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OGENERAL



VERAL LIMITED

FUJITSU GENERAL LIMITED

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HEAT PUMP VRF CATALOGUE 2024

for Middle East

FUJITSU GENERAL LIMITED

FUJITSU GENERAL Way

Our Mission

Living together for our future

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

Our Philosophy

Act Spontaneously

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

Develop Our Team

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

Value Integrity

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

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VRF OUTDOOR UNITS

VRF LINE-UP 44

For SMALL BUILDING

VRF **J-IIII Tropical Series** Heat Pump type for heating or cooling operation 4 HP - 6 HP 6 Models • Single phase: 4 HP to 6 HP/3 models • 3 phase: 4 HP to 6 HP/3 models



50

46

VRF V-III Tropical Series Troduction by order

Heat Pump Modular type for heating or cooling operation 8 HP - 54 HP 39 Models • Space saving combination: 8 HP to 54 HP/24 models • Energy efficiency combination: 16 HP to 46 HP/15 models



VRF INDOOR UNITS

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OUR HISTORY

Overseas Air Conditioning Business since 1971 VRF Business since 2001

FUJITSU GENERAL's VRF Series has been developed based on our long-term air-conditioning technology know-how and was first provided 14 years ago. We have offered a series of products from large homes to large-scale buildings to meet the various market needs.

For Commercial Use

2001 10HP / Heat recovery & Heat pump 2003

10HP / Heat recovery 8,10HP / Heat pump

S

& Cooling

8 to 42HP / Heat pump

2007

2009 High efficiency and Compact design model Extensive lineup from 8HP to 48HP in 2HP increment / Heat pump

2012 High efficiency and Compact design model 8 to 48HP / Heat Recovery 2013 Tropical spec model Extensive lineup from 8HP to 42HP in 2HP

increment / Heat pump

2015

High efficiency and large capacity model. Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump



VRF V-II 뒚



VRF **V-III**

For Residential & Light Commercial Use

2004 Small VRF Series is released. 6HP / Heat pump

2011 High efficiency and small capacity model 4HP to 6HP / Heat pump

VRF J-II

VRF **V**



VRF J-IIS

VRF **V-II**

2016 High efficiency and small capacity model 4HP to 6HP / Heat pump

VRF VR-II



VRF J-III

2017 Tropical spec model High efficiency and compact design model 4HP to 6HP / Heat pump

2017 High efficiency and compact design model 10HP to 12HP / Heat pump



VRF **J-III** 🌆



VRF J-IIL

VRF 🤳



1936 Established as Yaou Shouten Ltd.

1971 Air conditioner exports to Middle East. **Certification Acquisition of**

1998 : Fujitsu General (Shanghai) Co.,Ltd. 1999 : Fujitsu General (Thailand) co.,Ltd. 2002 : FGA (Thailand) Co., Ltd. 2006 : Fujitsu General Central Air-conditioner (Wuxi) co.,Ltd. **New Product Initiatives** Fujitsu introduced inverter technology which used R410A refrigerant.





electronic equipment.





2016

Tropical spec model Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump



an EU directive on the restriction of the use of certain hazardous substances in all consumer electrical and



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



WORLDWIDE LOCATIONS

Under a system of five bases in Europe, the Middle East, Asia and Oceania, North and South America, and Japan, the company promotes Globalization from a worldwide perspective while emphasizing the actual conditions in each region.



JAPAN Head Office



Technology research building (Japan)





Fujitsu General Sales & Trading (Shanghai) Co., Ltd.



Co., Ltd. (Taiwan)



Fujitsu General (EURO) GmbH (Germany)

(UK) Ltd. (U.K.)

Bangkok Office (Thailand)





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

• Fujitsu General America, Inc.



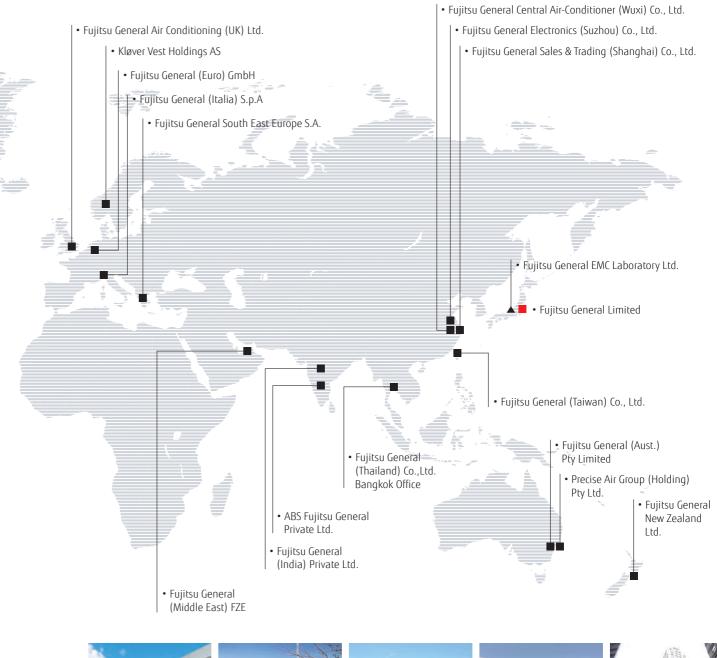


• Fujitsu General Do Brasil Ltda

East Europe S.A. (Greece)



Fujitsu General (India) Private Ltd. (India)





(Australia)



Precise Air Group (Holding) Pty Ltd. (Australia)

Ltd. (New Zealand)





ABS Fujitsu General Private Ltd. (India) (Brasil)

Fujitsu General Do Brasil Ltda.

(U.S.A.)

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Fujitsu General New Zealand

Fujitsu General America, Inc.



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



Kløver Vest Holdings AS (Norway)



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



GLOBAL BUSINESS ACTIVITIES

We have been recognized for our activities in advertising, human resource development and customer service, as well as for our community-based social contribution activities in each region, winning numerous awards and achieving a high level of customer satisfaction.

North and South Americas





HVAC trade shows in Bra:





Call center



Middle East







New product seminar in UAE

Europe



HVAC trade show in Germany



Training in Germany

-

2012

is given annually by iF





HVAC trade show in Australia



Launch event in New Zealand

Oceania



Launch event in New Zealand

International authoritative design awards





The NEWS Dealer Design Awards



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



Superbrands is the world's largest independent arbiter of branding.



The iF Product Design Award International Forum Design GmbH for industrial products from around the world.



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



reddot winner 2020

A product design competition One of the famous design that has been held since award in the world. Designs 1955. Products that win the are judged on innovation award are given the "Red Dot" and aesthetics, as well seal, a sign of international recognition of quality. as their benefit to users, clients/brands, and society.



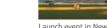
ProductReview.com.au's annual awards are selected from products and services that have been well-rated by the ProductReview community.





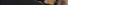






















Asia



Thanksgiving party in Taiwan







New product presentation seminar in Singapore



Service training in Vietnam



Voted by Australians as the 'Most Trusted Brand – Air Conditionina Category 5 Years Running'



China State Construction Engineering Luban Prize



The Good Design Award is an award sponsored by the Japan Institute of Design Promotion, and is given once a year to items of outstanding design.



PROJECT REFERENCES

Introduced in over 50 countries worldwide

Highly popular for their excellent quality, energy efficiency, and ease of installation, Fujitsu General's products are installed in a wide range of buildings around the world, including high-rise office buildings, stores, hotels, public facilities, schools, hospitals, and residences.











For Light commercial use

- Shop in Europe
 Factory in Europe
- 3 School in Asia
- 4 Hospital in Asia 5 Office in Asia
- 6 Shop in Oceania
- 7 Office in Oceania
- 8 School in the Middle East
- 9 Public facility in the United States









For Commercial use

- 10 Public Square in Asia
- 11 Hotel in Asia
- 12 Hotel in Asia 13 Public facility in Asia
- Apartment in Oceania
- 15 Apartment in Oceania
- 16 Hotel in the Middle East
- 17 Hotel in the Middle East



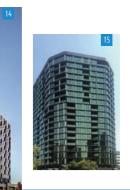


















For Residential use

Villa in the Africa
Residence in Oceania
Residence in the United States
Villa in the 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.



Overseas manufacturing companies



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



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



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



Fujitsu General Electronics Ltd. (Japan)



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



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

HIGH-QUALITY DEVELOPMENT & PRODUCTION

Advanced Research Facilities and Equipment

Calorimete

Measure the temperature,

inlet and outlet of the air

conditioner to evaluate its

cooling and heating capacity.

humidity, and airflow at the

Performance tests





Airflow measurement room Measure the airflow of air conditioners, from compact room air conditioner models to variable refrigerant flow (VRF) systems.

Reliability tests



Constant temperature room Verify product performance in cooling and heating operations under various temperature and humidity conditions.

Practical test room Check whether the performance of the air conditioner can be



Measure the operating sounds

of air conditioners on walls and

ceilings with reduced sound

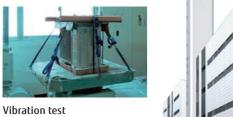
reflection.

Shower test room Check if the electrical box of the outdoor unit is protected from sustained under the conditions of strong wind and rain, such as the actual housing environment. during a typhoon.





Compressibility test





60-m Height Difference testing tower

Tests oil circulation in a compressor for reliability.

Fujitsu General is one

centers in Japan. The

research and development

conducted in these facilities

contributes to providing our

customers with the highest

quality and performance.

of Japan's leading manufacturers with R&D



FACILITIES

Certification of ISO 9001 and ISO 14001

ISO 9001 ISO 14001 () Number of compa



Product Quality Assurance

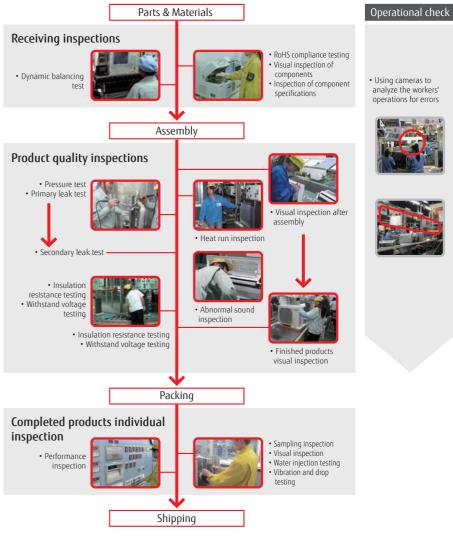
All Fujitsu General plants are ISO 9001 certified and operate under a unified quality control system. We deliver to customers all over the world high-quality products that have passed stringent quality inspections.

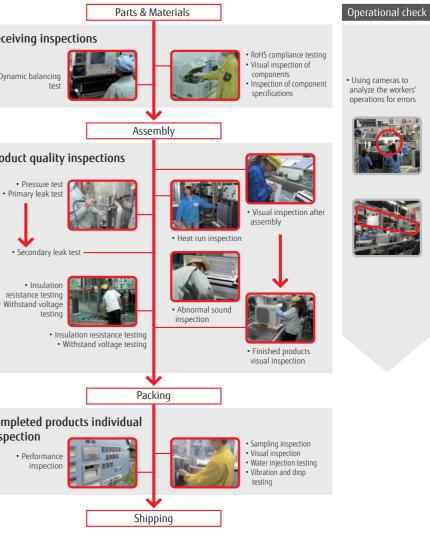
Receiving inspection

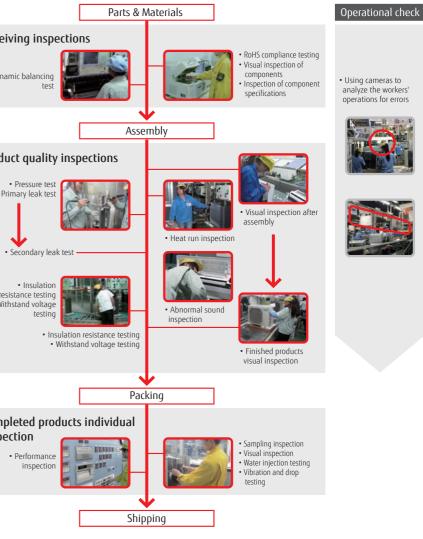
We require all our parts suppliers to submit test reports to ensure that all parts we receive from them meet our quality standards. Our in-house test department inspects incoming parts to ensure their compliance with RoHS as required by the EU. We also conduct 100% inspection of main parts to prevent defective parts from making it to assembly lines.

