

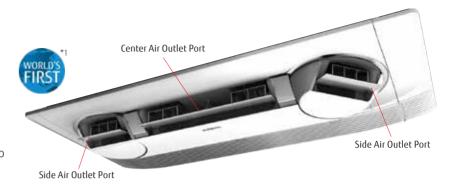
# Comfort



#### 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.





#### **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.



#### 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.





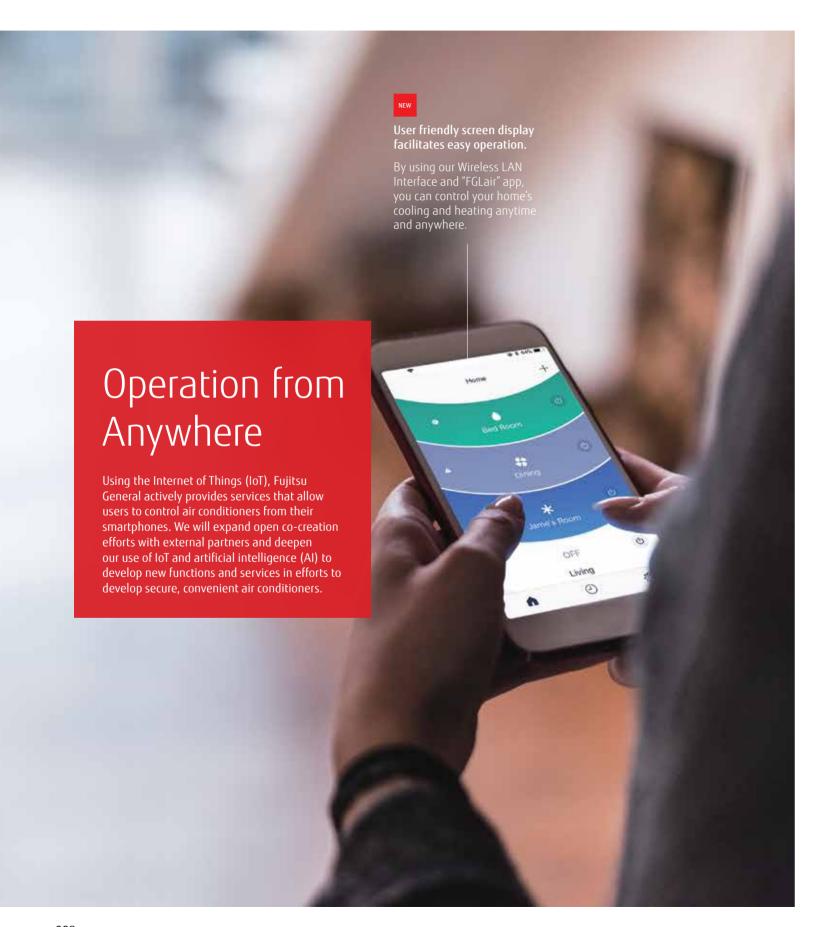


#### **Compact Floor**

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.

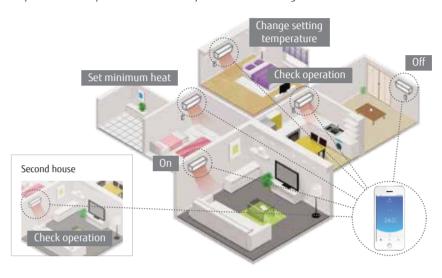


# Control



## 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.











#### **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.



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

1971 Air conditioner exports to Middle

**1977** "Super Power, Super Quiet" Series

1982 Window type 3 Super Series

AL/AX Series



1985 Large wall mounted and multi air conditioner introduced.



1950 ~

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

010

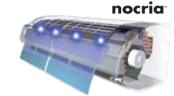
**1991** Air conditioner with the world's first lambda heat exchanger

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

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



2002 Air conditioner with the world's first automatic self-cleaning filter system



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

AIRSTAGE 7

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





AIRSTAGE™ V-II Series is released.



2000 ~



1970 ~

#### Manufacturing Company Establishment

**1955** Headquarters in Kawasaki **1964** Electronic components factory in Ichinoseki



(EURO) GmbH

**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.

#### Sales & Service Maintenance Company Establishment

**1976** North America sales company

**1977** Europe sales company (UK)

sales company (Germany)

1998 Middle East sales company (UAE)

**2000** Air conditioner manufacturing and sale technical partnership in India

2002 Taiwan sales company

2006 China sales company

J-II Series is released.

For Light Commercial

2014 Small & lightweight outdoor unit

**2011** High energy saving type AIRSTAGE™

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 AIRSTAGETM J-IIIL suitable for diverse light commercial properties is released.

2012 Heat Recovery Modular type

large properties is released

AIRSTAGETM VR-II Max. 48 HP is released.



AIRSTAGE J-IIS

New cassette style released. 3D Flow Cassette

2014-15 Heat Pump Modular type AIRSTAGETM V-III Max. 54 HP ideal for

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)



X nocriaX

For Light Commercial

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





AIRSTAGE J-IV







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





Ceiling







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



2020 New Topic

2010 ~

2012 Joint venture in Thailand to manufacture compressors

2016 Commercial use air conditioner R&D Center in Thailand



2016 THE AIRSTAGE on

Broadway in New York

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



**1978** Australia sales company / Europe

**1980** Brazil sales company

**1997** Asia sales company (Singapore)

/ New Zealand 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) nunced 2002. In room air conditioner for the home (our company's investigation)

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



## 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)

· Air conditioner solution center "THE AIRSTAGE" in Manhattan, New York

• Fujitsu General America, Inc.

• Fujitsu General Do Brasil Ltda

Overseas Sales Companies



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



Fujitsu General (Taiwan) Co., Ltd.



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



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





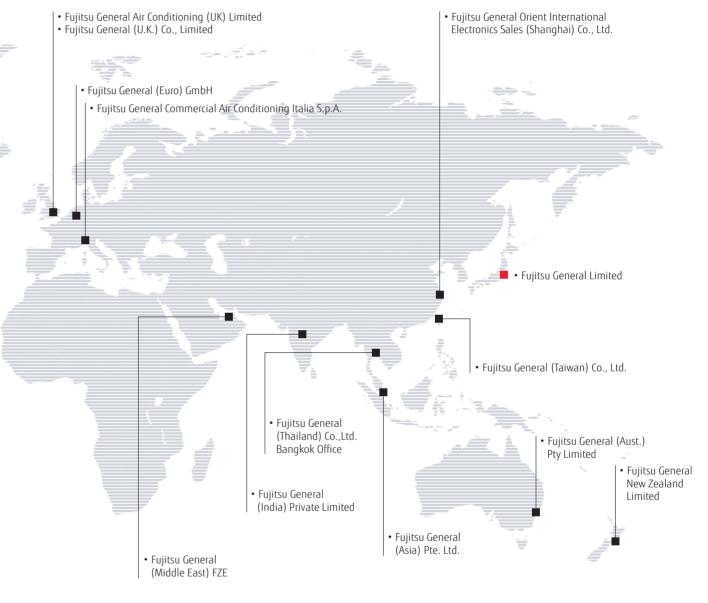
Fujitsu General (U.K.) Co., Ltd. (U.K.)



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



Conditioning Italia S.p.A. (Italy)





Fujitsu General (Aust.) Pty Ltd.



Fujitsu General New Zealand Ltd. (New Zealand)



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





FUIITSU GENERAL SOLUTION

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









### Middle East









### Europe











Oceania







Service & Maintenance

#### Asia









#### International authoritative design awards









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





The iF Product Design each year by "iF International Forum Design GmbH" for



The product design competition has existed since 1955. Its award, the "red dot", is an internationally reddot winner 2020 recognized quality



"Most Efficient Air



China State Construction Engineering Luban



The Good Design Award is sponsored by the Japan Institute of Design Promotion a year for an item of



# Project Reference





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



#### For Light Commercial

- 1 Shop in Europe
- Shop in Europe
- Museum in Europe
- 4 Restaurant in Middle East
- 5 3CH00HH U.S.A
- 6 Hotel in Oceani
- 8 Shop in Asia
- 8 Snop in Asia













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 OfficeR&D CenterManufacturing Companies

#### R&D Center & Technology Research Building



R&D Center in Fujitsu General (EURO) GmbH



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)

## Utilizes the IoT

 Fujitsu General (Euro) GmbH R&D Center

Fujitsu General America, Inc.

—R&D Center

Technology Research Building

on assembly lines, and the inventory and transportation situation of parts). Head Office and Factory Management Department. In addition, we will also of employees in production sites with the aim of improving the productivity and facility operating ratio.

#### Construction of Manufacturing That

We will introduce a real-time IoT System operating situation, production progress production and shipping forecasts in the

# **Overseas Manufacturing**

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

Fujitsu General Limited

\_R&D Center

Fujitsu General (Shanghai) Co., Ltd.

\_\_\_R&D Center

• F.G.L.S Electric Co., Ltd.



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

Companies



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



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



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

—R&D Center

New Fujitsu General (Thailand) Co., Ltd.

(Thailand) FACTORY-2

• FGA (Thailand) Co., Ltd.

• Fujitsu General (Thailand) Co., Ltd.

• TCFG Compressor (Thailand) Co., Ltd.



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

#### **Performance Testing**



#### Air Volume Measurement Room

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



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



Measure the operating sounds of air conditioners with the sound reflection-proof walls and

Fujitsu General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest

quality and performance

using these facilities.

#### **Reliability Testing**



**Constant Temperature Room** 

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



**Practical Test Room** 

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



**Shower Test Room** 

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



#### **Transportation & Handling**



Compressibility testing



Vibration testing

## **Testing Laboratory**

Fujitsu General EMC Laboratory Limited







#### 60 m Height Difference **Testing Tower**

Objective is to confirm oil circulation of compressor for reliability

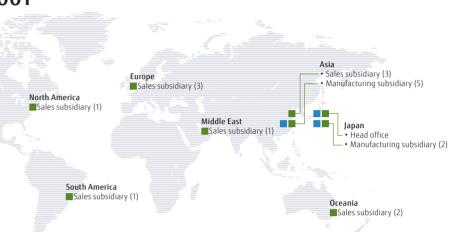


## Acquisition of ISO 9001 and ISO 14001

ISO 9001

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

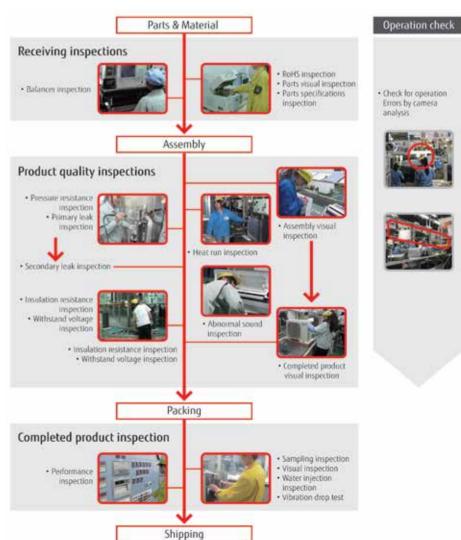
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

#### 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.

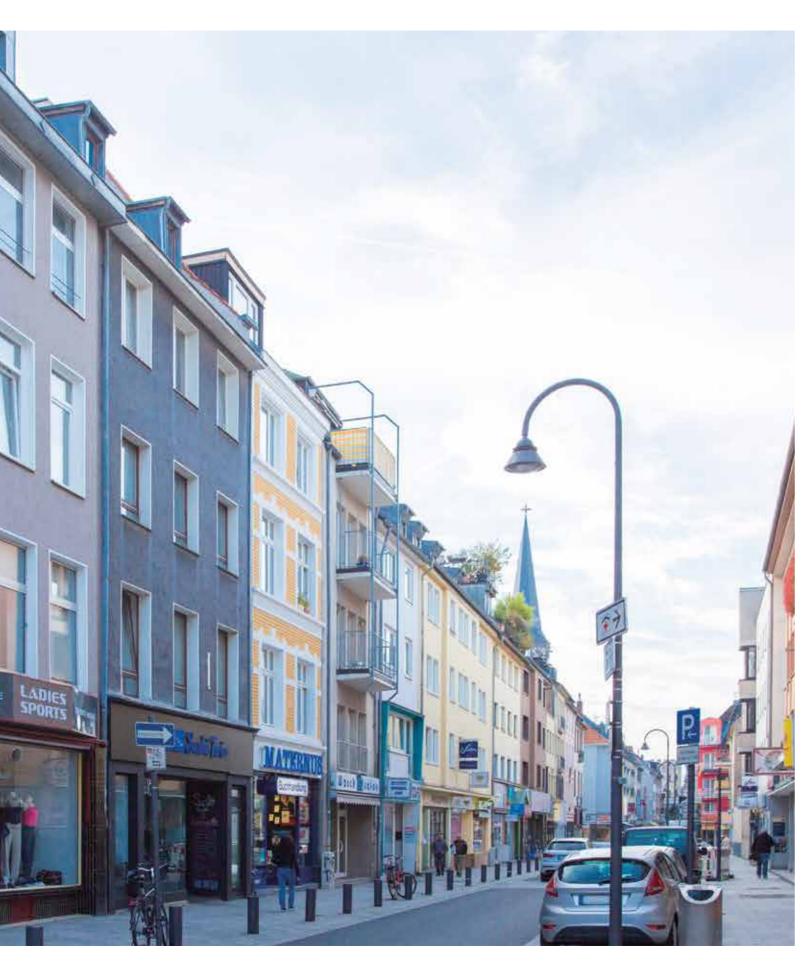
#### Stringent product quality inspection

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



#### **AIRSTAGE**

# AIRSTAGE<sup>™</sup> J Series Overview





# 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

# Max.6 HP Heat Pump, Compact Design

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.





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

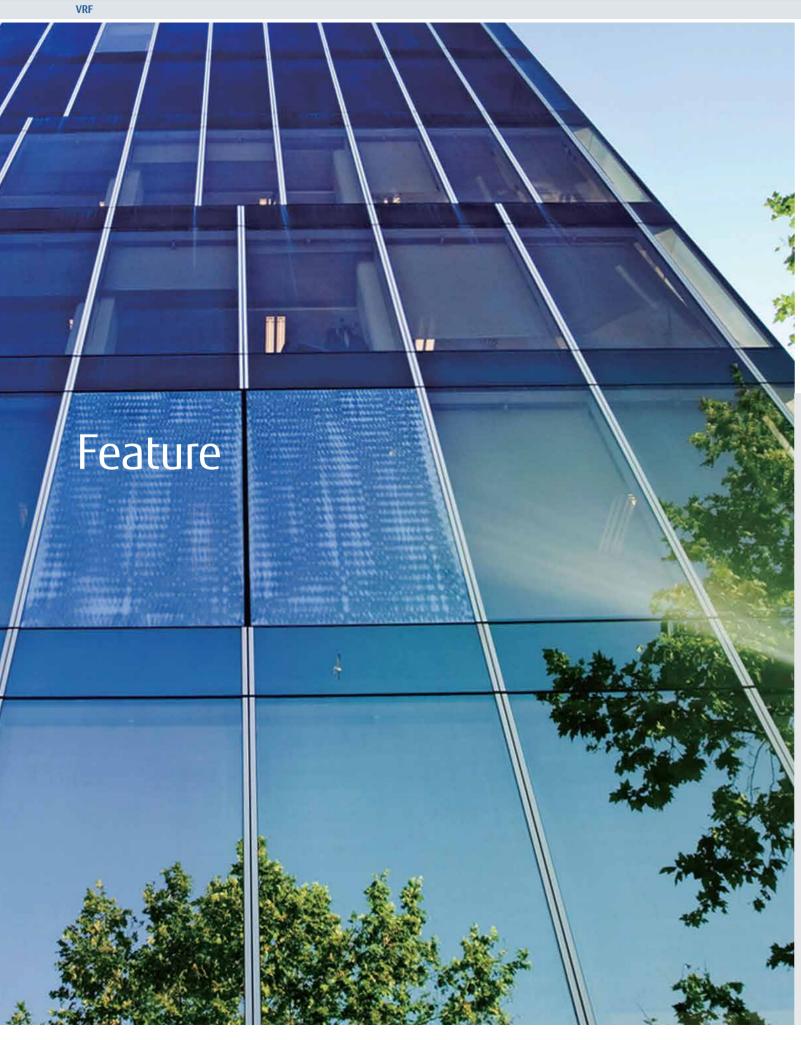
All metallic and PCB components are protected against corrosion



## 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
НР	4	5	6	8	10	12	14	16	18	20	22	24	26	2	8	30	32	34	36	38	40	42	44	46	48	50	52	54
J-IVL Series				0	0	0	0	0	0																			
				AJH072 LELBH	AJH090 LELBH	AJH108 LELBH	AJH126 LELBH	AJH144 LELBH	AJH162 LELBH																			
J-IVS Series	0	0	0																									
	AJH040 LCLBH	AJH045 LCLBH	AJH054 LCLBH																									
Space Saving				Ð	1		î	ı	ı	00							00					00)	999	000	000	000		
Tropical Set Model				AJH072 LNTCH	AJH090 LNTCH	AJH108 LNTCH	AJH126 LNTCH	AJH144 LNTCH	AJH162 LNTCH	AJH180 LNTCH	AJH198 LNTCH	AJH216 LNTCH	AJH234 LNTCH	AJH LN1	252 CH	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
Energy Efficiency								00	0.0			999				33)			000									
Set Model								AJH144 LNTCHH	AJH162 LNTCHH	AJH180 LNTCHH		AJH216 LNTCHH	AJH234 LNTCHH	AJH LNTO		AJH270 LNTCHH	AJH288 LNTCHH	AJH306 LNTCHH	AJH324 LNTCHH	AJH342 LNTCHH	AJH360 LNTCHH	AJH378 LNTCHH	AJH396 LNTCHH	AJH414 LNTCHH				



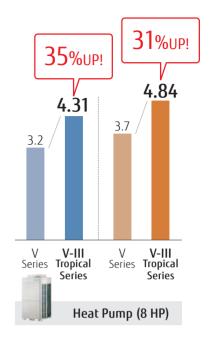


## **High** Efficiency

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







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.

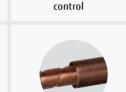












4 Subcool heat exchanger





1 3 phase DC fan motor

3 Sine-wave DC invertor control





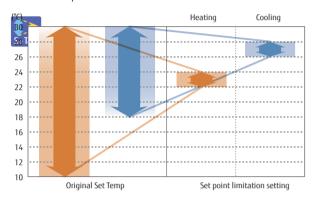
4 Subcool heat exchanger heat exchanger



## Operation Performance is Efficiently Controlled.

#### Room temperature set point limitation

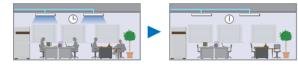
The minimum and maximum temperature ranges can be limited, which provides further energy saving while maintaining the comfort of the occupants.

