controller groups per VRF network		_	400	_	_	_	_
specification Max. indoor units / re		outdoor units per System controller			100	_		_	_
		emote controller groups per System controller	1600		400	_	_	_	_
	Max. outdoor units p	er System controller	400		100				_
	Multi site display		10		10	_			_
	Number of building /		20		_	_	_	_	_
	Number of floor per		200			_	_	_	_
Site	Number of floor per		50	<del>-</del>	<u> </u>	_	=	=	
supervision	3D graphical layout v		•			_	_		_
	2D graphical layout v	new	•		-		_	_	
	List display			_		_	-	-	_
	Tree display						-	-	_
	Group display		•	_	•	_	_	_	_
Error	Error notification		•		•				
management	Audible alarm		•		•	_	_		
	Error e-mail notificat	100				_	-	-	_
	Error history		•		•	_		_	_
History	Operation history			_		_	_	_	_
	Control history	To 1011	•		•	_	_	_	_
		On/Off	•		•	_	_	_	
		Operation mode	•		•	_		_	_
		Room temperature	•		•		_		_
	Individual	Fan speed	•		•		_		
	control	Air flow direction	•		•	_		_	_
	Control	Economy mode	•	_	•	_	_	_	_
Operation		Room temperature set point limitation	•	-	•	-	-	-	-
control		Antifreeze	•	_	•	_	_	_	_
control		Outdoor unit low noise setting	•	_	•	_	_	_	_
	Individual	Remote control prohibition setting	•	_	•	_	_	_	_
	management	Temperature upper and lower limit setting	•		•	_	_	_	_
		Filter sign reset	•	_	•	_	_	_	_
		Memory operation	•	_	•	_	_	_	_
	Other	Pattern operation	•	_	•	_	_	_	_
		Web operation	•		•	_	_	_	_
	Annual Schedule		•	_	•	_	_	_	_
	Special day setting		•	_	•	_	_	_	_
	On /off per day		72	_	72	_	_	_	_
Schedule	On / off per week		504	_	504	_	_	_	_
	Day off		•	_	•	_	_	_	_
	Min. unit of timer set	ting (Minutes)	10	_	10	_	_	_	_
	Low noise mode Wee		•	_	•	_	_	_	_
	Web Operation		•		•	_			
Remote	Remote monitoring		•	_	_	•	_	_	_
managemment	Remote operation co	ntrol	•	_	_	•	_	_	_
,-	Remote function set		•	_	_	•	_	_	_
	Apportionment charg		•	_	-	_	•	_	_
	Tenant (block) settin		•	_		_	•		_
Electricity	Common facilities ap		•		_	_	•		
charge		ption allotment setting	•			_	•		
apportionment		n at cooling and heating	_	•*	_	_	•	_	_
	Electricity meter sup		_	•	_	_	•		_
	Indoor unit rotation	ported	_	•	_	_	_	•	_
	Peak cut control			•	_	_	_	•	
Energy	Outdoor unit capacit	v save	<del>-</del>	•		_	_	•	_
saving	Record of energy sav		+ -	•	<del>-</del>			•	_
savilig management	Energy saving inform		<del>-</del>	•				•	
nonogement	Power consumption		+ -	•		_		•	
				•	<del>-</del> -	_		•	_
External Device	Electricity meter sup Monitor	porteu	•	-	_	_	_	_	•
			•			_	_	<del></del>	•
Control	Control								•
	Database import/exp		•		•	_	_		_
Others	Automatic clock adju	stment	•		•				_
	Multi language		7 languages	_	7 languages	_	_	_	_
	Refrigerant leakage		•	l –		l –	_	_	_

Available. -: Not available. \*: Power calculation application software is necessary, please contact the local FGL representative...

### Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite					
Operating system	<ul> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul>	<ul> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> <li>[Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish</li> </ul>					
CPU	Intel® CoreTM i3 2 GHz or higher	Intel® CoreTM i3 2 GHz or higher					
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7	• 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 space355	40 GB or more of free space355					
Display	1024 x 768 or higher resolution	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	Adobe® Reader® 9.0 or later					

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

<pacning list=""></pacning>							
	For System	n controller	For System controller Lite				
Туре	System controller	System controller  System Controller Lite  Option  Option			ion		
	System controller	Energy manager	System Controller Lite	Remote access	Electricity charge apportionment	Energy saving	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

<sup>\*1:</sup> 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





WHITE-USB-KEY

(Software Protection Key)

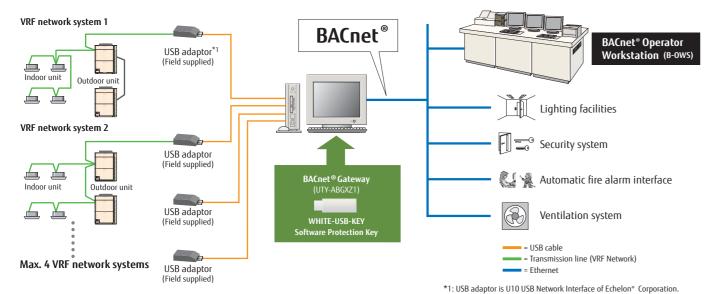


### **UTY-ABGXZ1**

- 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.