Quality inspection of products

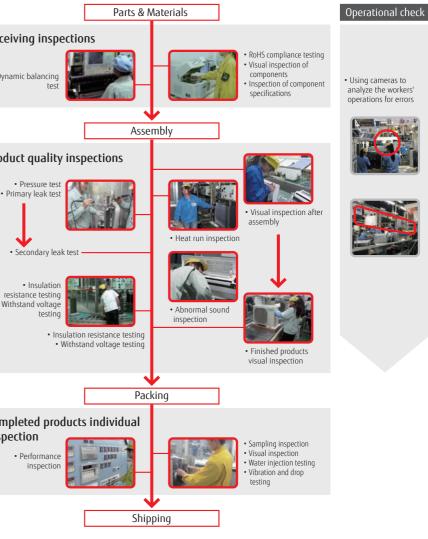
We carry out stringent quality inspections in all production processes performed in our plants. To keep the quality of our products high, inspectors check their quality from start to finish on production lines.







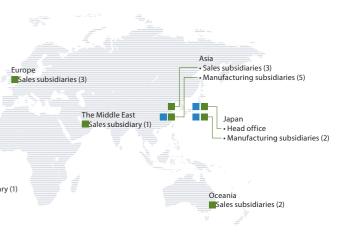
OGENEROL 15







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OUR SOLUTION FOR ALL

Fujitsu General provides the best solutions suitable for properties.

PROPERTIES



Light Commercial APARTMENT, VILLA

Fujitsu General offers the small VRF system to match from large living rooms to bedrooms for apartment and villa.

APARTMENT





Medium Static Pressure Duct

Small space air conditioning

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



Mini Duct



Large space air conditioning in a family поол





Small space air conditioning

Various ranges of low capacity indoor units to suit small space such as a guest room

Compact Wall Mounted

Comfortable dining air conditioning with powerful airflow



Large Wall Mounted

Light Commercial HOTELS

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

Large space air conditioning in the reception and lobby

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



Simple Remote Controller with sophisticated design

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

Large LCD screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.



Ventilation of the whole hotel supported

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



System controller

Centralized control of air conditioning in shared spaces

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





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1788 FAN

CO&O MODE

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I TEMP.





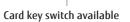
Guest room air conditioning with excellent comfort, energy saving and easy installation

Space saving

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



Mini Duct



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



Use of an external connect switch

Comfortable airflow that switches up and down air directions

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



Auto Louver Grille Kit

Light Commercial **SCHOOL**

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



Central Remote Controller UTY-DCGGZ3

LAN

Central remote controller with improved operability

Controls the temperature of each room easily, and manages and sets the operation control for a week. Energy-saving management by setting upper and lower temperature limits and operating prohibitions.





Control and monitoring

РС

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



iOS, Android and/or Windows



Mini Duc





Wall Mounted

Various indoor units

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





Cassette Circular Flow

Comfortable room air conditioning without airflow feeling

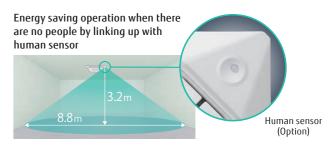
Circular Airflow Cassette blows out in all directions without temperature unevenness



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







Light Commercial RESTAURANT, SHOPS

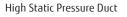
Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.

RESTAURANT



Appropriate air conditioning in the atrium space

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





For ambiences with dim lightings

Cassette Circular Flow Series



Color variations by two panels

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



SHOPS

J**ni** Achiev





Uniform temperature air conditioning

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



Commercial LARGE BUILDING

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



Individual air conditioning system for large buildings

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





8 HP - 54 HP 39 Models • Space saving combination: 8 HP to 54 HP/24 models • Energy efficiency combination: 16 HP to 46 HP/ 15 models

Centralized control of both air conditioning and lighting

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



Difference in height Up to 110 m

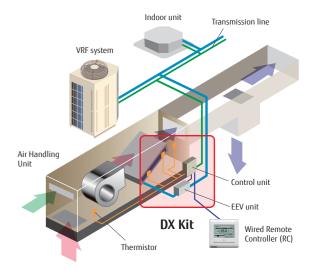
The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III Series, but by installing the pressure sensor kit it is possible to expand it to 110 m. (*This product can be used connected only V-III tropical Series.)



Pressure Sensor Kit

Ventilation(AHU) linked with VRF system

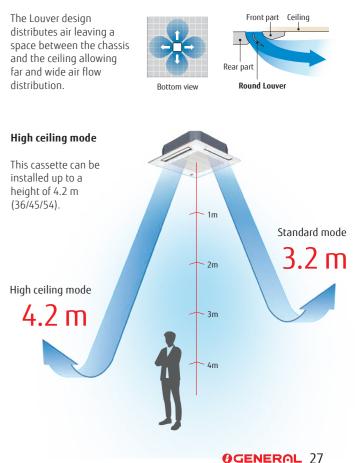
Fujitsu General's DX Kit enable other manufacture's air handling units (AHU) to be incorporated into a Fujitsu VRF system. Possible to control comfortable air conditioning and ventilation.



4-way Flow Cassette



Improvement of the airflow distribution



VRF CORE TECHNOLOGY

HIGH ENERGY EFFICIENCY HIGH RELIABILITY DESIGN FLEXIBILITY MORE COMFORT EASY INSTALLATION EASY SERVICE & MAINTENANCE

VRF systems can be designed to create an air conditioning solution to suit most buildings requirements.

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

HIGH ENERGY EFFICIENCY

Operation Performance is Efficiently Controlled.

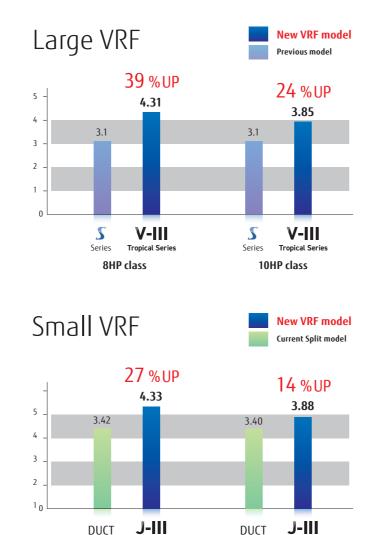
Room temperature set point limitation

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

Highly Energy Efficiency

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





DUCT

Split

Tropical Series

6HP class

DUCT

Split

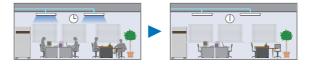
4HP class

Tropical Series

Auto-off timer

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

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



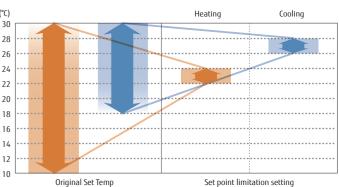
Energy saving management

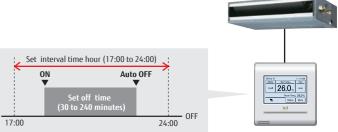
A variety energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed by using System Controller.

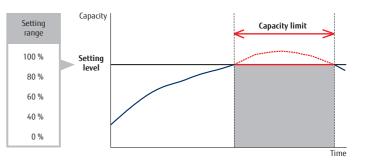


Capacity limit operation

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







VRF CORE TECHNOLOGY

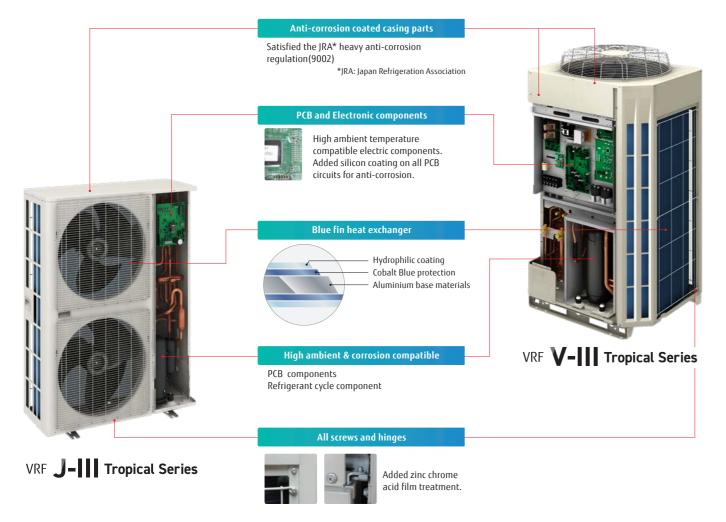


Life-extending operation

Outdoor unit rotational operation The compressor starting order is rotated so that the running time is shared.

Heavy anti-corrosion treatment design





Take special notice of the following in order to enhance the anti-corrosion effect.

• Keep the unit free of direct sea breeze as much as possible by installing a windshield plate or placing the unit on the leeward side of the building.

• Arrange the unit so that any salt attached to the enclosure can be washed away by rain.

- Any water left on the bottom of the outdoor unit can increase corrosion. To prevent interference with the water drain, be careful of the tilting angle of the unit.
- Wash the enclosure regularly with water to remove any salt attached.
- Repair any damages on the unit (i.e. scratches) caused during installation or maintenance.
- Check the condition of the unit regularly. (If necessary, retreat the unit for anti-corrosion or make parts replacements.)

• Make sure the drainage is secured at the foundation.

Backup operation

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

NOTE: Need to change the Outdoor unit setting in order to perform the Backup Operation

Advanced refrigerant control

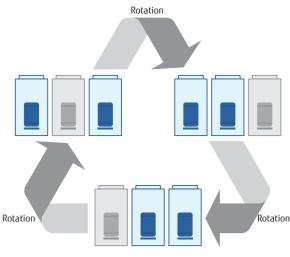
Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.

Liquid flow back protection

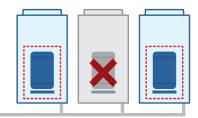
By adopting a large sized accumulator, the not completely vapourised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.

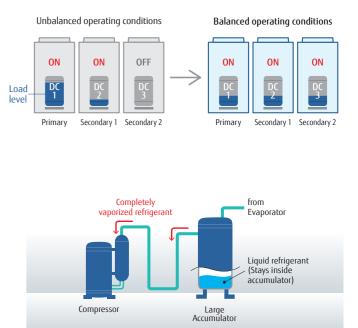
Oil Recovery operation

Periodic oil recovery operation is done automatically in order to feed back oil from the indoor unit to compressor.



The start and stop timings are alternated among connected compressors.





DESIGN FLEXIBILITY



Overall piping length 1,000 m (For V-III tropical)

Total pipe length 1,000 m maximum

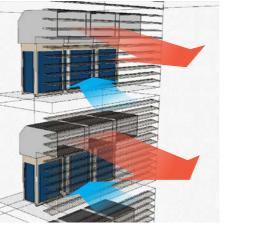
Actual pipe length Height difference between outdoor and indoor units 165 m 50 m maximum (V-III tropical) NOTE: Possible to extend the height difference by using option parts UTY-SPWX For the outdoor unit installed below the indoor units: 40m maximum Т Height difference 110 m* maximum * It is only when using the optional Pressure sensor kit. This product can be connected only to V-III Series. Pipe length from first

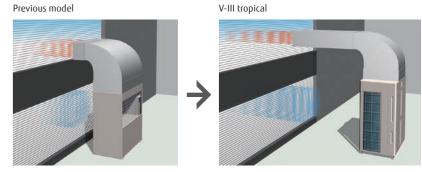
separation tube to the 90 m^{*} maximum *: The limitation on the pipe length between the farthest IU and the nearest IU originated Height difference between from the first separation tube indoor and indoor units 15 m maximum Note: J-III tropical refer to page 44.

High static pressure

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

Powerful discharge air prevents a short-circuit.





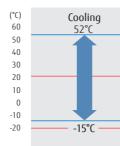
High capacity connection



High ambient operation design 🌆

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





34 **∂GENER∩L**

must be 60m or less.

farthest indoor unit

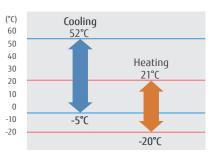
(V-III tropical)



Large diameter fan and DC motor has been utilized allowing an external static pressure of 82Pa. This is approximately 2.6 times greater than the previous model.