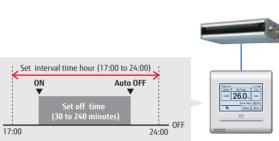


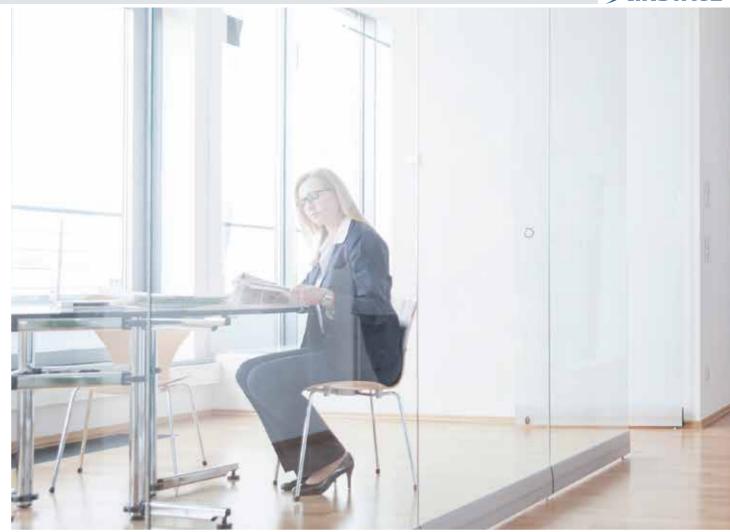


#### Auto-off timer

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

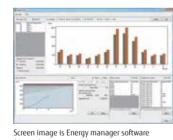
Excellent energy saving operation is performed by using System Controller.

Capacity save operation

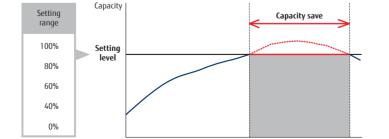
Operation capacity can be set in 5

the maximum load is suppressed.

steps for rated capability. The power consumption at peak is cut down and

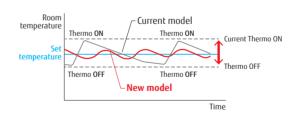






#### New intelligent refrigerant control

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.



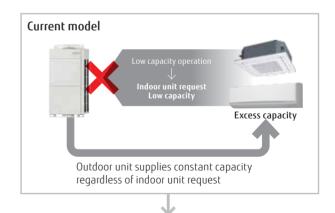
#### Current refrigerant control

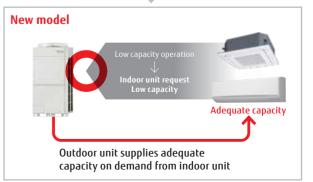
Thermostat-ON/OFF occurs frequently.

→The comfort is not good since room temperature often changes. Energy saving is not good since compressor is repeated starting and stopping frequently.

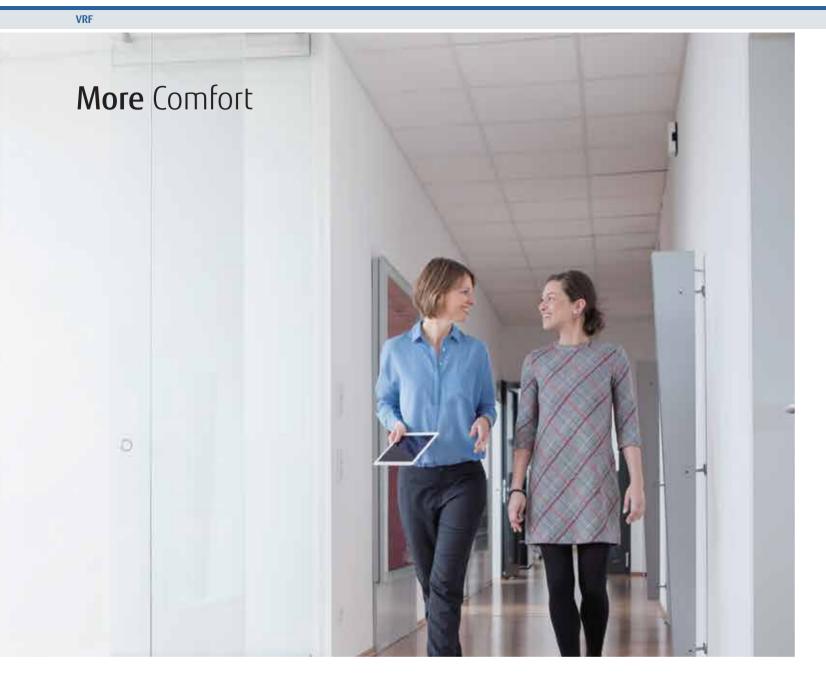
#### New refrigerant control

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.





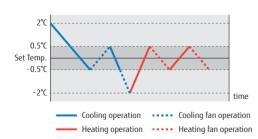
<sup>\*</sup> The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating conditio



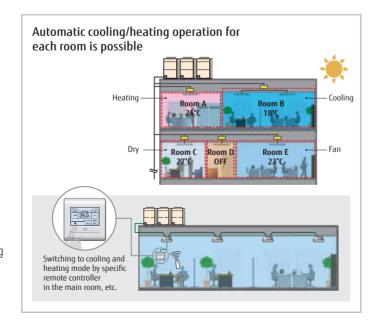
## Auto

#### **Auto changeover function**

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

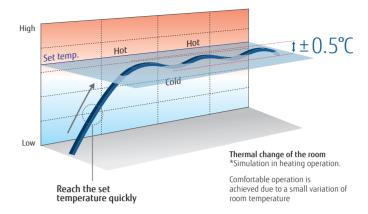


Auto changeover setting allows for the indoor unit to easily switch between cooling and heating regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.



#### 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  $\pm 0.5^{\circ}$ C.

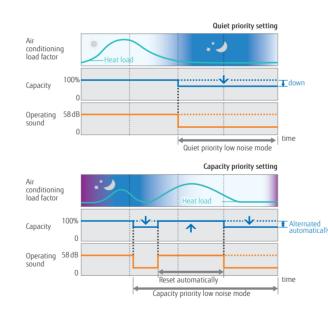


### Quiet operation

## (t au Noise

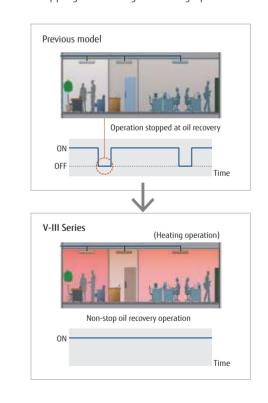
#### **Quiet operation**

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.



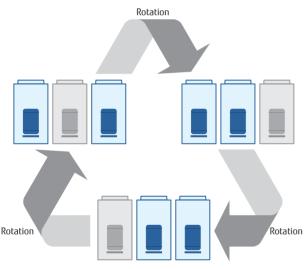
#### **AIRSTAGE**

## **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.



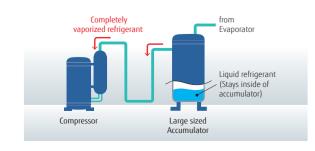
#### Advanced refrigerant control

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.



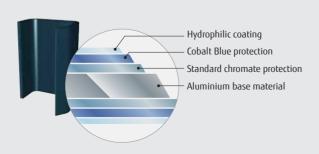
#### Liquid flow back protection

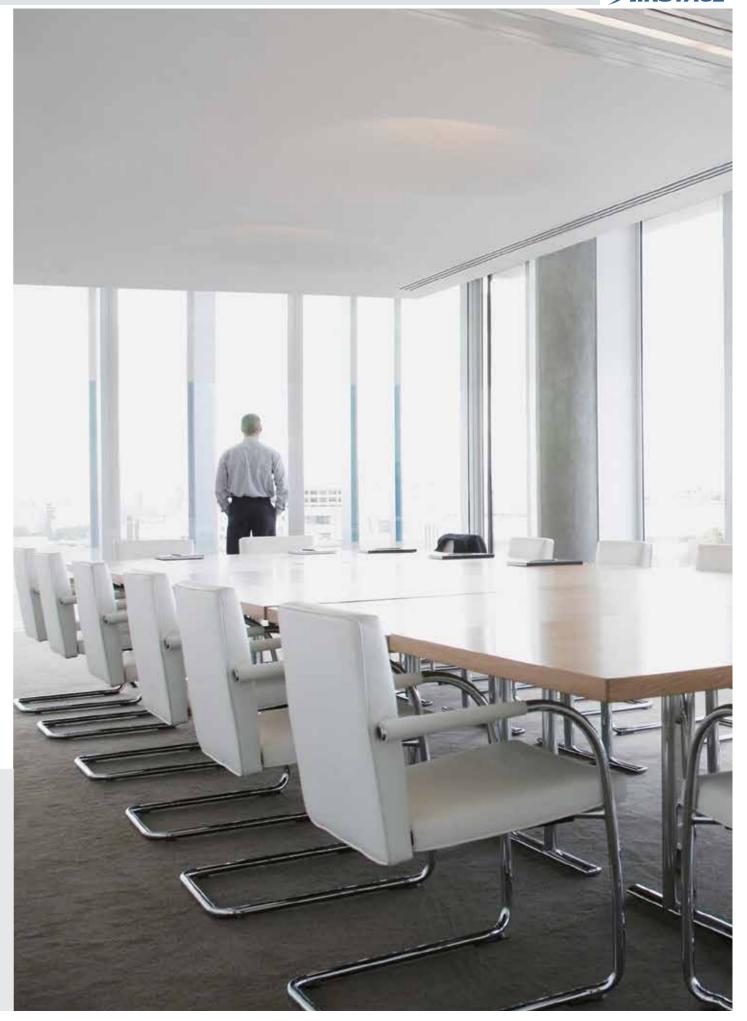
By adopting a large sized accumulator, not completely vaporised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.



#### 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.





#### **AIRSTAGE**

## **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)

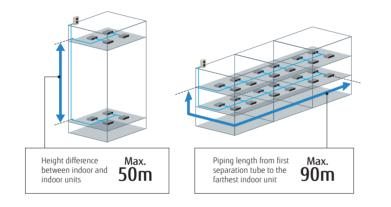


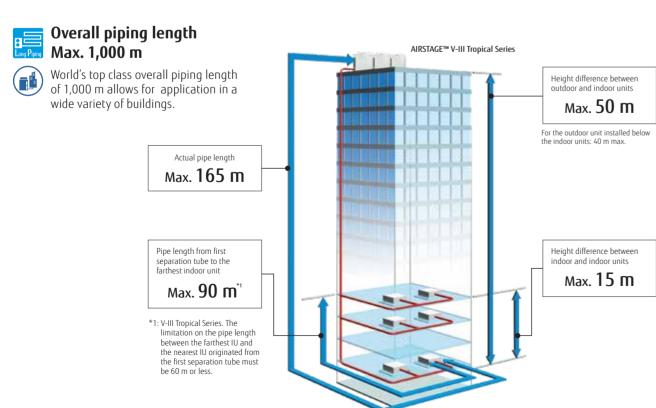
#### Long piping design



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

(AIRSTAGETM J-IVL Series)





#### 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%* <sup>2</sup>	up to 42*4
	AIRSTAGE™ J-IVL Series 8/10/12 HP Heat Pump type	50% to 150%*2	up to 30*5
0	AIRSTAGE™ J-IVS Series Heat Pump type	50% to 130%*2	up to 13
999	AIRSTAGE™ V-III Tropical Series Heat Pump Modular type	50% to 150%* <sup>3</sup>	up to 55

- \*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
- \*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 m<sup>2</sup>.





#### 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









Control unit

#### Low ambient operation

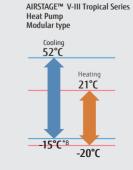
Refrigeration cycle technology allows cooling operation even at -15°C.

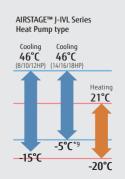


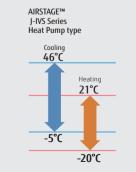
#### Wide operating range

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

- \*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.







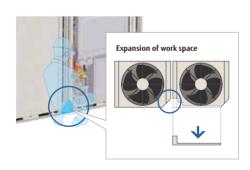






#### Easy access

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

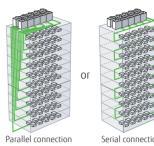
#### Flexible piping connection

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.



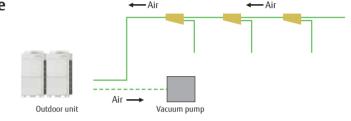
Up to maximum length 3,600 m

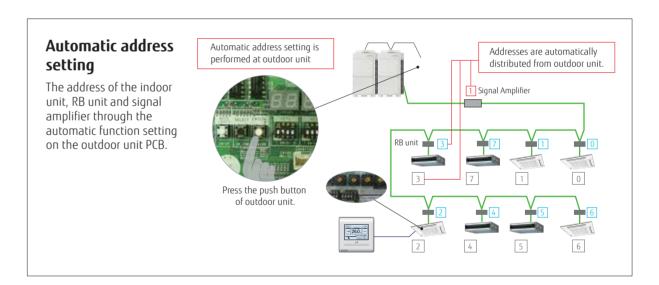
Note: Serial connection can't use the automatic address setting in

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.





## 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.



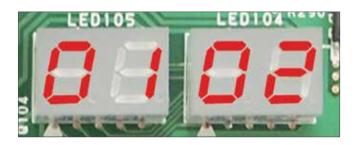
039

#### **AIRSTAGE**

## 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.

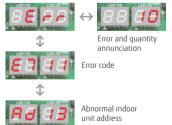


#### Easy to read 7-segment LED:

Confirm detailed operational and error status without using any

#### Error status can be checked easily by outdoor unit display

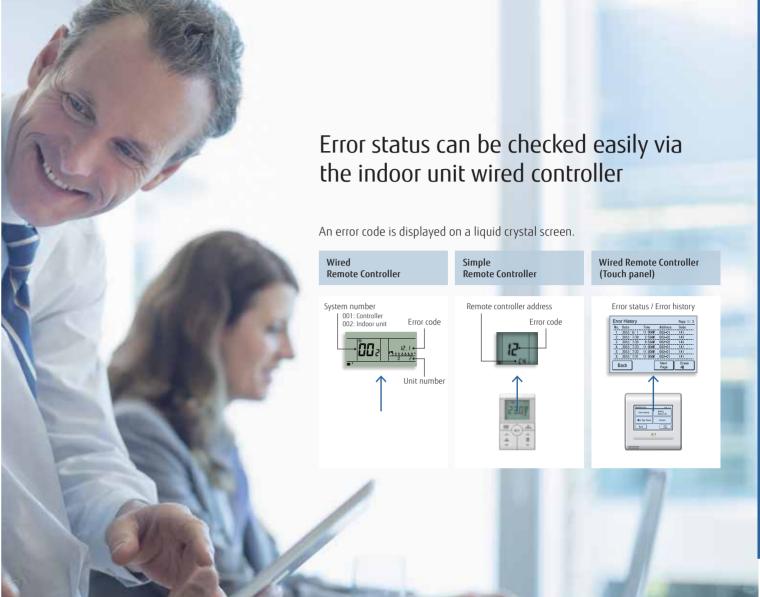
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit







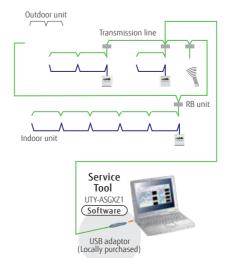




#### **Error diagnosis by Service Tool**

#### **Connection to Service Tool**

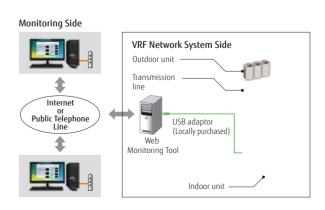
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can also be recorded.



#### Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free

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





The AIRSTAGE 3 Series has a total of 99 Indoor models to meet the environmental and building size requirements.

odels rements.

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

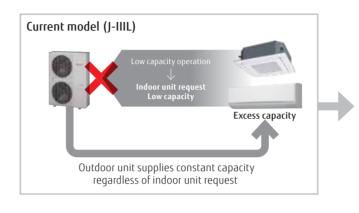
HEAT PUMP TYPE AIRSTAGE V-III TROPICAL Series

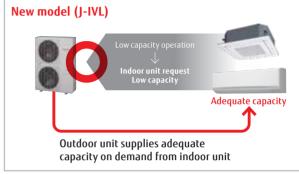


## New intelligent refrigerant control

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.



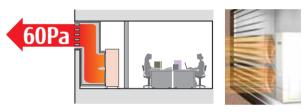


<sup>\*</sup> The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition

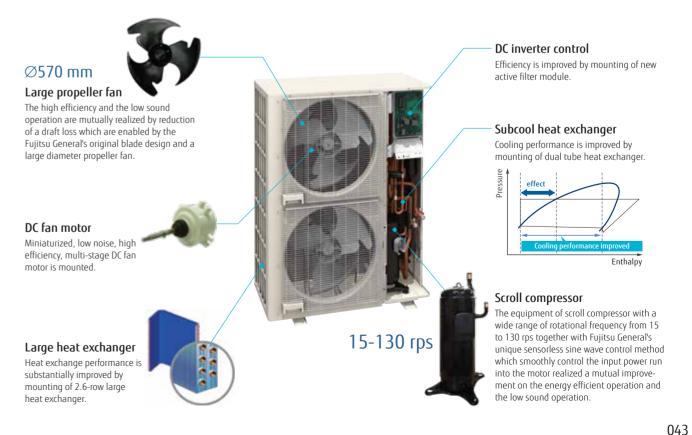
#### External static pressure

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



#### Advanced high efficiency technology



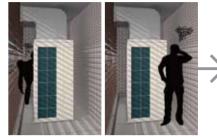
# Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms. AIRSTAGE J-IVL

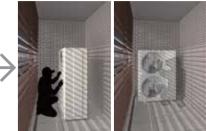
#### Slim & Compact Design Height difference -262<sub>mm</sub> AIRSTAGE J- TVL AIRSTAGE J- TVL 14/16/18 HP models 8/10/12 HP models Current model AIRSTAGE™ V Series outdoor unit 14/16/18 HP models Weight Space requirement Depth difference Space requirement -285<sub>mm</sub> -45%! -58 kg!-26%!

Compared with current 8/10 HP models

#### Various Installation







AIRSTAGE J- [V]

AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor uni

#### 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.





AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

#### Narrow space behind building

#### Space saving

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





AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

#### Installation at back street of building

#### Flexible installation

This model is front 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.

J-IVL all models

red with current all mo

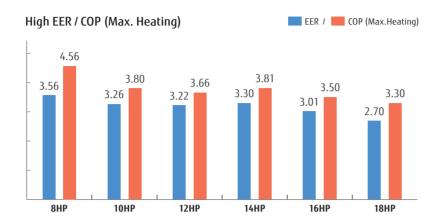
Compared with current 14/16/18 HP model

#### AIRSTAGE J- [V]

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

#### 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



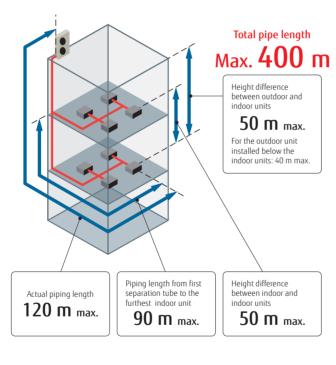
#### Long piping length

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.





#### **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		
	Cooling		22.4	28.0	33.5	40.0	45.0	50.0
Capacity	Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Max Heating	] [	25.0	31.5	37.5	45.0	50.0	55.0
Airflow rate		m³/h	8,400	9,000	11,000/12,100	13,000	14,000	14,800/15,300
Sound pressure level /	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	65/79
Power level	Heating	UD(A)	54/—	57/—	62/—	63/—	65/—	68/—
	Height		1,428	1,428	1,428	1,638	1,638	1,638
Net Dimensions	Width	mm	1,080	1,080	1,080	1,080	1,080	1,080
	Depth	1	480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Defriesess	Type (Global Warmin	ng Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant	Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8 (24.6)
Connection pipe	Liquid		9.52	9.52	12.70	12.70	12.70	12.70
diameter	Gas	mm	19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length			400	400	400	400	400	400
Max. height difference		m			50/40 (Outdoor u	nit: Upper/Lower)		
peration range	Cooling	•c	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating	1 '	-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.

