Distributed by :

FUJITSU GENERAL INDIA PRIVATE LIMITED

REGISTERED OFFICE: 1st Floor, 10/26, 80th Street,
18th Avenue Ashok Nagar, Chennai, Tamil Nadu 600 083

web: www.fujitsu-general.com/in/
e-mail: info@fujitsu-general.com
CIN - U31100TN2018FTC126102.

REGIONAL OFFICE: Delhi: 011 43127777, Fax: 011 43127733 | **Mumbai:** 022 42455300, 02, Fax: 022 42455305 | **Kolkata:** Telefax: 033 30662968.
BRANCH OFFICE: South: Bengaluru: 080 40926531, 6538 | **Kochi:** 0484 4011623, **North Kerala:** 96336 09603, **South & Central Kerala:** 97473 11662 | **Coimbatore:** 95667 84076, **Madurai:** 90922 47306 | **Hyderabad:** 040 66103530, 3531, **Vijayawada:** 0866 6460278, 3074029 | **North: Greater Punjab (Himachal Pradesh, J&K, Haryana, Chandigarh & Punjab:** 0172 5087288, 5087289, 5087290, **Lucknow:** 0522 4006879, **Ghaziabad:** 0120 4291121, **Jaipur:** 0141 4012684 | **West: Ahmedabad:** 079 27467991, 2891, 40058991, **Nagpur/Pune:** 98500 08908 | **Raipur:** 91085 51885 | **Bhubaneswar:** 98300 28670 **Indore & Bhopal :** 96441 73344 | **East: Patna:** 80837 20012, **Ranchi:** 80932 67008

ALL INDIA CUSTOMER CARE

/ fujitsu.general.india | General Air Conditioner Customer App

1860 2081 007 | customercare@fujitsu-general.com

WhatsApp: 6379 88 1007

GENERAL

Variable Refrigerant Flow System

AIRSTAGE™

HEAT PUMP

VRF CATALOGUE

FUJITSU GENERAL (INDIA) PRIVATE LIMTED

FUJITSU GENERAL Way

Our Mission

Living together for our future

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

Our Philosophy

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

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

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

CONTENTS

PRODUCT LINEUP

102384 General VRF All Product Catalogue 002-009 - size: A4 - 11|6|21 - Lokesh

OUR MESSAGE

for Comfort

for Control

Innovation & Globalization

for Future

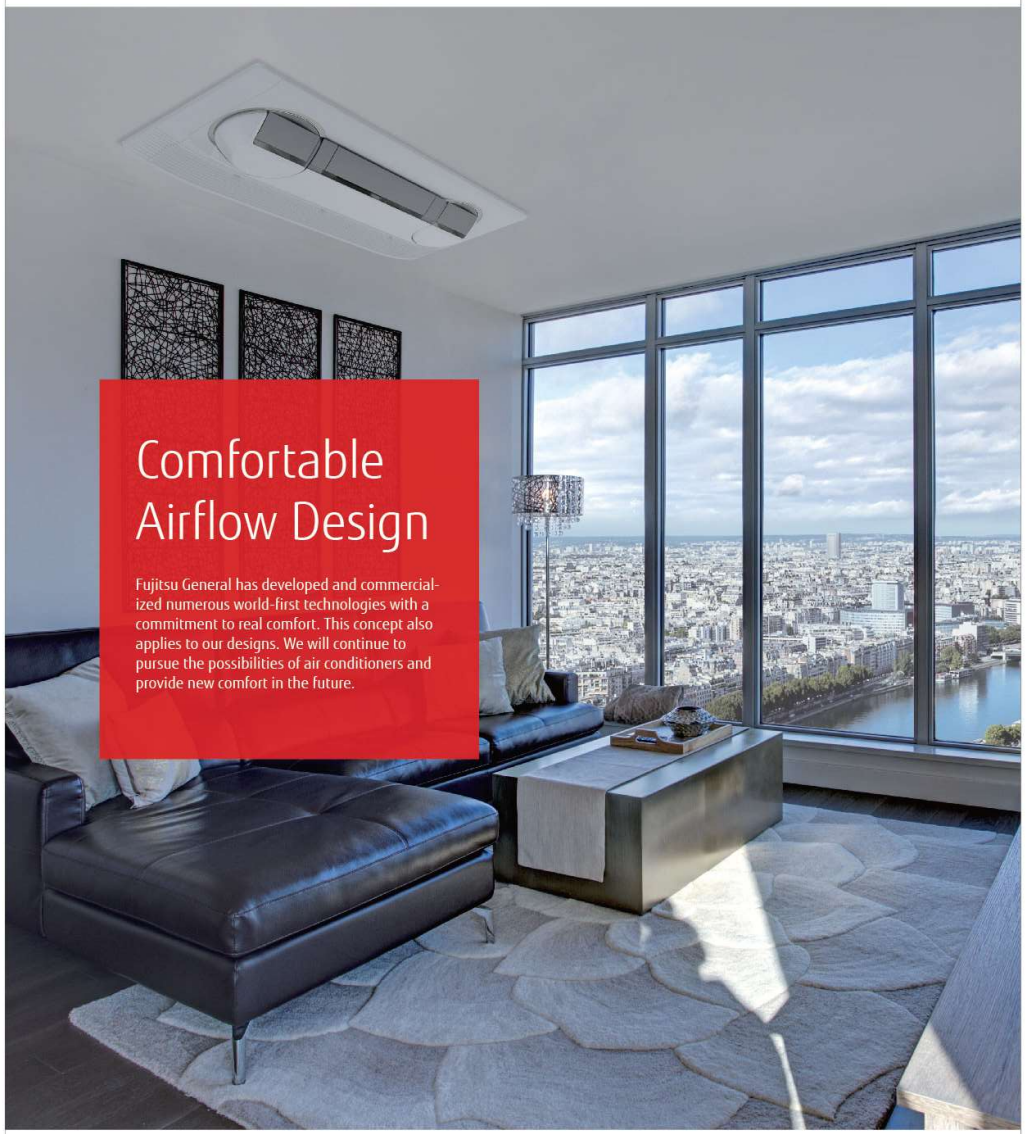
for Design

We create the comfort for the people all over the world by made-in-Japan quality and innovative manufacturing.

- History
- World Wide Locations
- Global Business Activities
- Project Reference
- Global Development & Production Bases
- High Quality Development & Production Facilities

102384 General VRF All Product Catalogue 002-009 - size: A4 - 11|6|21 - Lokesh

Comfort



Comfortable Airflow Design

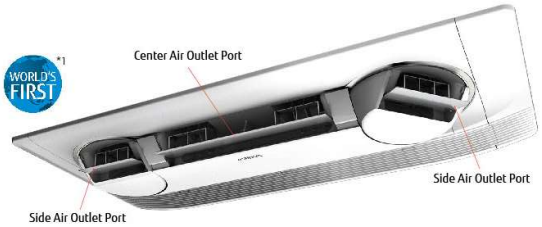
Fujitsu General has developed and commercialized numerous world-first technologies with a commitment to real comfort. This concept also applies to our designs. We will continue to pursue the possibilities of air conditioners and provide new comfort in the future.

3D Flow Cassette

3 Air Outlet Ports can be controlled individually

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

WORLD'S FIRST *1



Cassette Circular Flow

Unique Circular Flow design

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

NEW

One - way flow casette

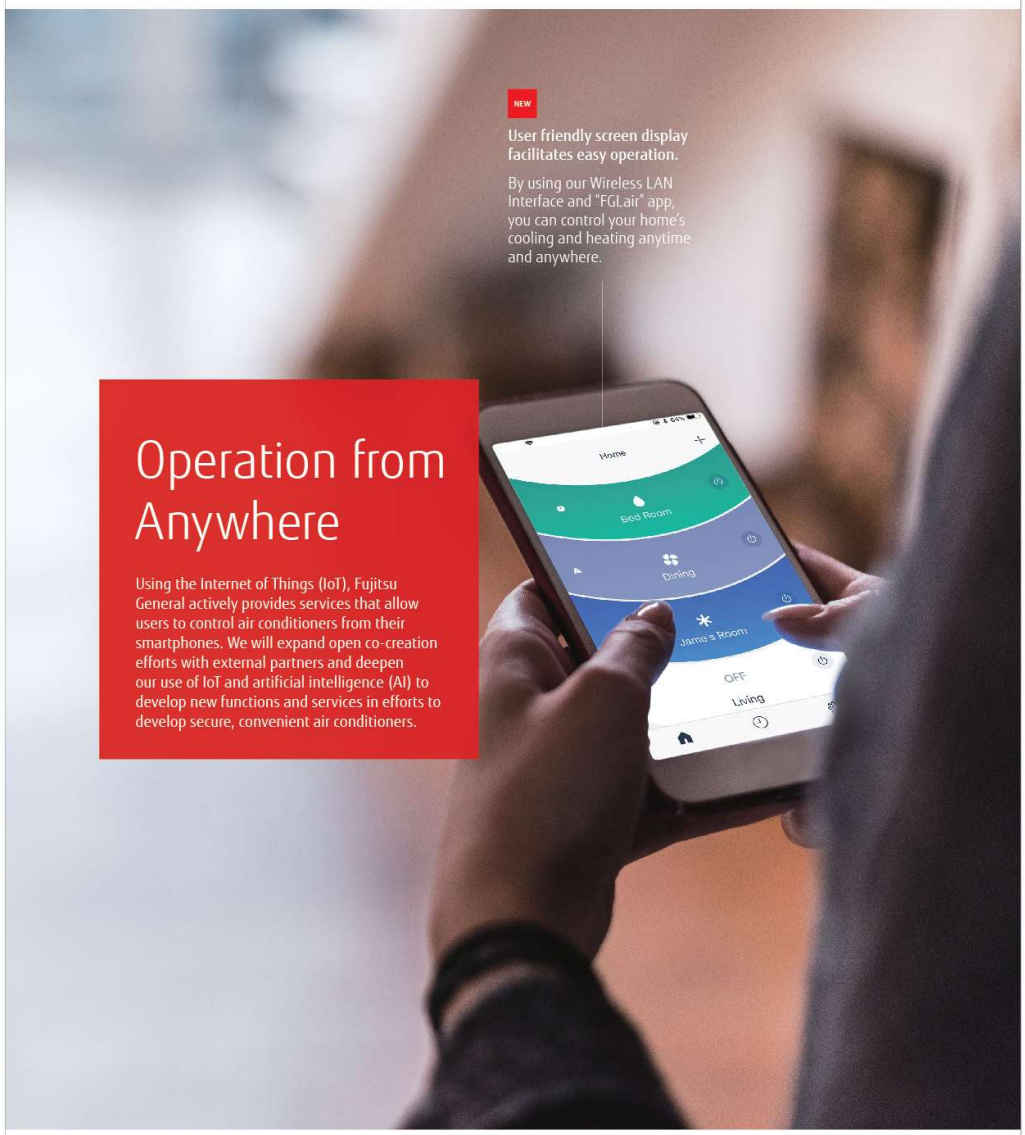
Their compact sizes make it easy to install them in a variety of commercial locations and environments.The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.

NEW

Compact Floor

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

Control

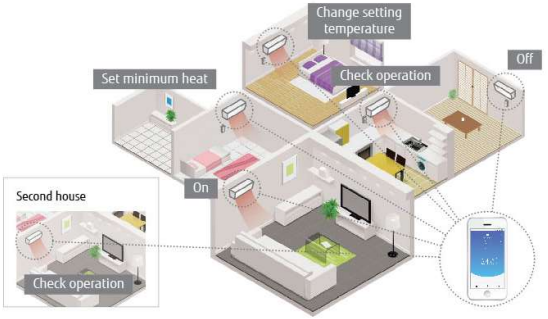


Operation from Anywhere

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

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

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



Wireless LAN Interface

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

+

FGLair

Download Free

Download on the App Store | Google play

New Compact Wired Remote Controller

Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

Central Remote Controller for VRF

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

Remote monitoring/ Remote operation

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

History 1936 Established as Yaou Shouten Ltd.

Overseas Air Conditioning Business since 1971

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

1971 Air conditioner exports to Middle East.

1977 "Super Power, Super Quiet" Series

1982 Window type 3 Super Series **AL/AX Series**

1985 Large wall mounted and multi air conditioner introduced.

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

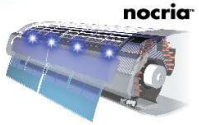
1994 Air conditioner with the world's first power diffuser

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

AIRSTAGE

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

nocria



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

AIRSTAGE J

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

AIRSTAGE V

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

2009 Air to Water system is released.

WATERSTAGE

1950 ~ | 1970 ~ | 2000 ~ | 2010 ~ | **2020** New Topic

Manufacturing Company Establishment

1955 Headquarters in Kawasaki

1964 Electronic components factory in Ichinoseki

1977 Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office.)

1991 Air conditioner manufacturing company in Thailand.

1994 Air conditioner manufacturing company in Shanghai, China.

1998 Air conditioner motor manufacturing company in Thailand.

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

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

2009 Operation of compressor factory begins in Thailand.

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

Fujitsu General (EURO) GmbH

Sales & Service Maintenance Company Establishment

1976 North America sales company

1977 Europe sales company (UK)

1978 Australia sales company / Europe sales company (Germany)

1980 Brazil sales company

1997 Asia sales company (Singapore)

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

2000 Air conditioner manufacturing and sale technical partnership in India

2002 Taiwan sales company

2006 China sales company

*1: Announced 1991. In room air conditioner for the home (our company's investigation) *2: Announced 1994. In room air conditioner for the home (our company's investigation)
*3: Announced 2002. In room air conditioner for the home (our company's investigation)

For Light Commercial

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

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

2016 Small VRF AIRSTAGE™ J-III that has advanced energy saving and easy installation is released.

2017-19 Small VRF AIRSTAGE™ J-IIIL suitable for diverse light commercial properties is released.

AIRSTAGE J-IIS

WORLD'S FIRST *4

2019 New cassette style released. 3D Flow Cassette

For Commercial

2012 Heat Recovery Modular type AIRSTAGE™ VR-II Max. 48 HP is released.

2014-15 Heat Pump Modular type AIRSTAGE™ V-III Max. 54 HP ideal for large properties is released

For Residential

2011 Hi-spec Design models LT Series & LU Series is released.

2017 Flagship Wall Mounted models nocria™ X is released.

2017-19 Environment-friendly new refrigerant R32 models are added.

(Split & Multi-split type)

WORLD'S FIRST *5

R32 KX Series nocria X

For Light Commercial

Small & lightweight outdoor unit AIRSTAGE™ J-IVL, J-IV, J-IVS outdoor units released.

AIRSTAGE J-IVL

AIRSTAGE J-IV

AIRSTAGE J-IVS

AIRSTAGE™ Air Handling unit released.

For Commercial

Heat pump type AIRSTAGE™ V-III Tropical Max. 54 HP is released.

AIRSTAGE V-III

For Residential

Ceiling

R32 KE Series Wall Mounted

Split Design models KE Designer Series, New Ceiling and Air to Water Comfort Series released.

WATERSTAGE

2012 Joint venture in Thailand to manufacture compressors

2016 Commercial use air conditioner R&D Center in Thailand

2016 THE AIRSTAGE on Broadway in New York

THE AIRSTAGE ON BROADWAY Fujitsu General Solution Center

2019 Construction of new building to strengthen development capabilities at Kawasaki head office:

Base to create new value by combining internal and external knowledge

2020 Construction of Manufacturing That Utilizes the IoT:

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information.

New Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2

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

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, America, and Japan)

JAPAN Head Office

New Technology Research Building (Japan)

15 Overseas Sales Companies


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


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


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


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


Fujitsu General (EURO) GmbH (Germany)


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


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


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.)

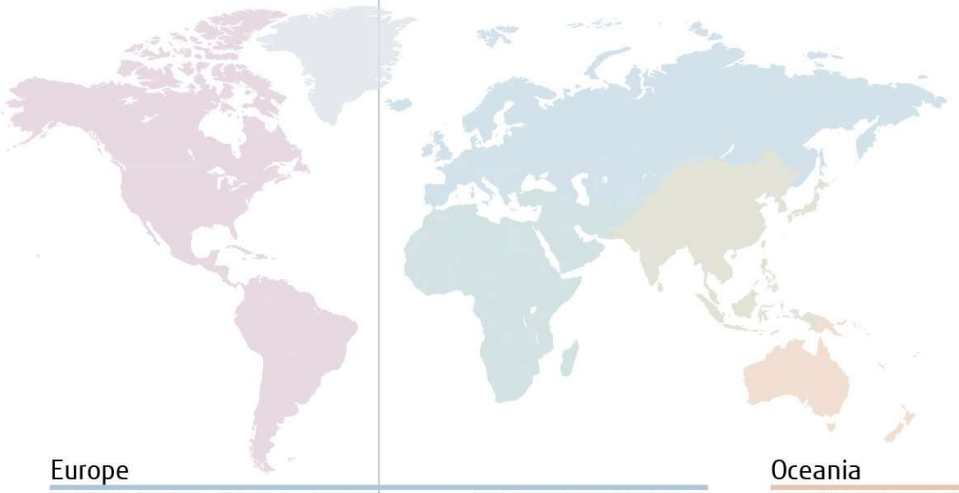

Fujitsu General Do Brasil Ltda.(Brasil)


Fujitsu General (India) Private Limited


Fujitsu General America, Inc. (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


AHR Expo


HVAC trade show in Brasil


Distributor meeting


Call center

Middle East


Exhibition


Dealer Convention in Kuwait


Technical seminar


Training for dealers

Europe


HVAC trade show in Europe countries


Presentation & training


HVAC trade show in Europe countries


ACR Show

Oceania


HVAC trade show in Australia


Charity (Christchurch)


Service & Maintenance

Asia

New Product Presentation Meeting


Dealer Convention in Thailand


Training


Call center

International authoritative design awards


"Dealer Design Awards" of "the NEWS"


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


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


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


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


reddot winner 2020

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


Coolworld Industry Awards "Most Efficient Air Conditioner"


Canstar Blue Most Satisfied Customers Award


China State Construction Engineering Luban Prize

GOOD DESIGN

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

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.

For Light Commercial

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

For Commercial

10 Office in Europe
11 Office in Europe
12 Office in Europe
13 Office in Asia
14 Hospital in Asia
15 Hotel in Asia
16 Hotel in Asia

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

For Residential

17 Residential in Europe
18 Residential in Europe
19 Residential in Oceania
20 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.

- Head Office
- R&D Center
- Manufacturing Companies

R&D Center & Technology Research Building

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

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

Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)


R&D Center in Fujitsu General (Shanghai)


JAPAN Head Office, R&D Center and 60 m Height Difference Testing Tower (Japan)

Technology Research Building
in Japan Head Office

Construction of Manufacturing That Utilizes the IoT

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information (e.g., the facility operating situation, production progress on assembly lines, and the inventory and transportation situation of parts). This will enhance the accuracy of production and shipping forecasts in the Head Office and Factory Management Department. In addition, we will also utilize this in the improvement activities of employees in production sites with the aim of improving the productivity efficiency, parts distribution efficiency and facility operating ratio.

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)


New Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2


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


Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)

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


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

High Quality Development
& Production Facilities

Advanced Research Facility and Equipment

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.

Performance Testing

Air Volume Measurement Room
Measure air volumes of the air conditioners from compact room air conditioner models to VRF.

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

Silent Room
Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.

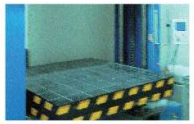
Reliability Testing

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

Practical Test Room
Check on whether the air conditioners performance under the actual house conditions is sustainable.

Shower Test Room
Check on whether the electrical box of the outdoor unit is protected by rain waters with Typhoon like wind.

Transportation & Handling



Compressibility testing

Vibration testing

Technology Research Building
in Japan Head Office

Testing Laboratory

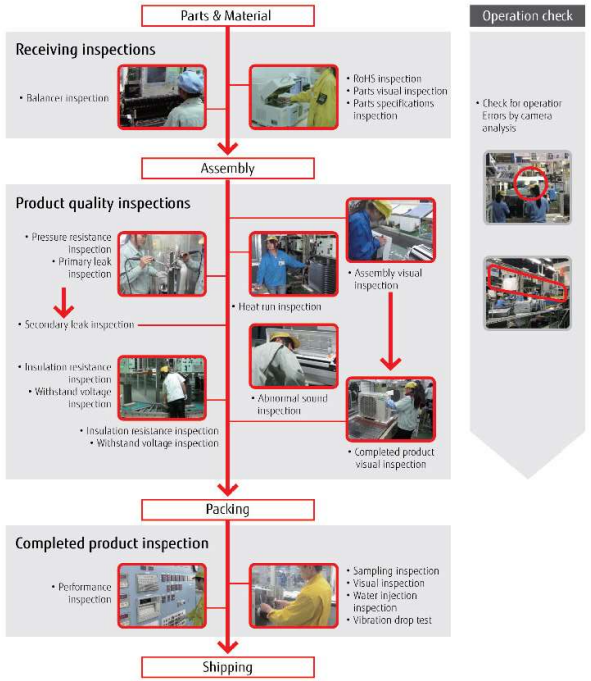
Fujitsu General EMC Laboratory Limited

60 m Height Difference Testing Tower
Objective is to confirm oil circulation of compressor for reliability

Acquisition of ISO 9001 and ISO 14001

Each of overseas production bases (5 companies) has completed the acquisition of ISO 9001 and ISO 14001 individually.
In 2012, overseas sales bases (11 companies) acquired the certification of ISO 14001.

High Product Quality Assurance



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.

AIRSTAGE™ J Series Overview

NEW **Max. 18 HP Heat Pump**

AIRSTAGE J-IVL

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

*: 18 HP model

Slim Outdoor Unit

Although the new 14/16/18 HP models that can handle slightly larger capacity requirements, they have a slim depth of 480 mm. These models can be introduced and installed even in limited spaces.

Small room application

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

Top Class Low Operating Sound

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

8-12 HP models

14/16/18 HP models

NEW **Max.6 HP Heat Pump, Compact Design**

AIRSTAGE J-IVS

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

Space saving and low sound level design

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

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

Due to compact size design and flexible piping design, J-IVS Series can be installed easily at a 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.