VRF J-III Tropical Series



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

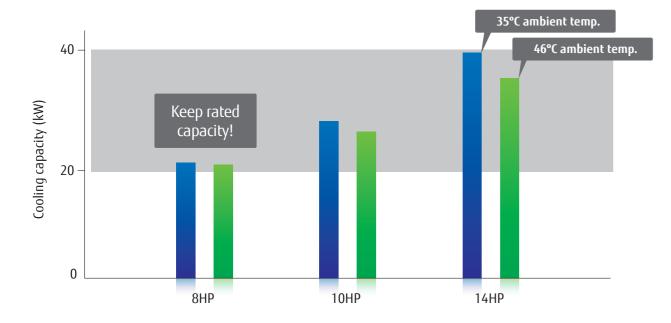
VRF CORE TECHNOLOGY



Powerful cooling capacity design



High cooling power has been realized by adopting large heat exchanger, high capacity DC inverter compressor, sub-cooler equipment, etc.



Touch Panel Wired Remote Controller

The new wired remote controller has an easy to use LCD touch panel. This new controller has a back light function and can easily control the air conditioner which provides a better energy saving operation of the air conditioner.



Precision refrigerant flow control

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

Quiet operation

Low noise mode

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

Non-stop oil recovery operation

the cooling or heating operation.

*: VRF VR-II Series is not available

A comfortable room condition is maintained during oil recovery

mode because the product continues to operate without stopping

Air

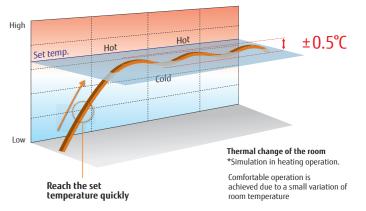
sound

Air

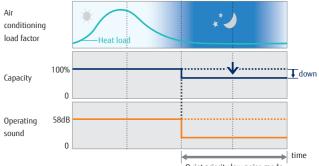
sound



OFF

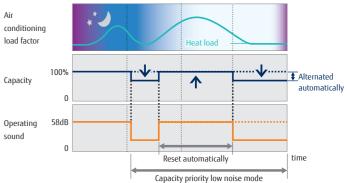


Quiet priority setting



Quiet priority low noise mode

Capacity priority setting



Previous mod V-III Series (Heating operation Operation stopped Non-stop oil at oil recovery recovery operation

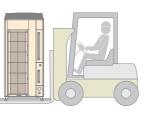


Easily transported

A lifting strap can be hooked onto an outdoor unit Design of outdoor unit allows for lifting straps to be used



Transportable by forklift The outdoor unit can be lifted and transported by forklift.



Fits into a small elevator.



Easy access

The removable L-shaped front panel provides more room for installation and service work. Multiple installations can be performed easily and efficiently even in tight spaces.



installation intervals

Flexible piping connection

Piping and wiring can be accessed from 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 and outdoor.

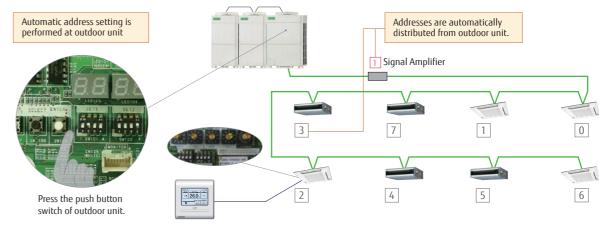
Easy evacuation - using vacuum mode function

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



Automatic address setting

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



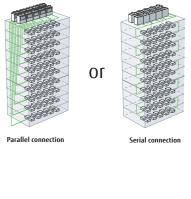
Manual address setting from indoor unit and remote controller is also possible.

Easy commissioning by Service Tool

Service Tool (UTY-ASGXZ1)

The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.

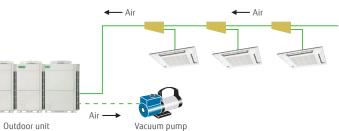


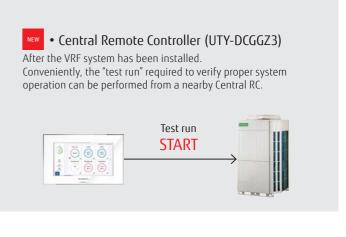


3.600 Note: The automatic address setting i

Maximum wiring length:

not available on a serially connected multiple refrigerant system.





VRF CORE TECHNOLOGY

EASY SERVICE & MAINTENANCE

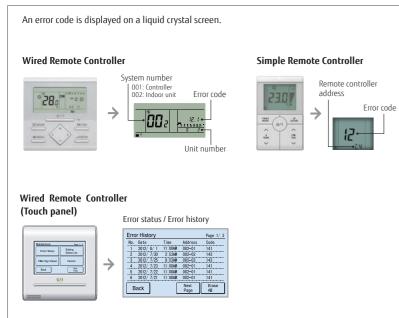


Design for Easy Maintenance

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 selfdiagnostics.



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



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



7-segment LED

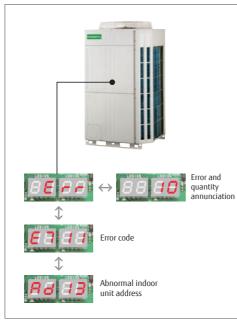
• Operation mode status • Discharge temperature/Pressure status

 Compressor operation indication • Address/type/number of outdoor unit

Movable PCB panel Easier for maintenance work behind the PCB



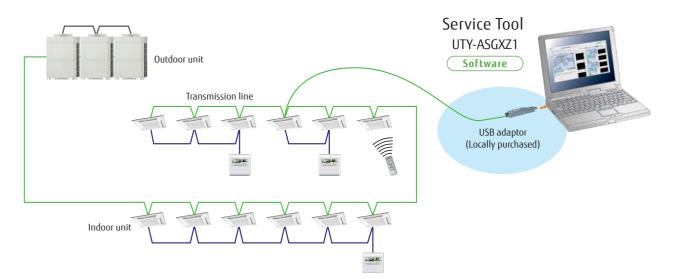
Error status can be checked easily by outdoor unit display



Error diagnosis by Service Tool

Connection to Service Tool

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



Remote monitoring

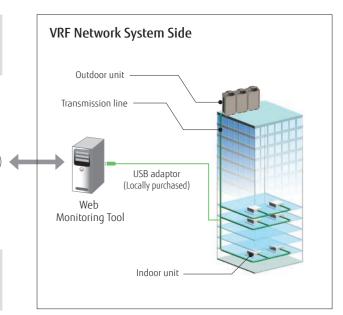
The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation. The operating VRF network system in the building can be monitored real time over the Internet.

Monitoring Side



10 Public Telephone Line





VRF OUTDOOR UNITS

VRF LINE-UP HEAT PUMP TYPE J-III TROPICAL Series HEAT PUMP TYPE V-III TROPICAL Series



The VRF (V-III tropical & J-III tropical) has a total of 45 models to meet the building Air-conditioning requirement

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

VRF LINE-UP

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

Outdoor units range

НР		4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
BTU/h		36,000	45,000	54,000	72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000	234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000	432,000	450,000	468,000	486,000
Ton		3.0	3.8	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
VRF J- Tropical Serie Heat Pump	High Efficiency (Single phase) 25	Ajh040LBTBHN	Ajh045LBTBHN	AJH054LBTBHN																								
	High Efficiency (3 phase)	Ajh040LETBHN	AjH045LETBHN	AJH054LETBHN																								
	Space saving				 Ajh072LN★★H	 Ajho9oln∗*h	AJH108LN**H	AJH126LN**H	AjH144LN**H	Ajh162LN**H	Ajh180LN**H	Ajh198LN**H	AjH216LN**H	AjH234LN**H	AjH252LN**H	Ajh270LN**H	Ajh288LN**H	Ajh306lN**H		AjH342LN**H						Ajh450lN**H	AJH468LN**H	AJH486LN**H
Heat Pump	High Efficiency								AJH144LN**HH	AJH162LN**HH	AJH180LN**HH		AjH216LN**HH	AjH234LN**HF			HAJH288LN**HH						AjH396LN**HF	AJH414LN**HH				



AJH__LN**H(H) : AJH__LNTDH(H), AJH__LNLBH(H)

ØGENEROL 45

Features

HEAT PUMP TYPE VRF J- Tropical Series



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

System Outline

High Energy Efficiency

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

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

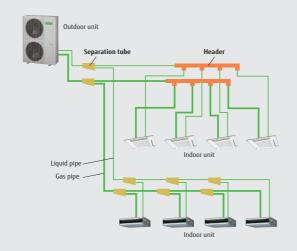
Space saving design and long piping design allow for flexible installation on the roofs or balconies of smalland medium-size buildings. Multiple indoor units of various capacities and types can be connected.

System configuration example

• This system is used for small and medium-sized buildings. 1

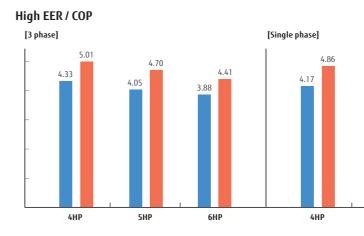
refrigerant system is used for each outdoor unit.

• Connection of multiple indoor units using separation tubes and headers.



Energy efficiency

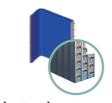
Top class high COP is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.



Advanced high efficiency technology



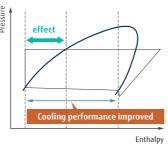
Large propeller fan High performance and low noise realized by large propeller and optimization of angle.

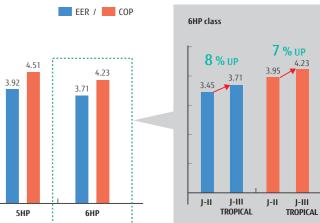


Large heat exchanger Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



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





All Inverter



INVERTER control PCB Efficiency is improved by mounting of

new active filter module.