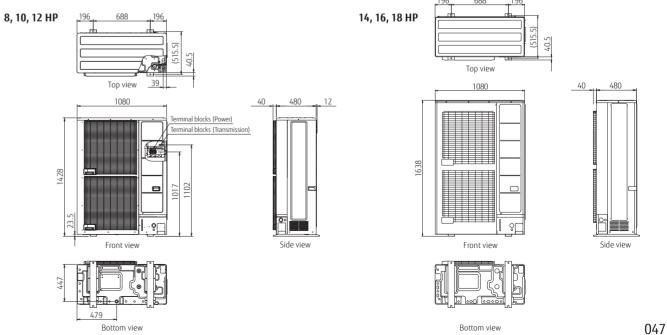
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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**

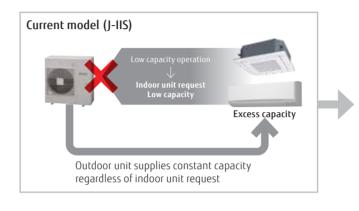




## New intelligent refrigerant control

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.

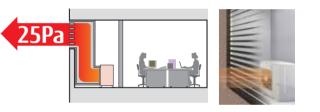




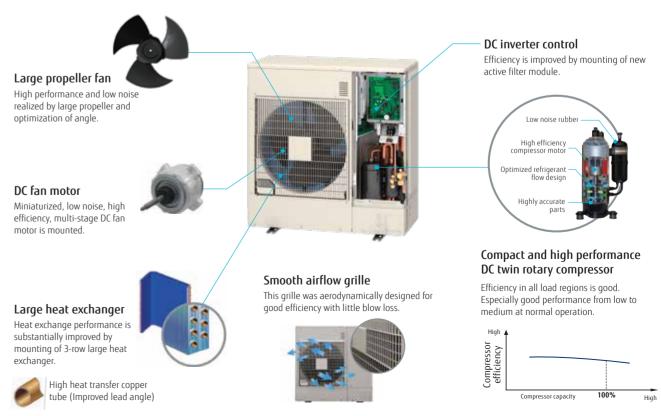
<sup>\*</sup> The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

#### External static pressure

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



#### Advanced high efficiency technology



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

#### 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

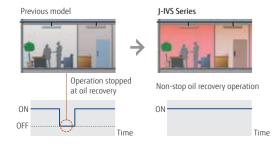
\*: 6 HP model

Model	Curre	nt 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

## Total pipe length Max. **80** m Height difference between outdoor and indoor units 30 m max. Piping length from first eparation tube to the urthest indoor unit between indoor and indoor units Actual piping length 50 m max. 40 m max. 15 m max.

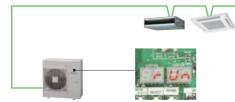
#### Non-stop oil recovery operation

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



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



AIRSTAGE J-IVS

#### **Specifications**

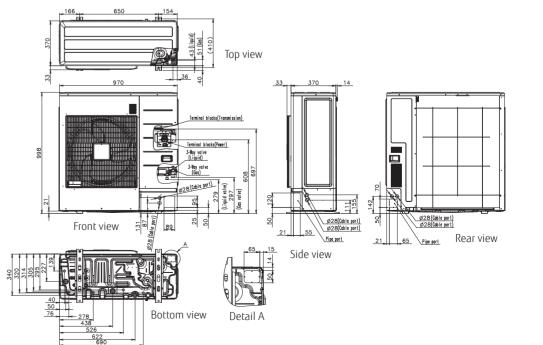
Rating Capacity range			4	5	6
Model name		'	AJH040LCLBH	AJH045LCLBH	AJH054LCLBH
Maximum Connectable	Indoor Unit		1-11	1-12	1-13
Power source				Single phase, ~230V, 50Hz	
	Cooling		12.1	14.0	15.1
Capacity	Nominal Heating	kW	12.1	14.0	15.1
	Max Heating	1	13.6	16.0	16.5
Airflow rate		m³/h	4,040	4,200	4,200
Sound pressure level /	Cooling	4D(A)	51 / 67	53 / 69	54 / 70
ower level Heating		dB(A)	54 / 68	56 / 69	56 / 70
Heat exchanger fin			Blue fin	Blue fin	Blue fin
	Height		998	998	998
Net Dimensions	Width	mm	970	970	970
	Depth	1 🗆	370	370	370
Weight		kg	86	86	87
	Type (Global Warming I	Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe	Liquid		9.52	9.52	9.52
diameter	Gas	mm	15.88	15.88	15.88
Total pipe length			80	80	80
Max. height difference		m	30	30	30
peration range	Cooling	°c	-5 to 46	-5 to 46	-5 to 46
	Heating	1 '	-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**



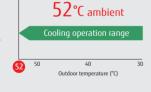


Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8HP to 54HP in 2HP increment Connectable indoor unit capacity ratio up to 150%

#### System Outline

## High ambient operation design

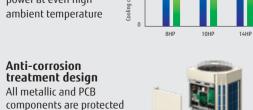
Possible to operate cooling up to 52°C outdoor temperature



#### Powerful cooling capacity design

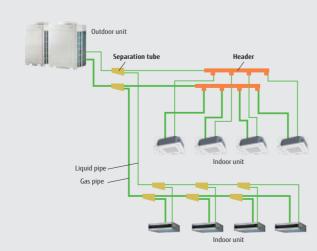
Keeping high cooling power at even high ambient temperature

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-
- · Connection of multiple indoor units using separation tubes and



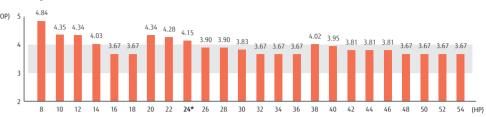
#### **Features**

AIRSTAGE V-III

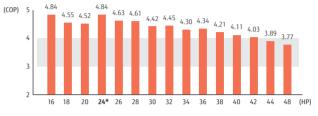
#### **Energy efficiency**

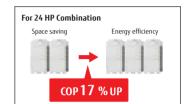
Top class high COP is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.

#### 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

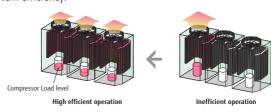
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

Front intake port (corner cut air inhaling structure)

#### Advanced energy saving control

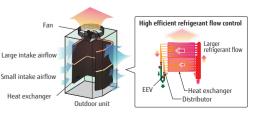
#### Multiple outdoor operation control

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



#### 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

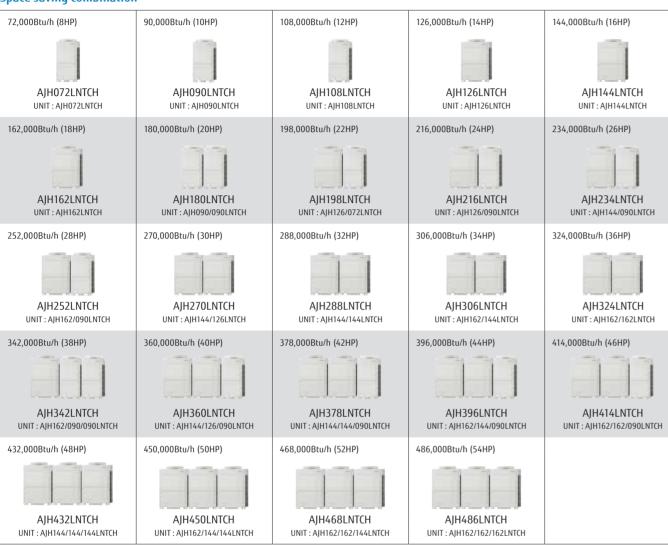


## AIRSTAGE V- III

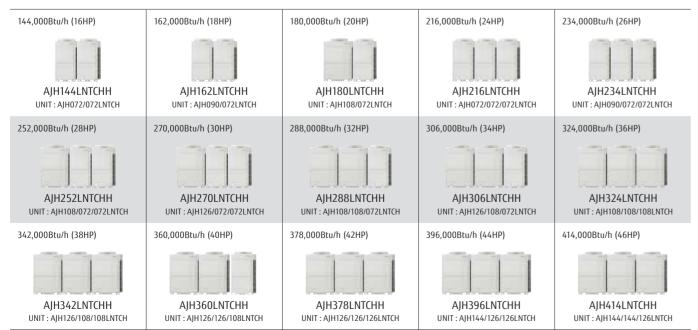
#### **Outdoor units lineup**

• Combinations other than the followings are not recommended.

#### Space saving combination



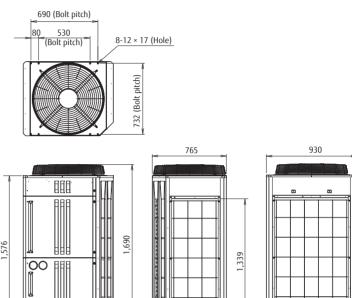
#### **Energy efficiency combination**



AJH\_\_LNTCH(H): AJH\_\_LNTCH(H), AJH\_\_LNLBH(H)

#### **Dimensions**

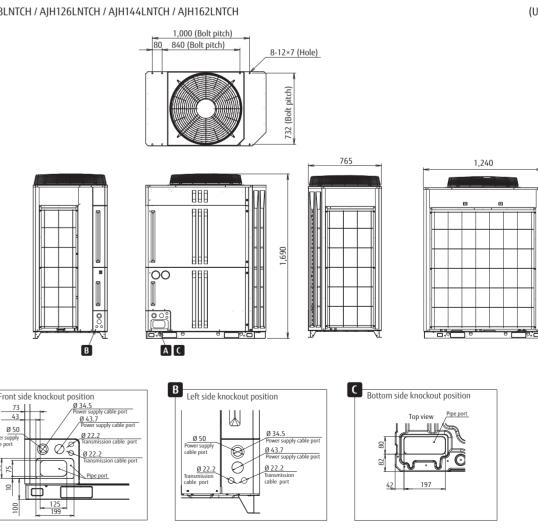
8,10HP: AJH072LNTCH / AJH090LNTCH



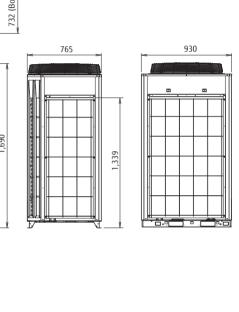
12,14,16,18HP: AJH108LNTCH / AJH126LNTCH / AJH144LNTCH / AJH162LNTCH

В

AC



(Unit:mm)



(Unit:mm)

# AIRSTAGE V- III TROPICAL Series

#### Outdoor units specifications

#### Space Saving Combination

Space Saving Combination																										
Rating Capacity range		НР	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
	'		- 60	24		145	70.0		100,100		11070	1000h	'		1000	1000		attentonio.		1000 and	75-170-				Sec. Cities	
				1					1 1			1 1														
																	- 18								3	
Set Model name			AIH072LNTCH	AIH090LNTCH	I AIH108LNTCH	AIH126LNTCH	AIH144LNTCH	AIH162LNTCH	AIH180LNTCH	AIH198LNTCH	AIH216LNTCH	AIH234LNT0	H AJH252LNTCH	AIH270LNTCH	AIH288LNTCH	AJH306LNTCH	AIH324LNTCH	AJH342LNTCH	AIH360LNTHC	AIH378LNTCH	AIH396LNTCH	AJH414LNTCH	AIH432LNTCH	AIH450LNTCH	AIH468LNTCH	AIH486LNTCH
Unit 1			7,710722.1116.11	7,110302.111011	7,111002.1110.1	7,111202111611	7,111112111211	7,111022111611		-			H AJH162LNTCH			AJH162LNTCH	-	AJH162LNTCH	_		-	AJH162LNTCH				
Unit 2													H AJHO9OLNTCH				AJH162LNTCH	AJH102LNTCH				AJH162LNTCH				
Unit 3									7,110302111611	7,,1107221110	7,110302111611	7,110502.1110	7,110302.111611	7,111202111011	7,,	/ yiiii i iziii cii	, grinde Entrein	AJH090LNTCH				AJH090LNTCH				
Maximum Connectable Indoor Unit*1			13	16	19	23	26	29	33	36	40	43	46	50	53	55	55	55	55	55	55	55	55	55	55	55
Indoor unit connectable capacity	Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.2-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.	5 39.0-109.5	42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5
Power source							2 phase /	wire, 400 V,	EUH-										2 phase / w	ire, 400 V, 50H	1-					
Power source	Cooling		22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
Capacity	Cooling Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5	95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
Airflow rate	High	m³/h	11,100	11.100	13,000	13,000	13,700	13.700	11.100x2			13.700+11.10	0 13,700+11,100	13,700+13,000	13.700x2	13,700×2	13.700x2	13,700+11,100x2	13.700+13.00+11.100	13.700x2+11.100	13.700x2+11.100		13.700x3	13,700x3	13,700x3	13,700x3
C	Cooling	ID(A)	56	58	57	60	62	63	61	61	62	63	64	64	65	66	66	65	65	66	66	67	67	67	67	68
Sound pressure level*2	Heating	dB(A)	58	59	60	62	64	64	62	63	64	65	65	66	67	67	67	66	67	68	68	68	69	69	69	69
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Heat exchanger fin			Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin
	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
Dimensions	Width	mm	930	930	1240	1240	1240	1240	930x2	1,240+930	1,240+930	1,240+93	1,240+930	1,240x2	1,240x2	1,240×2	1,240x2	1,240+930x2	1,240x2+930	1,240x2+930	1,240x2+930	1,240x2+930	1,240x3	1,240x3	1,240x3	1,240x3
	Depth	mm	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight	kg		255	255	279	279	279	279	255x2	279+255	279+255	279+255	279+255	279x2	279x2	279×2	279x2	279+255x2	279x2+255	279x2+255	279x2+255	279x2+255	279x3	279x3	279x3	279x3
Refrigerant Charge	kg		11.7	11.7	11.8	11.8	11.8	11.8	11.7x2	11.8+11.7	11.8+11.7	11.8+11.7	11.8+11.7	11.8x2	11.8x2	11.8×2	11.8x2	11.8+11.7x2	11.8x2+11.7	11.8x2+11.7	11.8x2+11.7	11.8x2+11.7	11.8x3	11.8x3	11.8x3	11.8x3
C	Liquid		12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
Connection pipe diameter	Gas	mm	22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	°C	- 15 to 52	- 15 to 52	- 15 to 52	- 15 to 52	- 15 to 52	- 15 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	-5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52
operation range	Heating	C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5x2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5	11.0x2	11.0x2	11.0×2	11.0x2	11.0+7.5x2	11.0x2+7.5	11.0x2+7.5	11.0x2+7.5	11.0x2+7.5	11.0x3	11.0x3	11.0x3	11.0x3

#### Energy Efficiency Combination

Rating Capacity range	e	НР	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
Set Model name			AJH144LNTCHH	AJH162LNTCHH	AJH180LNTCHH	AJH216LNTCHH	AJH234LNTCHH	AJH252LNTCHH	AJH270LNTCHH	AJH288LNTCHH	AJH306LNTCHH	AJH324LNTCHH	AJH342LNTCHH	AJH360LNTCHH	AJH378LNTCHH	AJH396LNTCHH	AJH414LNTCHH
Unit 1 Unit 2 Unit 3			AJH072LNTCH AJH072LNTCH	AJH090LNTCH AJH072LNTCH	AJH108LNTCH AJH072LNTCH	AJH072LNTCH AJH072LNTCH AJH072LNTCH	AJH090LNTCH AJH072LNTCH AJH072LNTCH	AJH108LNTCH AJH072LNTCH AJH072LNTCH	AJH126LNTCH AJH072LNTCH AJH072LNTCH	AJH108LNTCH AJH108LNTCH AJH072LNTCH	AJH126LNTCH AJH108LNTCH AJH072LNTCH	AJH108LNTCH AJH108LNTCH AJH108LNTCH	AJH126LNTCH AJH108LNTCH AJH108LNTCH	AJH126LNTCH AJH126LNTCH AJH108LNTCH	AJH126LNTCH AJH126LNTCH AJH126LNTCH	AJH144LNTCH AJH126LNTCH AJH126LNTCH	AJH144LNTCH AJH144LNTCH AJH126LNTCH
Maximum Connectab	le Indoor Unit*1		26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit connectab	ble capacity	kW	22.4-67.2	25.2-75.6	28-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2	44.7-134.1	48-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60-180.0	62.5-1875	65-195.0
Power source					3-p	hase 4 wire, 400 V, S	50Hz						3-phase 4 wir	e, 400 V, 50Hz			
	Cooling		44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
Capacity	Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
Airflow rate	High	m³/h	11,100x2	11,100x2	13,000+11,100	11,100x3	11,100x3	13,000+11,100x2	13,000+11,100x2	13,000×2+11,100	13,000x2+11,100	13,000x3	13,000x3	13,000x3	13,000x3	13,700+13,000x2	13,700x2+13,000
Sound pressure level*2	Cooling	dB(A)	59	60	60	61	62	61	63	61	63	64	64	64	65	66	66
Journa pressure level	Heating	UD(A)	61	62	62	63	63	64	65	64	65	66	66	66	67	68	68
Maximum external st	atic pressure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Heat exchanger fin			Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin	Blue Fin
	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
Dimensions	Width	mm	930x2	930x2	1,240x930	930x3	930x3	1,240x930x2	1,240+930x2	1,240x2+930	1,240x2+930	1,240x3	1,240x3	1,240x3	1,240x3	1,240x3	1,240x3
	Depth	mm	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight	kg		255x2	255x2	279+255	255x3	255x3	279+255x2	279+255x2	279x2+255	279x2+255	279x3	279x3	279x3	279x3	279x3	279x3
Refrigerant Charge	kg		11.7x2	11.7x2	11.8+11.7	11.7x3	11.7x3	11.8+11.7x2	11.8+11.7x2	11.8x2+11.7	11.8x2+11.7	11.8x3	11.8x3	11.8x3	11.8x3	11.8x3	11.8x3
Connection pipe	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
diameter	Gas	mm	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	°C	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52	- 5 to 52			
operation range	Heating	C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
Compressor motor ou	itput	kW	7.5x2	7.5x2	11.0+7.5	7.5x3	7.5x3	11.0+7.5x2	11.0+7.5x2	11.0x2+7.5	11.0x2+7.5	11.0x3	11.0x3	11.0x3	11.0x3	11.0x3	11.0x3

Note: Specifications are based on the following conditions.