4/5/6 HP models

AIRSTAGE™ V Series Overview

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

NEW Max. 54 HP Heat Pump

AIRSTAGE V-III TROPICAL SPEC

Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 150%

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

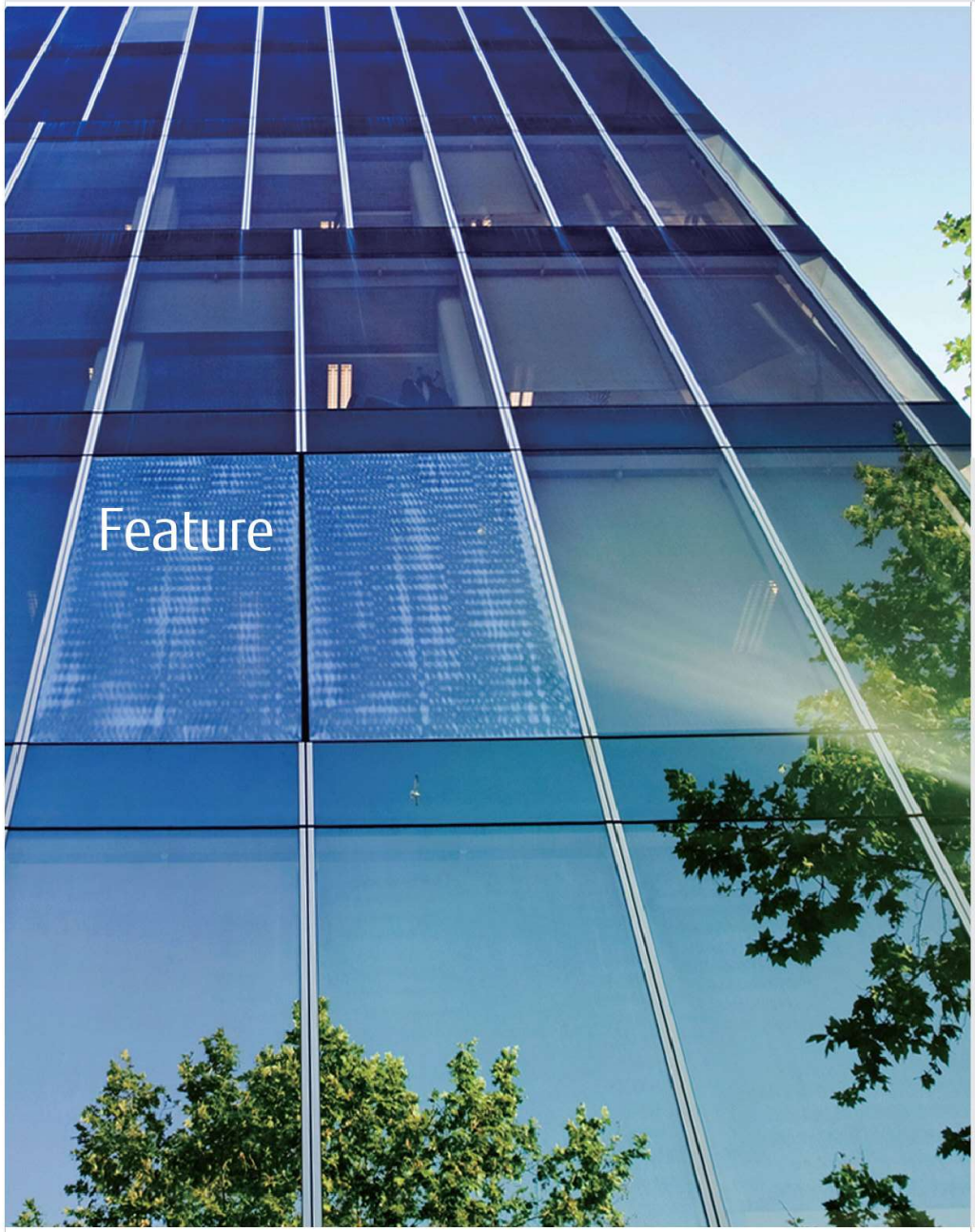
Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion

outdoor temperature Up to 52°C at Cooling

VRF Outdoor Units Lineup

Capacity (kW)	12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.0-50.4	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	140.0	145.0	150.0
HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
NEW J-IVL Series				AJH072 LELBH	AJH090 LELBH	AJH108 LELBH	AJH126 LELBH	AJH144 LELBH	AJH162 LELBH																		
NEW J-IVS Series	AJH040 LCLBH	AJH045 LCLBH	AJH054 LCLBH																								
NEW V-III Tropical Series Heat Pump — Space Saving — Set Model				AJH072 LNTCH	AJH090 LNTCH	AJH108 LNTCH	AJH126 LNTCH	AJH144 LNTCH	AJH162 LNTCH	AJH180 LNTCH	AJH198 LNTCH	AJH216 LNTCH	AJH234 LNTCH	AJH252 LNTCH	AJH270 LNTCH	AJH288 LNTCH	AJH306 LNTCH	AJH324 LNTCH	AJH342 LNTCH	AJH360 LNTCH	AJH378 LNTCH	AJH396 LNTCH	AJH414 LNTCH	AJH432 LNTCH	AJH450 LNTCH	AJH468 LNTCH	AJH486 LNTCH
V-III Tropical Series Heat Pump — Energy Efficiency — Set Model								AJH144 LNTCHH	AJH162 LNTCHH	AJH180 LNTCHH		AJH216 LNTCHH	AJH234 LNTCHH	AJH252 LNTCHH	AJH270 LNTCHH	AJH288 LNTCHH	AJH306 LNTCHH	AJH324 LNTCHH	AJH342 LNTCHH	AJH360 LNTCHH	AJH378 LNTCHH	AJH396 LNTCHH	AJH414 LNTCHH				

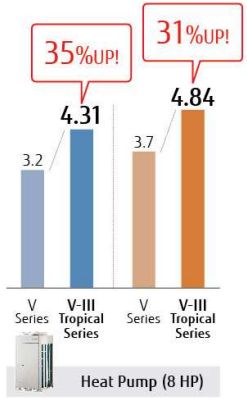


AIRSTAGE

High Efficiency

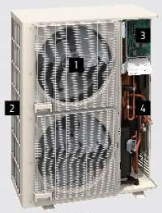
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger

DC twin rotary compressor



ALL DC **High efficiency design with top class SEER/SCOP**

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



J-IVL Series

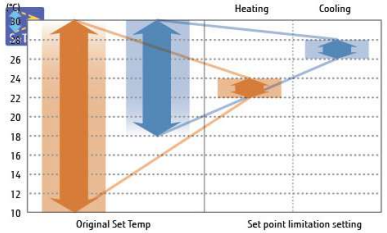
J-IVS Series

V Series

Operation Performance is Efficiently Controlled.

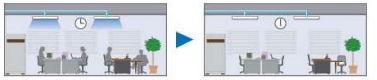
Room temperature set point limitation

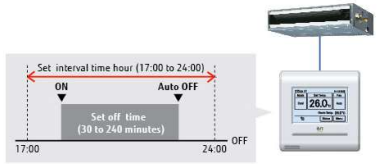
The minimum and maximum temperature ranges can be limited, which provides further energy saving while maintaining the comfort of the occupants.



Auto-off timer

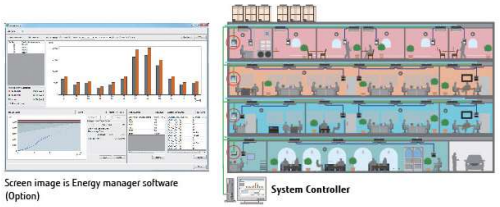
New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy. Furthermore a new wired remote controller can set up the interval of time in case operation stops.





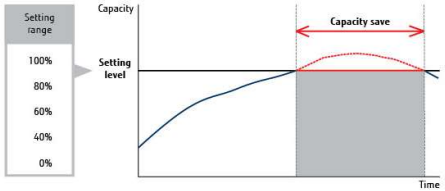
Energy saving management

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.



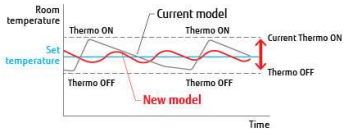
Capacity save operation

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



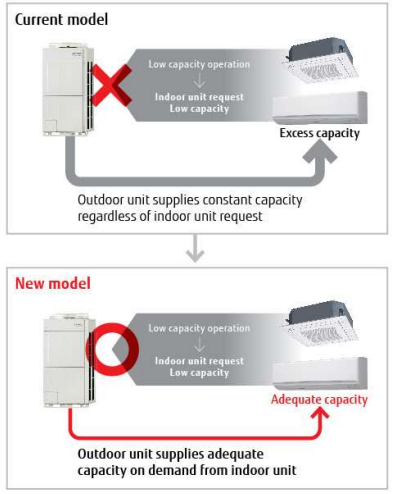
New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.

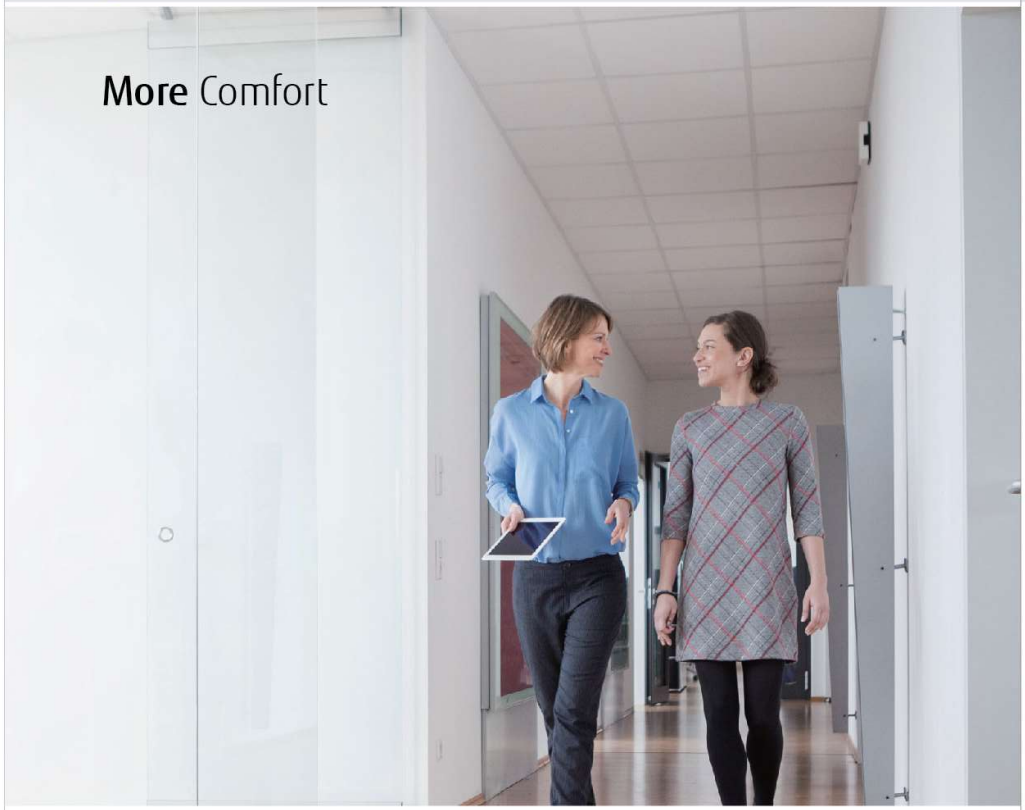


Current refrigerant control
Thermostat-ON/OFF occurs frequently.
→The comfort is not good since room temperature often changes. Energy saving is not good since compressor is repeated starting and stopping frequently.

New refrigerant control
Room temperature keep target temperature since thermostat-ON/OFF occurs less than Current control. Energy saving is good since compressor continues operation for a longer time than Current control.



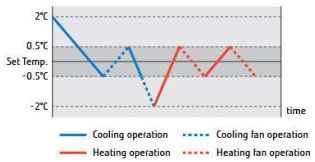
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.



More Comfort

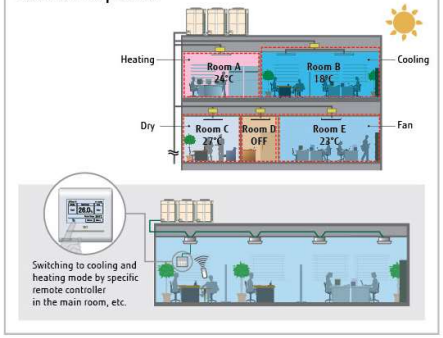
Auto changeover function

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



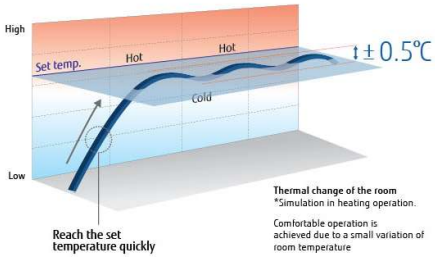
Auto changeover setting allows for the indoor unit to easily switch between cooling and heating regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.

Automatic cooling/heating operation for each room is possible



Precision refrigerant flow control

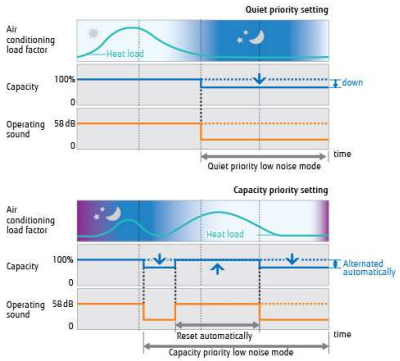
Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5℃.



Quiet operation

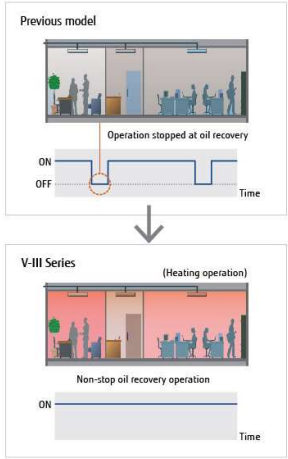
Quiet operation

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



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.



Low sound level design

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

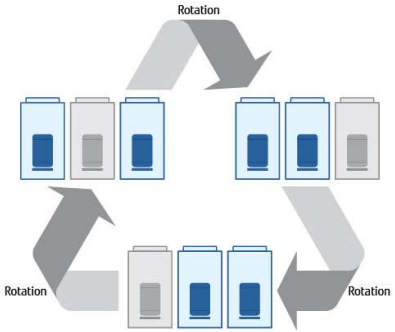
These models will be able to offer greater audibility comfort by operating at super low sound levels. Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.

Small capacity indoor unit

High Reliability

Outdoor unit rotational operation

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

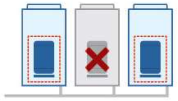


Note: Rotational operation is alternated by the start / stop timing of the compressor.

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.

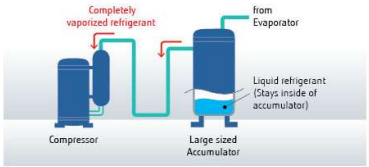


Advanced refrigerant control

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.

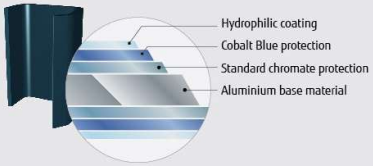
Liquid flow back protection

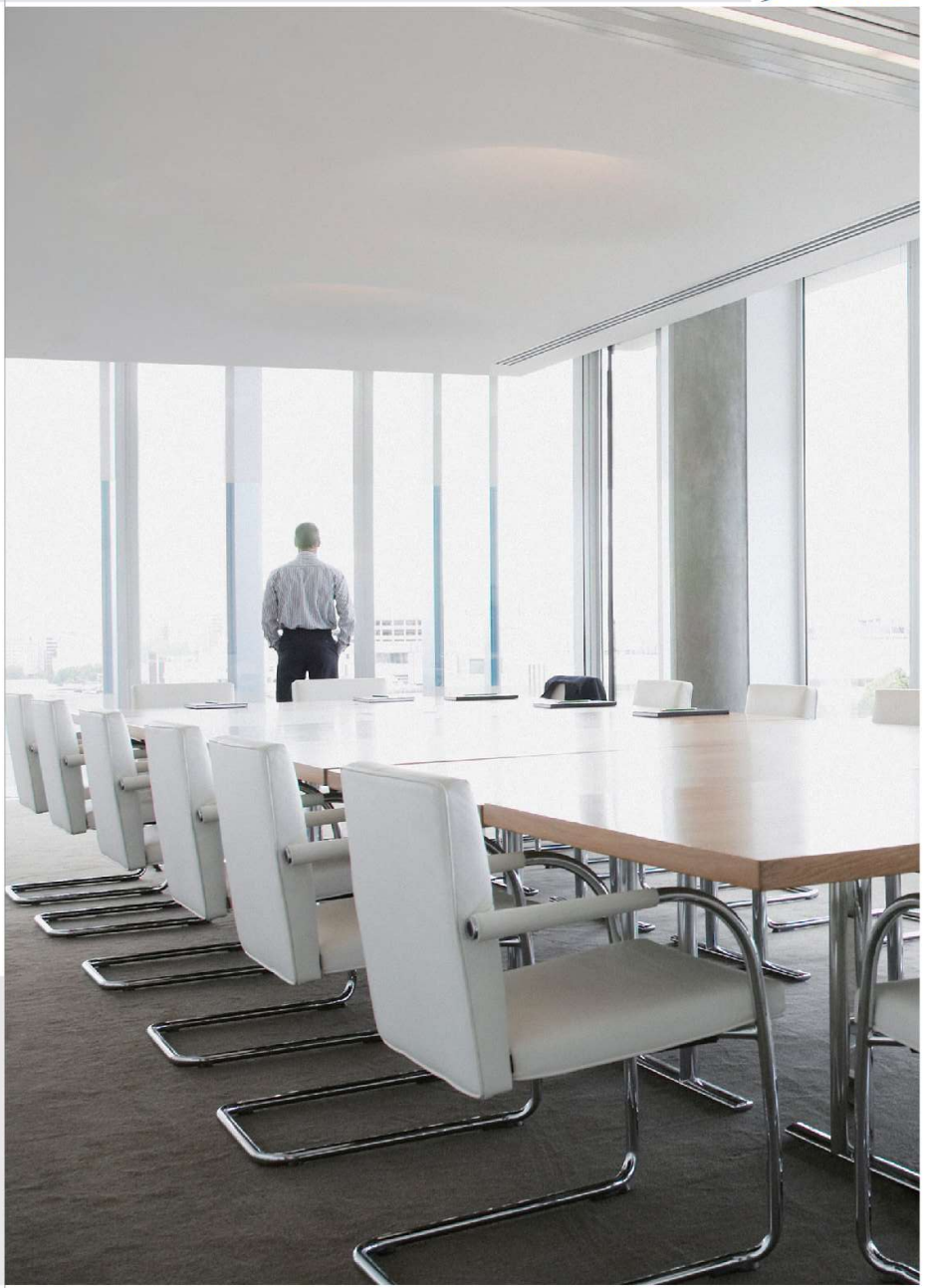
By adopting a large sized accumulator, not completely vaporised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.



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.





Design Flexibility

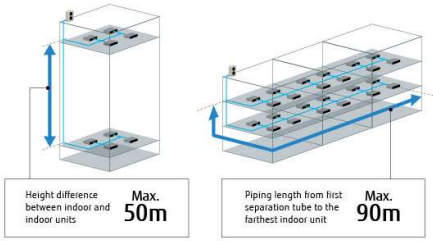
Top class Compact design

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

Long piping design

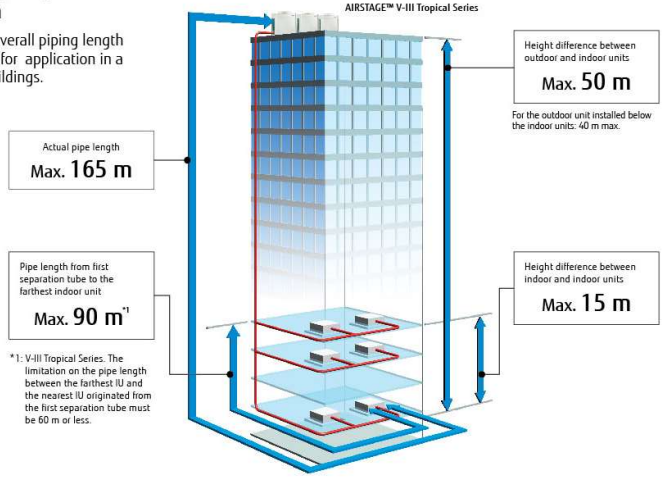
Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with high distance

(AIRSTAGE™ J-IVL Series)



Overall piping length Max. 1,000 m

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



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

High capacity connection

Series		Connectable indoor unit capacity range	Connectable indoor unit number
	AIRSTAGE™ J-IVL Series 14/16/18 HP Heat Pump type	50% to 150%*2	up to 42*4
	AIRSTAGE™ J-IVL Series 8/10/12 HP Heat Pump type	50% to 150%*2	up to 30*5
	AIRSTAGE™ J-IVS Series Heat Pump type	50% to 130%*2	up to 13
	AIRSTAGE™ V-III Tropical Series Heat Pump Modular type	50% to 150%*3	up to 64

*2: Conditions of maximum connectable indoor unit capacity ratio is as the chart.

*3: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

*4: J-IVL Series 18 HP model only.

*5: J-IVL Series 12 HP model only.

Designed for low refrigerant charge

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

Various optional parts

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

Low ambient operation

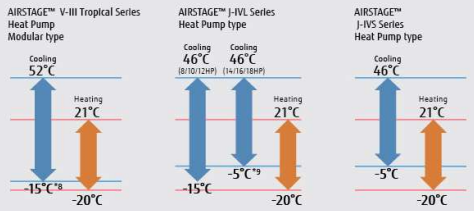
Refrigeration cycle technology allows cooling operation even at -15°C.

Wide operating range

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

*8: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

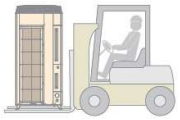
*9: Only when all indoor units are 5.6 kW or more in the system, the operation range is -15°C to 46°C.



Easy Installation

Easily transported

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

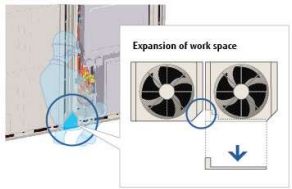


Transporting by forklift
Transport with forklift is possible.