#### **Functions**

### Installation example



### 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
СРИ	Intel® CoreTM i3 2 GHz or higher
Memory	<ul> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>
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

<packing list=""></packing>		
Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

## BACnet® Gateway (Hardware)





### UTY-VBGX

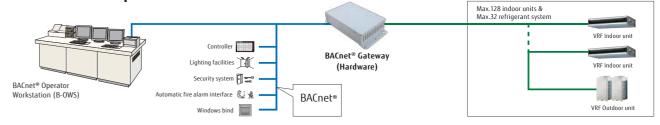
- BACnet® Gateway enables to connect a BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.





### **Functions**

### 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 etwork	4

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

4

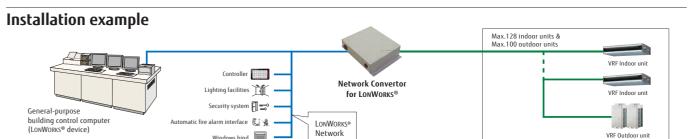
### Network Convertor for LonWorks®

### UTY-VLGX

- 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®



### **Functions**



### **Specifications**

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

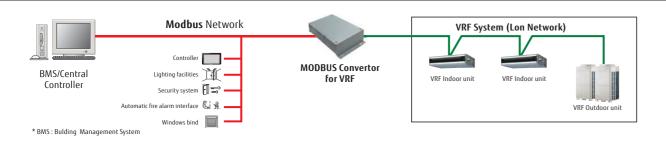
# $\begin{array}{cccc} \text{Max. connectable} & \text{Max. controllable} & \text{Max. controllable} \\ 9 & 128 & 100 \\ \text{units to one VRF} & \text{indoor units} & \text{outdoor units} \end{array}$

### UTY-VMGX

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

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

### **Functions**



#### **Specifications**

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

### MODBUS® Interface

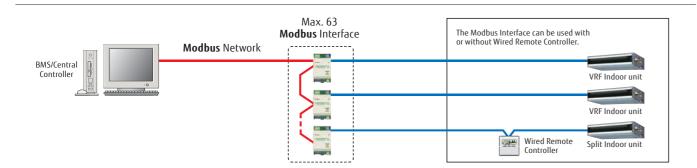


### FJ-RC-MBS-1

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

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

### Functions



### **Specifications**

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

### KNX® Convertor (for VRF)

# Max. controlla 128 indoor units

## Max. controllable

### UTY-VKGX

It is possible to control the VRF system from central / home controller via KNX network.

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

### **Functions**



### Specifications

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

### KNX® Interface

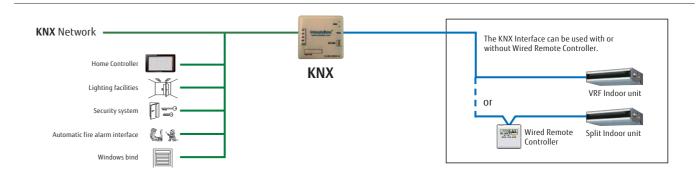
# Max. controllable 1 group

### FJ-RC-KNX-1i

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

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

### **Functions**



### Specifications

Model name		FJ-RC-KNX-1i
Dimensions (H x W x D)	mm	70 × 70 × 28
Weight	g	70

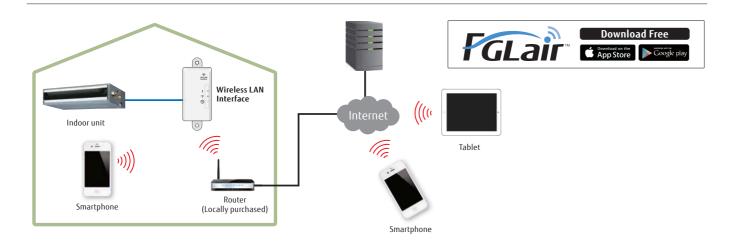
### Wireless LAN Interface

### UTY-TFSXZ1

- 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

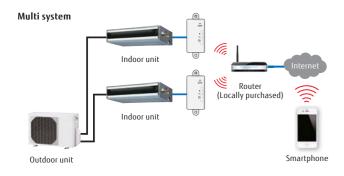


#### **Functions**



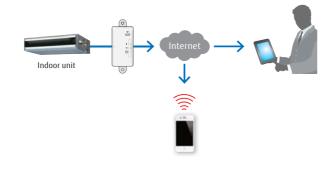
### Basic control

- 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



### Error display & E-mail notification

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



### Multiple air conditioning management

• Multiple air conditioning management at difference locations.

### Specifications

Model name		UTY-TFSXZ1							
Dimensions (H x W x D)	mm	71 × 38 × 15							
Weight	g	35							

### **Network Convertor**

### UTY-VTGX (DC power supply type) UTY-VTGXV (AC power supply type)

Compact remote controller provides access to basic functions

- 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



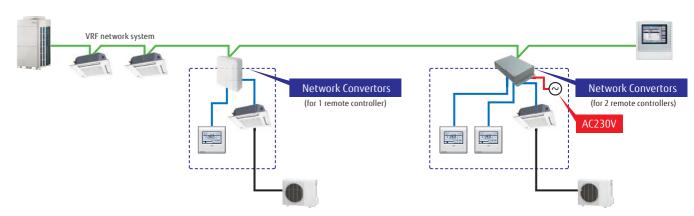
16

100

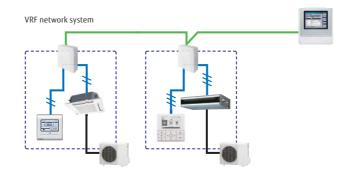
### **Functions**

### Installation example

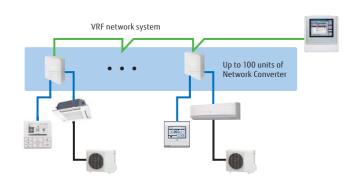
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