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

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

#### VRF

# 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.

Vn-060 INDOOR UNITS LINE-UP

Vn-062 1-Way Flow Cassette

Vn-064 3D Flow Cassette

Vn-066 Compact Cassette (Grid type / Standard type)

Vn-068 Cassette Slim type (Circular Flow / 4-way Flow)

Vn-072 Cassette Large type (Circular Flow / 4-way Flow)

Vn-076 Low Static Pressure Duct / Slim Duct / Slim Concealed Floor

Vn-078 Low Static Pressure Duct / Concealed Floor

Vn-080 Low Static Pressure Duct

Vn-082 Medium Static Pressure Duct

Vn-084 High Static Pressure Duct

Vn-086 Compact Floor

Vn-088 Floor / Ceiling

Vn-090 Ceiling

Vn-092 Wall Mounted (EEV Internal / external)



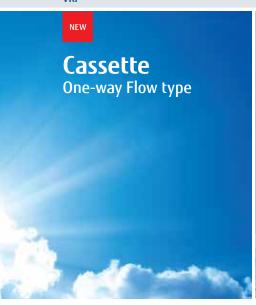
## **AIRSTAGE**

## VRF Indoor Unit Lineup

Capacity range (kW	V)			1.1	2.2	2.8	3.6	4.0	4.5	5.6	7.1	9.0	10.0	11.2		14.0	18.0	22.4	
Class	Compact type	Compact Grid type / Standard type		AUXB 004 GLEH	AUXB 007 GLEH	9 AUXB 009 GLEH	AUXB 012 GLEH	14	AUXB 014 GLEH	AUXB 018 GLEH	24 AUXB 024 GLEH	30	34	36	45	54	60	72	90
	Clim has	Circular Flow								AUXM 018 GTAH	AUXM 024 GTAH								
	Slim type	4-way Flow								AUXD 18 GALH	AUXD 24 GALH								
Cassette	Large type	Circular Flow										AUXK 030 GTAH	AUXK 034 GTAH	AUXK 036 GTAH	AUXK 045 GTAH	AUXK 054 GTAH			
	Large type	4-way Flow										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	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								
	Low Static Pressure	Mini Duct	04/007-009-012-014 018 024	ARXK 004 GLFH	ARXK 007 GLFH	ARXK 009 GLFH	ARXK 012 GLFH		ARXK 014 GLFH	ARXK 018 GLFH	ARXK 024 GLFH								
	Duct	Slim Duct (With drain pump)	04/007-014 018 024		ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH								
		Low Static Pressure Duct	24-45								ARXB 24 GALH	ARXB 30 GALH		ARXB 36 GALH	ARXB 45 GALH				
Duct	Medium Static Pres	sure Duct	24-45								ARXA 24 GBTH	ARXA 30 GBTH		ARXA 36 GBTH	ARXA 45 GBTH				
	High Static Pressure	e Duct	036 / 45 - 60 072 - 090											ARXC 36 GTEH	ARXC 45 GATH		ARXC 60 GATH	ARXC 72 GATH	ARXC 90 GATH
		Floor (*Same as Ceiling models)					ABHA 012 GTEH		ABHA 014 GTEH	ABHA 018 GTEH	ABHA 024 GTEH								
El .		Slim Concealed Floor (*Same as Slim Duct models)	04/007-014 018 024	ARXD 04 GALH	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH								
Floor		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											
Ceiling			012 - 024 030 - 054	with this filot	Jei, confiection	TOTEV KILIS HE	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	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		Wall Mounted (EEV external)		ASHE 004 GCEH	ASHE 007 GCEH	ASHE 009 GCEH	ASHE 012 GCEH	ASHE 014 GCEH											
			004 - 014	With this mod	del, connection	of EV kit is ne	cessary.												

Specifications and design are subject to change without notice.









#### 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.

Dimension	ns (Panel s	ize)					(Unit : mm)			
	4	7	9	12	14	18	24			
Н	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.





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.



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



#### Specifications

Model name				AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH
Power source						Sino	gle phase, ~230V, 5	0Hz		
Canacibu		Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity		Heating	1 KVV	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
		High		460	550	550	670	720	890	1,150
		Med-H	]	440	440	440	520	660	840	1,020
Airflow rate*		Med	m³/h	420	420	420	480	630	770	940
Allilow rate		Med-L	] "" /"	400	400	400	450	600	710	790
		Low	1	380	380	380	410	580	660	700
		Quiet	1	360	360	360	360	550	580	610
		High		38	42	42	45	37	44	49
		Med-H	]	37	37	37	41	36	43	47
Caucad acassusa la	al*	Med	dB(A)	36	36	36	39	35	40	45
Sound pressure le	evei	Med-L	UB(A)	35	35	35	38	34	38	42
		Low	1	33	33	33	36	33	36	39
		Quiet	1	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	L	iquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52
pipe diameter		Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diame	ter (I.D./O.E	).)	1				25/32			
M	odel name				UTG-UI	NGA-W			UTG-UNGB-W	
Cassette Ne	et Dimensio	ns (H×W×D)	mm		43 × 95	0× 620			43 × 1,360 × 620	
Wille	eight		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

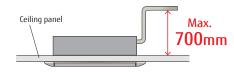
UTY-TFSXZ1 UTY-TRHX Wireless LAN Interface: IR Receiver Unit: Cassette Grille: UTG-UNGA-W / UTG-UNGB-W

External Power Supply Unit: UTZ-GXXA

#### Flexible Installation

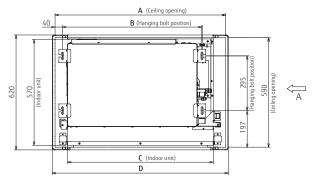
By using new L-type piping kit, more flexible installation is possible.

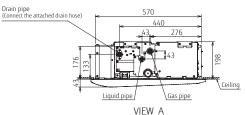
Built-in drain pump as standard accessory, which enable to have maximum 700m piping height difference from the ceiling.



#### Dimensions

(Unit : mm)





	AUXV004-012	AUXV014-024
Α	920	1,330
В	752	1,152
С	785	1,190
D	950	1,360

**3D Flow Cassette** 

#### **AIRSTAGE**

#### Model: AUXS018GLEH / AUXS024GLEH





#### 3 Air Outlet Ports can be controlled individually

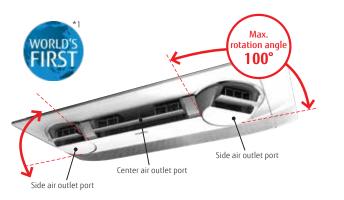
Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

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





**Heating:** When heating operation is stable with an outside air temperature of  $7^{\circ}$ C, a set temperature of  $30^{\circ}$ C and an air volume set to "Hi" in a  $40 m_{\rm 2}$  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.



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.



#### Specifications

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single phase	, ~230V, 50Hz
Capacity	Cooling	kW	5.60	7.10
Сарасіту	Heating	I NVV	6.30	8.00
Input power		W	20/28	34/43
	High		750/870	950/1,040
	Med-H	] [	710/830	890/990
Airflow rate*	Med	m³/h	690/780	860/930
Allilow rate	Med-L	] "" /" [	660/740	810/880
	Low		630/700	770/840
	Quiet		540/540	540/540
	High		38/41	43/46
	Med-H	] [	36/40	42/45
Sound pressure le	Med Med	dB(A)	35/39	41/43
sound pressure ie	Med-L	UD(A)	35/37	40/42
	Low	] [	33/36	38/40
	Quiet	] [	29/29	29/29
Net Dimensions (F	H × W × D)	mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg(lbs)	25 (55)	25 (55)
Connection	Liquid (Flare)		6.35	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88
Orain hose diame	ter (I.D./O.D.)	] [	25.	/32
Mo	odel name		UTG-U	SGA-W
Cassette Grille Ne	et Dimensions (H×W×D)	mm	85 × 1,3.	50 × 580
We	eight	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.

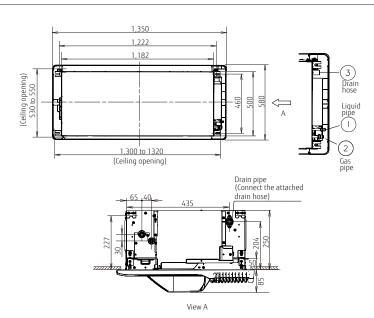
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V]. \*: This value is "cooling operation / heating operation".

#### Optional parts

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

#### Dimensions

(Unit : mm)



\*: 018 model

Compact Cassette

Grid type

DC FAN

#### **AIRSTAGE**

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	
		High		530/530	540	550	600	680	710	1,030
		Med-H		490/480	500	520	560	620	660	910
Airflow rate		Med	m³/h	450/430	460	480	520	560	590	790
Allilow rate		Med-L	]     /	420/380	420	440	480	500	520	680
		Low	1	390/340	390	400	430	440	460	560
		Quiet	1	350/300	350	350	390	390	400	450
		High		34/34	34	35	37	38	41	50
		Med-H	dB(A)	32/31	32	33	34	37	39	46
Cound accesses	امييما	Med		30/29	30	31	33	34	36	43
Sound pressure	e ievei	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 Dimension	ıs (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		Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52
pipe diameter		Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)		25/32								
C	Model na	me		UTG-UFGE-W / UTG-UFGC-W						
Cassette Grille	Net Dime	nsions (H×W×D)	mm			50 × 6	20 × 620 / 50 × 700	× 700		
uille	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.

Model name			AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH	
Power source			Single phase, ~230V, 50Hz							
Connection		Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity		Heating	- KW	1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power W			23	25	25	29	35	36	84	
		High		530/530	540	550	600	680	710	1,030
		Med-H	1	490/480	500	520	560	620	660	910
Airflow rate		Med	m³/h	450/430	460	480	520	560	590	790
Allilow rate		Med-L	_ m <sup>7</sup> /h	420/380	420	440	480	500	520	680
		Low		390/340	390	400	430	440	460	560
		Quiet		350/300	350	350	390	390	400	450
		High		34/34	34	35	37	38	41	50
		Med-H	dB(A)	32/31	32	33	34	37	39	46
Caund acassus	امتيما	Med		30/29	30	31	33	34	36	43
Sound pressure	e ievei	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 Dimension	ns (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		Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52
pipe diameter		Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)		25/32								
c	Model na	ime		UTG-UFGE-W / UTG-UFGC-W						
Cassette Grille	Net Dime	Net Dimensions (H×W×D) mm				50 × 6	20 × 620 / 50 × 700	× 700		
uille			kg(lbs)	2.3(5.1) / 2.6(6)						

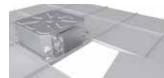
## Easy maintenance

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.

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

Compact and stylish panel design









620mm





#### 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.



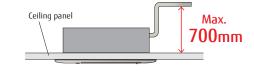
#### High ceiling mode

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)					
Model code	Standard mode	High ceiling mode				
004	2.7	-				
007	2.7	-				
009	2.7	=				
012	2.7	3.0				
014	2.7	3.0				
018	2.7	3.0				
024	2.7	3.0				

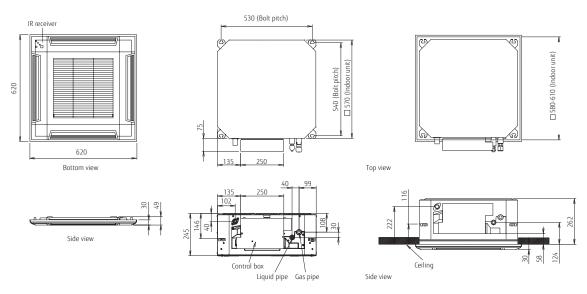
#### **Optional parts**

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



#### Dimensions

(Unit:mm)



Cassette

Slim type Circular Flow

#### **AIRSTAGE**

#### Model: AUXM024GTAH/ AUXM030GTAH





#### 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.

Ø7mm high density heat exchanger New DC fan motor High efficient turbo fan Seamless airflow louver



#### 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

#### 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

\*Touch Panel Wired RC (UTY-RNRGZ3) only



2 modes can be selected

Auto saving people are away.



## Operation stops after Auto OFF Operation 21, people go out.



#### Specifications

Model name			AUXM018GTAH	AUXM024GTAH	
Power source			Single phase, ~230V, 50Hz		
Canacibu	Cooling	kW	5.6	7.1	
Capacity	Heating		6.3	8.0	
Input power		W	20	25	
	High		1,050	1,120	
	Med-H		930	1,050	
Airflow rate	Med	m³/h	900	930	
Allilow rate	Med-L	7 ""/" [	870	900	
	Low	7 [	810	870	
	Quiet	7 i	780	780	
	High		33	35	
	Med-H	7 i	32	33	
Sound pressure	Med	dB(A)	31	32	
level	Med-L	T UD(A)	30	31	
	Low	]	29	30	
	Quiet	7 1	28	28	
Dimensions (H	×W×D)	mm	246×840	)×840	
Weight		kg(lbs)	24.0 (53)	24.5 (54)	
Connection	Liquid (Flare)		6.35	9.52	
pipe diameter	Gas (Flare)	mm	12.70	15.88	
Drain hose diameter (I.D./O.D.)		7 I		25 / 32	
	Model name		UTG-UKGD-W / UTG-UKGA-B		
Cassette Grille	Dimensions (H×W×D)	mm	53×950×950		
Ī	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)

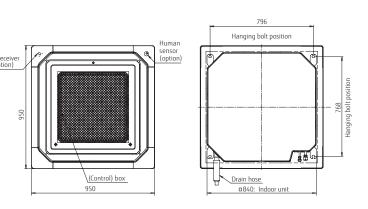
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

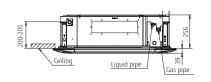
#### **Optional parts**

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	
Danal Charges	LITC DVVA W	Inculation Kit for High Humidity	. LITZ VVDA	ID Docoiver Units	LITY I DUVD	

#### Dimensions

(Unit : mm)





Cassette

Slim type 4-way Flow

#### **AIRSTAGE**

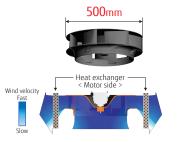
#### Model: AUXD18GALH / AUXD24GALH

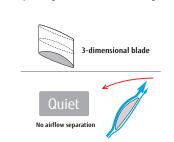


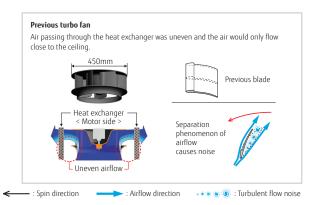


#### High efficiency turbo fan with 3-dimensional blade

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

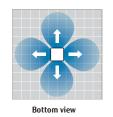


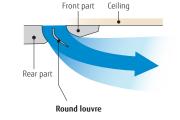


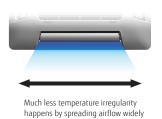


#### Improvement of the airflow distribution

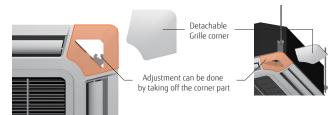
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.







#### 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)				
Model code	Standard mode	High ceiling mode			
18	3.0	3.5			
24	3.0	3.5			



#### Specifications

Model name				AUXD18GALH	AUXD24GALH			
Power source				Single phase, ~230V, 50Hz				
Canadibu		Cooling	kW	5.6	7.1			
Capacity		Heating	1 KVV	6.3	8.0			
Input power		W	39	46				
		High		1,150 (319)	1,280 (356)			
Airflow rate		Med	m³/h	940 (261)	1,040 (289)			
		Low		870 (242)	870 (242)			
		High		36	38			
Sound pressi	ıre level	Med	dB(A)	30	33			
		Low		29	29			
Net Dimensio	ons (H × W ×	D)	mm	246 × 840 × 840	246 × 840 × 840			
Weight			kg(lbs)	22 (49)	22 (49)			
Connection		Liquid (Flare)		9.52	9.52			
pipe diameter		Gas (Flare)	mm	15.88	15.88			
Drain hose diameter (I.D./O.D.)			25/32					
Cassette Grille	Model na	Model name		UTG-UGGA-W				
	Net Dime	imensions (H×W×D) mr		50 × 950 × 950				
	Weight		kg(lbs)	5.5 (12)				

Note: Specifications are based on the following conditions.

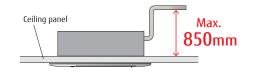
Cooling: Indoor temperature of 27\*CDB / 19\*CWB, and outdoor temperature of 35\*CDB / 24\*CWB.

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].

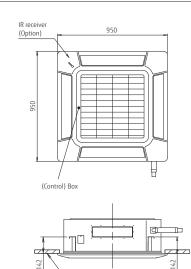
#### **Optional parts**

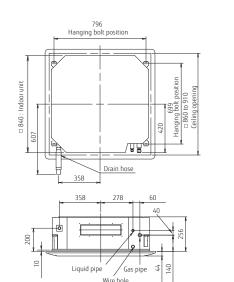
UTY-LRHGB1 Air outlet shutter plate: UTR-YDZC Panel spacer: UTG-BGYA-W Insulation kit for high humidity: UTZ-KXGB Wide panel: UTG-AGYA-W Fresh air intake kit: UTZ-VXGA Cassette Grille: UTG-UGGA-W Wireless LAN Interface: UTY-TFSXZ1



#### Dimensions

(Unit:mm)





#### Model: AUXK030GTAH / AUXK034GTAH / AUXK036GTAH AUXK045GTAH / AUXK054GTAH



## Cassette Large type Circular Flow





#### 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

#### 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

\*Touch Panel Wired RC (UTY-RNRGZ3) only

072



2 modes can be selected

Auto saving people are away.

Operation stops after Auto OFF Operation 211, people go out.

Human sensor (Option)

#### Specifications

Model name				AUXK030GTAH	AUXK034GTAH	AUXK036GTAH	AUXK045GTAH	AUXK054GTAI		
Power source				Single phase, ~230V, 50Hz						
Canasibu		Cooling	kW	9.0	10.0	11.2	12.5	14.0		
Capacity		Heating	KVV	10.0	11.2	12.5	14.0	16.0		
Input power			W	47	47	61	89	116		
		High		1,440	1,440	1,620	1,820	2,040		
		Med-H	1	1,400	1,400	1,500	1,590	1,800		
A := £1 = = = b =		Med	m³/h	1,340	1,340	1,400	1,500	1,590		
Airflow rate		Med-L	1 m /n	1,300	1,300	1,340	1,400	1,440		
		Low	1	1,280	1,280	1,280	1,300	1,300		
	Quiet	1	1,150	1,150	1,150	1,150	1,150			
		High		39	39	41	44	47		
		Med-H	1	38	38	40	42	45		
Sound pressure	1	Med	10(1)	37	37	38	40	42		
level .		Med-L	dB(A)	36	36	37	38	39		
		Low	1	35	35	36	36	36		
		Quiet	1	33	33	33	33	33		
Dimensions (H	×W×D)		mm		288	× 840 × 840				
Weight			kg(lbs)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)		
Connection		Liquid (Flare)		9.52	9.52	9.52	9.52	9.52		
pipe diameter		Gas (Flare)	mm	15.88	15.88	15.88	15.88	15.88		
Drain hose diar	neter (I.D	./O.D.)	1		25 / 32					
	Model na				UTG-UKG	D-W / UTG-UKGA-B				
Cassette Grille	Dimensio	ns (H×W×D)	mm	53×950×950						
	Weight		kg(lbs)			6.0 (13)				

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].

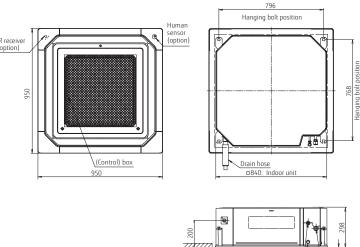
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

#### 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)



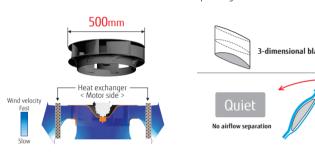
## Cassette Large type 4-way Flow

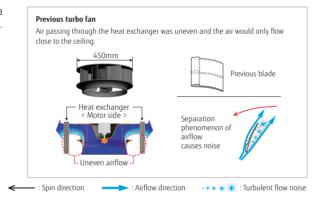




#### High efficiency turbo fan with 3-dimensional blade

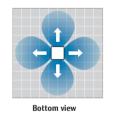
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.

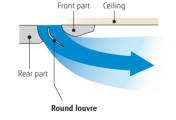


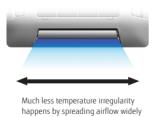


#### Improvement of the airflow distribution

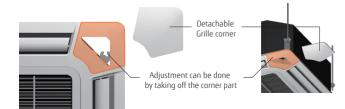
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.