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



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

Made in JAPAN

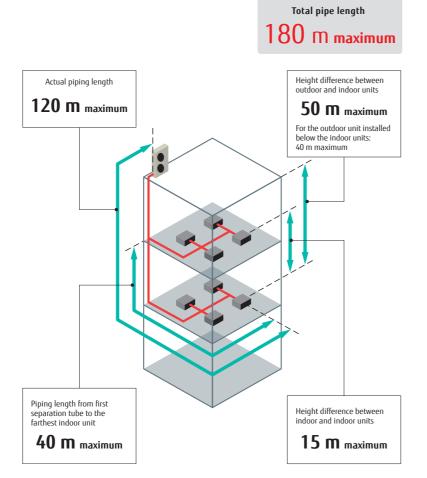


OGENEROL 47

Long piping capability

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



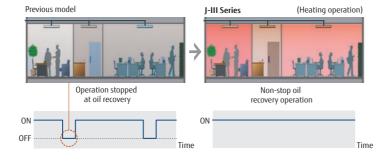


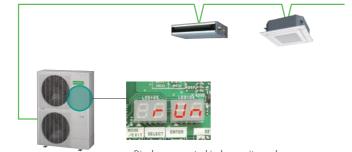
Non-stop oil recovery operation

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

Easier Installation

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





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

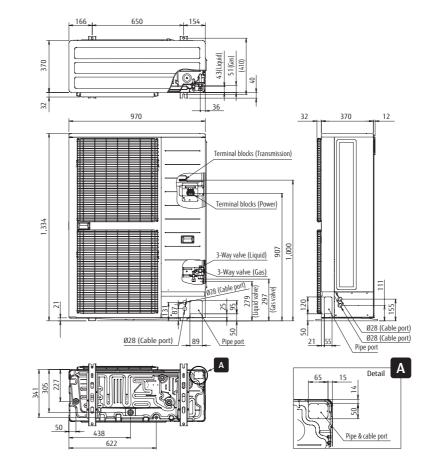
Specifications

						4		
Rating Capacity rai	nge	Btu/h	36,000	45,000	54,000	36,000	45,000	54,000
		Ton	3.0	3.8	4.5	3.0	3.8	4.5
Model name			AJH040LBTBHN	AJH045LBTBHN	AJH054LBTBHN	AJH040LETBHN	AJH045LETBHN	AJH054LETBHN
Maximum Connect	able Indoor Unit		1-7	1-8	1-9	1-7	1-8	1-9
Power source				Single phase, ~230V, 50H	Z		3 phase, ~400V, 50Hz	
	Cooling(T1/T3)	1.111	12.1/10.3	14.0/11.1	15.5/11.5	12.1/10.3	14.0/11.1	15.5/11.5
<i>c</i>	Heating	- kW	13.6	16.0	18.0	13.6	16.0	18.0
Capacity	Cooling(T1/T3)	Btu/h	41,000/35,000	47,500/37,800	52,500/39,000	41,000/35,000	47,500/37,800	52,500/39,000
	Heating		46,000	54,500	61,000	46,000	54,500	61,000
1	Cooling(T1/T3)	kW	2.90/3.47	3.57/3.77	4.18/3.92	2.79/3.30	3.46/3.57	3.99/3.71
Input power	Heating		2.80	3.55	4.26	2.71	3.40	4.08
Course	Cooling(T1/T3)		12.7/15.2	15.7/16.6	18.4/17.2	5.2/6.2	6.6/6.6	7.7/6.9
Current	Heating	- A	12.3	15.6	18.7	5.0	6.5	7.8
EER		W/W	4.17/2.97	3.92/2.95	3.71/2.94	4.33/3.13	4.05/3.11	3.88/3.10
	Cooling(T1/T3)	Btu/h/W	14.15/10.10	13.30/10.05	12.60/9.95	14.70/10.60	13.75/10.60	13.15/10.50
СОР	Heathea	W/W	4.86	4.51	4.23	5.01	4.70	4.41
COP	Heating	Btu/h/W	16.45	15.35	14.30	17.00	16.00	14.95
Air flow rate	High	m ³ /h(l/s)	6,200(1,722)	6,400(1,778)	6,900(1,916)	6,200(1,722)	6,400(1,778)	6,900(1,916)
Sound pressure	Cooling		50	51	53	50	51	53
level	Heating	dB (A)	52	53	55	52	53	55
	Height		1,334	1,334	1,334	1,334	1,334	1,334
Net Dimensions	Width	mm	970	970	970	970	970	970
	Depth	1 1	370	370	370	370	370	370
Net Weight		kg	120	120	120	120	120	120
Refrigerant		Туре	R410A	R410A	R410A	R410A	R410A	R410A
Connection pipe	Liquid		9.52	9.52	9.52	9.52	9.52	9.52
diameter	Gas	mm	15.88	15.88	19.05	15.88	15.88	19.05
Operation ranges	Cooling	°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
Operating range	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

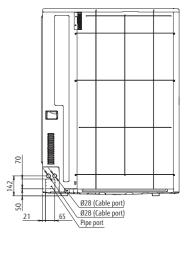
Dimensions

Models: AJH040LBTBHN / AJH045LBTBHN / AJH054LBTBHN / AJH040LETBHN / AJH045LETBHN / AJH054LETBHN



J-III Tropical Series Tropical Series

(Unit : mm)



HEAT PUMP TYPE VRF V-II Tropical Series

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

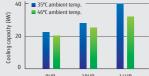
System Outline

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

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

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





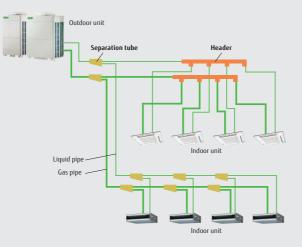




System configuration example

• This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a highcapacity system.

• Connection of multiple indoor units using separation tubes and headers.



Features

Energy efficiency Top class high COP is realized for

all combinations by our unique

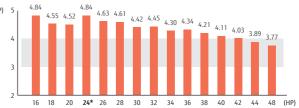
heat exchanger structure, high

efficient DC twin compressor, and other our own technologies.

Space saving combination







Energy 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.

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



11

Subcool heat exchanger

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



4-face heat exchanger

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

Front intake port (corner cut air inhaling structure)

Advanced energy saving control

Multiple outdoor operation control

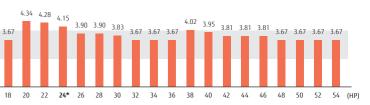
This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.

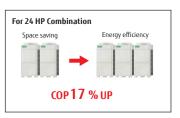


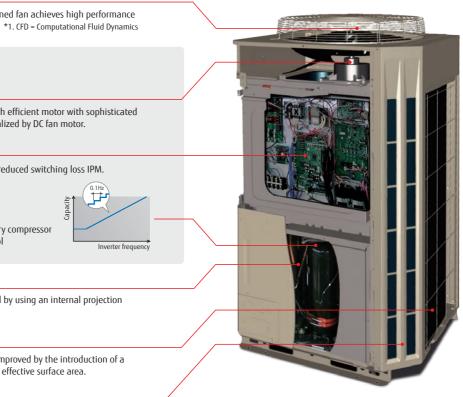


High efficient operation

Inefficient o

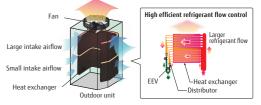






Heat exchanger refrigerant control

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

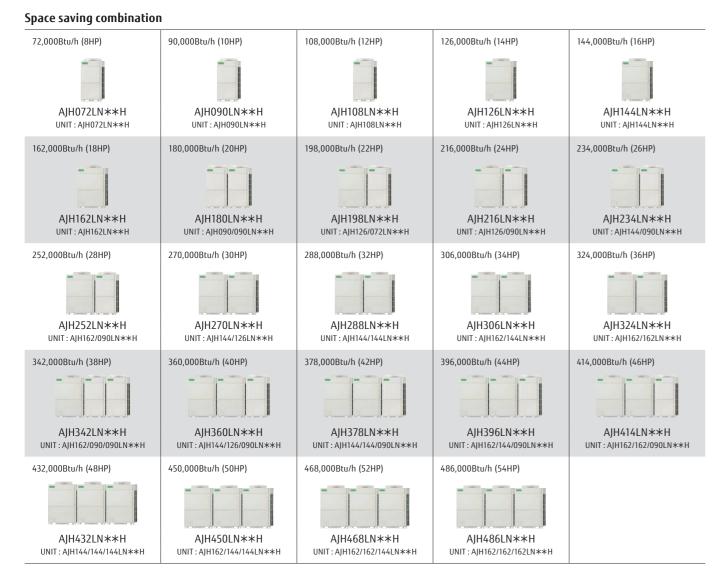


Outdoor units lineup

• Combinations other than the followings are not recommended.

8,10HP :AJH072LN**H / AJH090LN**H 12,14,16,18HP : AJH108LN**H / AJH126LN**H / AJH144LN**H / AJH162LN**H

AJH__LN**H : AJH__LNTDH, AJH__LNLBH



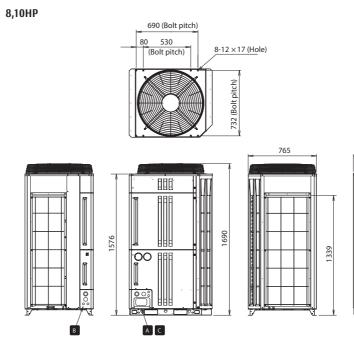
AJH__LN**H : AJH__LNTDH, AJH__LNLBH



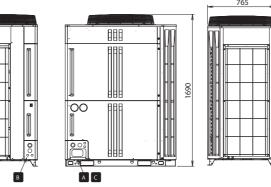
Energy efficiency combination

AJH__LN**H(H) : AJH__LNTDH(H), AJH__LNLBH(H)





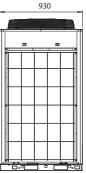
1000 (Bolt pitch) 12,14,16,18HP 80 840 (Bolt pitch) 8-12 × 7 (Hole)

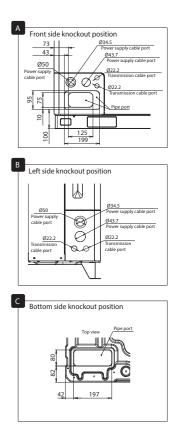






(Unit : mm)







Space Saving Combinations

		HP	8	10	12	14	16	18	20	22	24	26	28		30	32	34	36	38	40	42	44	46	48	50	52	54
Rating Capacity range		Btu/h	72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000	234,000	252,000		270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000	432,000	450,000	468,000	486,000
		Ton	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0		22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5
Model name			AJH072LN**H	AJH090LN**H	I AJH108LN**H	AJH126LN**	H AJH144LN**H	AJH162LN**H	AJH180LN**H	I AJH198LN**H	AJH216LN**H	AJH234LN**H	I AJH252LN**H		AJH270LN**H	AJH288LN**H	AJH306LN**H	AJH324LN**H	AJH342LN**H	AJH360LN**H	AJH378LN**H	AJH396LN**H	AJH414LN**H	AJH432LN**H	AJH450LN**H	AJH468LN**H	AJH486LN**H
Unit 1			AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**	H AJH144LN**H	H AJH162LN**H	AJH090LN**F	I AJH126LN★★H	AJH126LN**F	AJH144LN**F	H AJH162LN**H		AJH144LN**H	AJH144LN**H	AJH162LN**H	AJH162LN**H	AJH162LN**H	AJH144LN**H	AJH144LN**H	AJH162LN**H	AJH162LN**H	AJH144LN**H	AJH162LN**H	AJH162LN**H	AJH162LN**H
Unit 2									AJH090LN**F	I AJH072LN**H	AJH090LN**I	I AJH090LN**I	H AJH090LN**H		AJH126LN**H	AJH144LN**H	AJH144LN**H	AJH162LN**H	AJH090LN**H	AJH126LN**H	AJH144LN**H	AJH144LN**H	AJH162LN**H	AJH144LN**H	AJH144LN**H	AJH162LN**H	AJH162LN**H
Unit 3																			AJH090LN**H	AJH090LN**H	AJH090LN**H	AJH090LN**H	AJH090LN**H	AJH144LN**H	AJH144LN**H	AJH144LN**H	AJH162LN**H
Maximum Connectable In	ndoor Unit		13	16	19	23	26	29	33	36	40	43	46		50	53	55	55	55	55	55	55	55	55	55	55	55
Indoor unit connectable cap	acity Cooling	kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4		42.5-110.5	45-117	47.5-123.5	50-130	53-137.8	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195
Power source		1		1	1	1	3 ph	ase 4 wire, 400 \	/, 50Hz	1	1									3 ph	ase 4 wire, 400 V,	50Hz					1
	Cooling		22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	1	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
	Heating	kW	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
Capacity	Cooling	D: 1	76400	95500	114300	136500	153500	170600	191000	212900	232000	249000	266100		290000	307000	324100	341200	361600	385500	402500	419600	436700	460500	477600	494700	511800
	Heating	Btu/h	85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100		324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
	Cooling		5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84		23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
T1 Input pov	Heating	kW	5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88		24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
condition	Cooling		9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
Current	Heating	A	9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
EER	Cooling		4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27		3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
COP	Heating	W/W	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90		3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
EER	Cooling	Btu/h/W	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2		12.1	11.8	11.0	10.3	11.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
COP	Heating	DLU/II/W	16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3		13.1	12.5	12.5	12.5	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
Capacity		kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4		67.1	70.2	70.3	70.4	85.6	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
Capacity		Btu/h	68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100		229000	239600	239900	240200	292100	315000	325600	325900	326200	359400	359700	360000	360300
T3 Input pov	ver Coolina	kW	6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.55		22.52	23.64	24.17	24.70	30.75	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
condition Current	cooning	A	10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
FER		W/W	3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.80		2.98	2.97	2.91	2.85	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85
EEK		Btu/h/W	10.23	9.35	10.40	10.20	10.14	9.72	9.35	10.21	9.81	9.79	9.56		10.17	10.14	9.93	9.72	9.50	9.93	9.92	9.77	9.62	10.14	10.00	9.86	9.72
Power factor		%	90	92	92	92	92	93	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate	High	m ³ /h	11100	11100	13000	13000	13700	13700	11100×2	13000+11100	13000+11100	13700+11100	13700+11100		13700+13000	13700×2	13700×2	13700×2	13700+11100×2	13700+13000+11100	13700×2+11100	13700×2+11100	13700×2+11100	13700×3	13700×3	13700×3	13700×3
Sound pressure level	Cooling	dB (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
	Heating	00 (/ 1)	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
Compressor motor output	t	kW	7.5	7.5	11	11	11	11	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5		11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin		Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin				
	Height		1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690		1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
Dimensions	Width	mm	930	930	1240	1240	1240	1240	930×2	1240+930	1240+930	1240+930	1240+930		1240×2	1240×2	1240×2	1240×2	1240+930×2	1240×2+930	1240×2+930	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3
	Depth		765	765	765	765	765	765	765	765	765	765	765		765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	255	255	279	279	279	279	255×2	279+255	279+255	279+255	279+255		279×2	279×2	279×2	279×2	279+255×2	279×2+255	279×2+255	279×2+255	279×2+255	279×3	279×3	279×3	279×3
Refrigerant	Тур	pe .	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	11.7	11.7	11.8	11.8	11.8	11.8	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	11.8+11.7		11.8×2	11.8×2	11.8×2	11.8×2	11.8+11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diamete	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92		34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling	°CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52		-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52				
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21				