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



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



### **Specifications**

Model name		UTY-	-VTGX	UTY-VTGXV
Power Supply		polar 3-wire DC12V	non-polar 2-wire DC12V	220-240V 50/60Hz, Single phase
Input power	W	Max	x. 1.2	Max. 3
Dimensions (H x W x D)	mm	140 ×	117 × 43	54 × 260 × 150
Weight	g	2	50	1,100

### **External Switch Controller**

# Max. controllable 1 group

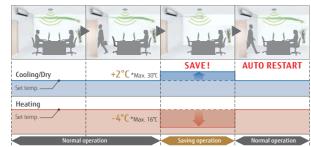
### **UTY-TERX**

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

### **Functions**

### Installation example

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



Human sensor equipment needs to be purchased locally. The above example indicated that a signal is sent to this External Switch Controller if human sensor does not detect for 20 minutes. Human sensor is not mounted on the External Switch Controller.

### **Specifications**

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

DC12V is supplied by indoor unit.

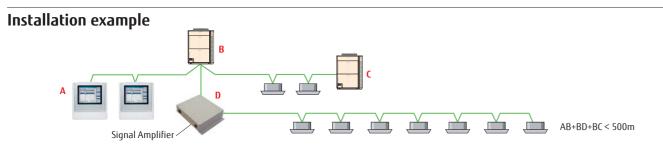
# Signal Amplifier

### UTY-VSGXZ1

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



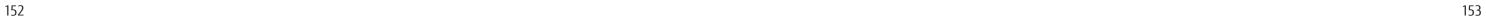
### **Functions**



### Specifications

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





### **OPTIONAL PARTS OVERVIEW**

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





### **Human Sensor Kit**

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



Cassette Grille

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



For Compact



For Cassette Circular Flow

Fresh Air Intake Kit

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



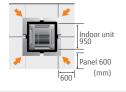
### Insulation for High Humidity

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



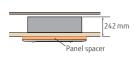
### Air Outlet Shutter Plate

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 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.





External Connect Kit & Set

the product PCB and external

Connection units are provided

connection of multiple indoor

units in Multi type or VRF system.

**External Power Supply Unit** 

External Power Supply Unit can

protect the units in the system

even if some powers of indoor

units are shut down in the system.

to separate the pipes at the

Connection Units

device.

These wires can connect between







### Auto Louver Grille Kit

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



**Optional Parts** 

#### 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.

**External Input and Output** 

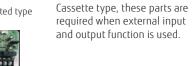
For Wall mounted, Duct, or



For Wall Mounted type







and Cassette type



### **External Input and Output** PCB Box & Bracket

These are the box and bracket for installing the External input and output PCB

# NEW

# **External Power Supply Unit**

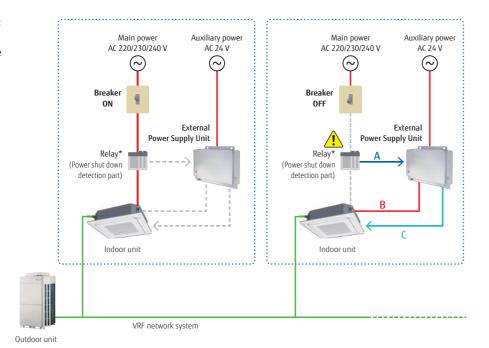
Models
UTZ-GXXA



### Feature

### **High Reliability**

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



#### Note

- When changing the power supply voltage to AC24V, 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
- 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							

### **Auto Louver Grille Kit**

Models

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





### Feature

### Flexible Control

### • Operation with indoor unit

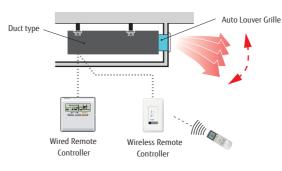
Auto Louver can be operated by synchronizing remote controller of indoor unit.

#### • UP and Down auto swing

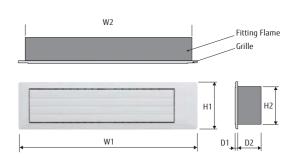
- Auto airflow direction and auto swing
- 4 steps selectable

### Auto-closing louver

When operation of indoor unit is stopped, the louver will automatically close.



### **Dimensions**



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

### Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W						
Applicable Indo	or Unit		ARXD04GALH ARXD007/009/012/014GLEH ARXK004/007/009/012/014GLEH	ARXD007/009/012/014GLEH ARXD018GLEH							
Power source Connecting with Control box of indoor unit											
Fixing of Auto L	ouver Grille			Screw fixing to Flange or Square Duct							
Extension Square Duct Limit 1.0m (Max. duct length between indoor unit and Grille)											
Dimensions (H >	W × D)	mm	180 × 683 × (84+9)	180 × 683 × (84+9) 180 × 883 × (84+9)							
	Net	Ι. Ι	2.0	2.5	3.0						
Weight	Gross	kg	3.0	3.5	4.0						
Color			White								
Louver Motor		İ		Stepping Motor							
Accessories				Fitting Flame, etc.							
	c 1:	°C	18 to 32								
Operation Range	Cooling	% RH	80% or less								
Konyc	Heating	°C	16 to 30								

<sup>\*:</sup> The Auto Louver Grille Kit can also be installed to ARXD007/009/012/014/018/024GLEH revision code B models. Please refer to the Design & Technical manual for "revision code " details.