Can be transported in a small lift

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.



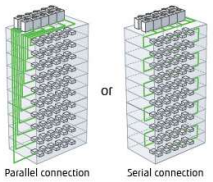
Reduced installation intervals by front access

Flexible piping connection

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

Simple wiring work

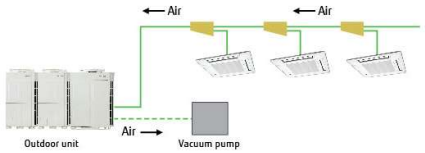
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.



Up to maximum length
3,600 m
Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

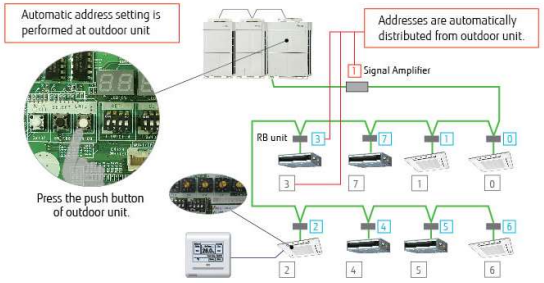
Easy evacuation - using vacuum mode function

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 through the automatic function setting on the outdoor unit PCB.



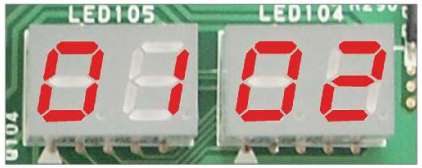
Easy commissioning by Service Tool

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.

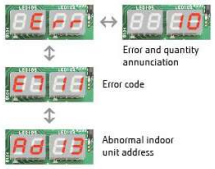


Easy to read 7-segment LED :

Confirm detailed operational and error status without using any specific equipment.

Error status can be checked easily by outdoor unit display

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

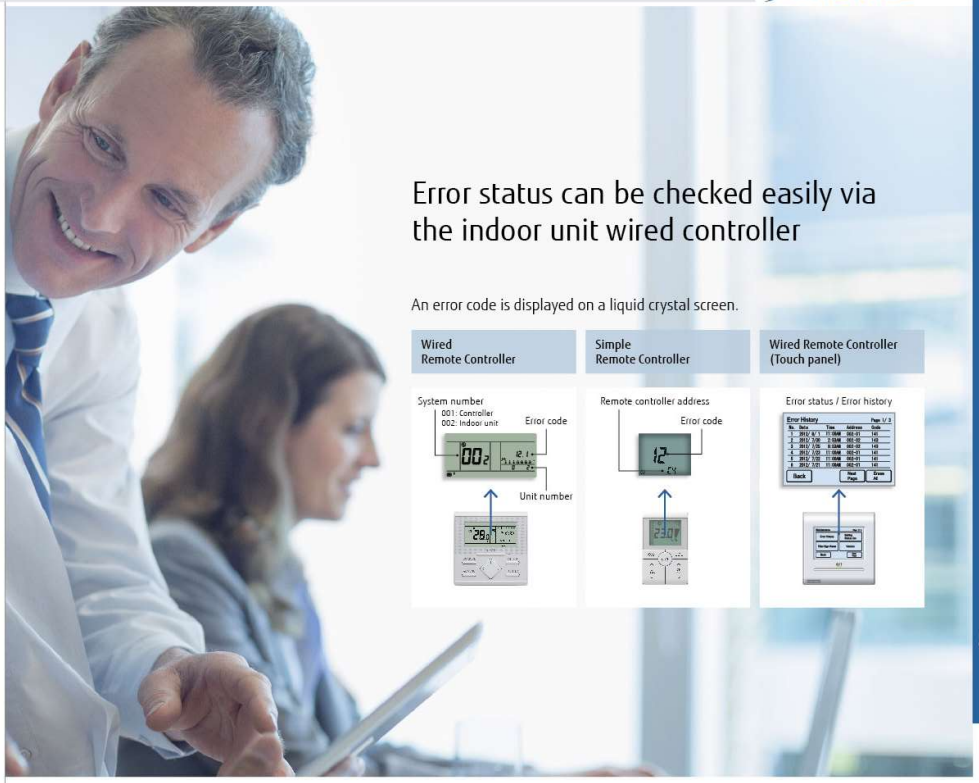


- Error status can be checked easily by outdoor unit display

Movable PCB panel

Easier for maintenance work behind the PCB

AIRSTAGE



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

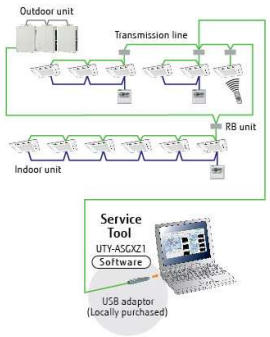
An error code is displayed on a liquid crystal screen.

Wired Remote Controller	Simple Remote Controller	Wired Remote Controller (Touch panel)

Error diagnosis by Service Tool

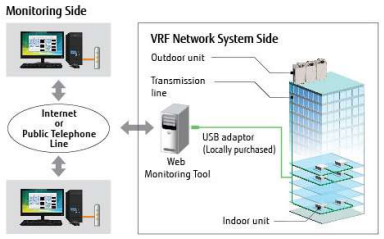
Connection to Service Tool

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



AIRSTAGE™ SERIES

The AIRSTAGE 3 Series has a total of 99 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.

HEAT PUMP TYPE AIRSTAGE J-IVL

HEAT PUMP TYPE AIRSTAGE J-IVS

HEAT PUMP TYPE AIRSTAGE V-III TROPICAL Series

AIRSTAGE™

102384 General VRF All Product Catalogue 040-051 - size: A4 - 11|6|21 - Lokesh

NEW

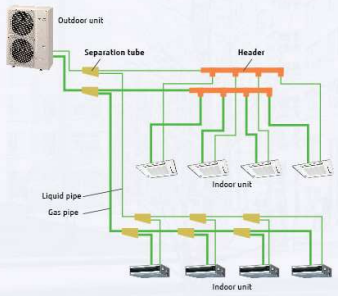
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVL

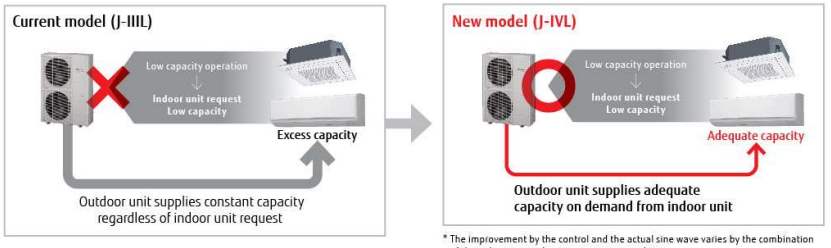
System configuration example

- 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.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.

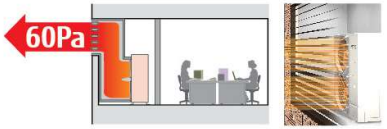


* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

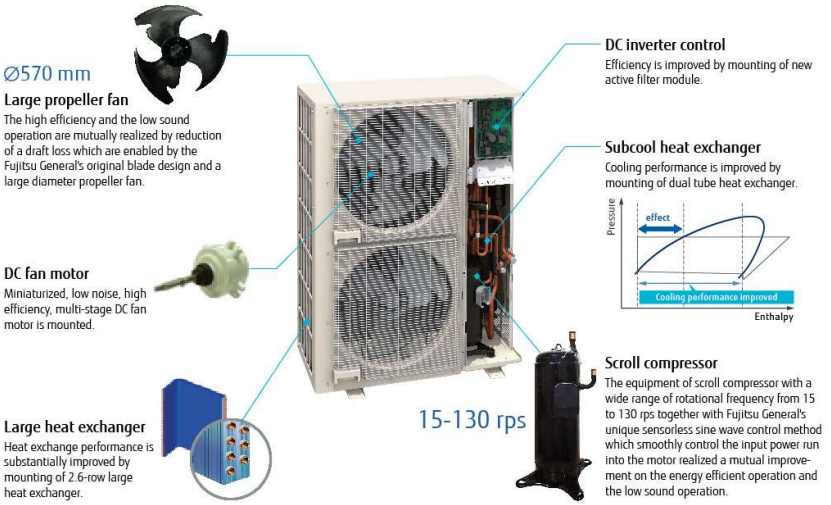
External static pressure

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

* Capacities are slightly decreased for rated values during high static pressure operation.

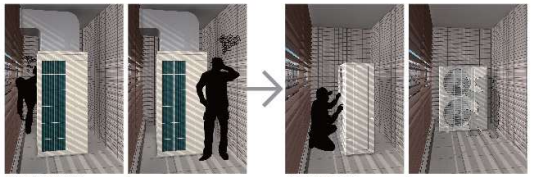


Advanced high efficiency technology



Slim & Compact Design

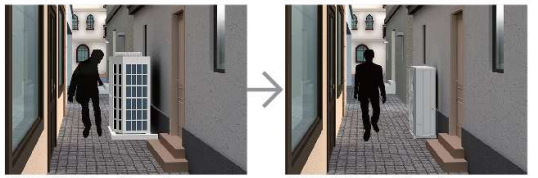
Various Installation



In house installation

Low noise in consideration for the nearby residents

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



Narrow space behind building

Space saving

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

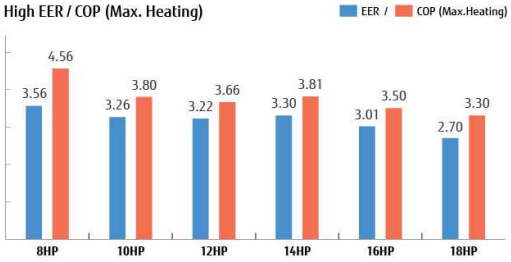
Installation at back street of building

Flexible installation

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

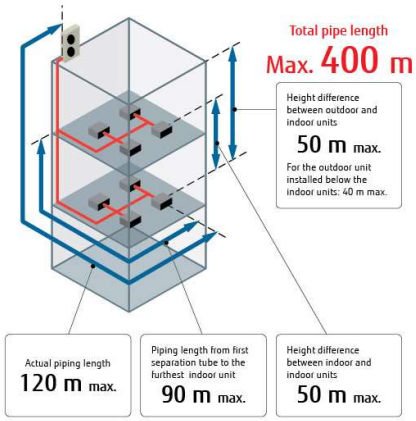
Efficiency in actual operation

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



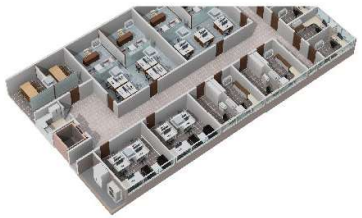
Long piping length

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



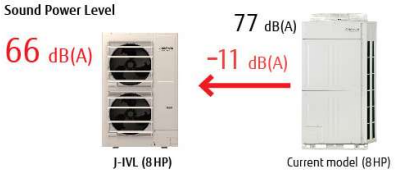
Up to 42 indoor units* can be connected

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. *: 18 HP model



Top Class Low Operating Sound

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



8,10,12 HP: AJH072LELBH / AJH090LELBH / AJH108LELBH
14,16,18 HP: AJH126LELBH / AJH144LELBH / AJH162LELBH

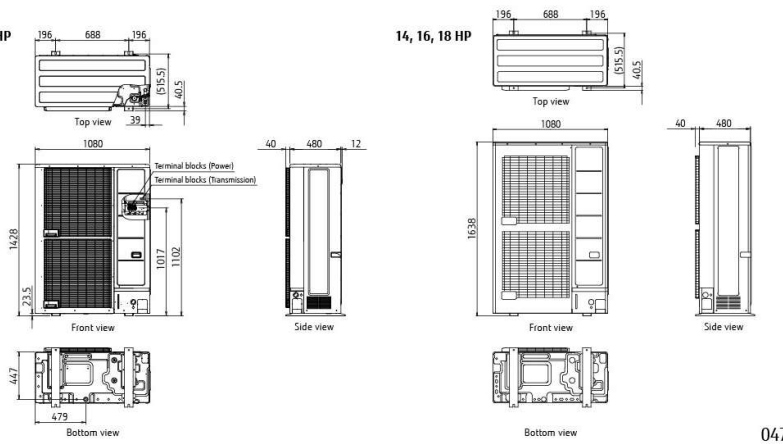
Specifications

Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJH072LELBH	AJH090LELBH	AJH108LELBH	AJH126LELBH	AJH144LELBH	AJH162LELBH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Max. Heating	kW	25.0	31.5	37.5	45.0	50.0	55.0
Airflow rate		m^3/h	8,400	9,000	11,000/12,100	13,000	14,000	14,800/15,300
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	65/79
	Heating	dB(A)	54/—	57/—	62/—	63/—	65/—	68/—
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width	mm	1,080	1,080	1,080	1,080	1,080	1,080
	Depth	mm	480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	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 pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas	mm	19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length		m	400	400	400	400	400	400
Max. height difference		m	50/40 (Outdoor unit: Upper/Lower)					
Operation range	Cooling	℃	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating	℃	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

Dimensions

(Unit : mm)



NEW

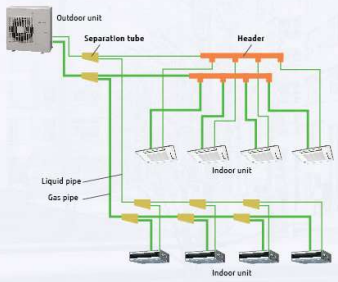
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVS

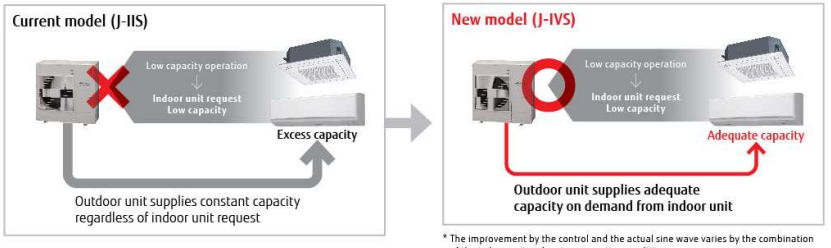
System configuration example

- 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.



New intelligent refrigerant control

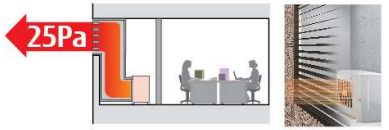
Fujitsu general proposes New outdoor unit which includes New refrigerant control.
New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



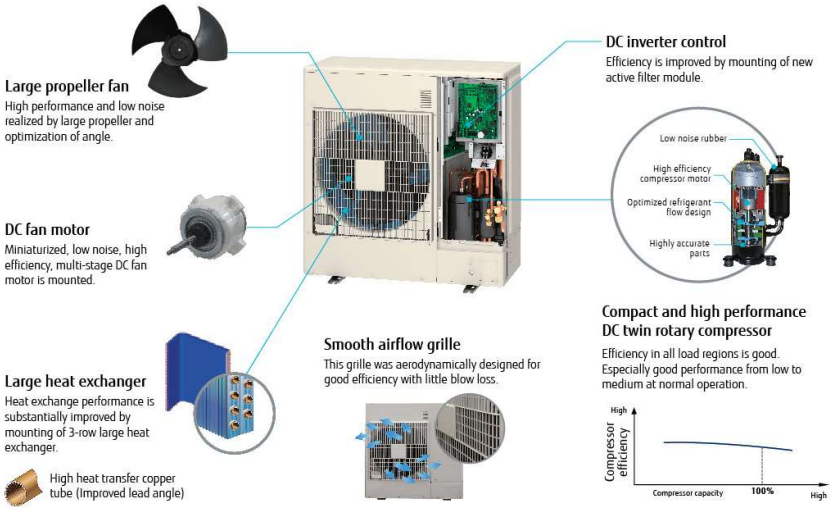
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 25Pa for 4/5/6HP.



Advanced high efficiency technology



It Can be Easily Carried and Installed

Small and light weight outdoor unit

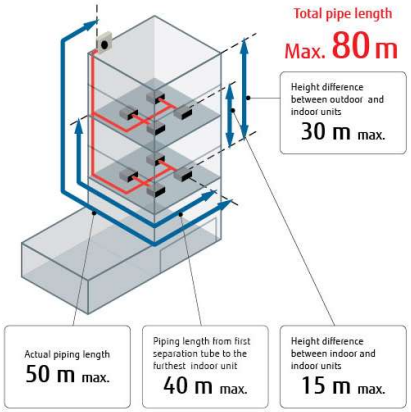
This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces

Low sound level design

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

Long piping length

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



Up to 13 units* can be connected

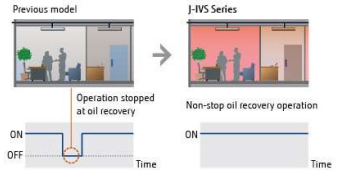
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

*: 6 HP model

Model	Current model (J-IIS)			New model (J-IVS)		
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable Indoor unit	1-7	1-8	1-8	1-11	1-12	1-13

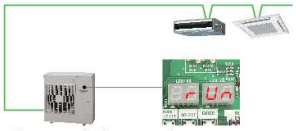
Non-stop oil recovery operation

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



Easier Installation

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



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

4,5,6HP : AJH040LCLBH / AJH045LCLBH / AJH054LCLBH

NEW

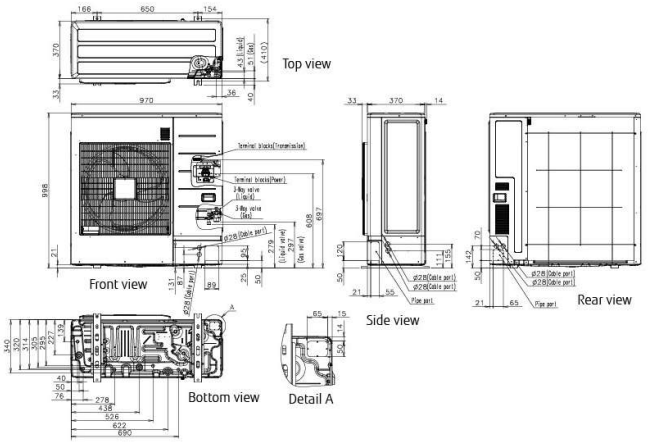
Specifications

Rating Capacity range		HP	4	5	6
Model name			AJH040LCLBH	AJH045LCLBH	AJH054LCLBH
Maximum Connectable Indoor Unit			1-11	1-12	1-13
Power source			Single phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Nominal Heating		12.1	14.0	15.1
	Max Heating		13.6	16.0	16.5
Airflow rate		m^3/h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	56 / 69	56 / 70
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

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

Dimensions

(Unit : mm)



HEAT PUMP TYPE

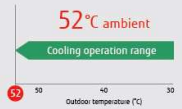
AIRSTAGE™ V-III TROPICAL SPEC

TROPICAL Series

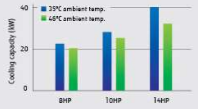
Fujitsu General tropical VRF is designed for tropical weather.
Extensive lineup from 8HP to 54HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%

System Outline

High ambient operation design
Possible to operate cooling up to 52°C outdoor temperature



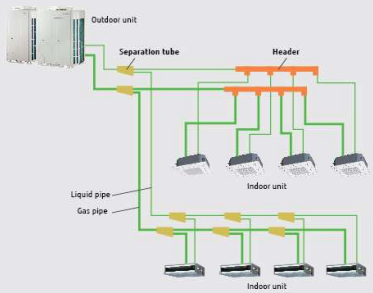
Powerful cooling capacity design
Keeping high cooling power at even high ambient temperature



Anti-corrosion treatment design
All metallic and PCB components are protected against corrosion

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.

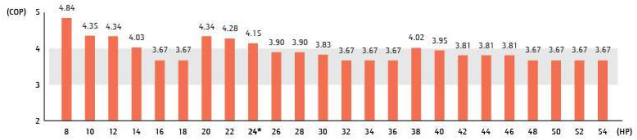


Features

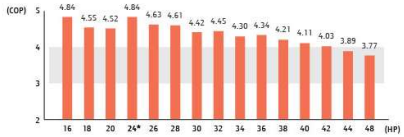
Energy efficiency

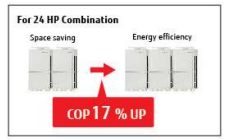
Top class high COP is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.

Space saving combination



Energy efficiency combination





Energy saving technology that boosted operation efficiency

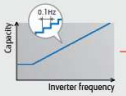
Powerful large propeller fan
By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.
*1. CFD = Computational Fluid Dynamics

All Inverter

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.