Energy Efficiency Combination

			HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
Rating Capaci	ity range		Btu/h	144,000	162,000	180,000	216,000	234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000
			Ton	12.0	13.5	15.0	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5
Model name				AJH144LN**HH	AJH162LN**HH	AJH180LN**HH	AJH216LN**HH	AJH234LN**HH	AJH252LN**HH	AJH270LN**HH	AJH288LN**HH	AJH306LN**HH	AJH324LN**HH	AJH342LN**HH	AJH360LN**HH	AJH378LN**HH	AJH396LN**HH	AJH414LN**HH
Unit 1				AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**H	AJH108LN**H	AIH126LN**H	AJH108LN**H	AJH126LN**H	AJH126LN**H	AJH126LN**H	AJH144LN**H	AJH144LN**H
Unit 2				AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH108LN**H	AJH108LN**H	AJH108LN**H	AJH108LN**H	AJH126LN**H	AJH126LN**H	AJH126LN**H	AJH144LN**H
Unit 3							AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH072LN**H	AJH108LN**H	AJH108LN**H	AJH108LN**H	AJH126LN**H	AJH126LN**H	AJH144LN**H
Maximum Co	nnectable Indoo	or Unit		26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit con	nnectable capacity	y Cooling	kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2	48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169
Power source	1						3 phase 6 wir	e. 400 V. 50Hz						3	phase 4 wire, 400 V. 50)H ₇		
i ower source		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
		Heating	kW	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
	Capacity	Cooling		152800	171900	190700	229200	248300	267100	289300	305000	327200	342900	365100	387300	409500	426500	443500
		Heating	Btu/h	170600	192800	213300	255900	278100	298600	324100	341300	366800	384000	409500	435000	460500	477600	494700
	Input power	Cooling		10.40	12.48	14,16	15.60	17.68	19.36	21.36	23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
T1	Input power	Heating	kW	10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
condition		Cooling		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Current	Heating	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling		4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
	COP	Heating	W/W	4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
	EER	Cooling	Btu/h/W	14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
	COP	Heating	Btu/n/W	16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
	Canadibu		kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	80.7	85.5	89.0	92.5	96.0	99.1	102.2
	Capacity		Btu/h kW	137800	154900	166100	206700	223800	235000	247000	263300	275300	291600	303600	315600	327600	338200	348800
T3	Input power	wer Cooling	kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17	25.42	26.78	28.03	29.39	30.75	32.11	33.22	34.34
condition	Current	cooning	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER		W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	3.01	3.05	3.03	3.01	2.99	2.98	2.98
	LEK		Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	10.28	10.40	10.33	10.26	10.20	10.18	10.16
Power factor			%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate		High	m ³ /h	11100×2	11100×2	13000+11100	11100×3	11100×3	13000+11100×2	13000+11100×2	13000×2+11100	13000×2+11100	13000×3	13000×3	13000×3	13000×3	13700+13000×2	13700×2+13000
Sound pressu	ire level	Cooling	dB (A)	59	60	60	61	62	61	63	61	62	63	63	64	65	66	66
		Heating		61	62	62	63	63	64	65	64	65	65	66	66	67	68	68
	ternal static pres	ssure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor n			kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchang	ger 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	_	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
Dimensions		Width	mm	1240×2	1240×2	1240+930	930×3	930×3	1240+930×2	1240+930×2	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3	1240×3	1240×3
		Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		-	kg	279×2	279×2	279+255	255×3	255×3	279+255×2	279+255×2	279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3 R410A	279×3
Refrigerant		- /	/pe	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A		R410A
-		Charge	kg	11.7×2	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
Connection pi	ipe diameter	Liquid	mm	12.70	15.88	15.88 28.58	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05 41.27	19.05 41.27	19.05	19.05 41.27	19.05
	-	Discharge Gas	>	28.58	28.58	28.58 -5 to 52	34.92 -5 to 52	34.92	34.92	34.92	34.92	34.92	-		41.27 -5 to 52			
Operating ran	nge		*CDB	-5 to 52 -20 to 21	-5 to 52	-5 to 52 -20 to 21	-5 to 52	-5 to 52 -20 to 21	-5 to 52 -20 to 21	-5 to 52 -20 to 21	-5 to 52 -20 to 21							
	-	Cooling Heating		-2U [0 2 I	-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

VRF V-III Tropical Series **Equal**

Note: Specifications are based on the following conditions. Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB

Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

AJH__LN**H(H) : AJH__LNTDH(H), AJH__LNLBH(H)

ØGENERAL 55



VRF INDOOR UNITS

INDOOR UNITS LINE-UP Compact Cassette 4-way Flow Cassette Circular Flow Cassette Mini Duct Slim Duct / Slim Concealed Floor Medium Static Pressure Duct High Static Pressure Duct Large Airflow Duct Floor / Ceiling Ceiling Wall Mounted (EEV Internal / external)



13 Type and 111 models available to meet the requirements of any building design.

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

INDOOR UNITS LINE-UP

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs. 14 types, 105 models, Capacity range from 7,000 Btu/h to 96,000 Btu/h

Indoor units range

		Btu/h	7,000	9,000	12,000	14,000	18,000	24,000	30,000	34,000	36,000	45,000	
Capacity range		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	
	Compact Cassette		AUXB07GALH	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH					
		(Slim type)		AUXDU9GAIH	AUXD12GATH	AUXD14GATH	AUXDIGGAIH	AUXD24GALH					
Cassette	4-way Flow	(Large type)					AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	
		(Slim type)					AUXM018GTAH	AUXM024GTAH					Γ
	Circular Flow	(Large type)					AUXK018GTAH	AUXK024GTAH	AUXKO30GTAH	AUXK034GTAH	AUXK036GTAH	AUXK045GTAH	
	Mini Duct (With drain pump)		ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH					
	Mini Duct (Without drain pump)		ARXK07GALH	ARXK09GALH	ARXK12GALH	ARXK14GALH	ARXK18GALH	ARXK24GALH					
	Slim Duct (With drain pump)		ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH					
Duct	Medium Static Pressure Duct							ARXA24GBLH	ARXA30GBLH		ARXA36GBLH	ARXA45GBLH ARXA45GBTH	ſ
								ARXA24GBTH	ARXA30GBTH		ARXA36GBTH	ARXA45GBTH	
	High Static Pressure Duct										ARXC36GBTH	ARXC45GATH	
	Large Airflow Duct						ARXN18GATH*2	ARXN24GATH*2	ARXN30GATH*2	ARXN34GATH*2	ARXN36GATH*2	ARXN45GATH*2	
	Floor (Same as Ceiling models)				ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH					
Floor	Slim Concealed Floor (Same as Slim Duct models)		ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH					
Ceiling	Ceiling				ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH	ABHA30GATH		ABHA36GATH	ABHA45GATH	
Wall Mounted	Wall Mounted		ASHA07GACH ASHA07GATH	ASHA09GACH ASHA09GATH	ASHA12GACH ASHA12GATH	ASHA14GACH ASHA14GATH	ASHA18GACH ASHA18GATH	ASHA24GACH ASHA24GATH	ASHA30GACH ASHA30GATH				
wan mounteo	Wall Mounted (EEV external)		ASHEO7GACH	ASHEO9GACH	ASHE12GACH	ASHA14GATH ASHE14GACH	With this model, connection of EV kit is necessary.	roinziolii					-

*1:ARXC60/72/90/96 cannot be connected to J-III tropical Series. *2:Large Airflow Duct can be connected to V-III tropical Series only.

54,000	60,000	72,000	90,000	96,000
14.0	18.0	22.4	25.0	28.0
AUXA54GALH				
AUXK054GTAH				
		ARXC72GBTH*1	ARXC90GBTH*1	ARXC96GATH*1
	-			
	ARXC60GATH*1	ARXC72GATH*1	ARXC90GATH*1	
ABHA54GATH				





DC FAN

2-stage turbo fan

High efficiency design by 2 stage structure

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



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

Improvement of the airflow distribution



1. Maintenance of fan motor and fan

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

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

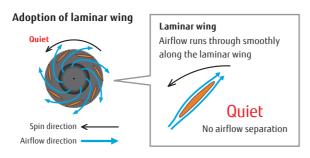
2. Air filter : standard equipment

3. Adaptation of transparent drainage parts

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

Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each) Designed by CFD-analysis (fluid) simulations



High ceiling mode

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

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

Compact design

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



Model: AUXB07GALH / AUXB09GALH / AUXB12GALH AUXB14GALH / AUXB18GALH / AUXB24GALH AUXB09GATH / AUXB12GATH / AUXB14GATH AUXB18GATH / AUXB24GATH

Specifications AUXB07GALH AUXB09GALH Power source 2.2 2.8 Cooling Capacity kW 2.8 3.2 Heating Input power 25 25 W 540 (150) 550 (153) High m3/h 450 (125) 450 (125) Airflow rate Med (1/s)Low 350 (97) 350 (97) High 34 35 Sound pressure level dB Med 30 30 (A) Low 25 25 Dimensions (H × W × D) mm 245 × 570 × 570 245 × 570 × 570 245 15 (33) Weight kg(lbs) 15 (33) Liquid (Flare) 6.35 6.35 Connection pipe diameter 12.70 12.70 Gas (Flare) mm Drain hose diameter (I.D./O.D.) Model name Cassette Grille Dimensions (H×W×D) mm Weight kg(lbs)

Note : Specifications are based on the following conditions.