### **CONTROL SYSTEMS LIST**

#### Controllers / Interface Wall Mounted Refrigerant Circular Flow (Slim) Mini (With drain pump) Large Airflow Duct (Large) EEV external Circular Flow (Large) EEV external EEV external Medium Static Pressure Slim (With drain pump) 3D Flow High Static Pressure ARXD 007/009/012/ 014/018/024 GLEH AUXB 004/007/009/ 012/014/018/ 024GLEH AUXK 018/024/030/ 034/036/045/ 054GLEH ARXK 004/007/009/ 012/014/018/ 024GLEH 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 009/012/014 ARXA 024/030/036/ 045GLEH ARXC 036/072/090/ 096GTEH ABYA 012/014/018/ 024GTEH ABYA 030/036/045/ 054GTEH ASYA 004/007/009 GTEH ASYE 004/007/009 GTEH GLAH, AUXM 018/024/030 GLEH ARXD 04GALH ARXC 45/60GATH ASYA 012/014GCEH ASYE 012/014GCEH ASYA 18/24GBCH ASYA 030/034GTEH R410A 100 ● UTY-RNRYZ3 UTY-RNRYZ3 UTY-RLRY UTY-RLRY UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY 2-wire type 3-wire type UTY-RSRY UTY-RHRY UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY 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-CGGY + UTY-VGGXZ1 ● UTY-APGXZ1, UTY-ALGXZ1 ● UTY-APGXZ1, UTY-ALGXZ1 ● UTY-ABGXZ1, UTY-VBGX ● UTY-ABGXZ1, UTY-VBGX

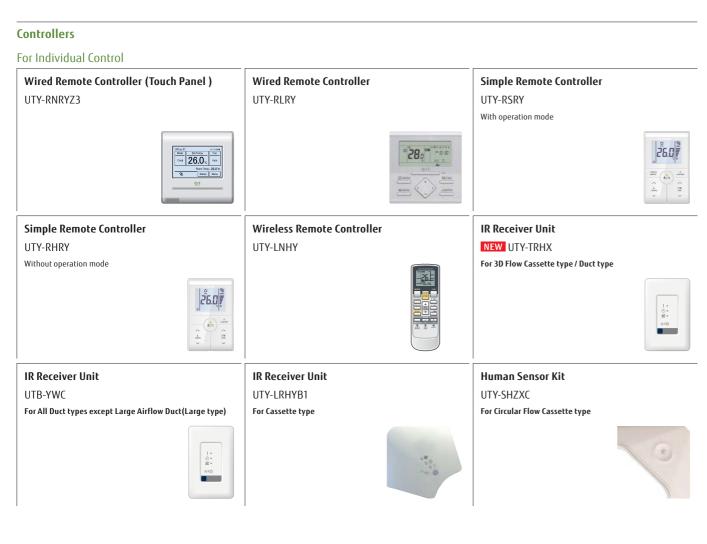
● UTY-VLGX UTY-VLGX UTY-VMSX ● UTY-VMSX ● UTY-VMGX ● UTY-VMGX ● UTY-VKGX ● UTY-VKGX ● UTY-TFSXZ1 ● UTY-TFSXZ1 ● UTY-TFSXZ1 ● UTY-TFSXZ1 UTY-VTGX UTY-VTGXV UTY-VTGX UTY-VTGXV