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

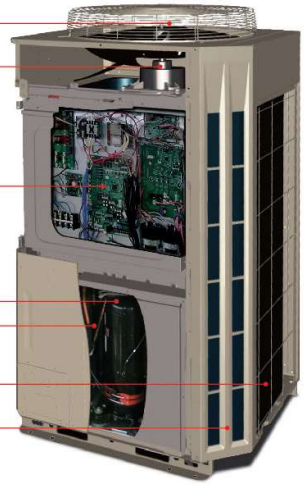
High efficient & Large capacity DC inverter compressor
Large capacity high efficient DC twin rotary compressor with 0.1Hz steps compressor speed control



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

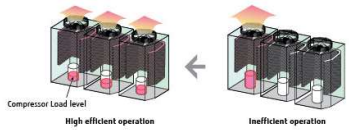
4-face heat exchanger
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

Front intake port (corner cut air inhaling structure)

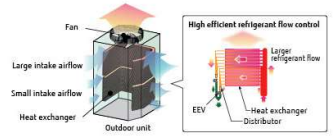


Advanced energy saving control

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



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



Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination

72,000Btu/h (8HP)	90,000Btu/h (10HP)	108,000Btu/h (12HP)	126,000Btu/h (14HP)	144,000Btu/h (16HP)
				
AJH072LNTCH UNIT : AJH072LNTCH	AJH090LNTCH UNIT : AJH090LNTCH	AJH108LNTCH UNIT : AJH108LNTCH	AJH126LNTCH UNIT : AJH126LNTCH	AJH144LNTCH UNIT : AJH144LNTCH
162,000Btu/h (18HP)	180,000Btu/h (20HP)	198,000Btu/h (22HP)	216,000Btu/h (24HP)	234,000Btu/h (26HP)
				
AJH162LNTCH UNIT : AJH162LNTCH	AJH180LNTCH UNIT : AJH090/090LNTCH	AJH198LNTCH UNIT : AJH126/072LNTCH	AJH216LNTCH UNIT : AJH126/090LNTCH	AJH234LNTCH UNIT : AJH144/090LNTCH
252,000Btu/h (28HP)	270,000Btu/h (30HP)	288,000Btu/h (32HP)	306,000Btu/h (34HP)	324,000Btu/h (36HP)
				
AJH252LNTCH UNIT : AJH162/090LNTCH	AJH270LNTCH UNIT : AJH144/126LNTCH	AJH288LNTCH UNIT : AJH144/144LNTCH	AJH306LNTCH UNIT : AJH162/144LNTCH	AJH324LNTCH UNIT : AJH162/162LNTCH
342,000Btu/h (38HP)	360,000Btu/h (40HP)	378,000Btu/h (42HP)	396,000Btu/h (44HP)	414,000Btu/h (46HP)
				
AJH342LNTCH UNIT : AJH162/090/090LNTCH	AJH360LNTCH UNIT : AJH144/126/090LNTCH	AJH378LNTCH UNIT : AJH144/144/090LNTCH	AJH396LNTCH UNIT : AJH162/144/090LNTCH	AJH414LNTCH UNIT : AJH162/162/090LNTCH
432,000Btu/h (48HP)	450,000Btu/h (50HP)	468,000Btu/h (52HP)	486,000Btu/h (54HP)	
				
AJH432LNTCH UNIT : AJH144/144/144LNTCH	AJH450LNTCH UNIT : AJH162/144/144LNTCH	AJH468LNTCH UNIT : AJH162/162/144LNTCH	AJH486LNTCH UNIT : AJH162/162/162LNTCH	

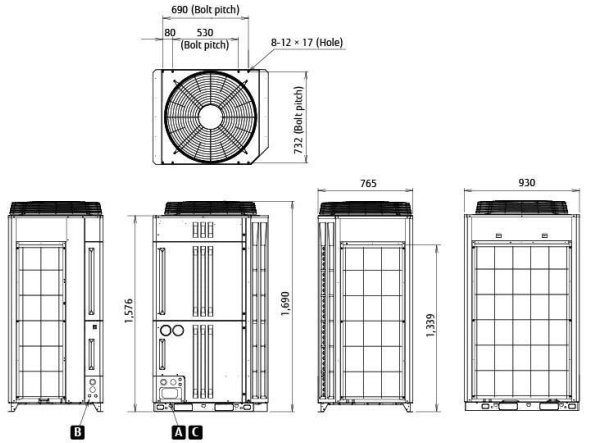
Energy efficiency combination

144,000Btu/h (16HP)	162,000Btu/h (18HP)	180,000Btu/h (20HP)	216,000Btu/h (24HP)	234,000Btu/h (26HP)
				
AJH144LNTCHH UNIT : AJH072/072LNTCH	AJH162LNTCHH UNIT : AJH090/072LNTCH	AJH180LNTCHH UNIT : AJH108/072LNTCH	AJH216LNTCHH UNIT : AJH072/072/072LNTCH	AJH234LNTCHH UNIT : AJH090/072/072LNTCH
252,000Btu/h (28HP)	270,000Btu/h (30HP)	288,000Btu/h (32HP)	306,000Btu/h (34HP)	324,000Btu/h (36HP)
				
AJH252LNTCHH UNIT : AJH108/072/072LNTCH	AJH270LNTCHH UNIT : AJH126/072/072LNTCH	AJH288LNTCHH UNIT : AJH108/108/072LNTCH	AJH306LNTCHH UNIT : AJH126/108/072LNTCH	AJH324LNTCHH UNIT : AJH108/108/108LNTCH
342,000Btu/h (38HP)	360,000Btu/h (40HP)	378,000Btu/h (42HP)	396,000Btu/h (44HP)	414,000Btu/h (46HP)
				
AJH342LNTCHH UNIT : AJH126/108/108LNTCH	AJH360LNTCHH UNIT : AJH126/126/108LNTCH	AJH378LNTCHH UNIT : AJH126/126/126LNTCH	AJH396LNTCHH UNIT : AJH144/126/126LNTCH	AJH414LNTCHH UNIT : AJH144/144/126LNTCH

AJH__LNTCH(H) : AJH__LNTCH(H), AJH__LNLBH(H)

Dimensions

8,10HP : AJH072LNTCH / AJH090LNTCH (Unit : mm)



12,14,16,18HP : AJH108LNTCH / AJH126LNTCH / AJH144LNTCH / AJH162LNTCH (Unit : mm)

VRF INDOOR UNITS

19 types and 99 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.

VRF Indoor Unit Lineup

Capacity range (kW)				1.1	2.2	2.8	3.6	4.0	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0
Class				4	7	9	12	14	14	18	24	30	34	36	45	54	60	72	90
Cassette	Compact type	Compact Grid type / Standard type	 NEW	AUXB 004 GLEH	AUXB 007 GLEH	AUXB 009 GLEH	AUXB 012 GLEH		AUXB 014 GLEH	AUXB 018 GLEH	AUXB 024 GLEH								
	Slim type	Circular Flow	 NEW			AUXN 009 GLAH*#5	AUXN 012 GLAH*#5		AUXN 014 GLAH*#5	AUXM 018 GLEH	AUXM 024 GLEH	AUXM 030 GLEH							
		4-way Flow								AUXD 18 GALH	AUXD 24 GALH								
	Large type	Circular Flow	 NEW							AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH			
		4-way Flow	 NEW							AUXA 18 GALH*2	AUXA 24 GALH*2	AUXA 30 GALH	AUXA 34 GALH	AUXA 36 GALH	AUXA 45 GALH	AUXA 54 GALH			
	One-way Flow type	One-way Flow	 004 - 012  014 - 024 NEW	AUXV 004 GLEH	AUXV 007 GLEH	AUXV 009 GLEH	AUXV 012 GLEH		AUXV 014 GLEH	AUXV 018 GLEH	AUXV 024 GLEH								
	3D Flow type	3D Flow								AUXS 018 GLEH	AUXS 024 GLEH								
Duct	Low Static Pressure Duct	Slim Duct (With drain pump)	 04 / 007 - 014  018  024	ARXD 04 GALH*2	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH								
		Low Static Pressure Duct	 07-45		ARXB 07 GALH	ARXB 09 GALH	ARXB 012 GALH		ARXB 14 GALH	ARXB 18 GALH	ARXB 24 GALH	ARXB 30 GALH		ARXB 36 GALH	ARXB 45 GALH				
	Medium Static Pressure Duct		 24-45								ARXA 24 GBTH	ARXA 30 GBTH		ARXA 36 GBTH	ARXA 45 GBTH				
	High Static Pressure Duct		 036 / 45 - 60  072 - 090											ARXC 36 GTEH	ARXC 45 GATH		ARXC 60 GATH*1	ARXC 72 GATH*1	ARXC 90 GATH*1
Floor		Floor (*Same as Ceiling models)					ABHA 012 GTEH		ABHA 014 GTEH	ABHA 018 GTEH	ABHA 024 GTEH								
		Slim Concealed Floor (*Same as Slim Duct models)	 04 / 007 - 014  018  024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH								
		Compact Floor	 NEW	AGHA 004 GCGH	AGHA 007 GCGH	AGHA 009 GCGH	AGHA 012 GCGH	AGHA 014 GCGH											
		Compact Floor (EEV external)	 NEW	AGHE 004 GCEH	AGHE 007 GCEH	AGHE 009 GCEH	AGHE 012 GCEH	AGHE 014 GCEH											
				With this model, connection of EV kit is necessary.															
Ceiling			 012 - 024  030 - 054				ABHA 012 GTEH		ABHA 014 GTEH	ABHA 018 GTEH	ABHA 024 GTEH	ABHA 030 GTEH		ABHA 036 GTEH	ABHA 045 GTEH	ABHA 054 GTEH			
Wall Mounted		Wall Mounted	 004 - 014  18 - 24  030 - 034	ASHA 004 GCGH	ASHA 007 GCGH	ASHA 009 GCGH	ASHA 012 GCGH	ASHA 014 GCGH		ASHA 18 GBCH	ASHA 24 GBCH	ASHA 030 GTEH	ASHA 034 GTEH						
		Wall Mounted (EEV external)	 004 - 014	ASHE 004 GCEH	ASHE 007 GCEH	ASHE 009 GCEH	ASHE 012 GCEH	ASHE 014 GCEH											
				With this model, connection of EV kit is necessary.															

*1: ARXC60/72/90G cannot be connected to J-IV Series.
*2: AUXA18/24GALH can be connected to V-III Tropical Series only.
*3: ARXD04GALH cannot be connected to J-IV5/J-IVL.
*4: AUXN009/012/014GALH can be connected to J-IV5 Series only
*5: Production by order
Specifications and design are subject to change without notice.

NEW

Cassette
One-way Flow type

DC FAN

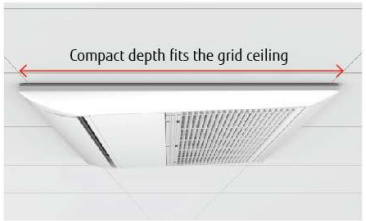
Compact chassis size

Their compact sizes make it easy to install them in a variety of commercial locations and environments.

- The chassis is less than 200 mm high in every model.
- All 4 to 12kBtu models are less than 1,000 mm wide.
- The chassis depth is 570 mm, which fits nicely into a grid-type ceiling.

Dimensions (Panel size) (Unit : mm)

	4	7	9	12	14	18	24
H	198 (43)				198 (43)		
W	785 (950)				1,190 (1,360)		
D	570 (620)				570 (620)		



Wide airflow range

The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.

In cooling mode, the horizontal airflow reaches the furthest corners of the room and avoids hitting human bodies directly in order to provide comfortable air conditioning.

In heating mode, the warm air is directed downward toward the floor to warm the occupants' feet and lower bodies while keeping their heads relatively cool.

Note: This is a conceptual drawing. Air conditioning performance may vary depending on installation, room size, and the distance from the wall.

Low noise operation

They produce little noise during operation, which makes them an ideal choice for use in hotel rooms.

AIRSTAGE

Model : AUXV004GLEH / AUXV007GLEH / AUXV009GLEH
AUXV012GLEH / AUXV014GLEH / AUXV018GLEH
AUXV024GLEH

AUXV004/007/009/012GLEH

AUXV014/018/024GLEH

Specifications

Model name			AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	30/30	42/42	42/42	60/60	38/38	56/56	99/99
Airflow rate*	High	m^3/h	460	550	550	670	720	890	1,150
	Med-H		440	440	440	520	660	840	1,020
	Med		420	420	420	480	630	770	940
	Med-L		400	400	400	450	600	710	790
	Low		380	380	380	410	580	660	700
	Quiet		360	360	360	360	550	580	610
Sound pressure level*	High	dB(A)	38	42	42	45	37	44	49
	Med-H		37	37	37	41	36	43	47
	Med		36	36	36	39	35	40	45
	Med-L		35	35	35	38	34	38	42
	Low		33	33	33	36	33	36	39
	Quiet		32	32	32	32	32	34	36
Net Dimensions (H × W × D)		mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570
Weight		kg(lbs)	18 (40)	19 (42)	19 (42)	19 (42)	26 (57)	26 (57)	27 (59)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UNGA-W				UTG-UNGB-W		
	Net Dimensions (H×W×D)	mm	43 × 950× 620				43 × 1,360 × 620		
	Weight	kg(lbs)	6.5 (14.5)				8.5 (18.0)		

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 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

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

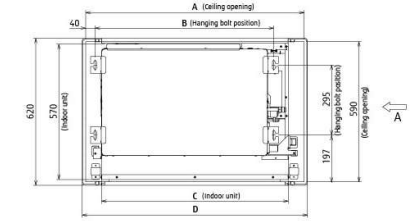
Flexible Installation

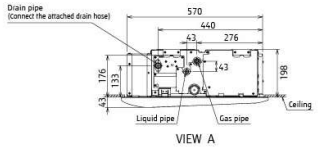
By using new L-type piping kit, more flexible installation is possible.

Built-in drain pump as standard accessory, which enable to have maximum 700m piping height difference from the ceiling.

Dimensions

(Unit : mm)





VIEW A

	AUXV004-012	AUXV014-024
A	920	1,330
B	752	1,152
C	785	1,190
D	950	1,360

3D Flow Cassette

DC FAN

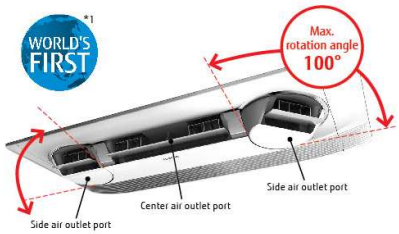
3 Air Outlet Ports can be controlled individually

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

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

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

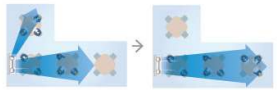
Heating: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



*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.



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

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

Wired Remote Controller (Touch Panel)
UTY-RNRGZ3

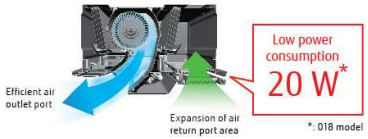
Individual air outlet port control

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

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

High Energy Saving

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



*: 018 model

AIRSTAGE

Model : AUXS018GLEH / AUXS024GLEH

Specifications

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.60	7.10
	Heating		6.30	8.00
Input power		W	20/28	34/43
Airflow rate*	High	m³/h	750/870	950/1,040
	Med-H		710/830	890/990
	Med		690/780	860/930
	Med-L		660/740	810/880
	Low		630/700	770/840
	Quiet		540/540	540/540
Sound pressure level*	High	dB(A)	38/41	43/46
	Med-H		36/40	42/45
	Med		35/39	41/43
	Med-L		35/37	40/42
	Low		33/36	38/40
	Quiet		29/29	29/29
Net Dimensions (H × W × D)		mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg(lbs)	25 (55)	25 (55)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52
	Gas (Flare)		12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-USGA-W	
	Net Dimensions (H×W×D)	mm	85 × 1,350 × 580	
	Weight	kg(lbs)	11.5 (25)	

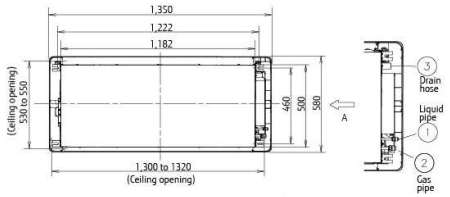
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

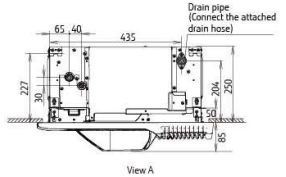
Optional parts

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

Dimensions

(Unit : mm)





View A

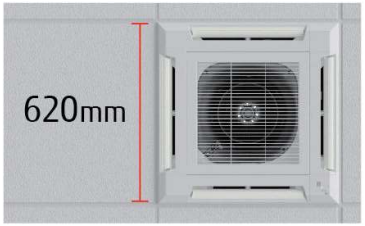
Compact Cassette

Grid type

DC FAN

Compact and stylish panel design

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



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.

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.

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 from floor to ceiling (m)	
	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

Model : AUXB004GLEH / AUXB007GLEH / AUXB009GLEH
AUXB012GLEH / AUXB014GLEH / AUXB018GLEH
AUXB024GLEH

Specifications

Model name			AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	23	25	25	29	35	36	84
Airflow rate	High	m^3/h	530/530	540	550	600	680	710	1,030
	Med-H		490/480	500	520	560	620	660	910
	Med		450/430	460	480	520	560	590	790
	Med-L		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
Sound pressure level	High	dB(A)	34/34	34	35	37	38	41	50
	Med-H		32/31	32	33	34	37	39	46
	Med		30/29	30	31	33	34	36	43
	Med-L		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
Net 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(lbs)	14.5 (32)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UFGE-W / UTG-UFGC-W						
	Net Dimensions (H×W×D)	mm	50 × 620 × 620 / 50 × 700 × 700						
	Weight	kg(lbs)	2.3(5.1) / 2.6(6)						

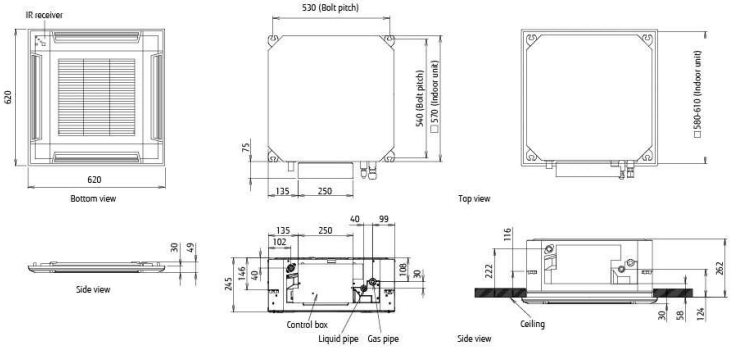
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

Air Outlet Shutter Plate:	UTR-YDZB	Casette Grille:	UTG-UFGC-W, UTG-UFGE-W
Flesh Air Intake Kit:	UTZ-VXAA	External Power Supply Unit:	UTZ-GXXA
Insulation Kit for High Humidity:	UTZ-KXGC	Wireless LAN Interface:	UTY-TFSXZ1

Dimensions

(Unit : mm)

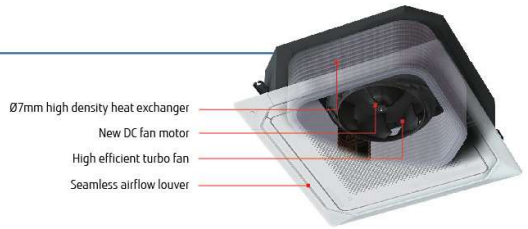


Cassette Slim type
Circular Flow

DC FAN

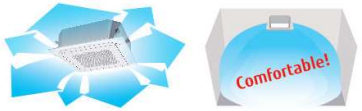
Unique Circular Flow design

New Cassette type achieves a Circular airflow discharge in 360° direction by means of a 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-RNRGZ3) only

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

Efficient air conditioning based on the room layout

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-RNRGZ3) only

Human sensor (Option)

2 modes can be selected

Auto saving	Power is saved while people are away.
Auto OFF	Operation stops after people go out.

Model : AUXN009GLAH* / AUXN012GLAH* / AUXN014GLAH* * AUXN**GLAH: Production by order
AUXM018GLEH / AUXM024GLEH / AUXM030GLEH

Specifications

Model name			AUXN009GLAH*	AUXN012GLAH*	AUXN014GLAH*	AUXM018GLEH	AUXM024GLEH	AUXM030GLEH
Power source			Single phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1	9.0
	Heating		3.2	4.0	5.0	6.3	8.0	10.0
Input power		W	20	20	20	20	25	49
Airflow rate	High	m^3/h	1,050	1,050	1,050	1,050	1,120	1,470
	Med-H		930	930	930	930	1,050	1,160
	Med		900	900	900	900	930	1,070
	Med-L		870	870	870	870	900	930
	Low		810	810	810	810	870	900
	Quiet		780	780	780	780	780	780
Sound pressure level	High	dB(A)	33	33	33	33	35	40
	Med-H		32	32	32	32	33	36
	Med		31	31	31	31	32	34
	Med-L		30	30	30	30	31	32
	Low		29	29	29	29	30	31
	Quiet		28	28	28	28	28	28
Dimensions (H × W × D)		mm	246×840×840					
Weight		kg(lbs)	24.5 (54)	24.5 (54)	24.5 (54)	24.0 (53)	24.5 (54)	24.5 (54)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille	Model name		UTG-UKGC-W / UTG-UKGA-B					
	Dimensions (H×W×D)	mm	53×950×950					
	Weight	kg(lbs)	6.0 (13)					

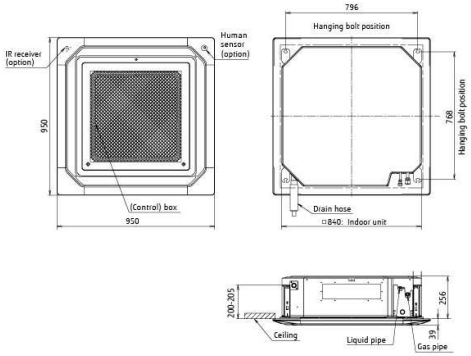
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.
*: AUXN009/012/014GLAH can be connected to J-IV5 Series only.

Optional parts

Human Sensor Kit:	UTY-5HZXC	Fresh Air Intake Kit:	UTZ-VXRA	Casette Grille:	UTG-UKGC-W, UTG-UKGA-B	Wireless LAN Interface:	UTY-TFSXZ1
Wide Panel:	UTG-AKXA-W	Air Outlet Shutter Plate:	UTR-YDZK	External Power Supply Unit:	UTZ-GXXA		
Panel Spacer:	UTG-BKXA-W	Insulation Kit for High Humidity:	UTZ-KXRA	IR Receiver Unit:	UTY-LBHXD		

Dimensions

(Unit : mm)

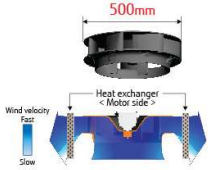


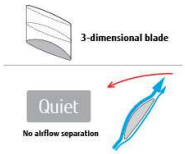
Cassette
Slim type
4-way Flow

DC FAN

High efficiency turbo fan with 3-dimensional blade

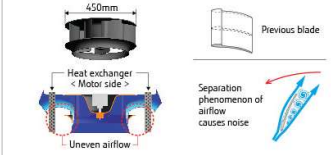
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.





Previous turbo fan

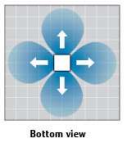
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

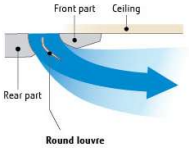


: Spin direction : Airflow direction : Turbulent flow noise

Improvement of the airflow distribution

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

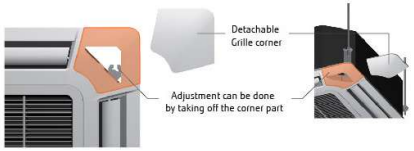

Bottom view



Round louvre


Much less temperature irregularity happens by spreading airflow widely

Adjustment of hanger position is possible after installation



High ceiling mode

This cassette can be installed up to a height of 3.5m.