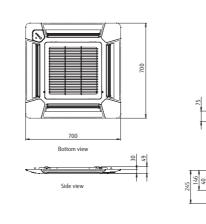
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

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

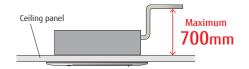
Dimensions (Unit: mm)

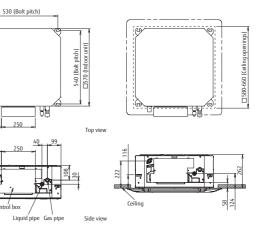


250



UXB12GALH UXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH
Single phase, 2	20-240V, 50Hz		
3.6	4.5	5.6	7.1
4.1	5.0	6.3	8.0
29	35	36	84
600 (167)	680 (189)	710 (197)	1,030 (286)
530 (147)	590 (164)	580 (161)	830 (231)
390 (108)	390 (108)	400 (111)	450 (125)
37	38	41	50
34	34	35	44
27	27	27	30
5 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
15 (33)	15 (33)	17 (37)	17 (37)
6.35	6.35	9.52	9.52
12.70	12.70	15.88	15.88
25	/ 32		
UTG-U	FGC-W		
50 × 70	0 × 700		
2.6	(6)		



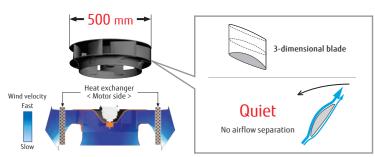


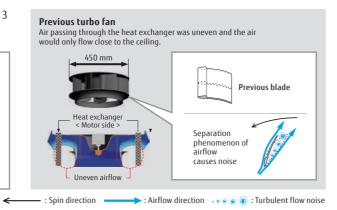


DC FAN

High efficiency turbo fan with 3-dimensional blade

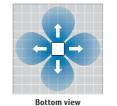
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



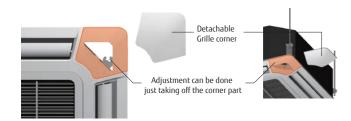


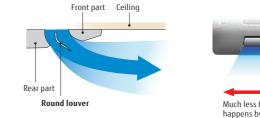
Improvement of the airflow distribution

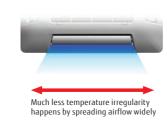
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



Adjustment of hanger position is possible after installation







High ceiling mode

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

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		

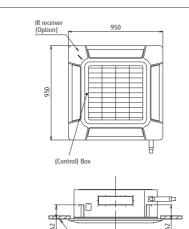
Model name			AUXD18GALH	AUXD24GALH				
Power source			Single phase, 220	Single phase, 220-240V, 50Hz				
	Cooling	1.1.1	5.6	7.1				
Capacity	Heating	kW	6.3	8.0				
nput power		W	39	46				
	High		1,150 (319)	1,280 (356)				
Airflow rate	Med	m ³ /h (I/s)	940 (261)	1,040 (289)				
	Low	(1/5)	870 (242)	870 (242)				
	High		36	38				
Sound pressure evel	Med	dB (A)	30	33				
CVCI	Low	(~)	29	29				
Dimensions (H >	« W × D)	mm	246 × 840 × 840	246 × 840 × 840				
Neight		kg(lbs)	22 (48)	22 (48)				
Connection	Liquid (Flare)		9.52	9.52				
pipe diameter	Gas (Flare)	mm	15.88	15.88				
Drain hose diam	eter (I.D./O.D.)		25/32	2				
	Model na	ne	UTG-UGGA-W					
Cassette Grille	Dimensions (H×W×D)	mm	50 × 950 ×	× 950				
	Weight	kg(lbs)	5.5 (12	2)				

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].

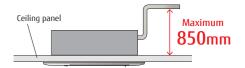
Optional parts

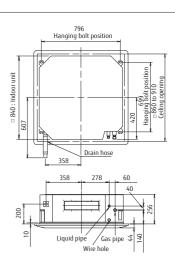
	UTY-LRHGB1 UTR-YDZK
Panel Spacer :	UTG-BKXA-W
Insulation Kit for High Humidity :	UTZ-KXRA
UTG-AKXA-W	UTG-AKXA-W

Dimensions (Unit: mm)







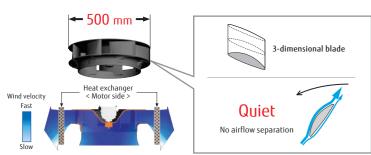




DC FAN

High efficiency turbo fan with 3-dimensional blade

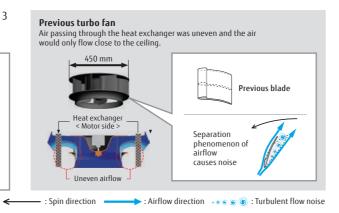
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



Detachable

Grille corner

Adjustment can be done just taking off the corner part

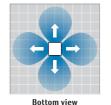


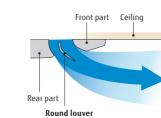
Improvement of the airflow distribution

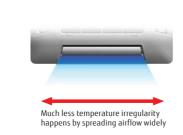
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.

Adjustment of hanger position is

possible after installation







High ceiling mode

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

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

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

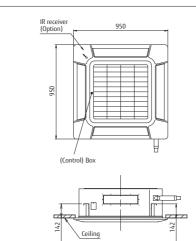
Model name			AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH	
Power source					Sin	gle phase, 220-240V, 5	0Hz	'		
Specificatio Model name Power source Capacity Input power Airflow rate Sound pressure level Dimensions (H 2	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0	
Capacity	Heating	KVV	6.3	8.0	10.0	11.2	12.5	14.0	16.0	
Input power		W	51	51	59	77	80	99	119	
	High		1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)	2,000 (556)	
Airflow rate	Med	m ³ /h (I/s)	1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)	1,370 (381)	
	Low	(1/3)	1,100/1,000*1 (306/278)	1,100/1,000*1 (306/278)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)	
	High		40	40	40	43	44	46	47	
	Med	dB (A)	36	36	38	38	38	39	39	
	Low	0.0	33/31* ¹	33/31* ¹	33	33	33	12.5 14.0 99 1,900 (528) 1,370 (381) 1,100 (306) 46	33	
Dimensions (H >	«W×D)	mm	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	
Weight		kg(lbs)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52	9.52	9.52	9.52	
pipe diameter	Gas (Flare)	mm	15.88	15.88	15.88	15.88	19.05	19.05	19.05	
Drain hose diam	eter (I.D./O.D.)					25/32				
	Model na	me	UTG-UGGA-W							
Cassette Grille	Dimensions (H×W×D)	mm				50 × 950 × 950		12.5 14.0 99 1,900 (528) 2, 1,370 (381) 1, 1,100 (306) 1, 46 39 33 288 × 840 × 840 288 27 (59) 9.52		
	Weight	kg(lbs)				5.5 (12)				

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

Optional parts

IR Receiver Unit :	UTY-LRHGB1
Air Outlet Shutter Plate :	UTR-YDZK
Panel Spacer :	UTG-BKXA-W
Insulation Kit for High Humidity :	UTZ-KXRA
UTG-AKXA-W	UTG-AKXA-W
	0.0.000

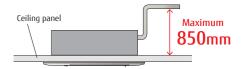
Dimensions (Unit: mm)

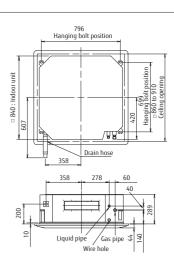


64 **OGENERAL**



*1: This value is under cooling operation.



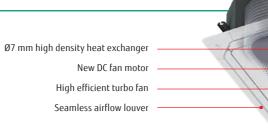






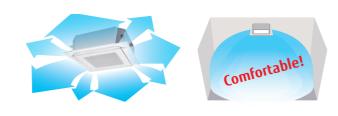
Unique Circular Flow design

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



Uniform temperature air conditioning

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



Individual louver control

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

Occupancy 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-RNRGZ5) and Central Remote Controller(UTY-DCGGZ2) only

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ2) only

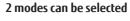


Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

Human sensor (Optional)



room layout



Power is saved while

Auto saving people are away.

Operation stops after Auto OFF people go out.

Model: (Slim type) AUXM018GTAH / AUXM024GTAH

(Large type) AUXK018GTAH / AUXK024GTAH / AUXK030GTAH AUXK034GTAH / AUXK036GTAH / AUXK045GTAH AUXK054GTAH



Specifications

Model name			AUXM018 GTAH	AUXM024 GTAH	AUXK018 GTAH	AUXK024 GTAH	AUXK030 GTAH	AUXK034 GTAH	AUXK036 GTAH	AUXK045 GTAH	AUXK054 GTAH
Power source						Single	phase, 220-240V	, 50Hz			
Constitut	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0
Capacity	Heating	KW	6.3	8.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	20	25	40	40	47	47	61	89	116
	High		1,050	1,120	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-High		930	1,050	1,360	1,360	1,440	1,440	1,500	1,590	1,800
A :- (]	Med	m3/h	900	930	1,300	1,300	1,340	1,340	1,400	1,500	1,590
Airflow rate	Med-Low	m3/n	870	900	1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		810	870	1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet	1	780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150
	High	dB	33	35	38	38	39	39	41	44	47
	Med-High		32	33	37	37	38	38	40	42	45
Sound pressure	Med		31	32	36	36	37	37	38	40	42
Sound pressure	Med-Low	(A)	30	31	35	35	36	36	37	38	39
	Low		29	30	34	34	35	35	36	36	36
	Quiet		28	28	33	33	33	33	33	33	33
Dimensions (H ×	W × D)	mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×84
Weight		kg	24.0	24.5	26.5	26.5	29.5	29.5	29.5	29.5	29.5
Connection	Liquid (Flare)		6.35	9.52	6.35	9.52	9.52	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88	12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diam	eter (I.D./O.D.)						25/32				
	Model na	me				UTG-	UKGD-W/UTG-UK	GA-B			
Cassette Grille	Dimensions (H×W×D)	mm					53×950×950				
	Weight	kg					6.0				

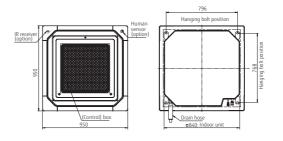
Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor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

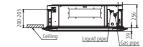
Optional parts

Human Sensor Kit:	UTY-SHZXC	Cassette Grille:	UTG-UKGD-W	Air Outlet Shut
Wide Panel:	UTG-AKXA-W		UTG-UKGA-B	Insulation Kit f
Panel Spacer:	UTG-BKXA-W	IR Receiver Unit:	UTY-LBHXD	

Dimensions (Unit: mm)

Models: AUXM018 / AUXM024



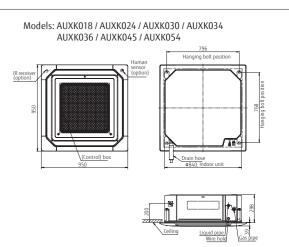


selected.

Large type AUXK018/024/030/034/03/045/054GTAH

When AUX*018GTAH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas) When AUXK036GTAH is connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.

utter Plate: UTR-YDZK for High Humidity: UTZ-KXRA



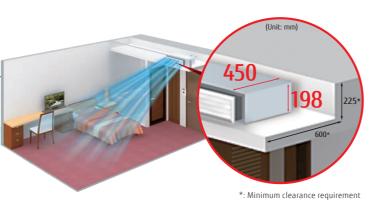
Mini Duct





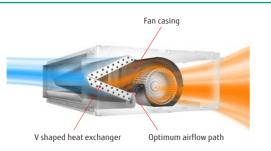
Optimum design in harmony with interior decoration

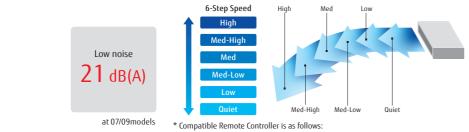
Thin and short-depth body makes the clipped ceiling design



Advanced performance by new shaped heat exchanger and airflow

Air blower is improved so that velocity distribution is optimum in accordance with the heat exchanger shape. Wide range and uniform airflow can be received due to heat exchanger.





UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ2 / UTY-ALGXZ1 / UTY-APGXZ1

Easy drain design even at narrow ceiling

Models with drain pump: Drainage to the distant drain port is possible.

Models without drain pump: Both sides drainage is possible.

6-speed control*

Multistep airflow speed control allows

this model to install in a quiet location.

Models with drain pump or models with drain oump, drain design is easy even at narrow eilina.