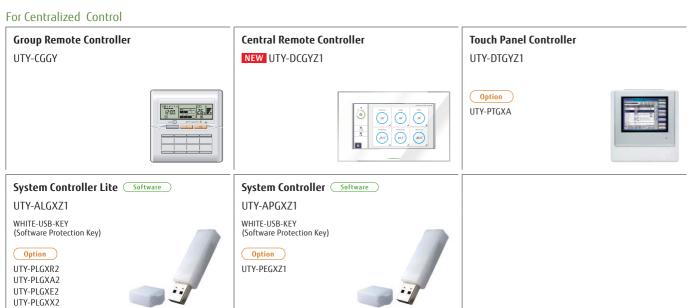
## **OPTIONAL PARTS LIST**

### Others

Others						Indoo	r unit									Indoo	or unit				
			Cas	sette				D	uct			Du	ıct	Flo	ОГ				Wall Mo	ounted	
Type	Refrigerant	3D Flow	Compact Grid type /Standard type	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	SI (With dra	im iin pump)	Medium Static Pressure	High Stat	ic Pressure	Large Airflow Duct (Compact)	Large Airflow Duct (Large)	_	EEV external	Floor / Ceiling	Ceiling	_	EEV external	_	
Туре	R410A	AUXS 018/024GLEH	AUXB 004/007/009/ 012/014/018/024 GLEH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/024 GLEH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXA 024/030/036/045 GLEH	ARXC 45/60GATH	ARXC 036/072/090/096 GTEH	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	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASYA 004/007/009 GTEH, ASYA 012/014GCEH	ASYE 004/007/009 GTEH, ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH
IR Receiver Unit	* [	UTY-TRHX		UTY-LI		UTY-TRHX	UTB-YWC		● -TRHX	● UTB-YWC	UTY-TRHX	UTB-YWC									
Human Sensor Kit	(0)			UTY-S																	
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.							UTY	• -XSZX			UTY-:	xszx								
Cassette Grille	UTG-UKYA-B UTG-UKYE-W UTG-UFYE-W UTG-UFYE-W	UTG-USYA-W	UTG-UFYE-W UTG-UFYC-W	UTG-U	KYC-W																
Auto Louver Grille Kit							UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24)					UTD-GXTC-W (009/012/014)									
Long Life Filter									UTD-LF25NA	UTD-L	F60KA 0/036)	UTD-LF25NA(018) UTD-LFNA(024/030)									
Flange	0-								UTD-SF045T UTD-RF204			● UTD-SF045T(018) UTD-RF204(018)					UTD-RF204				
Drain Pump Unit									UTZ-PX1NBA			UTZ-PX1NBA(018)					UTR-DPB24T				
Wide Panel	Indoor unit 950 Panel 600 (mm)			UTG-AF	XXA-W																
Panel Spacer	242 mm Panel spacer			UTG-BK																	
Fresh Air Intake Kit*1	For Compact For Cassette Cassette		UTZ-VXAA	UTZ-V	VXRA																
Air Outlet Shutter Plate	For Cassette		UTR-YDZB	UTR-1	/DZK																
Insulation for High Humidity	For Compact Cassette type/ Cassette type		UTZ-KXGC	UTZ-k	XXRA																
Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.													UTR-	STA						
External Power Supply Unit				UTZ-GXXA				UTZ-	• GXXA		UTZ-GXXA					UTZ-C	GXXA				UTZ-GXXA

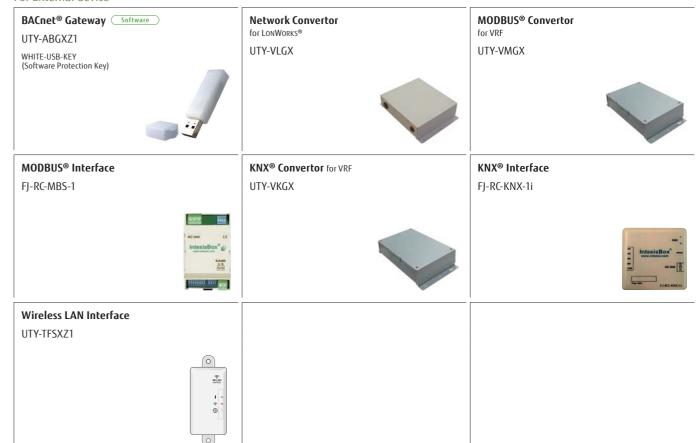
### **CONTROL SYSTEM PARTS**





### Convertors / Adaptors

### For External device



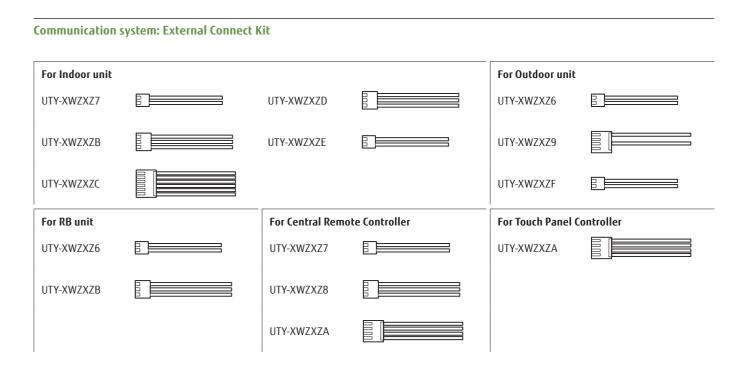
### For System expansion



### **CONTROL SYSTEM PARTS**

#### Others Flange (Round) Flange (Square) Remote Sensor Unit UTD-RF204 UTD-SF045T UTY-XSZX For Medium Static Pressure Duct type / Ceiling type For Medium Static Pressure Duct type For All Duct type New amenity space can be offered by installing the Remote sensor. Long-Life Filter **Auto Louver Grille Kit Drain Pump Unit** UTD-GXTA-W (For ARXD04/07/09/12/14GALH, ARXK04/07/09/12/14GCLH) UTD-LF25NA UTD-LF60KA UTZ-PX1BBA UTD-GXTB-W (For ARXD18GALH, ARXK18GCLH) For Medium Static Pressure Duct type For High Static Pressure Duct type For Low Static Pressure Duct type UTD-GXTC-W (For ARXD24GALH, ARXK24GCLH, ARXN009/012/014GLBH) UTZ-PX1NBA For Slim Duct type / Mini Duct type For Medium Static Pressure Duct **Wide Panel Panel Spacer Insulation Kit** for High Humidity UTG-AKXA-W UTG-BGYA-W UTZ-KXRA For Cassette type For Cassette type For Cassette type UTZ-KXGC For Compact Cassette type Panel 600 Panel spacer Fresh Air Intake Kit **Air Outlet Shutter Plate** Air Outlet Shutter Plate UTZ-VXAA UTZ-VXRA UTR-YDZB UTR-YDZK For Compact Cassette type For Cassette type For Cassette type For Compact Cassette type Shuts the air outlet when only using as 3 blow out. Shuts the air outlet when only using as 3 blow out. \* Not applicable for VRF V-II tropical and V-III tropical series **Drain Pump Unit Half Concealed Kit External Power Supply Unit** UTR-DPB24T UTR-STA NEW UTZ-GXXA For Ceiling type For Floor type For All type This kit is used to half conceal floor type indoor unit into the