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.0	3.5
24	3.0	3.5

Model : AUXD18GALH / AUXD24GALH

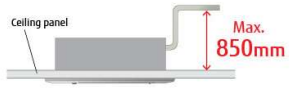
Specifications

Model name			AUXD18GALH	AUXD24GALH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1
	Heating		6.3	8.0
Input power		W	39	46
Airflow rate	High	m^3/h	1,150 (319)	1,280 (356)
	Med		940 (261)	1,040 (289)
	Low		870 (242)	870 (242)
Sound pressure level	High	dB(A)	36	38
	Med		30	33
	Low		29	29
Net Dimensions (H × W × D)		mm	246 × 840 × 840	246 × 840 × 840
Weight		kg(lbs)	22 (49)	22 (49)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)		15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-UGGA-W	
	Net Dimensions (H×W×D)	mm	50 × 950 × 950	
	Weight	kg(lbs)	5.5 (12)	

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].

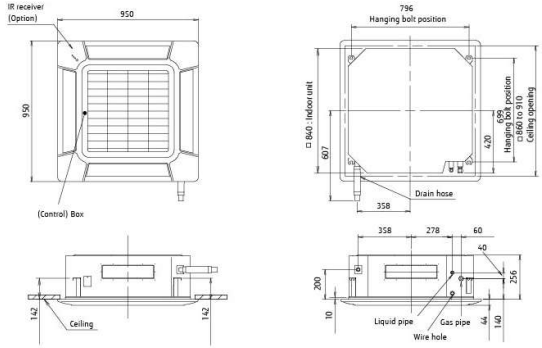
Optional parts

IR receiver unit:	UTY-LRHGB1
Air outlet shutter plate:	UTR-YDZC
Panel spacer:	UTG-BGYA-W
Insulation kit for high humidity:	UTZ-KXGB
Wide panel:	UTG-AGYA-W
Fresh air intake kit:	UTZ-VXGA
Cassette Grille:	UTG-UGGA-W
Wireless LAN Interface:	UTY-TFSXZ1



Dimensions

(Unit : mm)

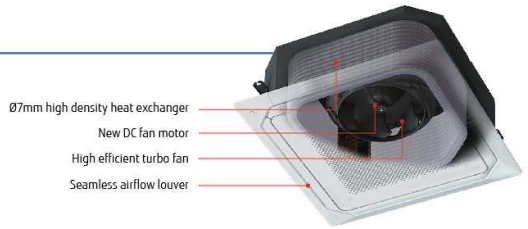


Cassette
Large type
Circular Flow

DC FAN

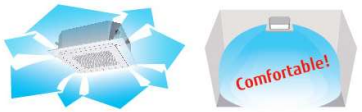
Unique Circular Flow design

New Cassette type achieves a Circular airflow discharge in 360° direction by means of a 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-RNRGZ3) only

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

Efficient air conditioning based on the room layout

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-RNRGZ3) only

Human sensor (Option)

2 modes can be selected

Auto saving	Power is saved while people are away.
Auto OFF	Operation stops after people go out.

Model : AUXK018GLEH / AUXK024GLEH / AUXK030GLEH
AUXK034GLEH / AUXK036GLEH / AUXK045GLEH
AUXK054GLEH

Specifications

Model name			AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	40	40	47	47	61	89	116
Airflow rate	High	m^3/h	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-H		1,360	1,360	1,400	1,400	1,500	1,590	1,800
	Med		1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-L		1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB(A)	38	38	39	39	41	44	47
	Med-H		37	37	38	38	40	42	45
	Med		36	36	37	37	38	40	42
	Med-L		35	35	36	36	37	38	39
	Low		34	34	35	35	36	36	36
	Quiet		33	33	33	33	33	33	33
Dimensions (H × W × D)		mm	288 × 840 × 840						
Weight		kg(lbs)	26.5 (58)	26.5 (58)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UKGC-W / UTG-UKGA-B						
	Dimensions (H×W×D)	mm	53×950×950						
	Weight	kg(lbs)	6.0 (13)						

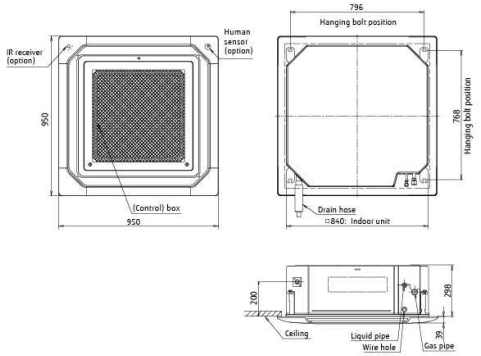
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

Optional parts

Human Sensor Kit:	UTY-SHZXC	Fresh Air Intake Kit:	UTZ-VXRA	Casette Grille:	UTG-UKGC-W, UTG-UKGA-B	Wireless LAN Interface:	UTY-TFSXZ1
Wide Panel:	UTG-AKXA-W	Air Outlet Shutter Plate:	UTR-YDZK	External Power Supply Unit:	UTZ-GXXA		
Panel Spacer:	UTG-BKXA-W	Insulation Kit for High Humidity:	UTZ-KXRA	IR Receiver Unit:	UTY-LBHXD		

Dimensions

(Unit : mm)

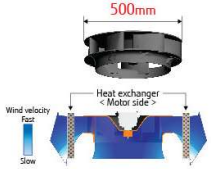


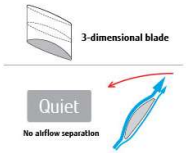
Cassette
Large type
4-way Flow

DC FAN

High efficiency turbo fan with 3-dimensional blade

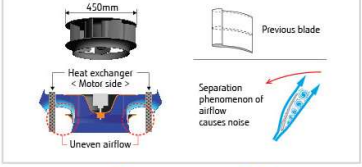
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.





Previous turbo fan

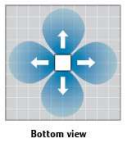
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

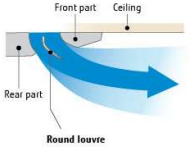


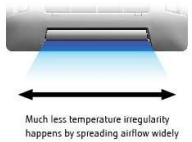
: Spin direction : Airflow direction : Turbulent flow noise

Improvement of the airflow distribution

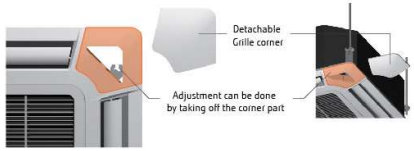
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.


Bottom view




Much less temperature irregularity happens by spreading airflow widely

Adjustment of hanger position is possible after installation



High ceiling mode

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

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

AIRSTAGE

Model : AUXA18GALH / AUXA24GALH / AUXA30GALH
AUXA34GALH / AUXA36GALH / AUXA45GALH
AUXA54GALH

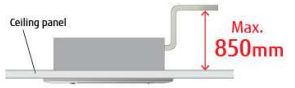
Specifications

Model name			AUXA18GALH*	AUXA24GALH*	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	51	51	59	77	80	99	119
Airflow rate	High	m^3/h	1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)	2,000 (556)
	Med		1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)	1,370 (381)
	Low		1,100/1,000*1(306/278)	1,100/1,000*1(306/278)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)
Sound pressure level	High	dB(A)	40	40	40	43	44	46	47
	Med		36	36	38	38	38	39	39
	Low		33/31*1	33/31*1	33/31*1	33/31*1	33/31*1	33/31*1	33/31*1
Net Dimensions (H × W × D)		mm	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Weight		kg(lbs)	27 (60)	27 (60)	27 (60)	27 (60)	27 (60)	27 (60)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	19.05	19.05	19.05	19.05
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UGGA-W						
	Net Dimensions (H×W×D)	mm	50 × 950 × 950						
	Weight	kg(lbs)	5.5 (12)						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.
*: AUXA18/24GALH can be connected to VR-IV / V-III Series only.

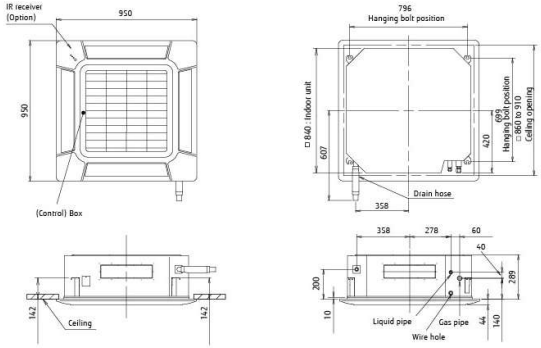
Optional parts

IR receiver unit:	UTY-LRHGB1
Air outlet shutter plate:	UTR-YDZC
Panel spacer:	UTG-BCYA-W
Insulation kit for high humidity:	UTZ-KXGB
Wide panel:	UTG-AGGA-W
Fresh air intake kit:	UTZ-VXGA
Wireless LAN Interface:	UTY-TFSXZ1
Cassette Grille:	UTG-UGYA-W



Dimensions

(Unit : mm)

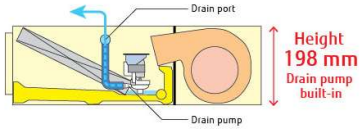


Low Static Pressure Duct Slim Duct / Slim Concealed Floor

DC FAN

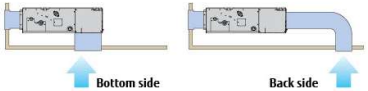
Slim design

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



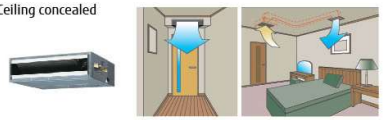
Air-intake

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

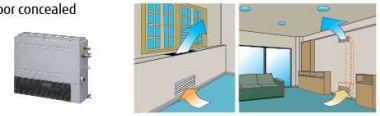


Flexible installation

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

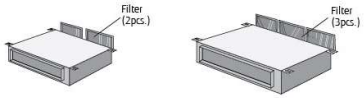
By using DC fan motor, it is possible to change the static pressure range from 0 to 90Pa. The change of static pressure range is possible by remote controller.

Static pressure range
0 to 90Pa

*024 model is 0 to 50Pa

Filter (Accessory)

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



Model : ARXD04GALH / ARXD007GLEH / ARXD009GLEH
ARXD012GLEH / ARXD014GLEH / ARXD018GLEH
ARXD024GLEH

ARXD04GALH
ARXD007/009/012/014GLEH

ARXD018GLEH

ARXD024GLEH

Slim Concealed Floor

Specifications

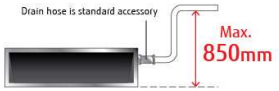
Model name			ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	40	44	50	54	92	83	122
Airflow rate	High	m^3/h	510	550	600	600	800	940	1,330
	Med-H		-	480	510	530	680	820	1,140
	Med		400/470*1	440	460	490	600	730	1,020
	Med-L		-	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 range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25	25
Sound pressure level	High	dB(A)	26	28	29	30	34	34	35
	Med-H		-	26	27	28	32	31	31
	Med		21/25*1	25	25	27	30	29	29
	Med-L		-	24	24	26	28	27	27
	Low		20/22*1	22	22	24	25	25	24
	Quiet		-	21	21	22	22	23	21
Net 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(lbs)	17 (37)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.
*:ARXD04GALH cannot be connected to J-IV5 / J-IVL Series.

Optional parts

Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC (004)
UTY-TRHX (007/009/012/014/018/024)
External Power Supply Unit : UTZ-GXXA

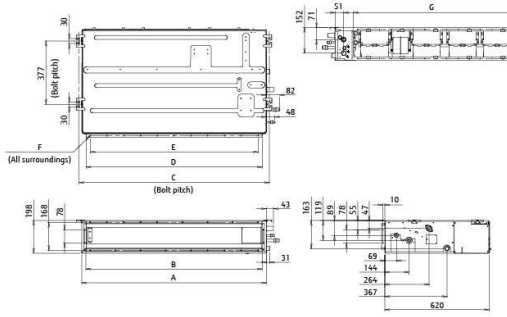
Auto Louver Grille Kit: UTD-GXTA-W (04/007/009/012/014)
UTD-GXTB-W (018)
UTD-GXTC-W (024)



Dimensions

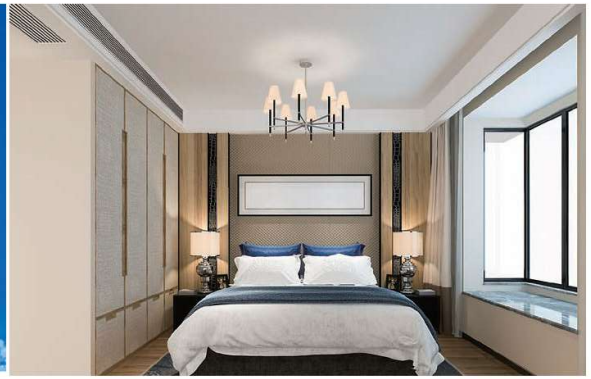
(Unit : mm)

*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
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100×6=600	P100×8=800	P100×10=1000
F	18×Ø5	22×Ø5	26×Ø5
G	574	774	974

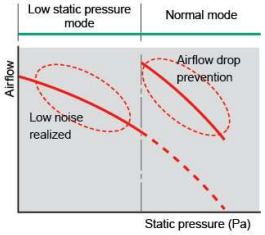
Low Static Pressure Duct / Concealed Floor



Low noise level

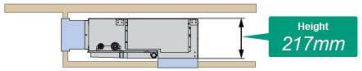
A low noise level has been achieved for each capacity

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



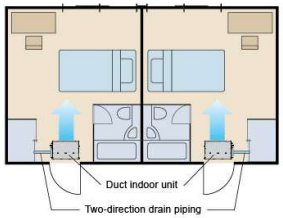
Compact design

Ultra-slim duct air conditioner for easy installation



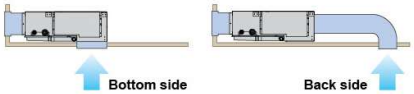
Slim size (217mm) allows installation even where the space above the ceiling is narrow.

Two-direction drain piping



Air-intake

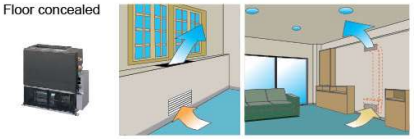
Air intake direction can be selected to match the installation site.



Flexible installation

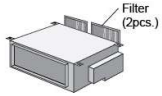
Ceiling concealed

Floor concealed

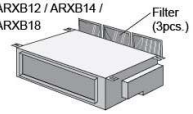


Filter (Accessory)

ARXB07 / ARXB09



ARXB12 / ARXB14 / ARXB18



Models: ARXB07GALH / ARXB09GALH / ARXB12GALH
ARXB14GALH / ARXB18GALH

ARXB07GALH
ARXB09GALH

ARXB12GALH
ARXB14GALH
ARXB18GALH

Specifications

Model name			ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH
Power source			230V ~, 50Hz				
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating		2.8	3.2	4.0	5.0	6.3
Input power		W	46	55	63	90	96
Airflow rate	High	m³/h (l/s)	370 (103)	440 (122)	590 (164)	800 (222)	890 (247)
	Med		310 (86)	370 (103)	500 (139)	750 (208)	810 (225)
	Low		280 (78)	340 (94)	450 (125)	700 (194)	730 (203)
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50
Standard static pressure			25	25	25	25	25
Sound pressure level	High	dB(A)	29	31	30	33	36
	Med		26	29	28	32	34
	Low		24	27	25	30	30
Dimensions (H x W x D)		mm	217 x 663 x 595		217 x 953 x 595		
Weight		kg	15		22		23
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø9.52
	Gas (Flare)		ø12.70				ø15.88
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]				

Note : Specifications are based on the following conditions.

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

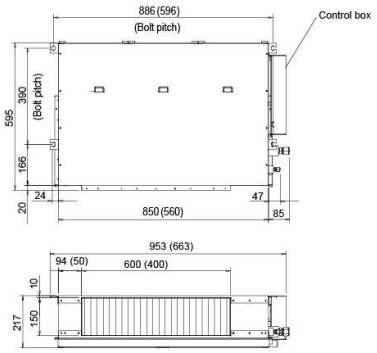
Optional parts

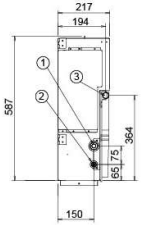
Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC
Drain Pump Unit : UTZ-PX1BBA

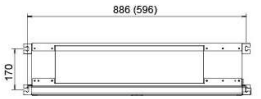
Dimensions (Unit : mm) ( ) : AR7 / AR9

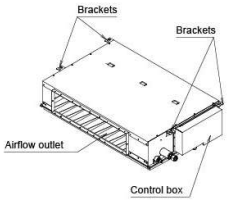
Models: ARXB07 / ARXB09 / ARXB12 / ARXB14 / ARXB18

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







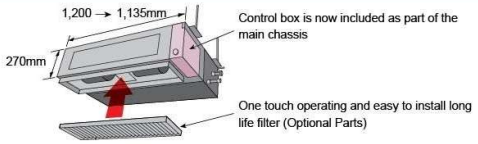


① Refrigerant piping flare connection (Gas)
② Refrigerant piping flare connection (Liquid)
③ Drain piping connection

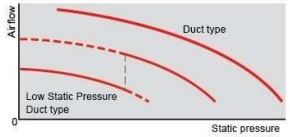
Low Static Pressure Duct

Slim & Compact design

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



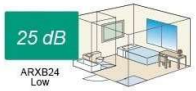
Line-up of low-noise and high-power models, compatible with a wide range of static pressure



Low Static Pressure Duct type

Optimum model for hotels or bedrooms

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

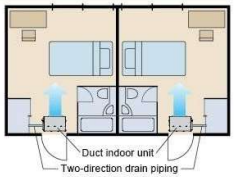


Duct type

Powerful model with a flexible design

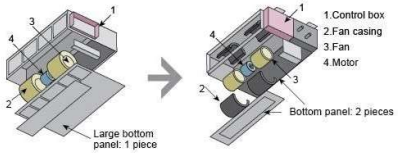
With a powerful motor, appropriate for a wide range of static pressure. Flexible air duct installation is possible in a large space such as an office.

Two-direction drain piping



Easy maintenance

See below for the case of rear suction type



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

Installation styles

Embedded in Ceiling **Hanging from Ceiling**

Models : ARXB24GALH / ARXB30GALH / ARXB36GALH / ARXB45GALH

Specifications

Model name			ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH
Power source			230V ~, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	145	198	253	338
Airflow rate	High	m³/h (l/s)	1,100 (306)	1,410 (392)	1,710 (475)	1,970 (547)
	Med		920 (256)	1,280 (356)	1,600 (444)	1,790 (497)
	Low		810 (225)	1,150 (319)	1,470 (408)	1,670 (464)
Static pressure range		Pa	0 to 80	0 to 80	0 to 80	0 to 80
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		25	29	33	36
Dimensions (H x W x D)		mm	270 x 1,135 x 700			
Weight		kg	39		42	
Connection pipe diameter	Liquid (Flare)	mm	ø9.52			
	Gas (Flare)		ø15.88		ø19.05	
	Drain hose		VP25[ø25(I.D.); ø32(O.U.)]			

Note : Specifications are based on the following conditions.

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

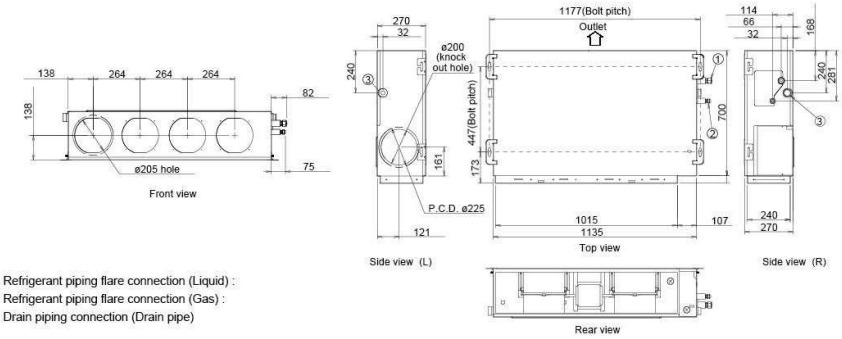
Optional parts

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

Dimensions (Unit : mm)

Models: ARXB24 / ARXB30 / ARXB36 / ARXB45

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



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

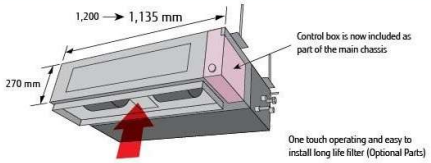
Medium Static Pressure Duct

DC FAN

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.



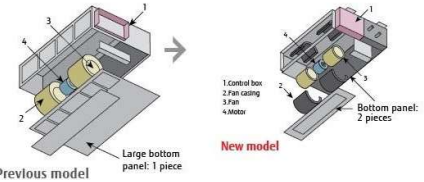
Selectable with a wide range of static pressure

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

Static pressure range
0 to 150 Pa

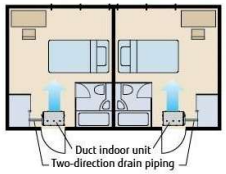
Easy maintenance

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



Can be installed for various location

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

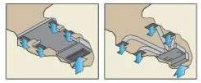
It can also be installed in wide spade when high static pressure is required, such as for offices.

Easy setting by using remote controller

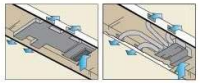
The change of static pressure range is possible by remote controller

Installation styles

Embedded in Ceiling



Hanging from Ceiling



AIRSTAGE

Models: ARXA24GBTH / ARXA30GBTH
ARXA36GBTH / ARXA45GBTH

Specifications

Model name			ARXA24GBTH	ARXA30GBTH	ARXA36GBTH	ARXA45GBTH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
Airflow rate	High	m³/h (l/s)	1,280 (356)	1,410 (392)	1,840 (511)	1,970 (547)
	Med		990 (275)	1,280 (356)	1,600 (444)	1,860 (517)
	Low		840 (233)	1,150 (319)	1,470 (408)	1,640 (456)
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB (A)	31	34	37	41
	Med		27	32	35	38
	Low		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(lbs)	39 (86)	42 (93)	42 (93)	42 (93)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32			

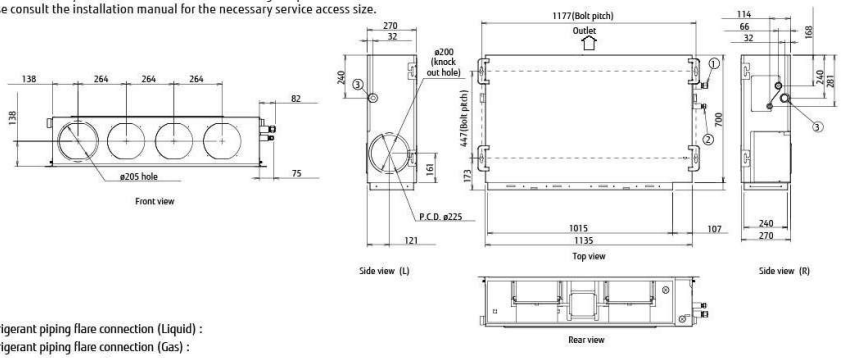
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

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

Dimensions (Unit: mm)

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



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

High Static Pressure Duct Normal

Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036) / 300Pa (ARXC72 / 90).