#### 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)						
Model Code	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					

#### Specifications

Model name				AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH		
Model Hallie				AUXASUGALH				AUXA34GALH		
Power source	2			Single phase, ~230V, 50Hz						
Capacity		Cooling	kW	9.0	10.0	11.2	12.5	14.0		
		Heating	KVV	10.0	11.2	12.5	14.0	16.0		
Input power			W	59	77	80	99	119		
Airflow rate		High		1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)	2,000 (556)		
		Med	m³/h	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)	1,370 (381)		
		Low	1	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)		
	High			40	43	44	46	47		
Sound pressi	ıre level	Med	dB(A)	38	38	38	39	39		
		Low	1	33/31*1	33/31*1	33/31*1	33/31*1	33/31*1		
Net Dimensi	ons (H × W ×	( D)	mm	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)		
Connection		Liquid (Flare)		9.52	9.52	9.52	9.52	9.52		
pipe diamete	er e	Gas (Flare)	mm	15.88	19.05	19.05	19.05	19.05		
Drain hose d	iameter (I.D	)./O.D.)	1	25/32						
	Model na	name		UTG-UGGA-W						
Cassette Grille	Net Dime	ensions (H×W×D)	mm			50 × 950 × 950				
uille	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.

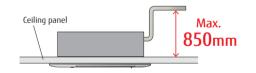
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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.

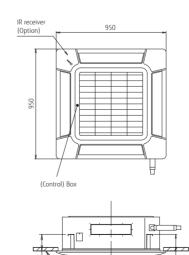
#### Optional parts

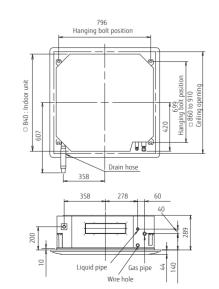
IR receiver unit: UTY-LRHGB1 Air outlet shutter plate: Panel spacer: UTR-YDZC UTG-BGYA-W Insulation kit for high humidity: UTZ-KXGB Wide panel: UTG-AGGA-W Fresh air intake kit: UTZ-VXGA Wireless LAN Interface: UTY-TFSXZ1 UTG-UGGA-W Cassette Grille:



#### Dimensions

(Unit:mm)





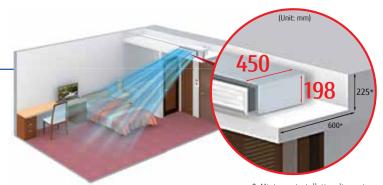
### **Low Static Pressure Duct Mini Duct**





#### Large living space available

- Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design
- Minimum size: Depth 450mm, Height 198mm Volume 30% down compared with current model
- Lightweight: 16kg 10%down



#### \*: Minimum installation dimension

#### Optimum airflow path and low noise operation

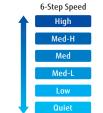
Low noise is realized drastically by stabilized airflow design



#### 6-speed control\*

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







at 04 model

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

#### Easy design and maintenance for drain

Maintenance is easy by easy design indoor unit. Parts can be replaced from the side of the unit where maintenance is easier.



Built-in drain pump as standard :

#### Model: ARXK004GLFH / ARXK007GLFH / ARXK009GLFH ARXK012GLFH / ARXK014GLFH / ARXK018GLFH ARXK024GLFH



ARXK004/007/009/012/014GLFH





#### Specifications

Model name			ARXK004GLFH	ARXK007GLFH	ARXK009GLFH	ARXK012GLFH	ARXK014GLFH	ARXK018GLFH	ARXK024GLFH	
Power source			Single phase, ~230V, 50Hz							
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1	
Heating		KVV	1.3	2.8	3.2	4.0	5.0	6.3	8.0	
Input power		W	26	28	28	35	66	73	80	
	High		460	460	460	550	760	930	1,160	
	Med-H		440	440	440	520	660	840	1,060	
Airflow rate	Med	m³/h	420	420	420	480	560	740	960	
	Med-L	111 /11	400	400	400	450	490	640	860	
	Low	Ī	370	370	370	410	410	540	750	
	Quiet	Ī	340	340	340	340	340	470	610	
Static pressure range		Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50	
Standard static pressure		Pd	10	10	10	10	15	15	15	
	High		25	26	26	29	34	33	32	
	Med-H	Ī	24	25	25	27	31	30	30	
Cound processes lovel	Med	dB(A)	23	24	24	26	28	28	28	
Sound pressure level	Med-L	UD(A)	22	23	23	25	26	26	27	
	Low	Ī	21	22	22	24	24	24	25	
	Quiet		20	21	21	22	22	22	22	
Net Dimensions (H × W	× D)	mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450	
Weight		kg(lbs)	14.5 (32)	15.5 (34)	15.5 (34)	16 (35)	16 (35)	19 (42)	22.5 (50)	
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52	
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	12.70	15.88	
Drain hose diameter (I.C	)./O.D.)	Ī				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

UTY-XSZX Auto Louver Grille Kit: UTD-GXTA-W (004/007/009/012/014) Remote Sensor Unit: UTY-TRHX UTD-GXTB-W (018) IR Receiver Unit: External Power Supply Unit: UTZ-GXXA UTD-GXTC-W (024)

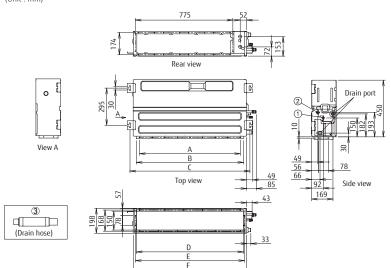
#### Auto Louver Grille Kit (Option)

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



#### Dimensions

(Unit : mm)



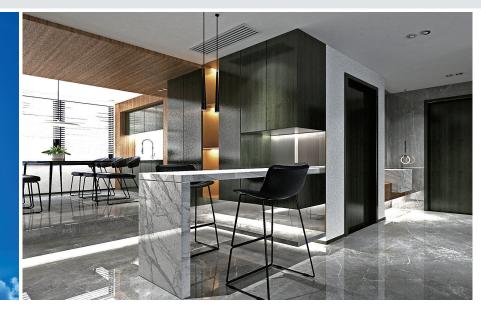
Front view

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

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

ARXD024GLEH

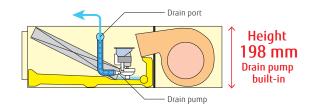
### **Low Static Pressure Duct** Slim Duct / **Slim Concealed** Floor





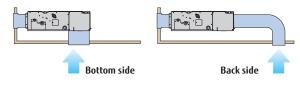
#### Slim design

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



#### Air-intake

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



#### Flexible installation

Ceiling 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.

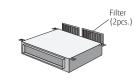


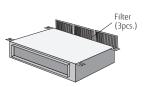


\*024 model is 0 to 50Pa

#### Filter (Accessory)

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





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









ARXD04GALH ARXD007/009/012/014GLEH

ARXD018GLEH

Slim Concealed

Specifications

Model name			ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH	
Power source					Sino	gle phase, ~230V, 5	0Hz	<b>'</b>		
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1	
Сарасиу	Heating	T KW	1.3	2.8	3.2	4.0	5.0	6.3	8.0	
Input power		W	40	44	50	54	92	83	122	
	High		510	550	600	600	800	940	1,330	
	Med-H		=	480	510	530	680	820	1,140	
Airflow rate	Med	m³/h	400/470*1	440	460	490	600	730	1,020	
	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		] Pa	25	25	25	25	25	25	25	
	High		26	28	29	30	34	34	35	
	Med-H	1	=	26	27	28	32	31	31	
Cound processes lovel	Med	dB(A)	21/25*1	25	25	27	30	29	29	
Sound pressure level	Med-L	T UD(A)	=	24	24	26	28	27	27	
	Low	1	20/22*1	22	22	24	25	25	24	
	Quiet	1	-	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	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	9.52	
pipe diameter	Gas (Flare)	mm	12.70	9.52	9.52	12.70	12.70	12.70	15.88	
Drain hose diameter (I.C	)./O.D.)	1	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.

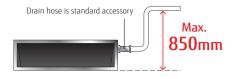
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

#### **Optional parts**

Auto Louver Grille Kit: UTD-GXTA-W (04/007/009/012/014) UTY-XSZX IR Receiver Unit: UTB-YWC (004) UTD-GXTB-W (018) UTY-TRHX (007/009/012/014/018/024) UTD-GXTC-W (024)

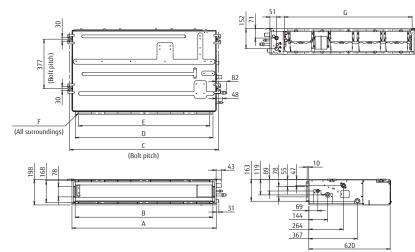
External Power Supply Unit: UTZ-GXXA



#### Dimensions

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

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

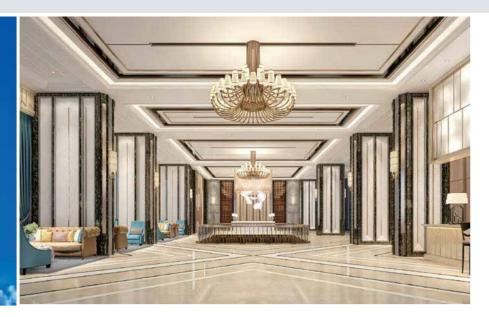


	ARXD04-014	ARXD018	ARXD024
Α	700	900	1100
В	650	850	1050
C	734	934	1134
D	650	850	1050
Е	P100×6=600	P100×8=800	P100×10=1000
F	18ר5	22ר5	26ר5
G	574	774	974

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

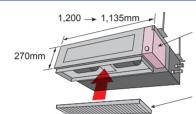
<sup>\*:</sup>ARXD04GALH cannot be connected to J-IVS / J-IVL Series.

### **Low Static Pressure Duct**



#### Slim & Compact design

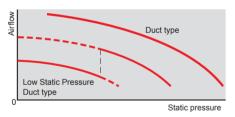
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270mm, Further space savings have been achieved by mounting the electrical control box internally inside the chassis.



Control box is now included as part of the main chassis

One touch operating and easy to install long life filter (Optional Parts)

#### 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.

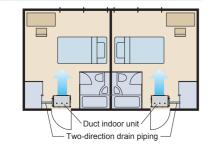


#### Duct type Powerful model with a flexible design

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.

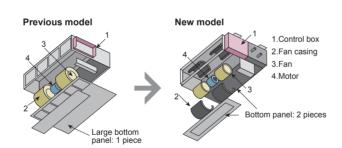


#### **Two-direction** drain piping



#### 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					
Oit.	Cooling	kW	7.1	9.0	11.2	12.5		
Capacity	Heating	KVV	8.0	10.0	12.5	14.0		
Input power		W	145	198	253	338		
	High	m³/h	1,100 (306)	1,410 (392)	1,710 (475)	1,970 (547)		
Airflow rate	Med	(l/s)	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		
	High		31	34	37	41		
Sound pressure level	Med	dB(A)	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	9		42		
	Liquid (Flare)			Ø	9.52	0.52		
Connection pipe diameter	Gas (Flare)	mm	ø15	.88	8 ø19.05 VP25[ø25(I.D.); ø32(O.U.)]			
	Drain hose			VP25[ø25(I				

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.

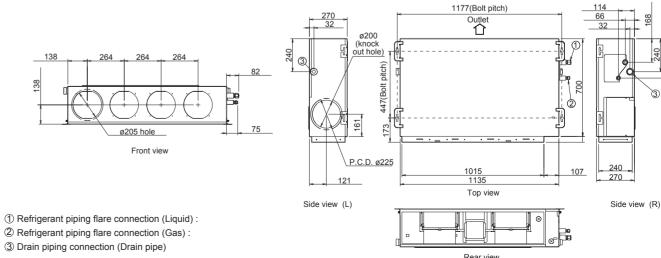
#### **Optional parts**

Remote Sensor Unit: UTY-XSZX Flange (Round): UTD-RF204 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.





### **Medium Static Pressure Duct**

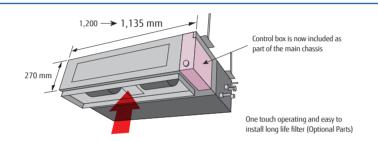




#### **Feature**

#### 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.



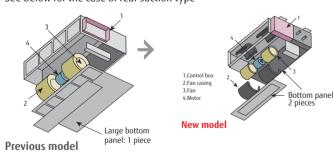
#### Selectable with a wide range of static pressure

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

Static pressure range 0 to 150 Pa

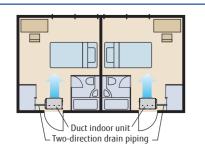
#### Easy maintenance

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.



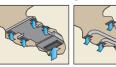
#### Easy setting by using remote controller

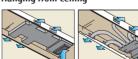
The change of static pressure range is possible by remote controller



#### **Installation styles**

#### **Embedded in Ceiling**





## Hanging from Ceiling

#### Models: ARXA24GBTH / ARXA30GBTH ARXA36GBTH / ARXA45GBTH



#### Specifications

Model name			ARXA24GBTH	ARXA30GBTH	ARXA36GBTH	ARXA45GBTH			
Power source			Single phase, 220-240V, 50Hz						
C	Cooling	kW	7.1	9.0	11.2	12.5			
Capacity	Heating	KW	8.0	10.0	12.5	14.0			
Input power		W	94	108	194	240			
	High		1,280 (356)	1,410 (392)	1,840 (511)	1,970 (547)			
Airflow rate	Med	m³/h (I/s)	990 (275)	1,280 (356)	1,600 (444)	1,860 (517)			
	Low	(1/3)	840 (233)	1,150 (319)	1,470 (408)	1,640 (456)			
Static pressure range		D-	0 to 150	0 to 150	0 to 150	0 to 150			
Standard static p	oressure	Pa	40	50	50	60			
	High		31	34	37	41			
Sound pressure level	Med	dB (A)	27	32	35	38			
ievei	Low	(/1)	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	Liquid (Flare)		9.52	9.52	9.52	9.52			
pipe diameter	Gas (Flare)	mm	15.88	15.88	19.05	19.05			
Drain hose diam	eter (I.D./O.D.)	1	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

UTD-LF25NA Flange (Round): UTD-RF204 Long Life Filter: UTD-SF045T IR Receiver Unit: UTB-YWC Flange (Square): 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. 1177 (Bolt pitch) Outlet Front view Side view (L) Side view (R)

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

High Static Pressure Duct

Normal

### **AIRSTAGE**

### ARXC072GATH / ARXC090GATH







ARXC72/90GATH

Model name	Model name			ARXC45GATH	ARXC60GATH*	ARXC072GATH*	ARXC090GATH*		
Power source					Single phase, ~230V, 50Hz				
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0		
Сарасиу	Heating	T KVV	12.5	14.0	20.0	25.0	28.0		
Input power		W	207	715	730	1,110	1,250		
	High		1,990	3,500	3,500	3,900	4,300		
Airflow rate	Med	m³/h	1,680	3,000	3,000	3,300	4,000		
	Low	7	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		T Pa	100	100	100	260	250		
	High		42	49	49	51	53		
Sound pressure level	Med	dB(A)	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	Liquid		9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	12.70 (Flare)	2.70 (Flare)		
pipe diameter	Gas	mm	15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Flare)	22.22 (Flare)		
Drain hose diameter (I.D	Drain hose diameter (I.D./O.D.)			25/32					

UTD-LF60KA (036/45/60)

UTB-YWC (45/60/72/90)

UTY-TRHX (036)

UTY-TFSXZ1 (036)

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.

## Model: ARXC036GTEH / ARXC45GATH / ARXC60GATH

#### Specifications

Model name			ARXC036GTEH	ARXC45GATH	ARXC60GATH*	ARXC072GATH*	ARXC090GATH*		
Power source			Single phase, ~230V, 50Hz						
Canacitu	Cooling	kW	11.2	12.5	18.0	22.4	25.0		
Capacity	Heating	KW	12.5	14.0	20.0	25.0	28.0		
Input power		W	207	715	730	1,110	1,250		
	High		1,990	3,500	3,500	3,900	4,300		
Airflow rate	Med	m³/h	1,680	3,000	3,000	3,300	4,000		
	Low	1 1	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		Pd	100	100	100	260	250		
	High		42	49	49	51	53		
Sound pressure level	Med	dB(A)	36	45	45	48	51		
	Low	7	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	Liquid		9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	12.70 (Flare)	2.70 (Flare)		
pipe diameter	Gas	mm	15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Flare)	22.22 (Flare)		
Drain hose diameter (I.D./O.D.)			25/32						

#### 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)

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





#### Dimensions

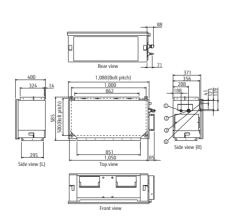
Optional parts

Wireless LAN Interface :

Long-Life Filter IR Receiver Unit :

Models: ARXC036 / ARXC45 / ARXC60

External Power Supply Unit: UTZ-GXXA (036)

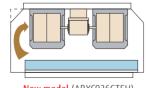


- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection (safety drain pan)
- 4 Drain piping connection (Main drain pan)

Models: ARXC72 / ARXC90

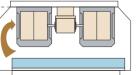
#### Low noise

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.

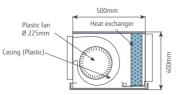




New model (ARXC036GTEH)







(unit: mm)

#### Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.





### **Compact floor**





#### 2-Fan & Wide airflow

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



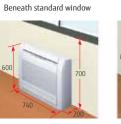


## Heating Prevents cold at stable

### Flexible & easy installation

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











Quiet operation

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



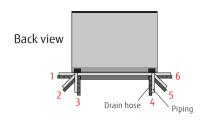
at 004/007/009 models



\* Compatible 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	AGHE014GCE
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
Сарасиу	Heating	] KW	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
	High		380 / 430	470	500	590	670	380 / 430	470	500	590	670
	Med-H		350	420	450	520	590	350	420	450	520	590
Airflow rate	Med	m³/h	320	390	400	470	520	320	390	400	470	520
Allilow rate	Med-L	]     /	310	360	360	420	450	310	360	360	420	450
	Low		280	330	330	390	390	280	330	330	390	390
	Quiet	1	210	270	270	340	340	210	270	270	340	340
	High		35 / 36	37	38	42	46	35 / 36	37	38	42	46
	Med-H	1	33	35	36	39	42	33	35	36	39	42
Carra di anno anno a larra l	Med	dB(A)	31	33	34	37	39	31	33	34	37	39
Sound pressure level	Med-L	UD(A)	30	31	31	35	36	30	31	31	35	36
	Low	1	28	29	29	33	33	28	29	29	33	33
	Quiet	1	22	22	22	30	30	22	22	22	30	30
Net Dimensions (H × W	× D)	mm		6	00 x 740 x 20	0			6	500 x 740 x 20	0	
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	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)		1	13.8/15.8to16.7						1	13.8/15.8to16.	7	
EV Kit (option)					-				UTR-EV09XB		UTR-E	V14XB

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°CWB.

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

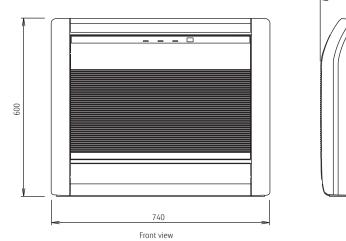
When AGHA004/007/009GCGH, AGHE004/007/009GCEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

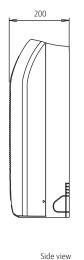
#### Optional parts

Half concealed kit: External Power Supply Unit: UTZ-GXXA
Wireless LAN Interface: UTY-TFSXZ

#### Dimensions

(Unit : mm)





## Floor / Ceiling



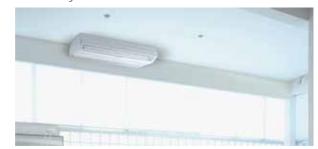


#### Flexible installation

#### **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.



#### UP and DOWN SWING



#### High power DC fan motor

- High powerWide rotation range
- High efficiency



#### Compact design

Symmetrical, slim and compact design.