## **FUNCTION LIST**

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

External Input	t and Outp	UL FUIICLIO	n/Externa	I Connect I	KIT/Commt	IIICation K																		_		
			Cassette				Indoor unit Du	ıct			FI	loor					or unit Nounted			Outd	oor unit			Cont	oller	Other
	Refrigerant	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	FI	or / Ceiling	_	EEV external	_	J-IIIL	J-III	J-IIS	V-III	V-III Tropical	VR-II	Central Remote Controller	Touch Panel Controller	RB Unit
Туре	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	ABYA 012/014// 024GTE	ABYA 18/ 030/036/045 1 054GTEH	ASYA 004/007/005 6/ GTEH, ASYA 012/014GCEH	ASYE 9 004/007/009 GTEH, ASYE H 012/014GCEH	ASYA ASYA 18/24GBCH 030/034GTEH	AJY 072/090/108/ I 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
Operation / Stop							UTY-XWZXZD UTY-XWZXZB								• UT O UT	TY-XWZXZD TY-XWZXZB										
All On / All Off																								●UTY-XWZXZ7 OUTY-XWZXZ8	●*2 ○*2	
Batch Stop																			I	• UT	Y-XWZXZ6					
Forced Stop							UTY-XWZXZD     UTY-XWZXZB								• UT	TY-XWZXZD TY-XWZXZB										
Emergency Stop							UTY-XWZXZD     UTY-XWZXZB								• UT	TY-XWZXZD TY-XWZXZB				• UT	Y-XWZXZ6			●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
Forced Thermostat	off						UTY-XWZXZE     UTY-XWZXZ7								• U1 O U1	TY-XWZXZE TY-XWZXZ7										
Low Noise Mode Op	eration																			• UT	Y-XWZXZ6					
Cooling/Heating Pri	ority																			UTY-XWZXX	Z6					OUTY-XWZXZE
Outdoor Unit Opera	tion Peak Control																			• UT	Y-XWZXZ6					
Power Usage Inform Electricity Meter	nation from																			• UT	Y-XWZXZF				●*2 ○*2	
Operation Status			1			1	UTY-XWZXZC		ı	ı	I	1		ı	• U1	TY-XWZXZC				O UT	Y-XWZXZ6			OUTY-XWZXZA	OUTY-XWZXZ <i>i</i>	4
Error Status							UTY-XWZXZC								• U1	TY-XWZXZC				O UT	Y-XWZXZ6			OUTY-XWZXZA	OUTY-XWZXZ#	
Indoor Unit Fun Ope	eration Status						UTY-XWZXZC								• U1	TY-XWZXZC										
Auxiliary Heater Ou	tput					• UTY	-XWZXZC																			
Base Heater																			UTY-XWZXZ	79		UTY-XWZXZS	)			

<sup>\*2:</sup> 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.

●: Dry Contact O: Apply Voltage

### SEPARATION TUBE etc.

### **Connection Units** Separation Tube UTP-AX054A UTP-AX090A UTP-AX180A UTP-AX567A Gas Pipe Liquid Pipe UTP-BX180A UTP-BX567A UTP-BX090A UTP-LX180A for DX-Kit Suction Gas Pipe Liquid Pipe Header UTR-H0906L / UTR-H1806L UTR-H0908L / UTR-H1808L UTP-J0906A / UTP-J1806A UTP-J0908A / UTP-J1808A Outdoor Unit Branch Kit UTP-CX567A UTP-DX567A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe EV Kit **RB** Unit UTP-RX01AH / UTP-RX01BH / UTP-RX04BH Model code ≤ 09 : UTR-EV09XB Model code ≤ 09 : UTR-EV09XB Multi type UTP-RX01CH Model code ≥ 12 : UTR-EV14XB Model code ≥ 12 : UTR-EV14XB For Compact Wall Mounted type For Compact Floor type Single type

### Specifications

### Separation Tube

Model name		UTP-AX054A	UTP-AX090A	UTP-AX180A	ı	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-B	X180A	UTP-BX567A			
Total cooling capacity of indoor unit	kW	28.0 or less	28.1 t	o 56.0	56.1 or more			

#### Header

Model name	3-6 Bra	anches	UTR-H0906L	UTR-H1806L			
	3-8 Bra	anches	UTR-H0908L	UTR-H1808L			
Total cooling capacity of indoor unit kW		kW	28.0 or less	28.1 to 56.0			
Model name	3-6 Bra	anches	UTP-J0906A	UTP-J1806A			
model name	3-8 Bra	anches	UTP-J0908A	UTP-J1808A			
Total cooling capacity of indoor unit kW		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)
Madalaama	2 outdoor units	1	
Model name	3 outdoor units	2	

### EV Kit

Model name	UTR-E	V09XB	UTR-EV14XB				
Application Model	ASYE004GTEH ASYE007GTEH ASYE009GTEH	AGYE004GTEH AGYE007GTEH AGYE009GTEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH			

### **RB** Unit

Model name			Multi type							
Number of Outdoor unit		UTP-RX01AH	UTP-RX01AH UTP-RX01BH UTP-RX01CH							
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 ≤ 56.0*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	198 × 298 × 268	198 × 298 × 268	260 × 658 × 428					

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



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

Category			In	forn	natio	n M	ater	ial				To	ol	
			Brochures		Operating Manual	Design & Technical Manual								Mobile Technician
Product Training	•	•												
Technical Information Seek						•	•							
Design						•		•	•					
Installation						•				•				