Models without drain pump



Model: (With drain pump) ARXK07GCLH / ARXK09GCLH ARXK12GCLH / ARXK14GCLH ARXK18GCLH / ARXK24GCLH



(Without drain pump) ARXK07GALH / ARXK09GALH ARXK12GALH / ARXK14GALH ARXK18GALH / ARXK24GALH

ARXK07/09/12/14GCLH



ARXK07/09/12/14GALH

Specifications

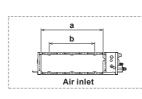
Model name			ARXK07GCLH ARXK07GALH	ARXK09GCLH ARXK09GALH	ARXK12GCLH ARXK12GALH	ARXK14GCLH ARXK14GALH	ARXK18GCLH ARXK18GALH	ARXK24GCLH ARXK24GALH
Power source			Single phase, 220-240V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	Heating	KVV	2.8	3.2	4.0	5.0	6.3	8.0
Input power	GCLH / GALH	W	28/21	28 / 21	35 / 28	66 / 59	73 / 66	80 / 73
	High		460 (128)	460 (128)	550 (153)	760 (211)	930 (258)	1,160 (322)
	Med-High] [440 (122)	440 (122)	520 (144)	660 (183)	840 (233)	1,060 (294)
Airflow rate	Med	m ³ /h	420 (117)	420 (117)	480 (133)	560 (156)	740 (206)	960 (267)
AIIIIOWIale	Med-Low	(I/s)	400 (111)	400 (111)	450 (125)	490 (136)	640 (178)	860 (239)
	Low		370 (103)	370 (103)	410 (114)	410 (114)	540 (150)	750 (208)
	Quiet		340 (94)	340 (94)	340 (94)	340 (94)	470 (131)	610 (169)
Static pressure range		Ра	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static	oressure	Pd	10	10	10	15	15	15
	High		26	26	29	34	33	32
	Med-High		25	25	27	31	30	30
Sound pressure	Med	dB	24	24	26	28	28	28
level	Med-Low (A) Low	(A)	23	23	25	26	26	27
			22	22	24	24	24	25
	Quiet	1	21	21	22	22	22	22
Dimensions (H >	W × D)	mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 45
Weight	GCLH / GALH	kg(lbs)	15.5 (34) / 15 (33)	15.5 (34) / 15 (33)	16 (35) / 15.5 (34)	16 (35) / 15.5 (34)	19 (42) / 18.5 (41)	22.5 (50) / 22 (49
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)				25/32				

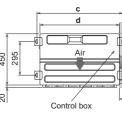
Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

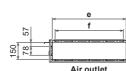
Auto louvre grille kit: UTD-GXTA-W (for ARXK07 - 14) UTD-GXTB-W (for ARXK18) UTD-GXTC-W (for ARXK24) Remote Sensor Unit : UTY-XSZX IR Receiver Unit : IUTB-YWC

Dimensions (Unit: mm)













ARXK24GCLH



ARXK18GALH

ARXK18GCLH



ARXK24GALH

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)





	ARXK07-14	ARXK18	ARXK24
а	575	775	975
b	P200×2=400	P200×3=600	P200×4=800
С	752	952	1,152
d	700	900	1,100
е	650	850	1,050
f	P100×6=600	P100×8=800	P100×10=1,000
			1

*The design of the service access depends on the installation method. Refer to the installation manual for more information.



Drain po	ort Gas pip	e
	<u> </u>	_
i i i i i i i i i i i i i i i i i i i		Ω Ω
4	Щ <u></u>	<u> </u>
Liquid pipe	Drain po	rt

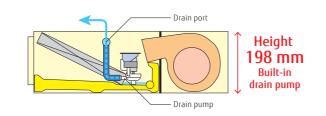
Slim Duct/ Slim Concealed Floor (With drain pump)

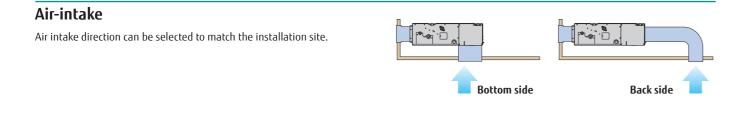


DC FAN

Slim design

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







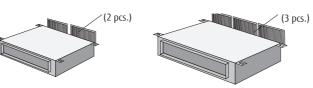
Selectable with a wide range of static pressure

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





ARXD07 / 09 / 12 / 14 / 18



ARXD24

Model: ARXD07GALH / ARXD09GALH ARXD12GALH / ARXD14GALH ARXD18GALH / ARXD24GALH ARXD07GATH / ARXD09GATH ARXD12GATH / ARXD14GATH ARXD18GATH / ARXD24GATH



ARXD07/09/12/14

Specifications

Model name			ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH
Power source			Single phase, 220-240V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	44	50	54	92	83	122
	High		550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)
Airflow rate	Med	m3/h (I/s)	490 (136)	550 (153)	510 (142)	710 (197)	840 (233)	1,240 (344)
	Low	1 (113)	440 (122)	480 (133)	450 (125)	610 (169)	750 (208)	1,100 (306)
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25
	High		28	29	30	34	34	35
Sound pressure level	Med	dB (A)	25	26	27	32	32	32
	Low		22	24	24	28	28	29
Dimensions (H 3	< W × D)	mm	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)	18 (40)	18 (40)	22 (48)	26 (57)
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)		1 1	25/32					

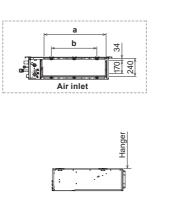
Note : Specifications are based on the following conditions.

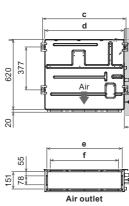
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

Auto louvre grille kit: UTD-GXTA-W (for ARXD07 - 04) UTD-GXTB-W (for ARXD18) UTD-GXTE-W (for ARXD24) Remote Sensor Unit : UTY-XSZX IR Receiver Unit : UTB-YWC

Dimensions (Unit: mm)





*24 model is 0 to 50 Pa

70 OGENERAL

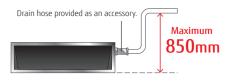


ARX18



ARXD24

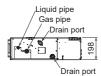
Slim Concealed Floor





	ARXD07-14	ARXD18	ARXD24					
а	574	774	974					
b	P200×2=400	P200×3=600	P200x4=800					
С	734	934	1,134					
d	700	900	1,100					
е	650	850	1,050					
f	P100×6=600	P100×8=800	P100×10=1,000					

*The design of the service access depends on the installation method. Refer to the installation manual for more information.



OGENERAL 71

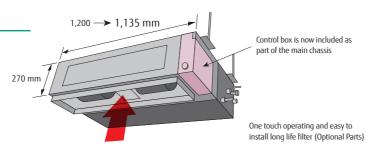
Medium Static Pressure Duct



DC FAN

Slim & Compact design

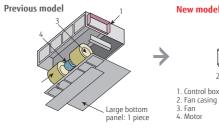
The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.



om panel:

Easy maintenance

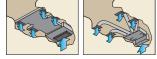
See below for the case of rear suction type



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

Easy setting by using remote controller

The change of static pressure range is possible by remote controller

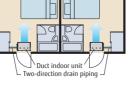


Selectable with a wide range of static pressure

Two-direction

drain piping

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



range

Static pressure 0 to 150 Pa

Model: ARXA24GBLH / ARXA30GBLH ARXA36GBLH / ARXA45GBLH ARXA24GBTH / ARXA30GBTH ARXA36GBTH / ARXA45GBTH

Specifications

Model name			ARXA24GBLH ARXA24GBTH	ARXA30GBLH ARXA30GBTH						
Power source			Single phase, 220-240V, 50Hz							
Capacity	Cooling	kW	7.1	9.0	11.2	12.5				
Capacity	Heating	KWV -	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	oressure	Pa	40 50		50	60				
	High		31	34	37	41				
Sound pressure level	Med	dB (A)	27	32	35	38				
	Low	0.0	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.)	ľ	25/32							

Note : Specifications are based on the following conditions.

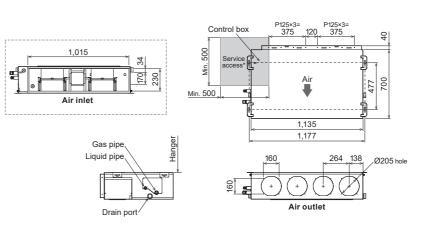
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

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

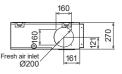
Flange (Round): UTD-RF204 IR Receiver Unit : UTB-YWC Drain Pump Unit : UTZ-PX1NBA

Dimensions (Unit: mm)





*The design of the service access depends on the installation method. Refer to the installation manual for more information.





Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200 Pa (ARXC36) / 300 Pa (ARXC72 / 90 / 96).

Maximum 200 Pa



Maximum



Maximum

(ARXC72 / 90 type)



(Unit: mm)

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.



(ARXC36 type)

(ARXC36 type)







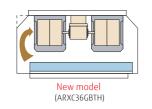
(ARXC72 / 90 type)

1,587 700 (ARXC96 type)

Low noise

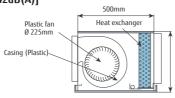
Models : ARXC36

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.



ARXC36GBTH : Plastic fan [42dB(A)]

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





(ARXC72 / 90 / 96 type)

Model: ARXC36GBTH ARXC72GBTH / ARXC90GBTH ARXC96GATH





ARXC36GBTH

Model name			ARXC36GBTH	ARXC72GBTH	ARXC90GBTH	ARXC96GATH				
ower source				Single phase, 2	220-240V, 50Hz					
	Cooling	kW	11.2	22.4	25.0	28.0				
Capacity	Heating	KW	12.5	25.0	28.0	31.5				
Input power		W	207	681	819	838				
	High		1,990 (553)	3,900 (1,083)	4,300 (1,195)	4,850 (1,347)				
Airflow rate	Med	m ³ /h (I/s)	1,680 (467)	3,300 (917)	4,000 (1,111)	4,250 (1,181)				
	Low	(113)	1,330 (369)	3,000 (833)	3,500 (972)	3,600 (1,000)				
Static pressure range		Pa	0 to 200	0 to 300	0 to 300	0 to 300				
Standard static p	oressure		100	150	150	150				
	High		42	47	48	48				
ound pressure evel	Med	dB (A)	36	43	46	45				
ever	Low		32	40	44	42				
Dimensions (H ×	W × D)	mm	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700				
Weight		kg(lbs)	40 (88)	84(185)	84(185)	105(231)				
Connection	Liquid		9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)				
pipe diameter	Gas	mm	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)				
Drain hose diam	eter (I.D./O.D.)		·	25/32						

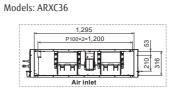
Note : Specifications are based on the following conditions.

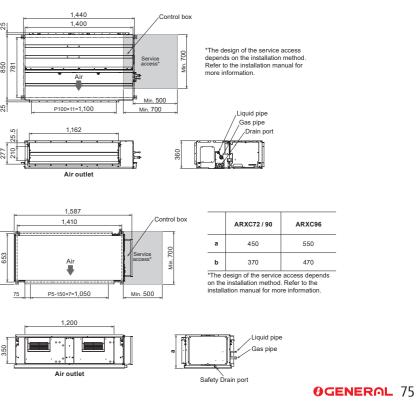
Cooling: Indoor temperature of 27*CDB / 19*CWB, and outdoor temperature of 35*CDB / 24*CWB. Heating : Indoor temperature of 20*CDB / (15*CWB), and outdoor temperature of 7*CDB / 6*CWB. Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

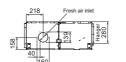
Optional parts

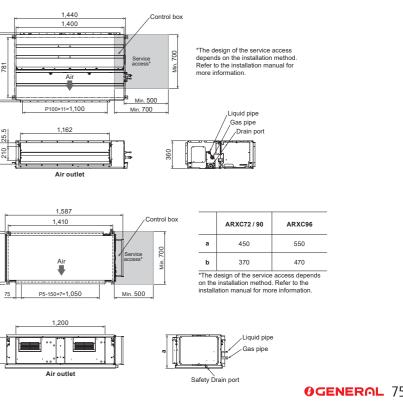
Long-Life Filter : UTD-LF60KA (For ARXC36) Remote Sensor Unit : UTY-XSZX IR Receiver Unit : UTB-YWC

Dimensions (Unit: mm)

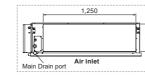


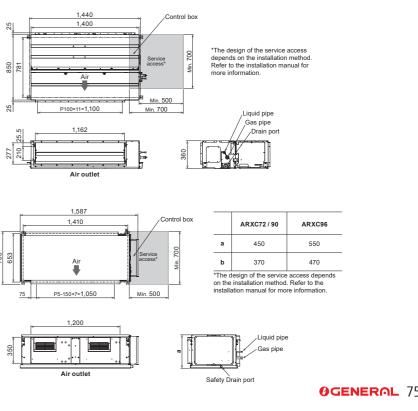




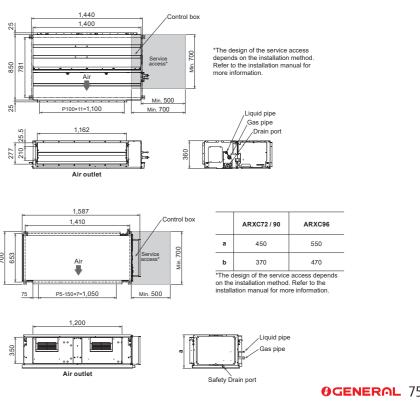


Models: ARXC72 / ARXC90 / ARXC96









Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.







ARXC72/90GBTH

ARXC96GATH

High Static Pressure Duct

AC FAN

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.