#### Model: ABHA012GTEH / ABHA014GTEH / ABHA018GTEH / ABHA024GTEH



Floor standing



#### Specifications

Model name			ABHA012GTEH	ABHA014GTEH	ABHA018GTEH	ABHA024GTEH
Power source				Single phase	e, ~230V, 50Hz	
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
Capacity	Heating	] KVV	4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
	High		660	780	1,000	1,000
	Med-H		620	740	910	930
Airflow rate	Med	m³/h	580	690	830	870
Allilow rate	Med-L	]     /	550	640	750	800
	Low		520	600	660	740
	Quiet		490	550	580	680
	High		36	40	46	47
	Med-H		34	39	44	45
Council acceptance lough	Med	dB(A)	33	38	42	43
Sound pressure level	Med-L	T UB(A)	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	Liquid (Flare)		6.35	6.35	6.35	9.52
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	15.88
Drain hose diameter (I.C	D./O.D.)	1		25	5/32	

Note: Specifications are based on the following conditions.

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

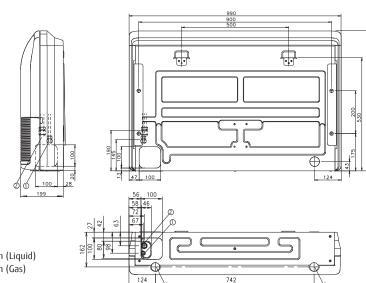
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

#### Optional parts

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

#### Dimensions



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

ABHA054GTEH

16.0

2.270

2,070

1.860

1 660

1.470

1.280

49

43

40

240 × 1,660 × 700

9.52

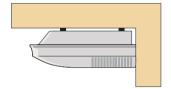




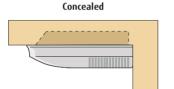


#### Installation

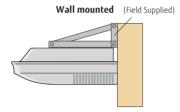
0pen



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



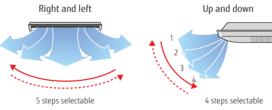
Installation pattern where part of the indoor unit is embedded into the ceiling.



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

#### Double auto swing and wide airflow

Auto airflow direction and auto swing



#### High power DC fan motor

- High power
- Wide rotation range

Fresh air intake

High efficiency



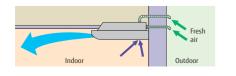
### Slim & Compact design

Long airflow

Long Airflow ensures

of a large room.

comfort to every corner



### Hight 240 mm

#### Optional parts

**Specifications** 

Capacity

Input power

Sound pressure level

Weight

Connection pipe diameter

Net Dimensions (H × W × D)

Drain hose diameter (I.D./O.D.)

Cooling

Heating

High

Med-H

Med

Med-L

Low

Quiet

Med-H

Med

Med-L

Low

Gas (Flare)

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].

10.0

66

1,630

1,520

1.420

1.320

1,220

1 140

42

40

39

240 × 1,660 × 700

9.52

12.5

1.690

1,560

1,450

1.360

1,270

1,170

45

41

39

240 × 1,660 × 700

48 (106)

9.52

14.0

131

2,010

1,690 1,530

1,380

1,230

48

46

45

38

240 × 1,660 × 700

48 (106)

9.52

15.88

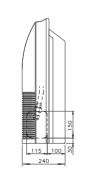
UTR-DPB24T Drain Pump Unit : Flange: UTD-RF204 External Power Supply Unit: UTZ-GXXA

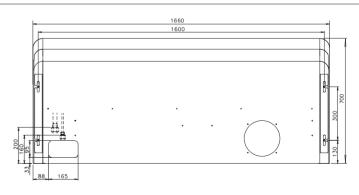
Wireless LAN Interface : UTY-TFSXZ1

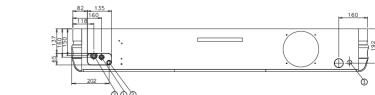
# Max. 500mm

#### Dimensions

(Unit:mm)







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

### **Wall Mounted**





#### 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.



#### More comfort airflow

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

#### Heating

Vertical airflow provides powerful floor level heating





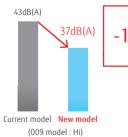
Horizontal airflow does not blow cool air directly at the occupants in the room

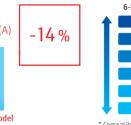




#### Quiet operation & 6 Fan Speed Control

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



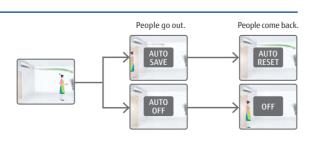




\* Compatible Remote Controller is as follows: UTY-RNRGZ3/UTY-RLRG/UTY-RSRG/UTY-RHRG/UTY-DCGGZ1/UTY-ALGXZ1/UTY-APGXZ1

#### 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, ~230\	, 50Hz	
Canacity	Cooling	kW	1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5
Input power		W	12	19	20	25	36	12	19	34	25	36
	High		450	550	610	690	800	450	550	610	690	800
	Med-H		430	510	560	610	740	430	510	560	610	740
Airflow rate	Med	m³/h	400	470	510	560	680	400	470	510	560	680
Allilow rate	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
	High		31	34	37	40	44	31	35	43	40	44
	Med-H		30	32	35	37	42	30	32	38	37	42
Sound pressure level	Med	dB(A)	28	30	32	35	40	28	30	34	35	40
Juliu piessuie ievei	Med-L	UD(A)	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		2	68 x 840 x 20	3		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	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)		1	13.8/15.8 to16.7					13.8/15.8 to16.7				
EV Kit (option)			-					UTR-EV09XB UTR-EV14XB			V14XB	

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].

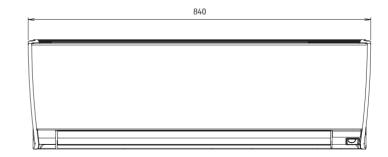
When ASH\*004G\*\*H, ASH\*007G\*\*H, ASH\*009G\*\*H are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

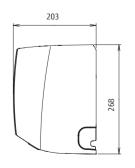
#### Optional parts

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

#### Dimensions

(Unit:mm)





DC FAN

Powerful Airflow

(ASHA030GTEH)

Powerful & Comfort airflow

Human sensor (ASHA030/034GTEH only)

automatically to keep down electricity bills. (Available to wired remote controller as UTY-RNRGZ3)

A human sensor senses the movement of humans to reduce operation when one is in the room. the energy consumption is reduced

### **AIRSTAGE**

### Model: ASHA18GBCH / ASHA24GBCH ASHA030GTEH / ASHA034GTEH **Wall Mounted**





ASHA18/24GBCH

ASHA030/034GTEH

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
Capacity	Heating	KVV	6.3	8.0	10.0	11.2
Input power		W	32	60	74	103
	High		840	1,100	1,440	1,620 / 1,520
	Med-H		-	-	1,200	1,300
Airflow rate	Med	m³/h	770	910	1,050	1,120
Allilow late	Med-L	1111 /111	-	-	940	980
	Low	]	690	730	890	890
	Quiet		=	-	700	700
	High		41	48	53	55 / 54
	Med-H	]	-	-	49	51
Sound pressure level	Med	dB(A)	39	43	45	47
Souria pressure rever	Med-L	UD(A)	=	-	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	Liquid (Flare)		6.35	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88	15.88	15.88
Drain hose diameter (I.D	)./O.D.)	1	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).

#### **Specifications**

Model name			ASHA18GBCH	ASHA24GBCH	ASHA030GTEH	ASHA034GTEH
Power source			Single phase	, ~230V, 50Hz	Single phase	, ~230V, 50Hz
Canacitu	Cooling	kW	5.6	7.1	9.0	10.0
Capacity	Heating	T KWV	6.3	8.0	10.0	11.2
Input power		W	32	60	74	103
	High		840	1,100	1,440	1,620 / 1,520
	Med-H	] [	-	-	1,200	1,300
Airflow rate	Med	m³/h	770	910	1,050	1,120
Allilow late	Med-L	] '''' [	=	-	940	980
	Low	] [	690	730	890	890
	Quiet	1 [	-	-	700	700
	High		41	48	53	55 / 54
	Med-H	] [	-	-	49	51
Sound pressure level	Med	dB(A)	39	43	45	47
Sourio pressure rever	Med-L	J UD(A)	-	-	42	43
	Low	] [	35	35	39	39
	Quiet	1 [	-	-	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	Liquid (Flare)		6.35	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88	15.88	15.88
Drain hose diameter (I.I	D./O.D.)	1 [	12	/16	13.8/15	.8 to16.7

**Optional parts** 

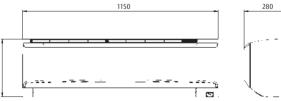
External Power Supply Unit: UTZ-GXXA (030/034) Wireless LAN Interface: UTY-TFSXZ1 (030/034)

#### Dimensions

(Unit:mm)

Models: ASHA18 / ASHA24

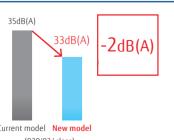
Models: ASHA030 / ASHA034



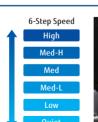
### Quiet operation & 6 Fan speed control

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

094



Airflow 20% up!



Power diffuser

Vertical airflow

(ASHA18/24GBCH)



Horizontal airflow

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

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

(030/034class)

# Residential, Commercial & Light Commercial VENTILATION

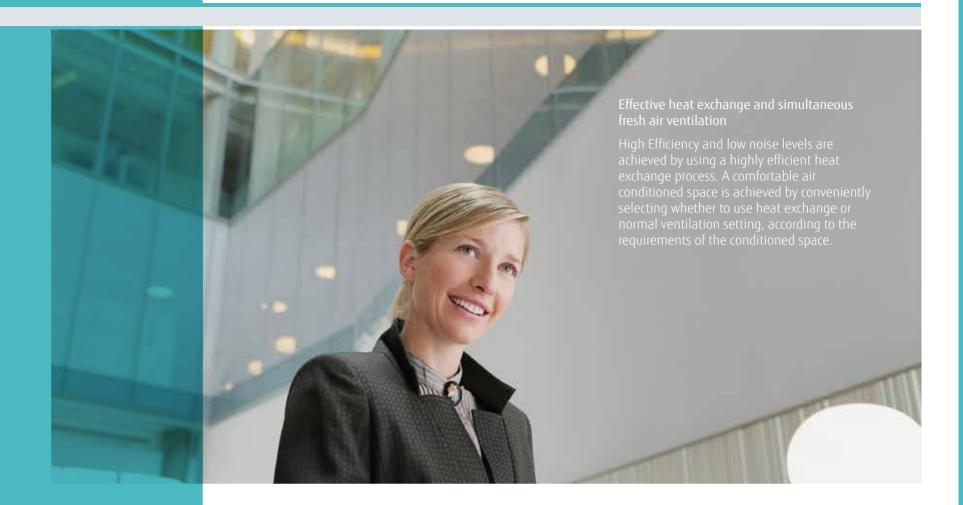
**VENTILATION Lineup** 

098 Energy Recovery Ventilato

100 DX Kit for Air Handling Applicatior

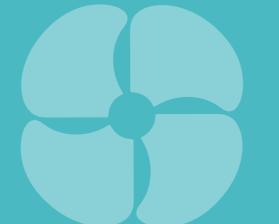
for VRF Outdoor Unit

102 Outdoor Air Unit



#### Lineup

Lineup										
Airflow rate (m³/h)	250	)	350		50	00	800		1	1000
Energy Recovery Ventilator	UTZ-BD0	D25C	UTZ-BD035	<b>d</b>	UTZ-B	D050C	UTZ-BD0800		UTZ	C-BD100C
Connectable capacity class (kW)	5.0	5.3 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 uTY-VD	-		ontrol unit ITY-VDGX	EEV unit UTP-VX90A	Control unit UTY-VDGX	EEV UTP-VXS		Control unit UTY-VDGX
Connectable capacity class (kW)		14.0 kW	1		22.4 kV	V	2	8.0 kW		
Outdoor Air Unit		ARXH054GT	ТАН		ARXH072G	TAH	ARX	H096GTA	AH.	



## **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.

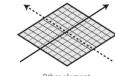
#### Energy efficiency and ecology

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

#### 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.



(Cross-flow element)

(Counter-flow element)

#### Quiet operation

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

25.5<sub>dB</sub> (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.





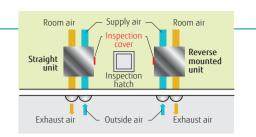




#### Reverse mountable direct air supply / exhaust system

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



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

UTZ-BD025C





UTZ-BD0350



UTZ-BD0500



UTZ-BD080C



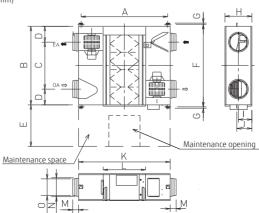
UTZ-BD100C

#### **Specifications**

Rated				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		
	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
ge _	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
xchar	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
eat E Venti	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
Ť	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
_ =	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
ati	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
je je	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
Dimen	sions	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	Weight		kg	29	49	57	71	83
Outlet	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	
Maxim	um humidity		%	85	85	85	85	85
Weight Outlet Operat Maxim	Energy Exchange Efficiency Cooling Energy Exchange Efficiency Heat pump Sound pressure level Input power Air flow rate External static pressure Sound pressure level sions duct diameter ion range	(Extra high)/High/Low (Extra high)/High/Low (Extra high)/High/Low (Extra high)/High/Low (Extra high)/High/Low (Extra high)/High/Low (Extra high)/High/Low	%  dB* W m³/h Pa dB* mm kg mm	63 / 63 / 65 70 / 70 / 72 31.5 / 30.5 / 26.5 128 / 123 / 96 250 / 250 / 190 105 / 95 / 45 31.5 / 30.5 / 26.5 882 × 599 × 270 29 150 -10 to 40	66 / 66 / 71 69 / 69 / 73 33.0/31.0 / 25.5 190 / 185 / 168 350 / 350 / 240 140 / 60 / 45 33.0 / 31.0 / 25.5 1,050 × 804 × 317 49 150 -10 to 40	62 / 62 / 64 67 / 67 / 69 37.5 / 35.5 / 32.5 289 / 225 / 185 500 / 500 / 440 120 / 60 / 35 38.5 / 38.0 / 32.5 1,090 × 904 × 317 57 200 -10 to 40	65 / 65 / 68 71 / 71 / 74 37.5 / 37.0 / 34.5 418 / 378 / 295 800 / 800 / 630 140 / 110 / 55 37.5 / 37.0 / 34.5 1,322 × 884 × 388 71 250 -10 to 40	65 / 65 / 70 71 / 71 / 76 38.5 / 37.5 / 34.5 464 / 432 / 311 1,000 / 1,000 / 70 105 / 80 / 75 40.5 / 39.5 / 36.5 1,322 × 1,134 × 38 38 250 -10 to 40

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

#### **Dimensions**



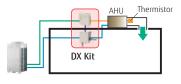
	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100B
Α	810	978	1,018	1,250	1,250
В	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
Н	270	317	317	388	388
T	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322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

# **DX Kit** for Air Handling Application for VRF Outdoor Unit

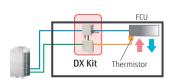


These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

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

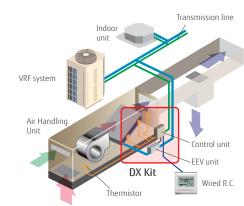


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



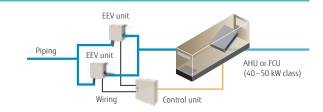
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

#### Arrangement as part of a VRF system



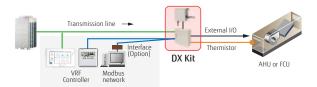
#### Supports a wide range of capacity classes

- 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

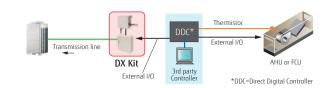


#### A variety of controls to match the application

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

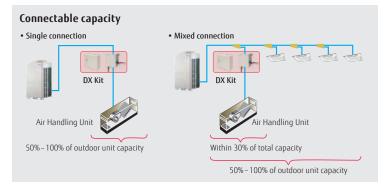
Possible to control via a MODBUS enabled BMS by using optional interface.

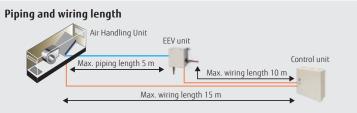
#### **Installation Limitation**

- 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.

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







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



#### Coocifications

Specifications	эреспісасіон												
Connectable Capa	icity 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	
Conneilus	Cooling	kW	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4	
Capacity	Heating	KVV	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

Ø12.70 Connection pipe diameter (Liquid) 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].

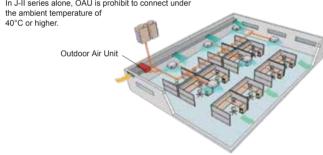


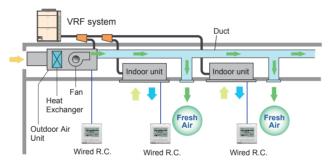


#### One VRF system can provide air conditioning and air supply at the same time.

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.

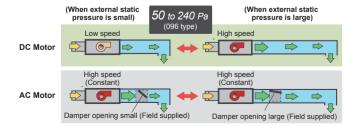






· Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.

• 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**



<sup>\*</sup> The temperature setting is discharged air temperature setting.

#### 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







ARXH096GTAH

ARXH072GTAH

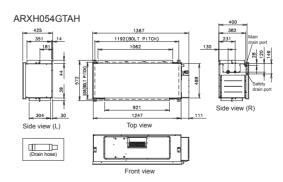
#### **Specifications**

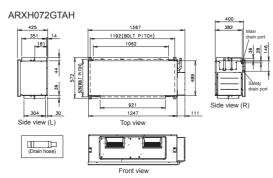
Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h	
Model No.			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH	
Power source			230/1/50	230/1/50	230/1/50	
Cooling		kW	14.0	22.4	28.0	
Capacity	Heating		8.9	13.9	17.4	
put Power Cooling / Heating		W	179	292	370	
Airflow Rate		m³/h	1,080	1,680	2,100	
Static Pressure	Standard (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 (Sm.	all / Large)	mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22	
Cooling		100DD	5 to 43	5 to 43	5 to 43	
Operation Range Heating		- °CDB	-7 to 21	-7 to 21	-7 to 21	
Refrigerant			R410A	R410A	R410A	

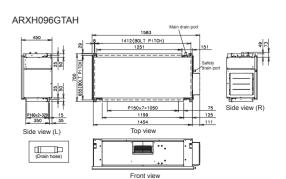
Note: Specifications are based on the following conditions. Cooling: Outdoor temperature of 33°CDB / 28°CWB. Heating: Outdoor temperature of 0°CDB / -2.9°CWB. Pipe length: 7.5 m Voltage: 230 [V].