AIRSTAGE™ SUPPORT

AIRSTAGE™ / RAC SUPPORT TOOL

QUICK SERVICE & MAINTENANCE

SERVICE TOOL

WEB MONITORING TOOL

### **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.

### Training

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

#### Features

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















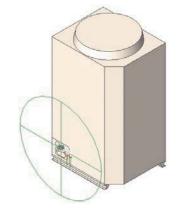


### **Technical information**

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

### Features

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



### **Product information**

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

### Features

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

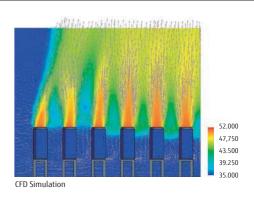


### **Technical support**

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

#### Features

- CFD Simulation
- Guide line
- Commissioning Support





### AIRSTAGE™ /RAC SUPPORT TOOL

Put the charts and pens away and design your projects on your computer with ease using the Design Simulator.

Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.

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

### **Design Simulator**

### Automatically create model selection information

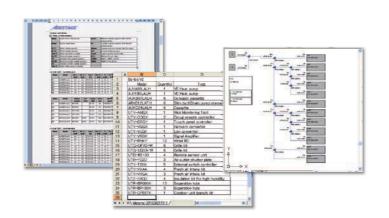
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The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



## Output the format that matches the application

The information specific to your project can be exported in a number of industry standard file formats.

- Word format (rtf)(doc)
- Excel format (csv)
- Acrobat format (pdf)
- Auto CAD format (DXF)
- 2D Data (DXF)3D Data (RFA)



### **Update your Design Simulator**

Database can be easily updated online using AutoUpdate function through FTP.



User side(PC)

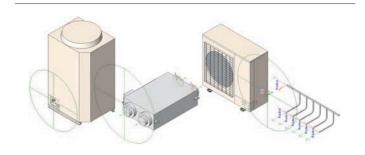
FTP server side (PC)

### BIM Building Information Modeling

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

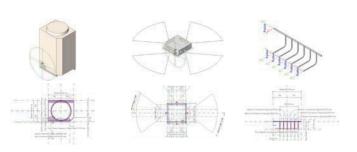
### 3D and 2D product data

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



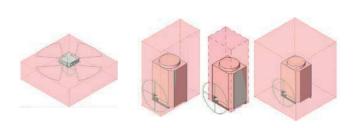
### Installation limitation

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



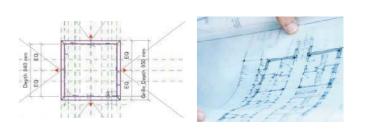
### **Update your Design Simulator**

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



### **Product specifications & link information**

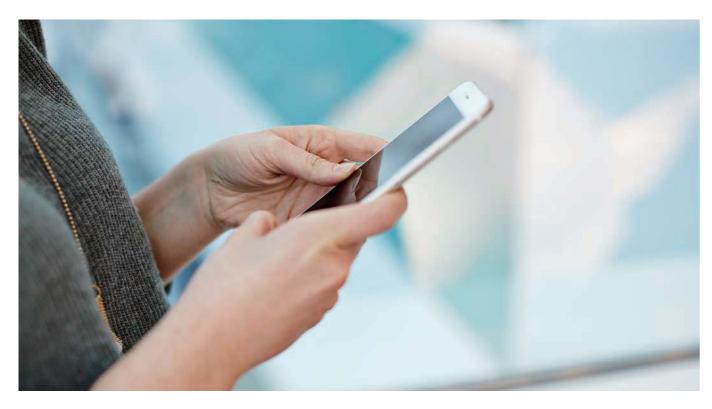
Contains the basic information required for air conditioner design, including unit size, capacity, input power, noise, and airflow rate. These data can be procured from the Fujitsu General Website, Design Simulator, and Autodesk® Seek Website.



### **QUICK SERVICE & MAINTENANCE**

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

### Mobile troubleshooting tool for iPhone & Android



We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products 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.



### Easy maintenance & monitoring

### Design for easy maintenance

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.



### Wired Remote Controller (Touch panel) Error status/Error history



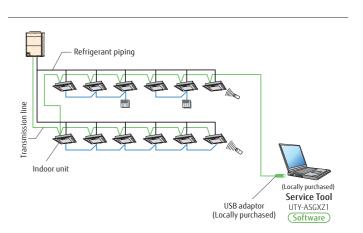
#### Wired Remote Controller



### **Error diagnosis by Service Tool**

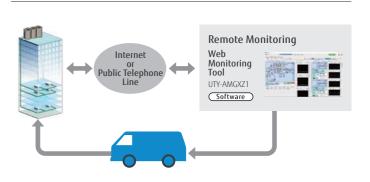
Error diagnosis by Service Tool
The unit status details for VRF system can be checked on PC screen by connecting Service Tool.
Quick countermeasures can be taken

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



### Remote monitoring

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



### **SERVICE TOOL**

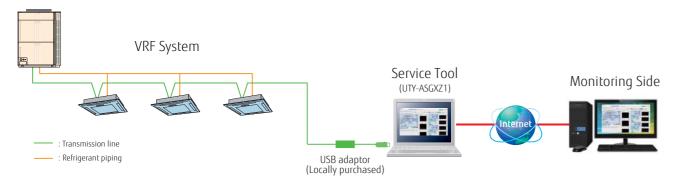
### UTY-ASGXZ1

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

- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (locally purchased)
- \* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
- UTR-YSTB/UTR-YSTC (Service Tool)
- UTR-YMSA (Web Monitoring Tool)

#### **Functions**

### **System Over View**



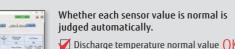
### Automatic operation check for refrigeration cycle

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.