(ARXC036 type)

(ARXC72/90 type)

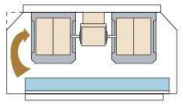
Easy installation (Compact size & Lightweight)

(unit: mm)

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

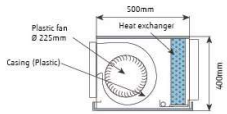
Low noise

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.



New model (ARXC036GTEH)

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)

(ARXC72 / 90 type)

Model : ARXC036GTEH / ARXC45GATH / ARXC60GATH
ARXC072GATH / ARXC090GATH

ARXC036GTEH
ARXC45/60GATH

ARXC72/90GATH

Specifications

Model name			ARXC036GTEH	ARXC45GATH	ARXC60GATH*	ARXC072GATH*	ARXC090GATH*
Power source			Single phase, ~230V, 50Hz				
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0
	Heating		12.5	14.0	20.0	25.0	28.0
Input power		W	207	715	730	1,110	1,250
Airflow rate	High	m^3/h	1,990	3,500	3,500	3,900	4,300
	Med		1,680	3,000	3,000	3,300	4,000
	Low		1,330	2,460	2,460	3,000	3,500
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300
Standard static pressure			100	100	100	260	250
Sound pressure level	High	dB(A)	42	49	49	51	53
	Med		36	45	45	48	51
	Low		32	42	42	45	49
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,550 × 700
Weight		kg(lbs)	40 (88)	46 (101)	46 (101)	83 (185)	85 (185)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	12.70 (Flare)	2.70 (Flare)
	Gas		15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Flare)	22.22 (Flare)
Drain hose diameter (I.D./O.D.)			25/32				

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*: ARXC60/072/090 cannot be connected to J-IVS Series.

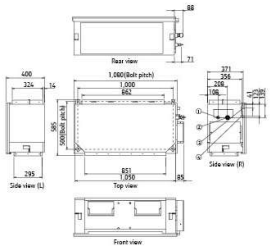
Optional parts

Long-Life Filter :	UTD-LF60KA (036/45/60)
IR Receiver Unit :	UTB-YWC (45/60/72/90)
	UTY-TRHX (036)
External Power Supply Unit :	UTZ-GXXA (036)
Wireless LAN Interface :	UTY-TFSXZ1 (036)

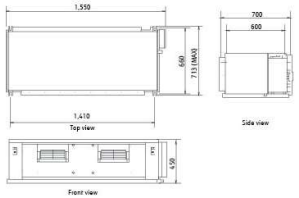
Dimensions

(Unit : mm)

Models: ARXC036 / ARXC45 / ARXC60



Models: ARXC72 / ARXC90



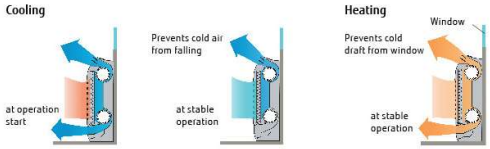
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection (safety drain pan)
④ Drain piping connection (Main drain pan)

Compact floor

DC FAN

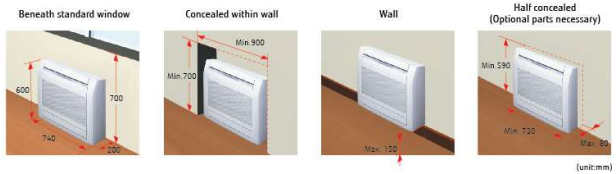
2-Fan & Wide airflow

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.



(unit:mm)

Quiet operation

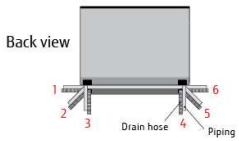
Quiet operation is realized by 6 fan speed control. (via 2 wire controller)

Low noise
22 dB(A)
at 004/007/009 models

* Comparible Remote Controller is as follows:
UTY-RNRGZ3/UTY-RLRG/UTY-RSRG/UTY-RHRG/UTY-DCGGZ1/UTY-ALGXZ1/UTY-APGXZ1

Flexible piping connection 6 direction of drain & piping

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



Model : AGHA004GCGH / AGHA007GCGH / AGHA009GCGH
AGHA012GCGH / AGHA014GCGH

[EEV external]
AGHE004GCEH / AGHE007GCEH / AGHE009GCEH
AGHE012GCEH / AGHE014GCEH

Specifications

Model name			AGHA004GCGH	AGHA007GCGH	AGHA009GCGH	AGHA012GCGH	AGHA014GCGH	AGHE004GCEH	AGHE007GCEH	AGHE009GCEH	AGHE012GCEH	AGHE014GCEH
Power source			Single phase, ~230V, 50Hz					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
	Heating		1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5
Input power		W	12/14	16	17	22	29	14	16	17	22	29
Airflow rate	High	m^3/h	380 / 430	470	500	590	670	380 / 430	470	500	590	670
	Med-H		350	420	450	520	590	350	420	450	520	590
	Med		320	390	400	470	520	320	390	400	470	520
	Med-L		310	360	360	420	450	310	360	360	420	450
	Low		280	330	330	390	390	280	330	330	390	390
	Quiet		210	270	270	340	340	210	270	270	340	340
Sound pressure level	High	dB(A)	35 / 36	37	38	42	46	35 / 36	37	38	42	46
	Med-H		33	35	36	39	42	33	35	36	39	42
	Med		31	33	34	37	39	31	33	34	37	39
	Med-L		30	31	31	35	36	30	31	31	35	36
	Low		28	29	29	33	33	28	29	29	33	33
	Quiet		22	22	22	30	30	22	22	22	30	30
Net Dimensions (H × W × D)		mm	600 x 740 x 200					600 x 740 x 200				
Weight		kg(lbs)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8/15.8to16.7					13.8/15.8to16.7				
EV Kit (option)			-					UTR-EV09XB			UTR-EV14XB	

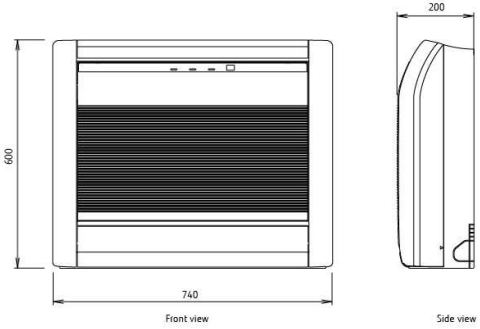
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AGHA004/007/009GCGH, AGHE004/007/009GCEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

Optional parts

Half concealed kit:	UTR-STA
External Power Supply Unit :	UTZ-GXXA
Wireless LAN Interface :	UTY-TFSXZ1

Dimensions

(Unit : mm)



Floor / Ceiling

DC FAN

Flexible installation

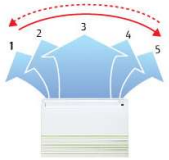
Example for floor installation
Floor console

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

4 steps selectable

High power DC fan motor

- High power
- Wide rotation range
- High efficiency

Compact design

(Unit:mm)

Symmetrical, slim and compact design.

Model : ABHA012GTEH / ABHA014GTEH / ABHA018GTEH / ABHA024GTEH

Floor standing

Specifications

Model name			ABHA012GTEH	ABHA014GTEH	ABHA018GTEH	ABHA024GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m^3/h	660	780	1,000	1,000
	Med-H		620	740	910	930
	Med		580	690	830	870
	Med-L		550	640	750	800
	Low		520	600	660	740
	Quiet		490	550	580	680
Sound pressure level	High	dB(A)	36	40	46	47
	Med-H		34	39	44	45
	Med		33	38	42	43
	Med-L		31	36	40	41
	Low		29	35	37	39
	Quiet		28	34	35	37
Net Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32			

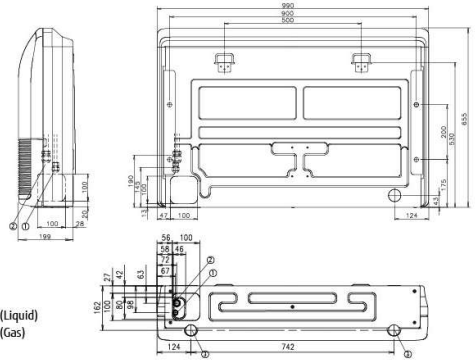
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



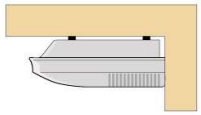
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Ceiling

DC FAN

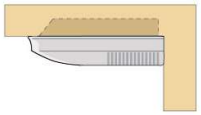
Installation

Open



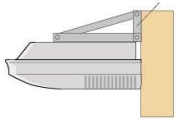
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted (Field Supplied)

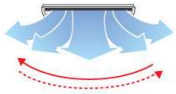


Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

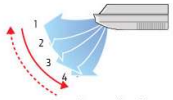
Auto airflow direction and auto swing

Right and left



5 steps selectable

Up and down



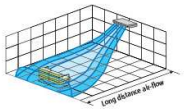
4 steps selectable

High power DC fan motor

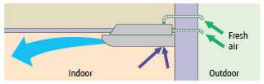
- High power
- Wide rotation range
- High efficiency

Long airflow

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



Fresh air intake



Slim & Compact design

Model : ABHA030GTEH / ABHA036GTEH / ABHA045GTEH / ABHA054GTEH

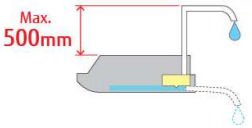
Specifications

Model name			ABHA030GTEH	ABHA036GTEH	ABHA045GTEH	ABHA054GTEH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m^3/h	1,630	1,690	2,010	2,270
	Med-H		1,520	1,560	1,840	2,070
	Med		1,420	1,450	1,690	1,860
	Med-L		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
Sound pressure level	High	dB(A)	42	45	48	51
	Med-H		40	41	46	49
	Med		39	39	45	46
	Med-L		37	38	41	43
	Low		35	36	38	40
	Quiet		33	34	35	36
Net Dimensions (H × W × D)		mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg(lbs)	46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32			

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

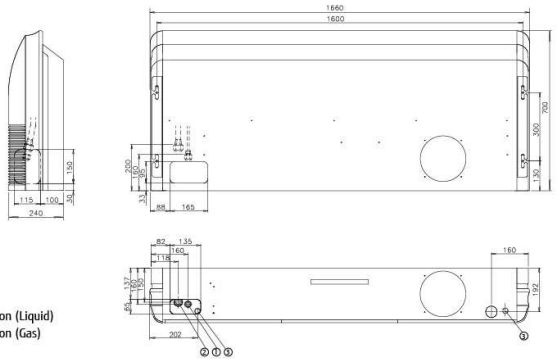
Optional parts

Drain Pump Unit :	UTR-DPB24T
Flange :	UTD-RF204
External Power Supply Unit :	UTZ-GXXA
Wireless LAN Interface :	UTY-TFSXZ1



Dimensions

(Unit : mm)



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

Wall Mounted

DC FAN

High efficient compact design

The 004-014 model has a common design.
High efficient compact design has been achieved by mounting a high density and large heat exchanger. Compact body makes it possible to install discretely even in a meeting or office room and comfortable air conditioning is provided.

High density heat exchanger

ϕ5

Making the tube thin: 5mm

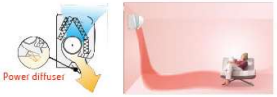
Increase of heat exchanger volume by high density and adopting sub heat exchanger

More comfort airflow

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

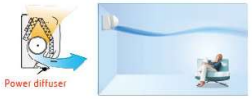
Heating

Vertical airflow provides powerful floor level heating



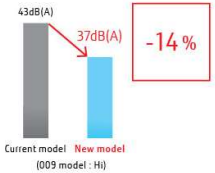
Cooling

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



Quiet operation & 6 Fan Speed Control

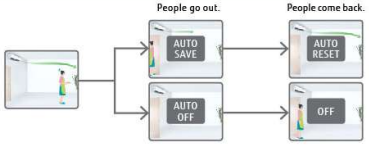
Drastic low noise is achieved by new airflow structure. Multistep airflow control is possible to suit the environment.



* Compatible Remote Controller is as follows:
UTY-RNRGZ3/UTY-RLRG/UTY-RSRG/UTY-RHRG/UTY-DCGGZ1/UTY-ALGXZ1/UTY-APGXZ1

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.



Model : ASHA004GCGH / ASHA007GCGH / ASHA009GCGH
ASHA012GCGH / ASHA014GCGH

[EEV external]
ASHE004GCEH / ASHE007GCEH / ASHE009GCEH
ASHE012GCEH / ASHE014GCEH

Specifications

Model name			ASHA004GCGH	ASHA007GCGH	ASHA009GCGH	ASHA012GCGH	ASHA014GCGH	ASHE004GCEH	ASHE007GCEH	ASHE009GCEH	ASHE012GCEH	ASHE014GCEH
Power source			Single phase, ~230V, 50Hz					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
	Heating		1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5
Input power		W	12	19	20	25	36	12	19	34	25	36
Airflow rate	High	m^3/h	450	550	610	690	800	450	550	610	690	800
	Med-H		430	510	560	610	740	430	510	560	610	740
	Med		400	470	510	560	680	400	470	510	560	680
	Med-L		380	410	440	530	610	380	410	440	530	610
	Low		360	360	360	470	550	360	360	360	470	550
	Quiet		310	310	310	330	330	310	310	310	330	330
Sound pressure level	High	dB(A)	31	34	37	40	44	31	35	43	40	44
	Med-H		30	32	35	37	42	30	32	38	37	42
	Med		28	30	32	35	40	28	30	34	35	40
	Med-L		27	28	29	33	37	27	27	29	33	37
	Low		26	26	26	30	34	26	24	24	30	34
	Quiet		22	22	22	24	24	22	22	22	24	24
Net Dimensions (H × W × D)		mm	268 x 840 x 203					268 x 840 x 203				
Weight		kg(lbs)	8.0 (18.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.0 (18.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8/15.8 to16.7					13.8/15.8 to16.7				
EV Kit (option)			–					UTR-EV09XB			UTR-EV14XB	

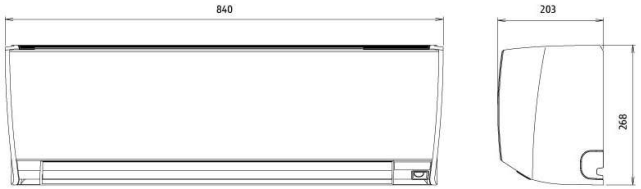
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



Wall Mounted

DC FAN

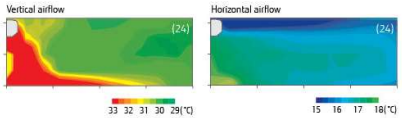
Powerful & Comfort airflow

Powerful Airflow

(ASHA030GTEH)

Power diffuser

(ASHA18/24GBCH)

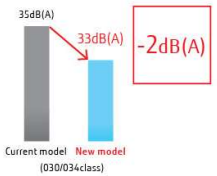


Human sensor (ASHA030/034GTEH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the energy consumption is reduced automatically to keep down electricity bills.
(Available to wired remote controller as UTY-RNRGZ3)

Quiet operation & 6 Fan speed control

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



* Compatible Remote Controller is as follows:
UTY-RNRGZ3/UTY-RLRG/UTY-RSRG/UTY-RHRG/UTY-DCGGZ1/UTY-ALGXZ1/UTY-APGXZ1

Model : ASHA18GBCH / ASHA24GBCH
ASHA030GTEH / ASHA034GTEH

ASHA18/24GBCH

ASHA030/034GTEH

Specifications

Model name			ASHA18GBCH	ASHA24GBCH	ASHA030GTEH	ASHA034GTEH
Power source			Single phase, ~230V, 50Hz		Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1	9.0	10.0
	Heating		6.3	8.0	10.0	11.2
Input power		W	32	60	74	103
Airflow rate	High	m^3/h	840	1,100	1,440	1,620 / 1,520
	Med-H		-	-	1,200	1,300
	Med		770	910	1,050	1,120
	Med-L		-	-	940	980
	Low		690	730	890	890
	Quiet		-	-	700	700
Sound pressure level	High	dB(A)	41	48	53	55 / 54
	Med-H		-	-	49	51
	Med		39	43	45	47
	Med-L		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Net Dimensions (H × W × D)		mm	320 x 998 x 238	320 x 998 x 238	340 x 1,150 x 280	340 x 1,150 x 280
Weight		kg(lbs)	15 (33)	15 (33)	18 (40)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12/16		13.8/15.8 to16.7	

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 ASHA18GBCH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

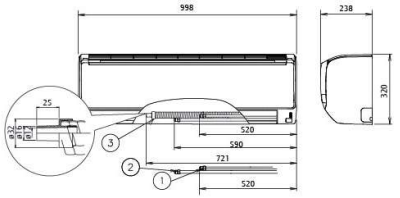
Optional parts

External Power Supply Unit : UTZ-GXXA (030/034)
Wireless LAN Interface : UTY-TFSXZ1 (030/034)

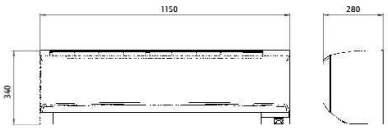
Dimensions

(Unit : mm)

Models: ASHA18 / ASHA24



Models: ASHA030 / ASHA034

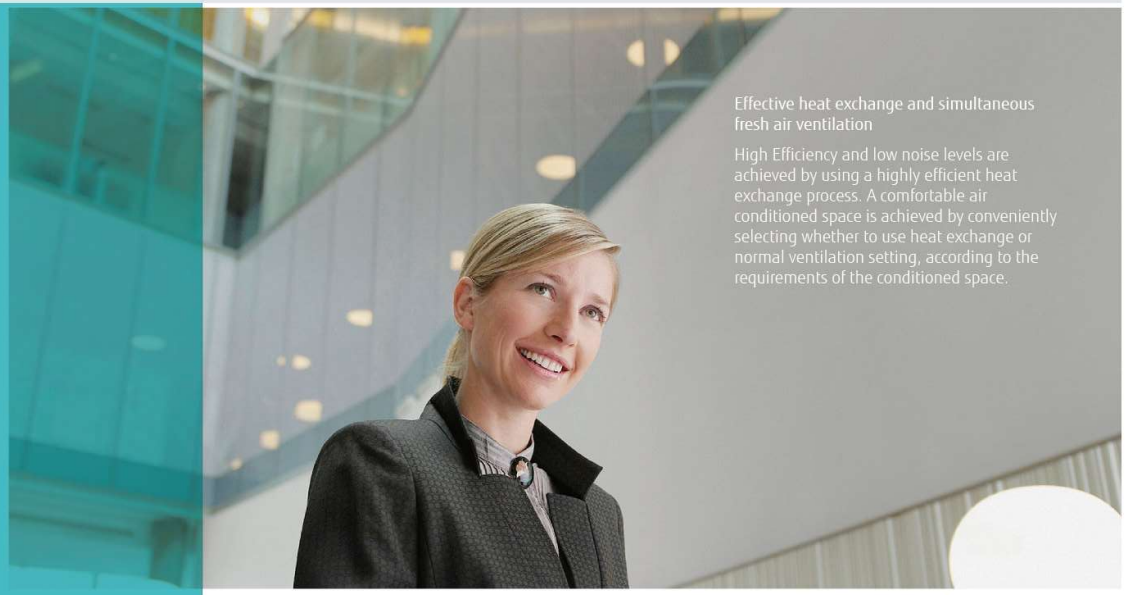


① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

Residential, Commercial & Light Commercial

VENTILATION

VENTILATION Lineup



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.

Lineup

Airflow rate (m³/h)	250	350	500	800	1000
Energy Recovery Ventilator	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C

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

Connectable capacity class (kW)	14.0 kW	22.4 kW	28.0 kW
Outdoor Air Unit	ARXH054GTAH	ARXH072GTAH	ARXH096GTAH

102384 General VRF All Product Catalogue 096-101 - size: A4 - 11|6|21 - Lokesh

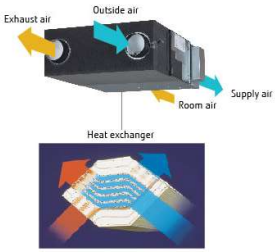
Energy Recovery Ventilator

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

Heat exchange ventilation and normal ventilation

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

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



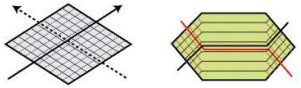
Energy efficiency and ecology

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

Adopts a highly efficient counter-flow heat exchange element

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.