#### **Dimensions** (Unit: mm)

#### Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH







## CONTROL SYSTEM & OPTIONAL PARTS

C-002 Control System Overview
C-006 Best Control Solution for Each Property
C-008 Comparison Table of Controllers
C-040 Optional Parts Overview



#### **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

#### CONVERTOR/ADAPTOR

C-030 BACnet® Gateway Software C-031 BACnet® Gateway (Hardware)

Network Convertor for LONWORKS®

System Controller Lite Software

C-032 MODBUS® Convertor KNX® Convertor C-033 Signal Amplifier

#### **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.

C-034 Control System List

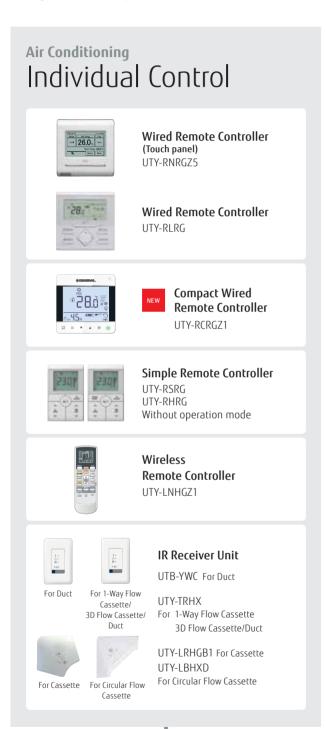


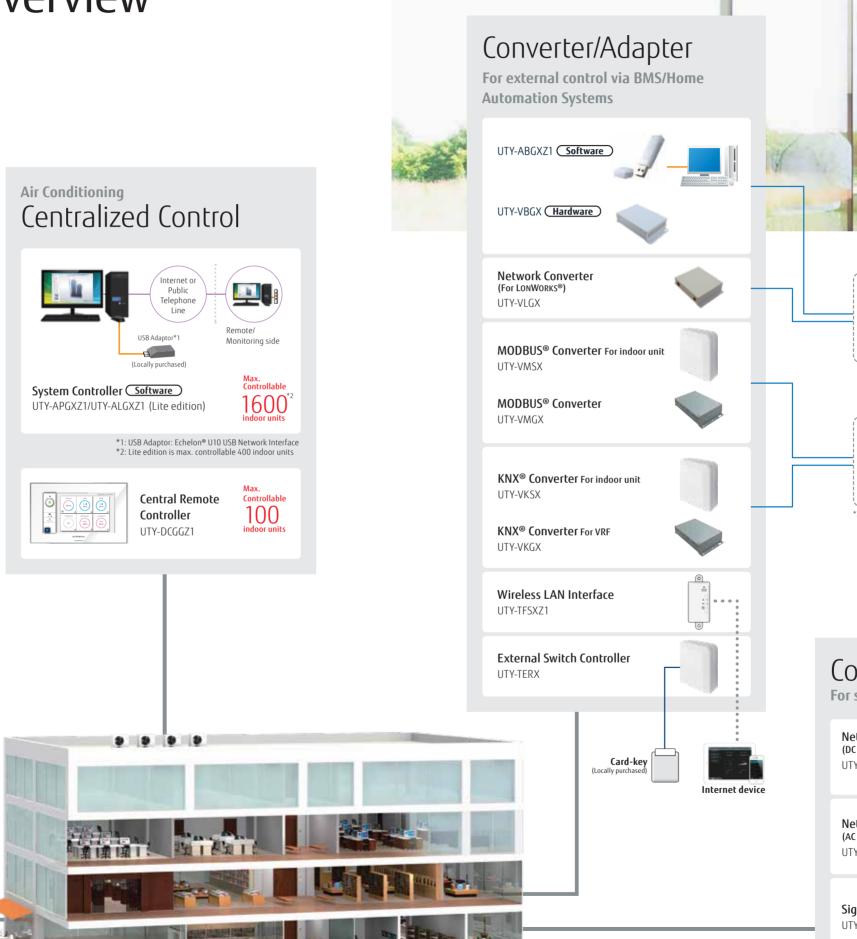
VRF V Series

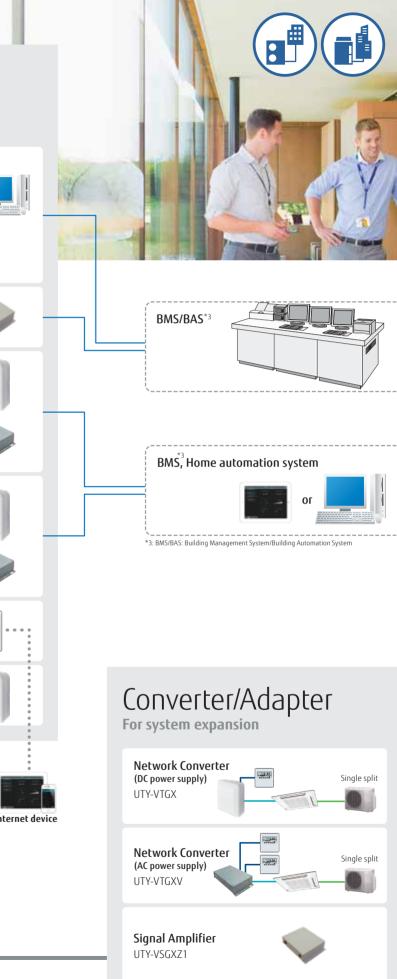


# Control System Overview

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







# Best Control Solution for Each Property Fujitsu General provides the best control solutions suitable for the various properties.

### SHOP

51101							
Туре	Individual Control		Centralized Control		Inte	grating Control (Inter	face)
			8	<u></u> 8		<b>\oint\oint\oint\oint\oint\oint\oint\oint</b>	
	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-DCGGZ1	UTY-APGXZ1, UTY-ALGXZ1			UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	•	•	•	•			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			•	•	•	•	•
Group Control		•	•	•			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)				•			
Remote Management			•	•			
Manage multiple sites			•	•			
Monitor energy consumption				•			
Control third party products				•			
Integrate FGL A/C into BMS					•	•	•

### HOTEL

Туре	I	ndividual Contro	ol	Centraliza	ed Control		Integrat	ting Control (In	terface)	
	-2864	\$H \$8		3 5566 * 855	<u></u>	-	•	•		
Market State of the State of th	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

OTTICL										
Туре	lı	ndividual Contr	ol	Centraliz	ed Control		Integra	ting Control (In	terface)	
	-2801 -2801	## ### ###		4000 2000			<b>\</b>	<b>*</b>		
Carlo Carlo	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
C. C.	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

ltem		### (Fig. 1)		100 2001	*28d=	12 BO	<u> </u>	196		72	THE PARTY OF THE P	3 0 0 0	<u> </u>	
		Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller* <sup>1</sup>	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		16	16	16	1	16	16	16	16	16	8	100	400	1600
Max. controllable	groups	-	-	-	-	-	_	 _	-	-	-	50	400	1600
On / Off		•	•	•	•	•	•	•	•	•	•	•	•	•
Operation mod		•	•	•	•	•	•	 _	•	•	•	•	•	•
Fan speed sett		•	•	•	•	•	•	 •	•	•	•	•	•	•
Room temp. se		•	•	•	•	•	•	 •	•	•	•	•	•	•
2	et point limitation	•	•	•	-		•	 •	_		-	•	•	•
Test operation Up/down air di	irection flap setting	•	•	•	•	-	•	 •	•	•	-	•	•	•
Right/left air d	lirection flap setting	•	•	•	•	_	-	_	•	=	-	•	•	•
Individual louv	ver control	•	-	-	•	-	-	 -	-	-	-	●*³	-	_
Group setting		-	-	-	-	-	-	-	-	-	-	•	•	•
RC prohibition		_	_	_	_	_	_	 -	_	_	•	•	•	•
Anti freeze set		•	_	-	•	_	-	 _	_	_	-	•	•	•
Set temp. auto		•	•	•	-	_	-	 -	-	_	-	-	_	
Economy mod		•	•	•	•		_	 	•	•	•	•	•	•
Human sensor	r control	•		-	-		_	 	_		•	-	•	•
Error		•	•	•	•	•	•	 •	-	_	•	•	•	•
Defrosting		•	•	•	•	•	•	•	-	-	-	•	•	•
Current time		•	•	•	-	_	_	-	•	•	•	•	•	•
Day of week		•	•	•	-	-	_	 -	-	-	-	•	•	•
R.C. prohibitio		•	•	•	•	•	•	•	-	=	•	•	•	•
Address displa	ЭУ	•	•	•	•	•	•	 •	_	_	_	-	•	•
Room temp		•	_	•	•	_	•	 •	_	=	_	•*4	•* <sup>4</sup>	•*4
Multi language	e	•	_	•	_	_	_	 _	_	<u> </u>	•	•	•	•
Summer time	ation.	•	_	_	_	_	_	_	_		_	•	•	•
Name registra Backlight	1011	•	_	•	•	•	•	•	_		•	•		
	t / 3D building display	_	_	_	_	_	_	_	_		_			•
	akage detection function	_	_	_	_	_	_	 _	_	_	_	•	•	•
	Period	Week	Week	Week	_	_	_		_		Week	Week	Year	Year
I Schedule	On/off, Temp, Mode, Times per day	8	4	8	_	_	_	-	-	_	4	20	144	144
On/off timer		•	•	•	●(OFF only)	_	_	 _	•	•	_	-	-	=
Sleep timer		_	_	_	-	_	_	_	•	•	_	_	_	-
Program timer	ſ	_	_	-	-	-	-	-	•	•	-	-	-	-
Auto off timer		•	•	•	-	_	-	-	-	-	-	•	-	-
Day off		•	•	•	-	-	-	-	-	-	•	•	•	•
Min. unit of tin	mer setting (Minutes)	10 • 30	30	30	-	-	-	-	5	5	5	10	10	10
Status monitor	oring system	-	-	-	-	-	-	-	-	=	-	•	•	•
Electricity char	rge apportionment	-	-	-	-	-	-	-	-	=	-	-	0	•
Error history		•	•	•	-	-	-	-	-	-	-	•	•	•
Emergency sto	ор	-	-	-	-	-	-	 _	-	_	-	●*²	-	_
Remote mana	gement	-	-	-	-	-	-	-	-	_	-	•	0	•
Energy saving	management	-	-	-	-	-	-	 -	-	-	-	-	0	0
E-mail notifica	ation for malfunction	_	_	-	-	-	-	-	_	_	-	•	•	•
Key lock		Child lock	• Child lock	Child lock	_	_	-	 _	-	_	• Child lock	Password setting	Password setting	• Password setting
Low noise mod	de	-	-	-	-	-	-	-	-	-	•	-	•	•

<sup>\*1 &</sup>quot;Operation mode" setting is not available for this model. \*2 This function is available only through external input control. \*3 Only individual airflow batch reset is mounted. \*4 This function is available only when using wired remote controller.

•: Supported O: Optional function -: Not supported yet

### Wired Remote Controller (Touch Panel)







Max. Controllable 16 indoor units

Max. Controllable 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,
- 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.



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

Change over

#### Various energy saving control

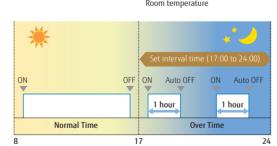
#### **Custom Auto**

- 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
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes

2 schedules Weekly Timer Set Temperature Auto Return Set Temperature Upper and Lower Limit Setting



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

#### Specifications

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**







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







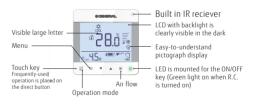
Max. Controllable single indoor units

Max. Controllable I 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

LITY-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 Group

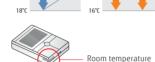
#### Corresponding to various applications

- 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.

• Up to 16 indoor units can be controlled with one remote controller.

• Suitable for hotels or offices as it is easily operated with no complex functions.





### **Simple Remote Controller**

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









Max. Controllable

Max. Controllable

1 Group

16 indoor units

UTY-RHKG (Without

### Easy-to-use operation

• 3-wire type

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room
- A large On / Off button is provided in the centre of the remote controller for easy operation.

Compact remote controller provides access to basic functions

· Can be used jointly with other individual control unit.

• Backlight enables easy operation in a darkened room.

• Following an error display, diagnostics can be carried out on the controller.

#### **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® Converter for Indoor Unit

Max Connectable

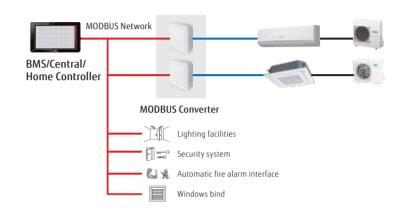
Single indoor unit





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

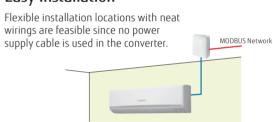
- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Converter must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.



#### 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**



## KNX® Converter for Indoor Unit



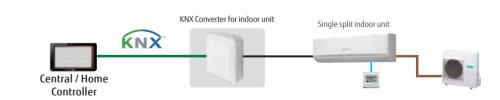


#### Max. Connectable

I Single indoor unit

#### KNX Converter is useful for individual control of indoor.

- New KNX Converter 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 Converter	1				

#### Modbus communication specifications

RTU mode
0/19200bps
8
n/odd/none
(no parity)
RS485
Om (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

114

### **Wireless LAN Interface**

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







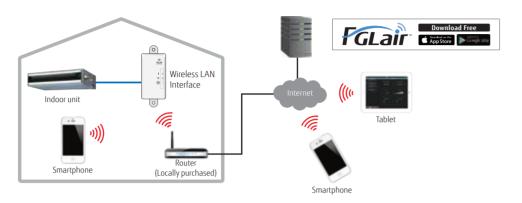
USB type for single split models UTY-TFSXF2



UTY-TFNXZ1 UTY-TFSXZ1

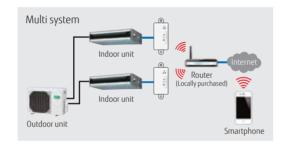
Max. Connectable 1 Single indoor unit • It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile

- 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



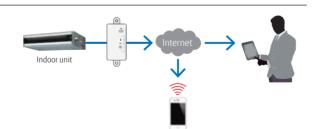
#### Multiple air conditioning management

• 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

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**







Max. Controllable group

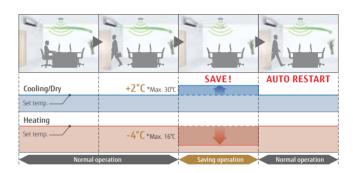
#### Air conditioner switching can be controlled by connecting other sensor switches

- 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



#### 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

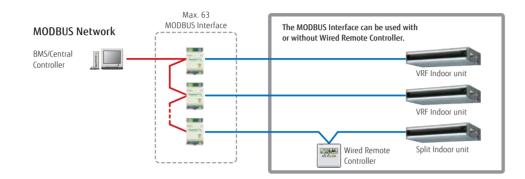




Max. Connectable Single indoor unit Max. Controllable 1 Group

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

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



### KNX® Interface

FJ-RC-KNX-1i



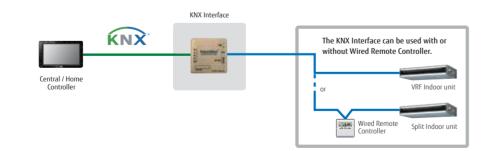




### The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- 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

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



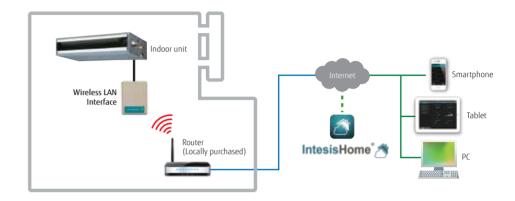




Max. Connectable 1 Single indoor unit Max. Controllable 1 Group

### IntesisHome A

- 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

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

### **Wireless Remote Controller**





Max. Controllable

Max. Controllable 1 Group

4 daily timers

Selectable

16 indoor units

### 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





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

\*Only Large Airflow Duct can not be connected to

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

## IR Receiver Unit for Cassette







UTY-TRHX Wireless

Cassette type indoor unit can be controlled with Wireless Remote Controller

#### Specifications

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.

For small- and medium-sized buildings and tenants

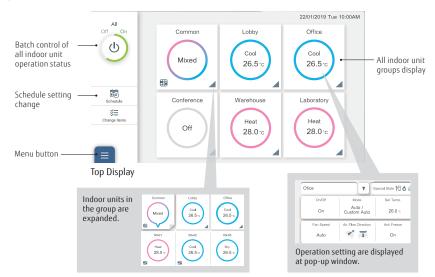
- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

Max. Controllable 100 indoor units

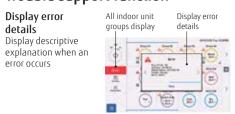
Max. Controllable 50 groups

#### 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



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.

Control / Monitoring Fujitsu air conditioner

• Error notification by E-mail



#### Coosifications

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				

<sup>\*</sup>The wireless remote controller (Model: UTY-LNHG) is necessary separately

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

VRF network system

Max. Controllable 100 outdoor units

Max. Controllable

400 indoor units

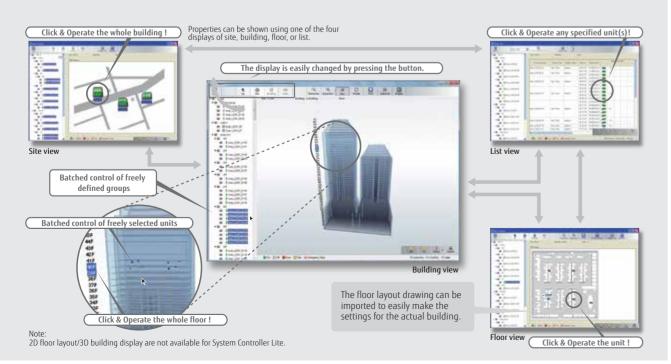


- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English,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

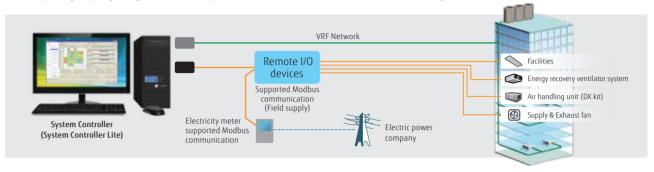


Features: System Controller/System Controller Light

#### 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,

#### 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.

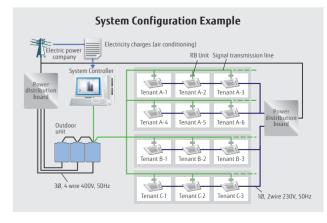
#### Electricity charge apportionment

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.



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#### 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.

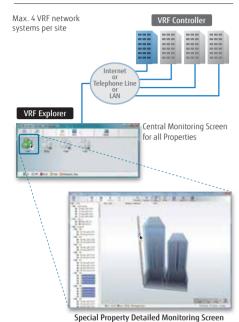
System Controller requires 2 software working together, VRF Controller runs on site and communicate with VRF system.

VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller.

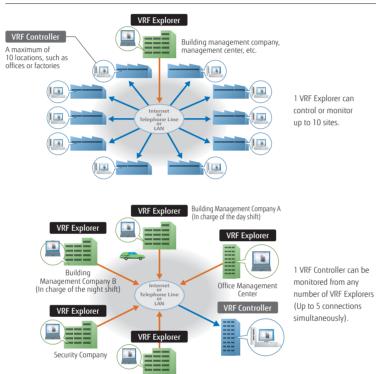
VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.