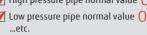


chat function helps to support on site staff.



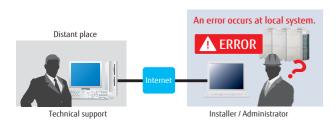


- Super heat volume normal value \( \sum K \)
- High pressure pipe normal value OK Low pressure pipe normal value OK



### 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.



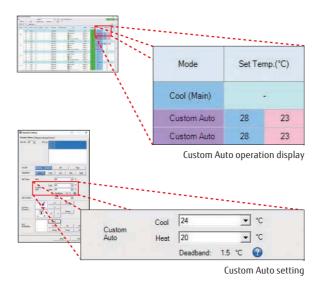
Remote technical support & maintenance On-site check screen can be shared with the skilled person in a

distant place. When visiting for troubleshooting on site, operation

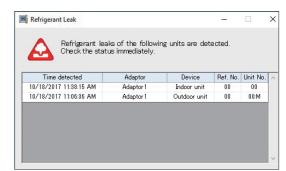
status can be shared in real time and get assistance easily. Online



### **Custom Auto Function**



### Refrigerant leakage detect Function



Refrigerant leak alart display

### **Function summary**

	UTY-ASGXZ1
Interchangeability of equipment	•
Indication of equipment list	•
Operation control	•
Indication of refrigerant circuit diagram	•
Commissioning tool	•
Storage and CSV output of operating history (sensor data)	•
Indication of trend graph	•
Printing of trend graph	•
Monitoring and screen display of abnormalities	•
E-mail automatic transmission of abnormalities	-
Network Topology Analyzer	•
Remote Setting	•
System Time Setting	•
Central Release	•
Model Name Writer	•
Error Memory Reader	•
Time Guard Information	•
Automatic operation check for refrigeration cycle	•
Many different kinds of graph display	•
Automatic update of software	•
Custom Auto function	•
Display of individual louver control function	•
Display of human sensor control function	•
Refrigerant leakage detect function (Europe only)	•

### 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)
СРИ	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

VI ACKING 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.

<sup>•</sup>Personal computer that satisfies the following system requirements

### WEB MONITORING TOOL

### UTY-AMGXZ1

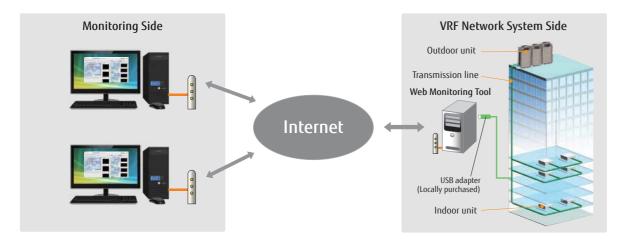
#### **Product features**

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet \*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.

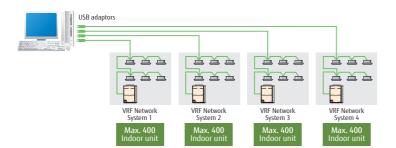
#### **Functions**

### **Web Monitoring System**

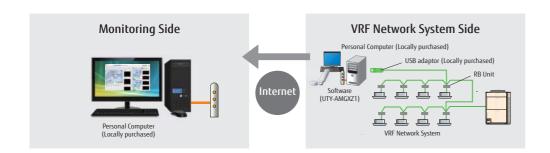


### Support 4 VRF network systems

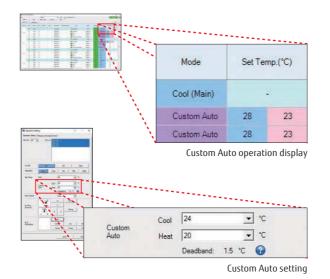
USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.
Suitable for large-scale buildings or hotels.



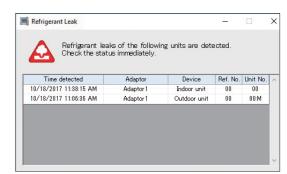
### System components



### **Custom Auto Function**



### Refrigerant leakage detect Function



Refrigerant leak alart display

### **Function summary**

	UTY-AMGXZ1
Interchangeability of equipment	•
Indication of equipment list	•
Operation control	•
Indication of refrigerant circuit diagram	•
Commissioning tool	•
Storage and CSV output of operating history (sensor data)	•
Indication of trend graph	•
Printing of trend graph	•
Monitoring and screen display of abnormalities	•
E-mail automatic transmission of abnormalities	•
Network Topology Analyzer	•
Remote Setting	•
System Time Setting	•
Central Release	•
Model Name Writer	=
Error Memory Reader	=
Time Guard Information	•
Automatic operation check for refrigeration cycle	=
Many different kinds of graph display	•
Automatic update of software	•
Custom Auto function	•
Display of individual louver control function	•
Display of human sensor control function	•
Refrigerant leakage detect function (Europe only)	•

### 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	<ul> <li>1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])</li> <li>2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])</li> </ul>	
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: Ethement port is required	
Software	Internet Explorer® 11 or Microsoft Edge	

#### <PACKING LIST>

VI ACKING 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





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