25.5dB
(UTZ-BD035C)

Extended range of an external static pressure

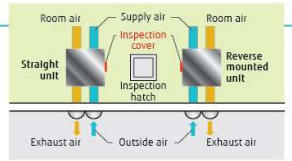
An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Slim shape and easier installation

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

Reverse mountable direct air supply / exhaust system

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



Simple remote operation

Easy operation by connecting a liquid crystal switch

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

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

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

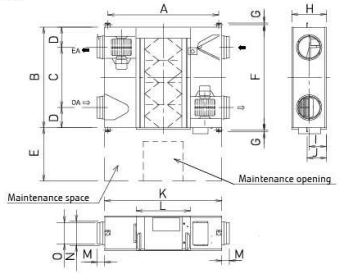
Specifications

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

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

Dimensions

(Unit : mm)



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

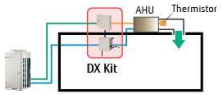
DX Kit

for Air Handling Application

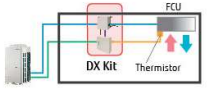
for VRF Outdoor Unit

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

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

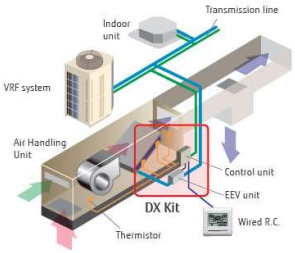


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



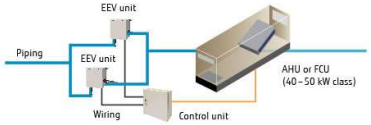
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



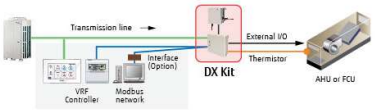
Supports a wide range of capacity classes

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

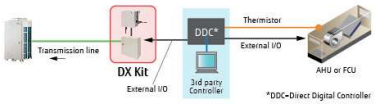


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



Functions Summary

Inputs

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

Outputs

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

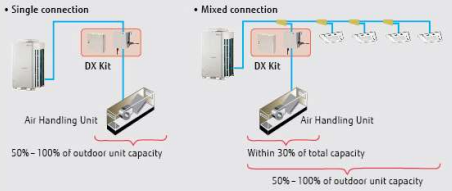
MODBUS® Control

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

Installation Limitation

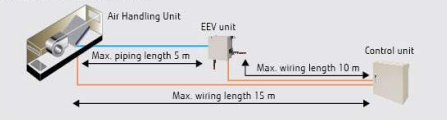
- Connectable VRF Series: All VRF Series
- Connectable DX Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length between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

Connectable capacity



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

Piping and wiring length



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

Specifications

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

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

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

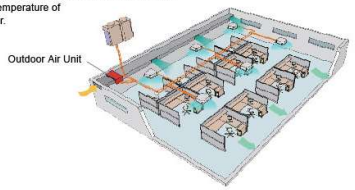
Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m Voltage : 230 [V].

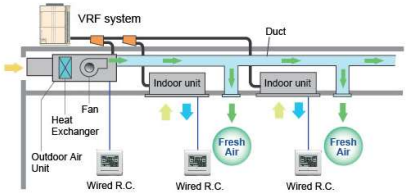
Outdoor Air Unit

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

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

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

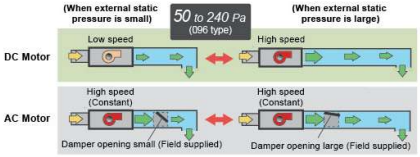




* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

High energy savings and flexible duct design by using DC motor

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



Various Controller

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

Individual Controller

Central Controller

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

Top class compact design

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

Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

Specifications

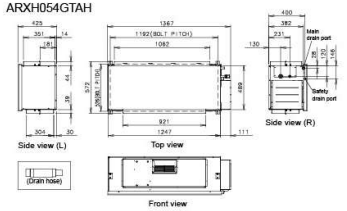
Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model No.			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source			230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input Power	Cooling / Heating	W	179	292	370
Airflow Rate		m³/h	1,080	1,680	2,100
Static Pressure	Standard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

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

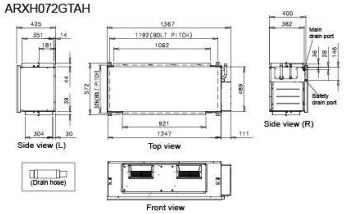
Dimensions (Unit : mm)

Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

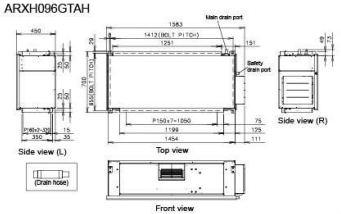
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH



Light Commercial & Commercial, Residential

CONTROL SYSTEM
& OPTIONAL PARTS

Wide product lineup to meet a variety of needs

We can flexibly meet customer needs through a variety of offerings including wired and wireless individual remote controllers, central remote controllers that simultaneously control multiple indoor units, and a variety of convertors that link with other systems.

CONTROL SYSTEM

INDIVIDUAL CONTROL

C-010 Wired Remote Controller (Touch Panel)
C-011 Wired Remote Controller Compact Wired Remote Controller
C-012 Simple Remote Controller

CONVERTOR/ADAPTOR

C-013 MODBUS® Convertor KNX® Convertor
C-014 Wireless LAN Interface
C-015 External Switch Controller
C-016 MODBUS® Interface KNX® Interface
C-017 Wireless LAN Interface

INDIVIDUAL CONTROL

C-023 Wireless Remote Controller IR Receiver Unit For Duct, Cassette

CENTRALIZED CONTROL

C-025 Central Remote Controller
C-026 System Controller (Software) System Controller Lite (Software)

CONVERTOR/ADAPTOR

C-030 BACnet® Gateway (Software)
C-031 BACnet® Gateway (Hardware) Network Convertor for LONWORKS®
C-032 MODBUS® Convertor KNX® Convertor
C-033 Signal Amplifier

C-034 Control System List

OPTIONAL PARTS

C-042 Auto Louver Grille Kit
C-043 External Power Supply Unit

C-044 Optional Parts List
C-048 Function List
C-052 Separation Tube etc.

VRF J Series

VRF V Series

Control System Overview

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

Air Conditioning
Individual Control

Wired Remote Controller
(Touch panel)
UTY-RNRGZ3

Wired Remote Controller
UTY-RLRG

NEW **Compact Wired Remote Controller**
UTY-RCRGZ1

Simple Remote Controller
UTY-RSRG
UTY-RHRG
Without operation mode

Wireless Remote Controller
UTY-LNHG

IR Receiver Unit
UTB-YWC For Duct
UTY-TRHX
For 1-Way Flow Cassette
3D Flow Cassette/Duct
UTY-LRHGB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

Air Conditioning
Centralized Control

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

Max. Controllable 1600*2 indoor units

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

Central Remote Controller
UTY-DCGGZ1

Max. Controllable 100 indoor units

Convertor/Adaptor
For external control via BMS/Home Automation Systems

BACnet® Gateway
UTY-ABGXZ1 (Software)

BACnet® Gateway
UTY-VBGX (Hardware)

Network Convertor
(For LONWORKS®)
UTY-VLGX

MODBUS® Convertor For indoor unit
UTY-VMSX

MODBUS® Convertor
UTY-VMGX

KNX® Convertor For indoor unit
UTY-VKSX

KNX® Convertor For VRF
UTY-VKGX

Wireless LAN Interface
UTY-TFSXZ1

External Switch Controller
UTY-TERX

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

Convertor/Adaptor
For system expansion

Network Convertor
(DC power supply)
UTY-VTGX

Network Convertor
(AC power supply)
UTY-VTGXV

Signal Amplifier
UTY-VSGXZ1

Best Control Solution for Each Property

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

SHOP

Type	Individual Control	Centralized Control			Integrating Control (Interface)		
							
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	System Controller	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor
	UTY-RNRGZ3, UTY-RLRG, UTY-RVNGM, UTY-RCRGZ1	UTY-CGGG	UTY-DCGGZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	•	•	•	•			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			•	•	•	•	•
Group Control		•	•	•			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)				•			
Remote Management			•	•			
Manage multiple sites			•	•			
Monitor energy consumption				•			
Control third party products				•			
Integrate FGL A/C into BMS					•	•	•

HOTEL

Type	Individual Control			Centralized Control		Integrating Control (Interface)				
										
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRGZ3, UTY-RLRG, UTY-RCRGZ1	UTY-RSRG, UTY-RHRG, UTY-RSNGM	UTY-LNHG, UTY-LNTG	UTY-DCGGZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	•	•	•							
Centralized A/C control for common space				•	•	•	•	•	•	
Limited control for hotel guests				•	•	•	•	•	•	
Remote Management				•	•					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					•	•				
Monitor energy consumption					•					
Control third party products					•					
Integrate FGL A/C into BMS						•	•	•	•	
Interlock with window contact										•
Interlock with key-card										•

OFFICE

Type	Individual Control			Centralized Control		Integrating Control (Interface)				
										
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRGZ3, UTY-RLRG, UTY-RCRGZ1	UTY-RSRG, UTY-RHRG, UTY-RSNGM	UTY-LNHG, UTY-LNTG	UTY-DCGGZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	•	•	•	•						
Automatic control of A/C (Schedule timer, Weekly timer etc.)	•		•	•	•	•				
Centralized A/C control for management				•	•	•	•	•	•	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)				•	•	•	•	•	•	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					•	•				
Remote Management				•	•					
Energy Charge Apportionment					•	•				
Monitor energy consumption					•					
Control third party products					•					
Integrate FGL A/C into BMS						•	•	•	•	
Interlock with door contact										•
Interlock with human sensor for meeting room										•

Comparison Table of Controllers

Item															
			Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Central Remote Controller	System Controller Lite (Software)	System Controller (Software)
Model name			UTY-RNRGZ3	UTY-RLRG	UTY-RVNGM	UTY-RCRGZ1	UTY-RSNGM	UTY-RSRG	UTY-RHRG	UTY-LNHG	UTY-LNTG	UTY-DMMGM	UTY-DCGGZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups			1	1	1	1	1	1	1	1	1	1	100	400	1600
Max. controllable indoor units			16	16	16	1	16	16	16	16	16	8	100	400	1600
Max. controllable groups			–	–	–	–	–	–	–	–	–	–	50	400	1600
Air conditioning control function	On / Off		●	●	●	●	●	●	●	●	●	●	●	●	●
	Operation mode setting		●	●	●	●	●	●	–	●	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation		●	●	●	–	–	●	●	–	–	–	●	●	●
	Test operation		●	●	●	●	●	●	●	●	●	–	–	–	–
	Up/down air direction flap setting		●	●	●	●	–	●	●	●	●	–	●	●	●
	Right/left air direction flap setting		●	●	●	●	–	–	–	●	–	–	●	●	●
	Individual louver control		●	–	–	●	–	–	–	–	–	–	●*3	–	–
	Group setting		–	–	–	–	–	–	–	–	–	–	●	●	●
	RC prohibition		–	–	–	–	–	–	–	–	–	●	●	●	●
	Anti freeze setting		●	–	–	●	–	–	–	–	–	–	●	●	●
	Set temp. auto return		●	●	●	–	–	–	–	–	–	–	–	–	–
	Economy mode setting		●	●	●	●	–	–	–	●	●	●	●	●	●
	Human sensor control		●	–	–	–	–	–	–	–	–	●	–	●	●
Display	Error		●	●	●	●	●	●	●	–	–	●	●	●	●
	Defrosting		●	●	●	●	●	●	●	–	–	–	●	●	●
	Current time		●	●	●	–	–	–	–	●	●	●	●	●	●
	Day of week		●	●	●	–	–	–	–	–	–	–	●	●	●
	R.C. prohibition		●	●	●	●	●	●	●	–	–	●	●	●	●
	Address display		●	●	●	●	●	●	●	–	–	–	–	●	●
	Room temp		●	–	●	●	–	●	●	–	–	–	●*4	●*4	●*4
	Multi language		●	–	●	–	–	–	–	–	–	●	●	●	●
	Summer time		●	–	●	–	–	–	–	–	–	●	●	●	●
	Name registration		●	–	–	–	–	–	–	–	–	–	●	●	●
	Backlight		●	–	●	●	●	●	●	–	–	●	●	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	–	–	–	–	–	●
	Refrigerant leakage detection function		–	–	–	–	–	–	–	–	–	–	●	●	●
Timer	Schedule timer	Period	Week	Week	Week	–	–	–	–	–	–	Week	Week	Year	Year
		On/off, Temp, Mode, Times per day	8	4	8	–	–	–	–	–	–	4	20	144	144
	On/off timer		●	●	●	●(OFF only)	–	–	–	●	●	–	–	–	–
	Sleep timer		–	–	–	–	–	–	–	●	●	–	–	–	–
	Program timer		–	–	–	–	–	–	–	●	●	–	–	–	–
	Auto off timer		●	●	●	–	–	–	–	–	–	–	●	–	–
	Day off		●	●	●	–	–	–	–	–	–	●	●	●	●
	Min. unit of timer setting (Minutes)		10 • 30	30	30	–	–	–	–	5	5	5	10	10	10
Control	Status monitoring system		–	–	–	–	–	–	–	–	–	–	●	●	●
	Electricity charge apportionment		–	–	–	–	–	–	–	–	–	–	–	○	●
	Error history		●	●	●	–	–	–	–	–	–	–	●	●	●
	Emergency stop		–	–	–	–	–	–	–	–	–	–	●*2	–	–
	Remote management		–	–	–	–	–	–	–	–	–	–	●	○	●
	Energy saving management		–	–	–	–	–	–	–	–	–	–	–	○	○
	E-mail notification for malfunction		–	–	–	–	–	–	–	–	–	–	●	●	●
	Key lock		● Child lock	● Child lock	● Child lock	–	–	–	–	–	–	● Child lock	● Password setting	● Password setting	● Password setting
	Low noise mode		–	–	–	–	–	–	–	–	–	●	–	●	●

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control.
*3 Only individual airflow batch reset is mounted. *4 This function is available only when using wired remote controller.
●: Supported ○: Optional function –: Not supported yet

Wired Remote Controller (Touch Panel)

UTY-RNRGZ3

Max. Controllable
16 indoor units

Max. Controllable
1 Group

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

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

High performance and compact size

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

Accurate and comfortable control

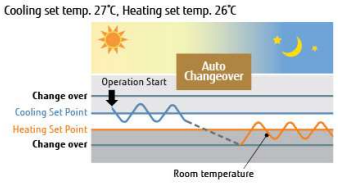
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.

Various energy saving control

Custom Auto

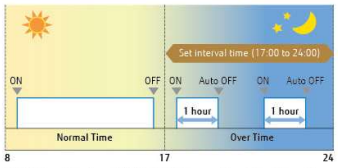
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.



Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRGZ3
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRG

Max. Controllable
16 indoor units

Max. Controllable
1 Group

- 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

High performance and compact size

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

High visibility and easy operation

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

Compact Wired Remote Controller

UTY-RCRGZ1

NEW

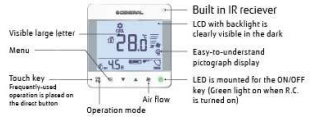
Max. Controllable
1 single indoor units

Max. Controllable
1 Group

- Simple design to match the stylish interior
- Easy to install : Body of controller is designed to fit in European standard junction box
- Can be operated both by wireless and wired remote controller.
- 2-wire type

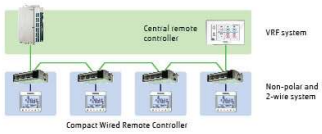
Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand



System overview

VRF connection



RAC connection

Specifications

Model name	UTY-RLRG	UTY-RCRGZ1
Power Source	DC 12 V	DC12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

UTY-RSRG / UTY-RHRG (Without operation mode)

UTY-RSRG

UTY-RHRG (Without operation mode)

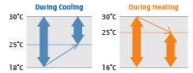
Compact remote controller provides access to basic functions

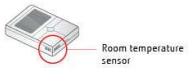
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight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

Max. Controllable
16 indoor units
Max. Controllable
1 Group

Corresponding to various applications

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





Simple Remote Controller

UTY-RSNGM, UTY-RSKG/UTY-RHKG (Without operation mode)

UTY-RSNGM
UTY-RSKG

UTY-RHKG (Without operation mode)

Compact remote controller provides access to basic functions

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

Easy-to-use operation

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

Max. Controllable
16 indoor units
Max. Controllable
1 Group

Specifications

Model name	UTY-RSRG	UTY-RHRG	UTY-RSNGM, UTY-RSKG	UTY-RHKG
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC 12 V is supplied by the indoor unit.

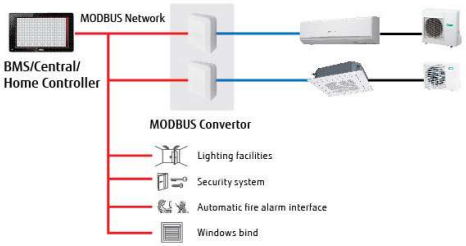
MODBUS® Convertor for Indoor Unit

UTY-VMSX

Max. Connectable
1 Single indoor unit

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

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

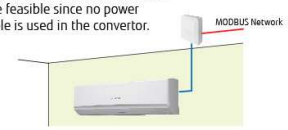


Basic control

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

Easy Installation

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



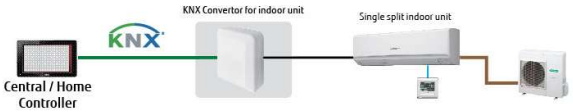
KNX® Convertor for Indoor Unit

UTY-VKSX

Max. Connectable
1 Single indoor unit

KNX Convertor is useful for individual control of indoor.

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



Specifications

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

Modbus communication specifications

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

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

Wireless LAN Interface

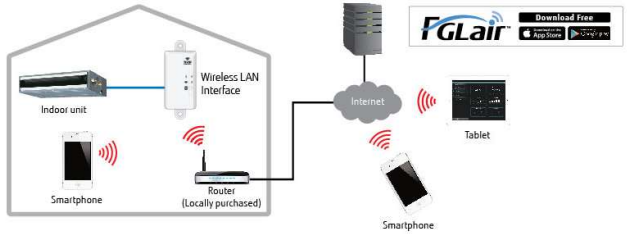
UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2

USB type for single split models
UTY-TFSXF2

UTY-TFNXZ1 UTY-TFSXZ1 UTY-TFSXW1

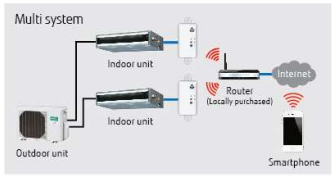
Max. Connectable
1 Single indoor unit

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



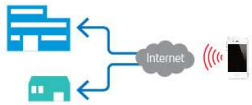
Basic control

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



Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

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

Wireless LAN Interface (USB type)

UTY-TFSXF2

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

Specifications

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

External Switch Controller

UTY-TERX

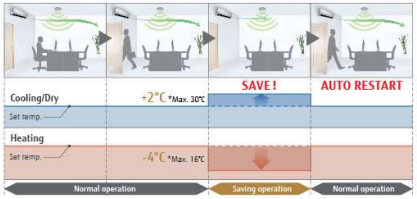
Max. Controllable
1 group

Air conditioner switching can be controlled by connecting other sensor switches

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

Installation example

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



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

Specifications

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

DC 12 V is supplied by the indoor unit.

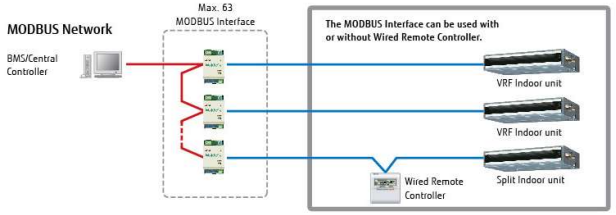
MODBUS® Interface

FJ-RC-MBS-1

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

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

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



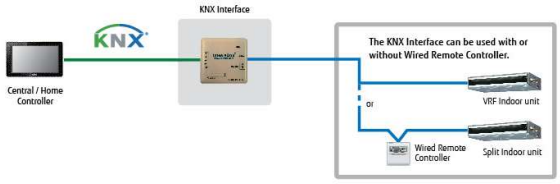
KNX® Interface

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 unit and group controlled (up to 16) indoor units.

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



Specifications

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

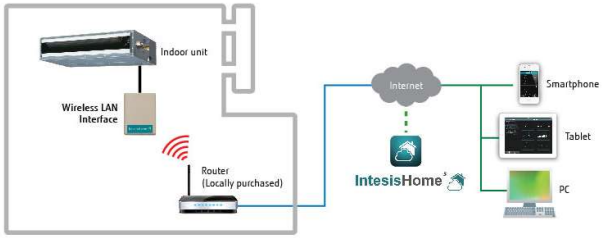
Wireless LAN Interface

FJ-RC-WIFI-1

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

IntesisHome®

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



Basic control

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

(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

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

Specifications

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

Wireless Remote Controller

UTY-LNHG

Max. Controllable
16 indoor units
Max. Controllable
1 Group
Selectable
4 daily timers

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

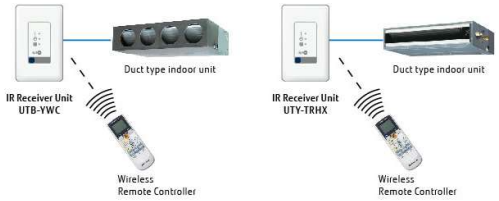
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

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

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



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

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

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

IR Receiver Unit for Cassette

UTY-LRHGB1, UTY-LBHXD, UTY-TRHX

Cassette type indoor unit can be controlled with Wireless Remote Controller

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

Specifications

Model name	UTY-LNHG	UTB-YWC	UTY-LRHGB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03 / LR03 / AAA)×2	DC 5 V	DC5V	DC5V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight (g)	85	150	140	140	150

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DCGGZ1

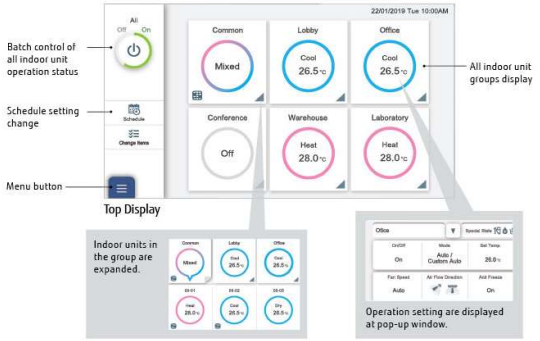
For small- and medium-sized buildings and tenants

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

Max. Controllable
100 indoor units
Max. Controllable
50 groups

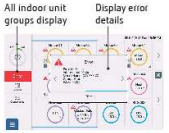
Easy operation

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top display 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

*This function is available only when using wired remote controller.