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

Headquarters Management Center

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**

	Туре		System controller		System controller lite				
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
	Max. VRF netwo	orks supported	4	_	1	_	-	-	_
System	Max. indoor uni	it / remote controller groups per VRF network	400	_	400	_	_	_	_
specification		nits per VRF network	100	-	100	_	-	_	_
pecification	Max. indoor uni	its / remote controller groups per System controller	1600	_	400	_	_	_	_
	Max. outdoor u	nits per System controller	400	-	100	_	_	_	_
	Multi site displa		10	-	10	_	_	_	_
	Number of build		20	-	_	_	_	_	_
	Number of floor	per 1 site	200	_	_	_	_	_	_
	Number of floor		50	_	_	_	_	_	_
Site	3D graphical lay		•	-	_	_	_	_	_
supervision	2D graphical lay		•	-	_	_	_	_	_
	List display		•	-	•	_	_	_	_
	Tree display		•	-	•	_	_	_	_
	Group display		•	-	•	_	_	_	_
-	Error notification	n	•	-	•	_	_	_	_
Error	Audible alarm		•	_	•	_	_	_	_
management	Error e-mail not	rification	•	_	•	_	_	_	_
	Error history		•	_	•	_	_	_	_
History	Operation histo	ΓV	•	_	•	_	_	_	_
,	Control history		•	_	•	_	_	_	l _
	231110111131019	On/Off	•	_	•	_	_	_	_
		Operation mode*	•		•	_	_		_
		Room temperature	•	_	•		_	_	_
		Fan speed	•	_	•	_	_	_	_
	Individual	Air flow direction	•	_	•		_	_	
	control	Economy mode	•	_	•	_	_	_	_
Operation		Room temperature set point limitation	•		•	_	_	_	
ontrol		Antifreeze	•	_	•	_	_	_	_
OHUO		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	•	-	•	_	_	-	_
	Annual Schedul		•	-	•	-	_	-	_
	Special day sett	ing	•	-	•	_	_	-	_
	On /off per day		72	-	72	-	_	-	_
Schedule	On / off per wee	K .	504	-	504	-	-	_	_
	Day off		•	-	•	_	_	_	_
		er setting (Minutes)	10	_	10	_	_	_	_
		e Weekly schedule	•	-	•	_	_	_	_
	Web Operation		•	-	•	-	_	_	_
Remote		Remote monitoring		-	-	•	_	_	-
nanagement	Remote operati		•	-	-	•	_	-	-
	Remote functio		•	-	-	•	_	-	-
		charge/bill calculation	•	_	_	_	•	_	_
lectricity	Tenant (block) s		•	_	_	_	•	_	_
harge		es apportionment setting	•	_	_	_	•	_	_
pportionment		nsumption allotment setting	•	_	_	_	•	_	_
ррогионнисти	Individual calcu	lation at cooling and heating	_	•	_	_	•	_	-
	Electricity mete	r supported	_	•	_	_	•	_	-
	Indoor unit rota	tion	_	•	_	_	_	•	-
	Peak cut contro	l	_	•	_	_	-	•	_
nergy	Outdoor unit ca	pacity save	_	•	_	_	_	•	_
aving		y saving operation	_	•	_	_	-	•	-
nanagement	Energy saving i		-	•	-	-	-	•	-
-		Power consumption monitor		•	-	-	-	•	-
	Electricity mete			•		-	-	•	-
xternal Device	Monitor		•	_	_	_	_	_	•
ontrol	Control		•	_	_	_	_	_	•
	Database impo	rt/export	•	_	•	_	_	_	_
	Automatic clock		•		•		_		<u> </u>
Others	Multi language	roojosantiit	7 languages	<del></del>	7 languages	<del></del>	<u> </u>	<del></del>	_
Juic13		rage detection function	/ laliguages	_	/ lallyuages	_	_	_	_
	I venidergurige		•	_		_		_	_
	Power shutdow								

#### Personal computer system requirements

ille lequileu i c s						
	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					

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

#### DACKING LIST

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

<sup>\*1:</sup> Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.

System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

## BACnet® Gateway







WHITE-USB-KEY



Max. Controllable

4

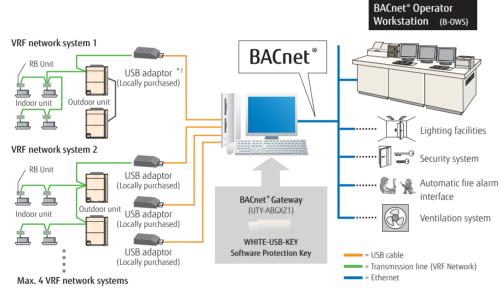
VRF network systems

Max. Controllable 400 outdoor units

Max. Controllable 1,600 indoor units • 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.



#### \*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	
E-L-1@1110.HCD.N.	TOUT 10 Change (MALL) and a TOUT 10 Change (MALL) and a TOUTON (Description of VOE Natural)	

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

#### <Packing list>

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

## BACnet® Gateway







Max. Controllable 1 VRF network system

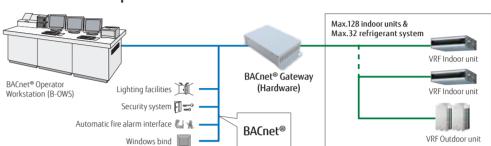
Max. Controllable

32 refrigerant systems Max. Controllable

128 indoor units

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





Specifications

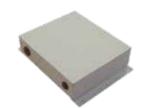
Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4

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 Converter for LONWORKS®







Max. Controllable

Max. Controllable

Max. Controllable

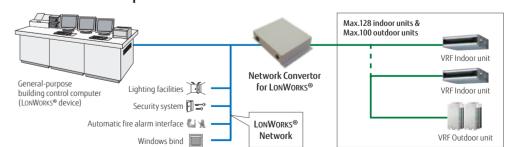
4 units to BMS

100 outdoor units

128 indoor units

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

### 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® Converter for VRF





# Signal Amplifier UTY-VSGXZ1







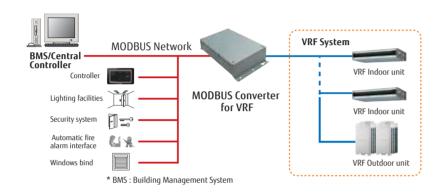
Max. Controllable 9 units to one VRF

Max. Controllable 100 outdoor units

128 indoor units

#### The MODBUS Converter 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 Converter
- The MODBUS Converter permits central monitoring and control of air conditioners from BMS or Central
- Up to 9 converters 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



## KNX® Converter for VRF





### KNX Converter is useful for centralized control in a system.

- New KNX Converter 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 Converter.



#### Specifications

100 outdoor units

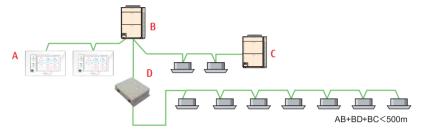
128 indoor units

Specifications	
Model name	UTY-VMGX
Power Supply	220-240 V 50/60 Hz
Input power (W)	Max. 2
Dimensions (H $\times$ W $\times$ 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 $\times$ W $\times$ D) (mm)	54 × 260 × 150
Weight (g)	1,200

- 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								



128

# Controller System List (available) For VRF

	Refrigerant	Indoor unit  Cassette  Compact Slim type Large type Slim type Large type Low Static Pressure Duct  Medium Static Pressure  Sind type / Standard type 4-way Flow Circular Flow (With drain pump) (With drain pump) High Efficiency   High Efficiency	Indoor unit  Duct Floor   Wall Mounted  High Static Pressure   EEV   Ceiling   EEV   EEV   High Efficiency   Normal   High Efficiency   external   external   external											
Туре		December   30 Flow   30 Flow   Grid type / Standard type / Standard type   4-way Flow   Circular Flow   Mini (With drain pumph)   Slim   High Efficiency   Mini (With drain pumph)   Mini (With drain pumph)   High Efficiency   Mini (With drain pumph)   Mini (With drain pump	High Efficiency Normal High Efficiency external											
Controllers		UTY-RNRGZ3	UTY-RNRGZ3											
Wired Remote Controller	(W) (S)	UTY-RLRG	● UTY-RLRG											
	*280 %	UTY-RCRGZ1	UTY-RCRGZ1											
Simple Remote Controller	2-wire type 3-wire type	UTY-RSRG, UTY-RHRG, UTY-RSRG, UTY-RHRG, UTY-RSRG, UTY-RHRG, UTY-RSRG, UTY-RHRG, UTY-RSRG, UTY-RHRG, UTY-RHRG	UTY-RSRG, UTY-RHRG UTY-RSRG UTY-RSKG, UTY-RHRG UTY-RSKG, UTY-RHRG UTY-RSKG, UTY-RHRG UTY-RHKG											
Wireless Remote Controller		UTY-LNHG	UTY-LNHG											
Central Remote Controller	0000	UTY-DCGGZ1	UTY-DCGGZ1											
System Controller, System Controller Lite	-	UTY-APGXZ1, UTY-ALGXZ1	UTY-APGXZ1, UTY-ALGXZ1											
BACnet Gateway	./ 💙	UTY-ABGXZ1, UTY-VBGX	UTY-ABGXZ1, UTY-VBGX											
Network Convertor for LONWORKS	•	UTY-VLGX	UTY-VLGX											
MODBUS Convertor	J	UTY-VMSX UTY-VMSX UTY-VMSX UTY-VMSX	UTY-VMSX UTY-VMSX											
MODBUS Convertor	-	UTY-VMGX	UTY-VMGX											
MODBUS Interface		FJ-RC-MBS-1 FJ-RC-MBS-1 FJ-RC-MBS-1 FJ-RC-MBS-1 FJ-RC-MBS-1	FJ-RC-MBS-1											
KNX Convertor	0	UTY-VKSX UTY-VKSX UTY-VKSX UTY-VKSX	UTY-VKSX UTY-VKSX UTY-VKSX											
KNX Convertor	-	UTY-VKGX	UTY-VKGX											
KNX Interface		FJ-RC-KNX-1i FJ-RC-KNX-1i FJ-RC-KNX-1i FJ-RC-KNX-1i FJ-RC-KNX-1i FJ-RC-KNX-1i	FJ-RC-KNX-1i FJ-RC-KNX-1i											
Wireless LAN Interface	(a) (b) (c) (d)	UTY-TFSXZ1 UTY-TFSXZ1 UTY-TFSXZ1	UTY-TFSXZ1 UTY-TFSXZ1 UTY-TFSXZ1											
Wireless LAN Interface		FJ-RC-WIFI-1 FJ-RC-WIFI-1 FJ-RC-WIFI-1 FJ-RC-WIFI-1 FJ-RC-WIFI-1	FJ-RC-WIFI-1 FJ-RC-WIFI-1											
External Switch Controller	J	UTY-TERX	UTY-TERX											

#### **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.

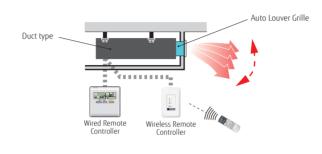


#### Flexible Control

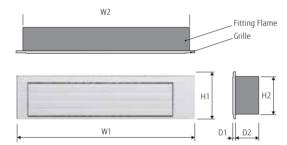
• Operation with indoor unit Auto Louver can be operated by synchronizing remote controller of indoor unit.

- 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**



					ı	Jnit:mm
Model Name	W1	W2		H2		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 U	nit		ARHG07/09LLTA ARHG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)									
Power Supply				Connecting with Control box of indoor unit									
Fixing of Auto Louve	r Grille			Screw fixing to Flange or Square Duct									
Extension Square Du	ct Limit		1.0m (Max. duct length between indoor unit and Grille)										
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×1083×(84÷9)									
Waiahk	Net	kg	2.0 (4.4)	3.0 (6.7)									
Weight	Gross	(lbs)	3.0 (6.7)	3.5 (7.8)	4.0 (8.9)								
Color			White										
Louver Motor				Stepping Motor									
Accessories			Fitting Flame, etc.										
	Cooling	°C	18 to 32										
Operation range	Cooling	% RH		80% or less									
	Heating	°C		16 to 30									

# External Power Supply Unit





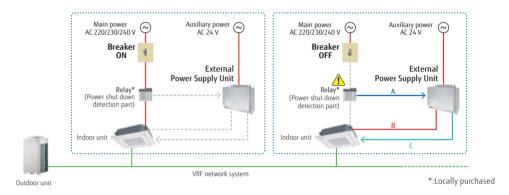


External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

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.





- 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.

KS-270

#### **Specifications**

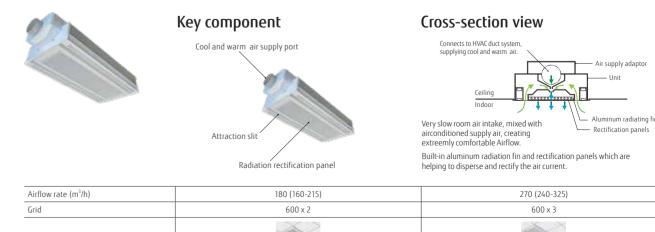
Model name	UTZ-GXXA
Power Supply	AC 24 V 50/60 Hz, single phase
Dimensions (H $\times$ W $\times$ D) (mm)	65 × 186 × 178
Weight (g)	500

### **AIR BEAM Radiation Air Outlet Unit**

\*Production by order

For system ceiling (Integrated type)

Please get in touch with us for more details.



KS-180

## Optional Parts List For VRF



					Cassette		Indoor unit			Du	ıct				Du	ct				or unit oor				Wall Mo	unted	
	Refrigerant			Compact Grid type / Standard type		Large type		Large type ar Flow	Mini (With drain pump)	Low Static P Sli (With dra		Slim High Efficiency	Me Normal	dium Static Pressu High Eff	iciency		High Static Pressur rmal	High Efficiency		EEV external	Floor / Ceiling			EEV external		-
Туре		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	ARXO 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-TR	!HX			RHGB1		LBHXD	UTY-TRHX	UTB-YWC	UTY-TRHX	UTB-YWC	UTY-TRHX		UTB-YWC		UTY-TRHX	UTB-YWC								
Human Sensor Kit	The same							• SHZXC																		
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.								,	UTY-	XSZX		,	,	UTY-X	SSZX	,									
Cassette Grille	UTG-UFGE-W UTG-UFGE-W UTG-UFGE-W UTG-UFGE-W UTG-UFGE-W UTG-UFGE-W UTG-UFGE-W	UTG-UNGA-W UTG-UNGB-W	UTG-USGA-W	UTG-UFGE-W UTG-UFGC-W		■ IGGA-W	UTG-L	JKGC-W JKGA-B																		
Auto Louver Grille Kit									l	● UTD-GXTA-W, JTD-GXTB-W (18) UTD-GXTC-W (24)		UTD-GXTC-W (009/012/014)														
Long Life Filter												UTD-LF25NA (018)	UTD-LF25NA		UTD-LFNA	UTD-L	● LF60KA 0/036)									
Flange	0-											UTD-SF045T (018) UTD-RF204 (018)	UTD-SF045T UTD-RF204									UTD-RF204				
Drain Pump Unit												UTZ-PX1NBA (018)	UTZ-PX1NBA									UTR-DPB24T				
Wide Panel	Indoor unit 950				UTG-A	AGYA-W	UTG-A	MKXA-W																		
Panel Spacer	Panel spacer				UTG-B	● BGYA-W		● BKXA-W																		
Fresh Air Intake Kit*1	For Compact For Cassette Cassette			UTZ-VXAA	UTZ-	• -VXGA	UTZ-	• VXRA																		
Air Outlet Shutter Plate	For Cassette			UTR-YDZB	UTR-	• -YDZC	UTR-	• YDZK																		
Insulation for High Humidity	For Compact Cassette type/ Cassette type			UTZ-KXGC	● UTZ-KXGB	UTZ-KXGA		• 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

### Function List For VRF



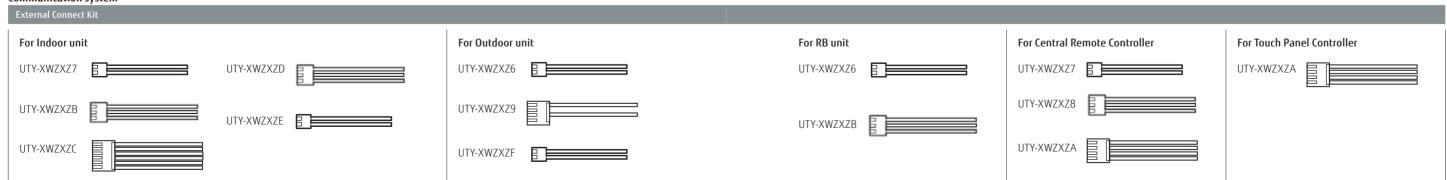
**External Input and Output Function/External Connect Kit** 

				Cassette			Ind	oor unit		Duct						Flores		Indo	oor unit		Wall Mo	ounted				Outo	loor unit			Controlle
Refrigerant			Compact		Large type	Slim type	Large type		ow Static Press		dium Static Pr	essure	High Static Pressure	High Stati	Pressure	Floor					Wall Mi	ountea						V-III		
	One-way Flow		Grid type / Standard type		ay Flow		cular Flow		Slim (With drain pump			Efficiency	Normal	High Ef		Ef exte	V rnal				EEV external							V-III Tropical	VR-IV	Central Remote Controller
	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH						ARXD					ARI 030G				3HA # 14/018/ 030// GTEH 05	ABHA 036/045/ 04GTEH	ASHA /007/009 12/014 GCGH	ASHE 004/007/009 012/014 GCEH	ASHA 18/24GBCH	ASHA 030/034GTEH	AJH 072/090/108/ 126/144/162 LELBH	AJH 040/045/054 LBLBH, AJH 040/045/054 LELBH	AJH 040/045/054 LCLBH	AJH 072/090/108/ 126/144/162 LALBH	AJH 072/090/108/ 126/144/162 LNLBH	AJH 072/090/108/ 126/144 GALBH	UTY-DCGGZ1
ation / Stop								Y-XWZXZD Y-XWZXZB										• UT'	Y-XWZXZD Y-XWZXZB											
n / All Off																														●UTY- XWZXZ7 ○UTY- XWZXZ8
1 Stop																										• UT	Y-XWZXZ6	T		
ed Stop							• UT O UT	Y-XWZXZD Y-XWZXZB										• UT	Y-XWZXZD Y-XWZXZB											
ergency							• UT O UT	Y-XWZXZD Y-XWZXZB										• UT	Y-XWZXZD Y-XWZXZB							<b>●</b> UT	Y-XWZXZ6			●UTY- XWZXZ7 OUTY- XWZXZ8
ed mostat							• UT O UT	Y-XWZXZE Y-XWZXZ7										• UT • UT	Y-XWZXZE Y-XWZXZ7											
Noise Mode Operation																										<b>●</b> UT	Y-XWZXZ6			
ing/ ting Priority																										• UTY-XWZ	XZ6			
loor Unit Operation Peak rol	i																									<b>●</b> UT	Y-XWZXZ6			
er Usage Information fron tricity Meter	m																									<b>●</b> UT	Y-XWZXZF			
ration Status							• UT	Y-XWZXZC										• UT	Y-XWZXZC							O UT	Y-XWZXZ6			OUTY- XWZXZA
r Status							• UT	Y-XWZXZC										• UT	Y-XWZXZC							О ИТ	Y-XWZXZ6			OUTY- XWZXZA
or Unit Fun Operation IS							• UT	Y-XWZXZC										• UT	Y-XWZXZC											
iliary Heater Output								• UT	r-xwzxzc	● UTY-XWZXZ0			UTY-XWZXZC																	
e Heater																									UTY-XWZ>	XZ9		<ul><li>UTY-XWZX</li></ul>	Z9	

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.

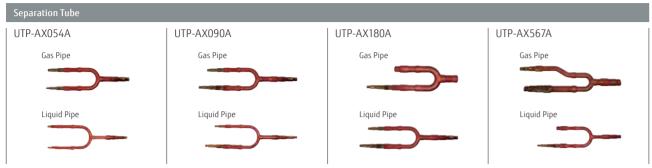
●: Dry Contact ○: Apply Voltage

Communication system

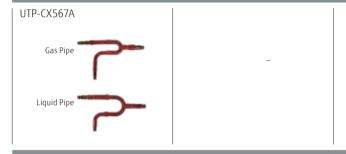


## Separation Tube etc.





#### Outdoor Unit Branch Kit



#### EV Kit



#### 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

#### Outdoor unit Branch kit

Model name		UTP-CX567A (V-III Tropical)
Number of outdoor unit	2 outdoor units	1
Number of outdoor unit	3 outdoor units	2

#### **EV** Kit

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

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