Remote monitoring / Remote operation

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

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

Specifications

Model name	UTY-DCGGZ1
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800

System Controller

UTY-APGXZ1 Software

Max. Controllable
4 VRF network system

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

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

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

System Controller Lite

UTY-ALGXZ1 Software

Max. Controllable
1 VRF network system

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

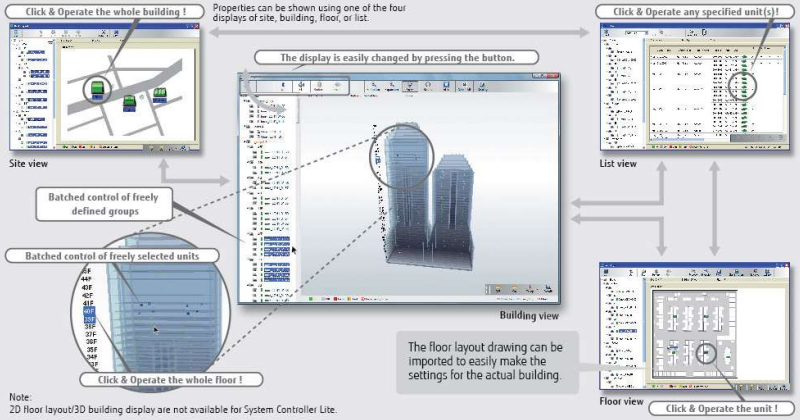
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

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

High visibility and Easy operation

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

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



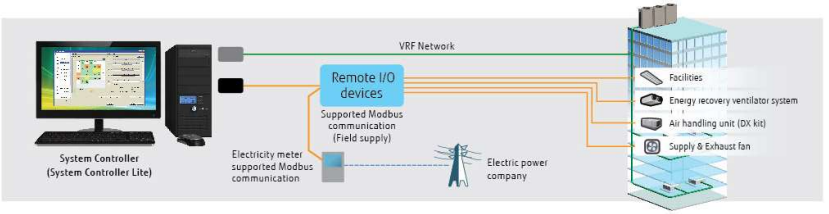
Note:
2D floor layout/3D building display are not available for System Controller Lite.

Features: System Controller/System Controller LIght

3rd party devices connected by Modbus can be controlled.

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

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

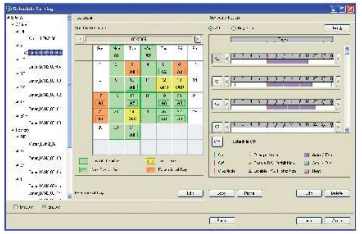


Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

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



Diverse control of Indoor unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

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

Operating & control record

Displays the history of operation status and control.

Data base Import/export

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

Automatic clock adjustment

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

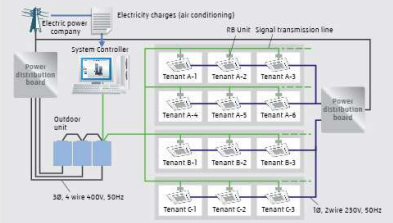
Electricity charge apportionment

Standard for System Controller
Option for System Controller Lite UTY-PLGXA2

Electricity charge apportionment calculation framework

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

System Configuration Example



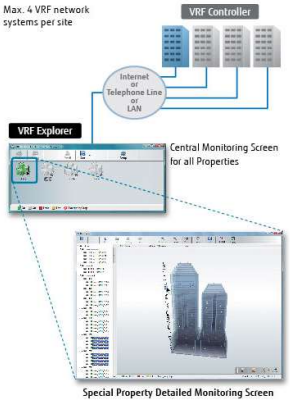
Features: System Controller/System Controller LIght

Remote management

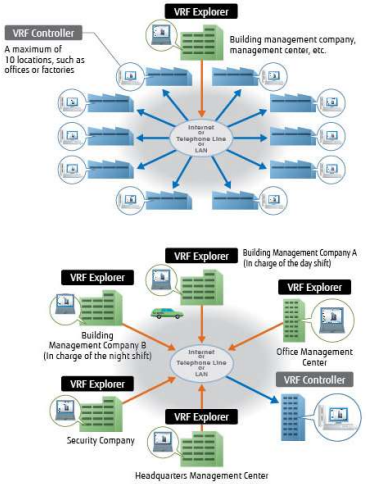
Standard for System Controller
Option for System Controller Lite UTY-PLGXR2

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

On site central control



Remote central control



Energy saving management

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

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

Energy Saving Management Main Screen

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

Indoor unit rotation operation

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

Peak cut operation

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

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

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

●●: Available. - : Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

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

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

PACKING LIST

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

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

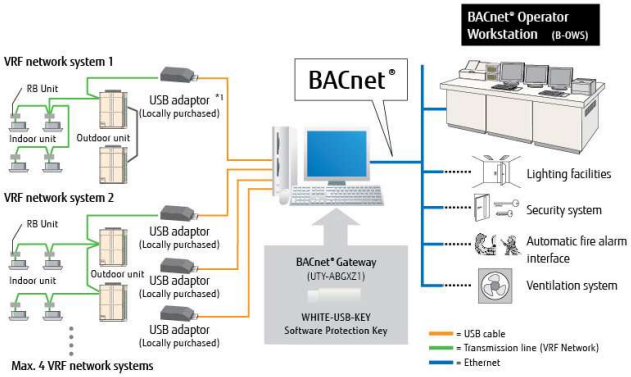
BACnet® Gateway

UTY-ABGXZ1 (Software)

WHITE-USB-KEY
(Software Protection Key)

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

Max. Controllable
4
VRF network systems
Max. Controllable
400 outdoor units
Max. Controllable
1,600 indoor units



Max. 4 VRF network systems

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

Personal computer system requirements

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

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

<Packing list>

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

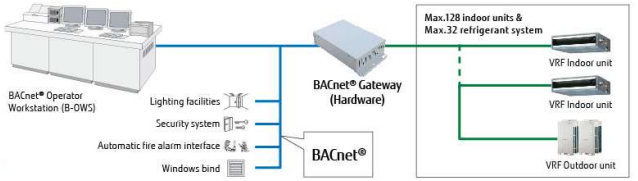
BACnet® Gateway

UTY-VBGX (Hardware)

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

Max. Controllable
1 VRF network system
Max. Controllable
32 refrigerant systems
Max. Controllable
128 indoor units

Installation example



Specifications

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

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

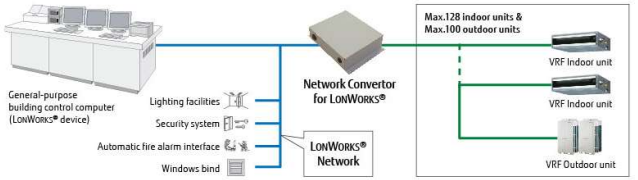
Network Convertor for LONWORKS®

UTY-VLGX

- 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®

Max. Controllable
4 units to BMS
Max. Controllable
100 outdoor units
Max. Controllable
128 indoor units

Installation example



Specifications

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

Transmission specifications (BMS side)

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

MODBUS® Convertor for VRF

UTY-VMGX

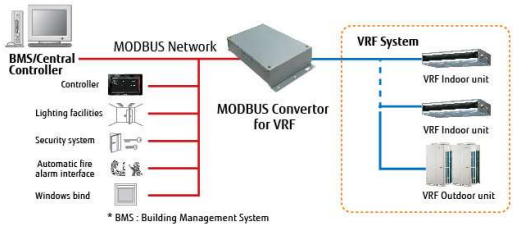
The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

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

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units



KNX® Convertor for VRF

UTY-VKGX

KNX Convertor is useful for centralized control in a system.

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

Max. Controllable
100 outdoor units

Selectable
128 indoor units

Specifications

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

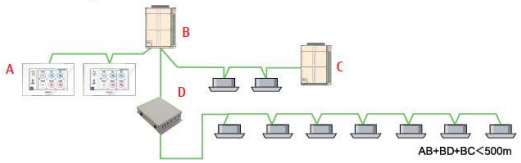
Model name	UTY-VKGX
Power supply	220-240 V 50/60 Hz
Power consumption (W)	1.5
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,200

Signal Amplifier

UTY-VSGXZ1

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

Installation example



Specifications

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

Controller System List (available) For VRF

Controller Options:

	Type	Refrigerant	Indoor unit												
			Cassette							Duct					
			One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct				Medium Static Pressure	
						4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency
		R410A	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	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/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH
Controllers	Wired Remote Controller		● UTY-RNRGZ3												
			● UTY-RLRG												
			● UTY-RCRGZ1												
	Simple Remote Controller	 2-wire type 3-wire type	● UTY-RSRG UTY-RHRG			● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG		● UTY-RSRG UTY-RHRG			● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG	● UTY-RSRG UTY-RHRG	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG	● UTY-RSRG UTY-RHRG	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG
	Wireless Remote Controller		● UTY-LNHG												
	Central Remote Controller		● UTY-DCGGZ1												
	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1												
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX												
	Network Convertor for LonWorks		● UTY-VLGX												
	MODBUS Convertor		● UTY-VMSX					● UTY-VMSX				● UTY-VMSX		● UTY-VMSX	
	MODBUS Convertor		● UTY-VMGX												
	MODBUS Interface					● FJ-RC-MBS-1		● FJ-RC-MBS-1 (GLAH)			● FJ-RC-MBS-1		● FJ-RC-MBS-1		● FJ-RC-MBS-1
	KNX Convertor		● UTY-VKSX					● UTY-VKSX				● UTY-VKSX		● UTY-VKSX	
	KNX Convertor		● UTY-VKGX												
	KNX Interface					● FJ-RC-KNX-1i		● FJ-RC-KNX-1i (GLAH)			● FJ-RC-KNX-1i		● FJ-RC-KNX-1i		● FJ-RC-KNX-1i
	Wireless LAN Interface		● UTY-TFSXZ1					● UTY-TFSXZ1				● UTY-TFSXZ1		● UTY-TFSXZ1	
	Wireless LAN Interface					● FJ-RC-WIFI-1		● FJ-RC-WIFI-1 (GLAH)			● FJ-RC-WIFI-1		● FJ-RC-WIFI-1		● FJ-RC-WIFI-1
	External Switch Controller		● UTY-TERX												

Type	Indoor unit													
	Duct				Floor		Ceiling/ Floor	Ceiling	Wall Mounted					
	High Static Pressure				–	EEV external			–	EEV external	–	EEV external	–	–
	High Efficiency	Normal		High Efficiency										
	ARXP 024/030 GTAH	ARXC 45/60GATH	ARXC 036/072/ 090/096 GTEH	ARXQ 030GTAH	AGHA 004/007/ 009/012/014 GCGH	AGHE 004/007/ 009/012/014 GCEH	ABHA 012/014/ 018/024 GTEH	ABHA 030/036/ 045/054 GTEH	ASHA 004/007/009 GCGH	ASHE 004/007/009 GCEH	ASHA 012/014GCGH	ASHE 012/014GCEH	ASHA 18/24GBCH	ASHA 030/034GTEH
Wired Remote Controller	● UTY-RNRGZ3													
	● UTY-RLRG													
	● UTY-RCRGZ1													
Simple Remote Controller	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG		● UTY-RSRG UTY-RHRG	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG	● UTY-RSRG UTY-RHRG								● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG	● UTY-RSRG UTY-RHRG
Wireless Remote Controller	● UTY-LNHG													
Central Remote Controller	● UTY-DCGGZ1													
System Controller, System Controller Lite	● UTY-APGXZ1, UTY-ALGXZ1													
BACnet Gateway	● UTY-ABGXZ1, UTY-VBGX													
Network Convertor for LonWorks	● UTY-VLGX													
MODBUS Convertor			● UTY-VMSX		● UTY-VMSX									● UTY-VMSX
MODBUS Convertor	● UTY-VMGX													
MODBUS Interface	● FJ-RC-MBS-1			● FJ-RC-MBS-1									● FJ-RC-MBS-1	
KNX Convertor			● UTY-VKSX		● UTY-VKSX									● UTY-VKSX
KNX Convertor	● UTY-VKGX													
KNX Interface	● FJ-RC-KNX-1i			● FJ-RC-KNX-1i									● FJ-RC-KNX-1i	
Wireless LAN Interface			● UTY-TFSXZ1		● UTY-TFSXZ1									● UTY-TFSXZ1
Wireless LAN Interface	● FJ-RC-WIFI-1			● FJ-RC-WIFI-1									● FJ-RC-WIFI-1	
External Switch Controller	● UTY-TERX													

102384 General VRF All Product Catalogue 130-135 - size: A4 - 11|6|21 - Lokesh

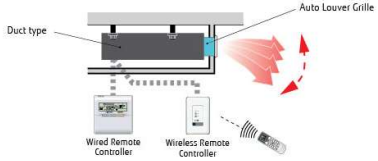
Auto Louver Grille Kit

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

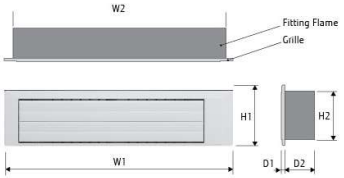
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

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 Indoor Unit			ARHG07/09LLTA ARHG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARHG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louver Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×883×(84+9)	180×1083×(84+9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operation range	Cooling	°C	18 to 32		
		% RH	80% or less		
	Heating	°C	16 to 30		

External Power Supply Unit

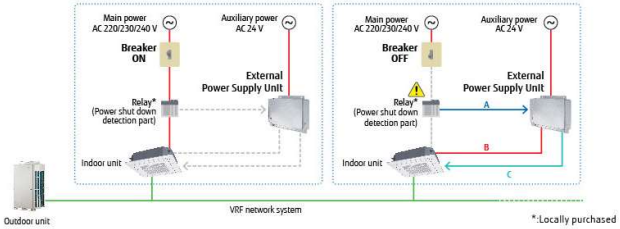
UTZ-GXXA

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

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

High Reliability

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



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 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.

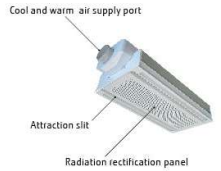
Specifications

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

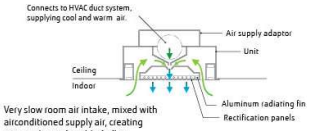
AIR BEAM
Radiation Air Outlet Unit

*Production by order
Please get in touch with us for more details.

Key component



Cross-section view

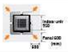
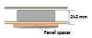


Very slow room air intake, mixed with airconditioned supply air, creating extreemly comfortable Airflow.

Built-in aluminum radiation fin and rectification panels which are helping to disperse and rectify the air current.

Airflow rate (m³/h)	180 (160-215)	270 (240-325)
Grid	600 x 2	600 x 3
AIR BEAM For system ceiling (Integrated type)	 KS-180	 KS-270

Optional Parts List For VRF

Type	Refrigerant	Indoor unit																								
		Cassette							Duct										Floor		Floor / Ceiling	Ceiling	Wall Mounted			
					Slim type	Large type	Slim type	Large type	Low Static Pressure Duct				Medium Static Pressure			High Static Pressure										
		One-way Flow	3D Flow	Compact Grid type / Standard type	4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency		Normal		High Efficiency	-	EEV external			-	EEV external	-	-
	R410A	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 36/45/54 GALH	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/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024GTAH	ARXP 024/030GTAH	ARXC 45/60GATH	ARXC 036/072/ 090/096 GTEH	ARXQ 030GTAH	AGHA 004/007/ 009/012/014 GCGH	AGHE 004/007/ 009/012/014 GCEH	ABHA 012/014/ 018/024 GTEH	ABHA 030/036/ 045/054 GTEH	ASHA 004/007/009 012/014 GCGH	ASHE 004/007/009 012/014 GCEH	ASHA 18/24GBCH	ASHA 030/034GTEH
IR Receiver Unit		● UTY-TRHX			● UTY-LRHGB1		● UTY-LBHXD		● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC			● UTY-TRHX	● UTB-YWC								
Human Sensor Kit							● UTY-SHZXC																			
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.								● UTY-XSZX				● UTY-XSZX													
Cassette Grille		● UTG-UNGA-W UTG-UNGB-W	● UTG-USGA-W	● UTG-UFGE-W UTG-UFGC-W	● UTG-UGGA-W		● UTG-UKGC-W UTG-UKGA-B																			
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 (018)	● UTD-LF25NA		● UTD-LFNA	● UTD-LF60KA (45/60/036)										
Flange												● UTD-SF04ST (018) UTD-RF204 (018)	● UTD-SF04ST UTD-RF204									● UTD-RF204				
Drain Pump Unit												● UTZ-PX1NBA (018)	● UTZ-PX1NBA									● UTR-DPB24T				
Wide Panel					● UTG-AGYA-W		● UTG-AKXA-W																			
Panel Spacer					● UTG-BGYA-W		● UTG-BKXA-W																			
Fresh Air Intake Kit[*1]	 For Compact Cassette / For Cassette			● UTZ-VXAA	● UTZ-VXGA		● UTZ-VXRA																			
Air Outlet Shutter Plate	 For Compact Cassette / For Cassette			● UTR-YDZB	● UTR-YDZC		● UTR-YDZK																			
Insulation for High Humidity	 For Compact Cassette type/ Cassette type			● UTZ-KXGC	● UTZ-KXGB	● UTZ-KXGA	● UTZ-KXRA																			
Half Concealed Kit	 This kit is used to half conceal floor typr indoor unit into the wall.																		● UTR-STA							
External Power Supply Unit		● UTZ-GXXA					● UTZ-GXXA				● UTZ-GXXA		● UTZ-GXXA				● UTZ-GXXA		● UTZ-GXXA							● UTZ-GXXA

102384 General VRF All Product Catalogue 130-135 - size: A4 - 11|6|21 - Lokesh

Function List For VRF

External Input and Output Function/External Connect Kit

Type		Refrigerant	Indoor unit: Cassette: One-way Flow	Cassette: 3D Flow	Cassette: Compact Grid type / Standard type	Cassette: Slim type 4-way Flow	Cassette: Large type 4-way Flow	Cassette: Slim type Circular Flow	Cassette: Large type Circular Flow	Duct: Low Static Pressure: Mini (With drain pump)	Duct: Low Static Pressure: Slim (With drain pump)	Duct: Low Static Pressure: Slim High Efficiency	Duct: Medium Static Pressure: Normal	Duct: Medium Static Pressure: High Efficiency	Duct: High Static Pressure: Normal	Duct: High Static Pressure: High Efficiency	Duct: Floor: -	Duct: Floor: EEV external	Indoor unit: Floor / Ceiling		Wall Mounted: -	Wall Mounted: EEV external	Wall Mounted: -	Outdoor unit: J-IVL	J-IV	J-IVS	V-III	V-III Tropical	VR-IV	Controller: Central Remote Controller	Other: RB Unit
		R410A	AUEY 004/007/009/ 012/014/018/ 024GLEH	AUEQ 018/024 GLEH	AUEB 004/007/009/ 012/014/018/ 024GLEH	AUEQ 18/24GALH	AUXA 18/24/28/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH , AUXM 018/024/030 GLEH	AUXN 018/024/030/ 036/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLEH	ARXD 007/009/012/ 014/018/024 GLEH, ARYD 045GALH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/090/ 096GTEH, ARXK 45/60GATH	ARXQ 030GTAH	AGHA 004/007/ 009/012/014 GLEH	AGHE 004/007/ 009/012/014 GCEH	ABHA 012/014/018/ 024GTEH	ABHA 030/036/045/ 054GTEH	ASHA 004/007/009 /012/014 GCEH	ASHE 004/007/009 /012/014 GCEH	ASHA 18/24GBCH	ASHA 030/034GTEH	AJH 072/090/108/ 126/144/162 LELBH	AJH 048/054/054 LELBH, AJH 048/054/054 LELBH	AJH 048/054/054 LELBH	AJH 072/090/108/ 126/144/162 LALBH	AJH 072/090/108/ 126/144/162 LNLBH	AJH 072/090/108/ 126/144 GALBH	UTY-DCGG21	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH
Input	Operation / Stop		● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB												
	All On / All Off																												●UTY-XWZXZ7 ○UTY-XWZXZB	
	Batch Stop																							● UTY-XWZXZ6						
	Forced Stop		● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB												
	Emergency Stop		● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB							● UTY-XWZXZ6				●UTY-XWZXZ7 ○UTY-XWZXZB	
	Forced Thermostat off		● UTY-XWZXZE ○ UTY-XWZXZ7																● UTY-XWZXZE ○ UTY-XWZXZ7												
	Low Noise Mode Operation																							● UTY-XWZXZ6						
	Cooling/ Heating Priority																							● UTY-XWZXZ6					●UTY-XWZXZ6 ○UTY-XWZXZB	
	Outdoor Unit Operation Peak Control																							● UTY-XWZXZ6						
	Power Usage Information from Electricity Meter																							● UTY-XWZXZF						
Output	Operation Status		● UTY-XWZXZC																● UTY-XWZXZC							○ UTY-XWZXZ6				○UTY-XWZXZA	
	Error Status		● UTY-XWZXZC																● UTY-XWZXZC							○ UTY-XWZXZ6				○UTY-XWZXZA	
	Indoor Unit Fun Operation Status		● UTY-XWZXZC																● UTY-XWZXZC												
	Auxiliary Heater Output									● UTY-XWZXZC			● UTY-XWZXZC			● UTY-XWZXZC															
	Base Heater																									● UTY-XWZXZ9		● UTY-XWZXZ9			

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

●: Dry Contact ○: Apply Voltage

Communication system

External Connect Kit

For Indoor unit

UTY-XWZXZ7

UTY-XWZXZB

UTY-XWZXZC

UTY-XWZXZD

UTY-XWZXZE

For Outdoor unit

UTY-XWZXZ6

UTY-XWZXZ9

UTY-XWZXZF

For RB unit

UTY-XWZXZ6

UTY-XWZXZB

For Central Remote Controller

UTY-XWZXZ7

UTY-XWZXZ8

UTY-XWZXZA

For Touch Panel Controller

UTY-XWZXZA

Separation Tube etc.

Separation Tube

UTP-AX054A

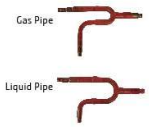
UTP-AX090A

UTP-AX180A

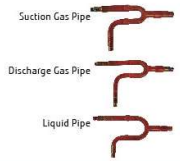
UTP-AX567A

Outdoor Unit Branch Kit

UTP-CX567A



UTP-DX567A



EV Kit

Model code ≦ 09 : UTR-EV09XB
Model code ≧ 12 : UTR-EV14XB
For Compact Wall Mounted type

Separation Tube

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

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

Outdoor unit Branch kit

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

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASHE004GCEH ASHE007GCEH ASHE009GCEH	AGHE004GCEH AGHE007GCEH AGHE009GCEH	ASHE012GCEH ASHE014GCEH	AGHE012GCEH AGHE014GCEH