Static pressure selection

Models : ARXC72 / ARXC90

Low noise

Models : ARXC45 / ARXC60

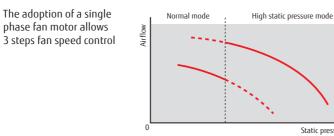
by adopting a plastic case and a plastic fan.

2 Types of static pressure mode are selectable.

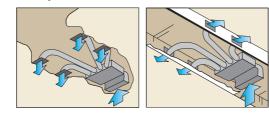


Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized

High Static Pressure Duct (ARXC72)



Installation styles



(Unit: mm)

Static pressure (Pa)

Model: ARXC45GATH / ARXC60GATH ARXC72GATH / ARXC90GATH



Model name			ARXC45GATH	ARXC60GATH	ARXC72GATH	ARXC90GATH
ower source				Single phase, 2	220-240V, 50Hz	
	Cooling	kW -	12.5	18.0	22.4	25.0
apacity	Heating	KWV -	14.0	20.0	25.0	28.0
Input power		W	715	730	1,110	1,250
	High		3,500 (972)	3,500 (972)	3,900 (1,083)	4,300 (1,195)
Airflow rate	Med	m ³ /h (I/s)	3,000 (833)	3,000 (833)	3,300 (917)	4,000 (1,111)
	Low	(1/3)	2,460 (683)	2,460 (683)	3,000 (833)	3,500 (972)
Static pressure range		Pa	100 to 250	100 to 250	50 to 300	100 to 300
itandard static	oressure	Pa	100	100 260		250
	High		49	49	51	53
ound pressure evel	Med	dB (A)	45	45	48	51
	Low		42	42	45	49
)imensions (H	W × D)	mm	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,550 × 700
Veight		kg(lbs)	46 (101)	46 (101)	83 (-)	85(-)
onnection	Liquid (Flare)		9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)
pipe diameter	Gas (Flare)	mm	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diam	eter (I.D./O.D.)			25	/ 32	

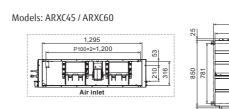
Note : Specifications are based on the following conditions.

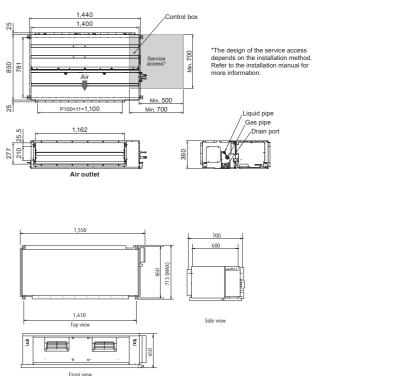
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

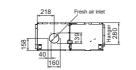
Optional parts

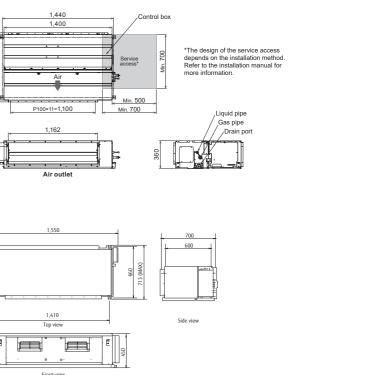
Long-Life Filter : UTD-LF60KA (ARXC45/60) IR Receiver Unit : UTB-YWC Remote Sensor Unit : UTY-XSZX

Dimensions (Unit: mm)

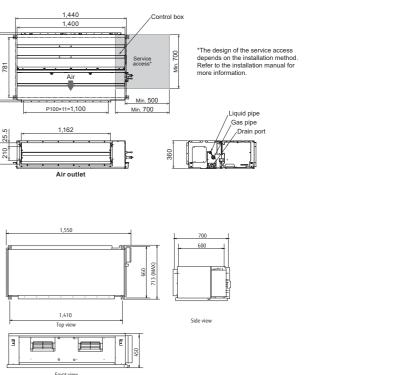








Models: ARXC72 / ARXC90



Previous model







ARXC45/60GATH

ARXC72/90GATH



Large airflow volume

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

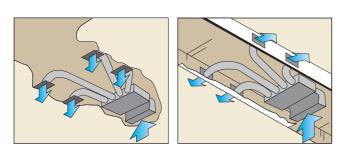




Selectable with a wide range of static pressure

Static pressure Static pressure range range 50 to 300 Pa 50 to 250 Pa (30 / 34class) (36 / 45class)

Installation styles



Model: ARXN18GATH / ARXN24GATH / ARXN30GATH ARXN34GATH / ARXN36GATH / ARXN45GATH

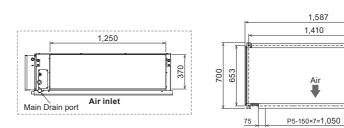
Model name			ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH
Power source					Single phase, 2	20-240V, 50Hz		
(ih.)	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5
Capacity	Heating		6.3	8.0	10.0	11.2	12.5	14.0
Input power		W	154	205	306	432	572	572
	High		2,280 (633)	2,640 (733)	3,200 (889)	3,720 (1,033)	4,120 (1,145)	4,120 (1,145)
Airflow rate	Med	m ³ /h (I/s)	-	-	-	-	-	-
	Low	1 (1/3)	-	-	-	-	-	-
Static pressure range		Pa	50 to 100	50 to 150	50 to 250	50 to 250	50 to 300	50 to 300
Standard static	pressure	Pa	50	50	50	50	60	60
	High	dB	35	37	40	43	45	45
Sound pressure level	pressure Med		-	-	-	-	-	-
	Low	(A)	-	-	-	-	-	-
Dimensions (H	«W×D)	mm	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700
Weight		kg(lbs)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	15.88	15.88	15.88	15.88	19.05	19.05
Drain hose dian	Drain hose diameter (I.D./O.D.)				25	/ 32	~	

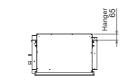
Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor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

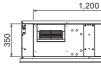
Optional parts

Remote Sensor Unit : UTY-XSZX

Dimensions (Unit: mm)



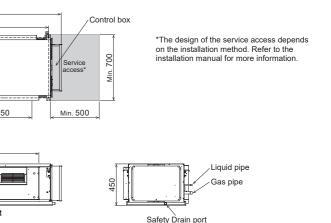




Air outlet



Large Airflow Duct can be connected to V-III Series only.



Floor/Ceiling



DC FAN

Flexible installation

Example for floor installation Floor console



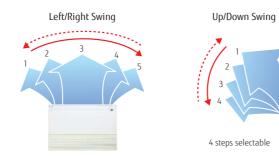
Example for ceiling installation

Under ceiling



Double auto swing

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



High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.



Model: ABHA12GATH / ABHA14GATH ABHA18GATH / ABHA24GATH

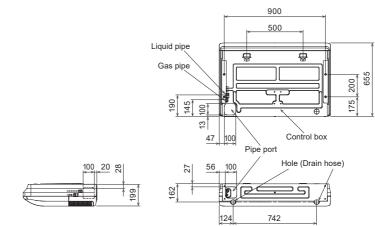
Specifications ABHA12GATH ABHA14G Power source 4.5 Cooling 3.6 Capacity kW Heating 4.0 5.0 42 Input power 30 W High 660 (183) 780 (210 m³/h Airflow rate 640 (17) Med 570 (158) (I/s) Low 490 (136) 550 (152 High 36 40 Sound pressure level dB (A) 36 Med 32 34 Low 28 199 × 990 × 655 199 × 990 > Dimensions (H × W × D) mm Weight kg(lbs) 25 (55) 26 (57) Liquid (Flare) 6.35 6.35 Connection pipe diameter Gas (Flare) mm 12.70 12.70 Drain hose diameter (I.D./O.D.)

Note : Specifications are based on the following conditions.

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

Optional parts

Dimensions (Unit: mm)



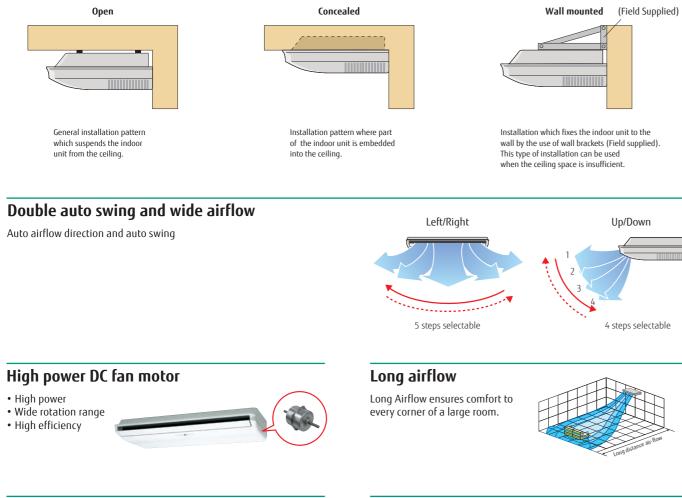




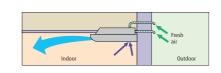
GATH	ABHA18GATH	ABHA24GATH
Single phase, 2	20-240V, 50Hz	
;	5.6	7.1
)	6.3	8.0
	74	99
16)	1,000 (277)	1,000 (277)
77)	720 (199)	820 (227)
52)	580 (161)	680 (188)
	46	47
	39	42
	35	37
) × 655	199 × 990 × 655	199 × 990 × 655
7)	26 (57)	27 (59)
5	9.52	9.52
0	15.88	15.88



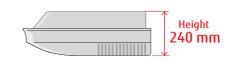
Installation



Fresh air intake



Slim & Compact design



Model: ABHA30GATH / ABHA36GATH ABHA45GATH / ABHA54GATH



Specifications ABHA30GATH ABHA360 Power source Cooling 11.2 9.0 Capacity kW Heating 10.0 12.5 85 Input power 66 W High 1,630 (452) 1,690 (46 m³/h 1,400 (38 Airflow rate Med 1,370 (379) (I/s) 1,140 (316) 1,170 (32 Low High 42 45 Sound pressure level dB 38 Med 38 (A) 34 Low 33 240 × 1,660 × 700 240 × 1,660 Dimensions (H × W × D) mm Weight kg(lbs) 46 (101) 48 (106 Liquid (Flare) 9.52 9.52 Connection pipe diameter Gas (Flare) mm 15.88 19.05 Drain hose diameter (I.D./O.D.)

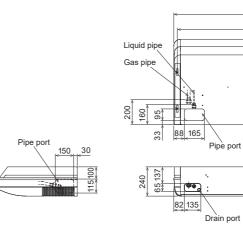
Note : Specifications are based on the following conditions.

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

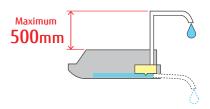
Optional parts

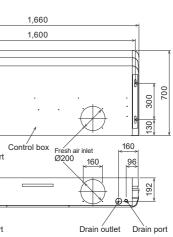
Drain Pump Unit : UTR-DPB24T Flange : UTD-RF204

Dimensions (Unit: mm)



GATH	ABHA45GATH	ABHA54GATH				
Single phase, 22	0-240V, 50Hz					
2	12.5	14.0				
5	14.0	16.0				
	131	180				
469)	2,010 (558)	2,270 (629)				
389)	1,600 (444)	1,780 (493)				
325)	1,230 (342)	1,280 (355)				
	48	51				
	42	45				
	35	36				
0 × 700	240 × 1,660 × 700	240 × 1,660 × 700				
06)	48 (106)	48 (106)				
2	9.52	9.52				
5	19.05	19.05				





GENERAL 83



Filter features

High performance filter provides high quality air conditioning



Long-life* Ion Deodorization Filter

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

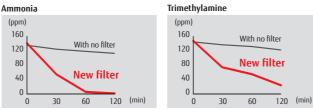
. (*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)



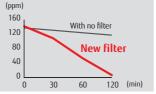
Apple-catechin Filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

Deodorizing effect (Odor reduction rate)



Hydrogen sulfate



High performance filters have been thoroughly tested by the Environmental Sanitary Inspection Center using an advanced Deodorization Test.



Model: (EEV internal) ASHA07GACH / ASHA09GACH ASHA12GACH / ASHA14GACH (EEV internal) ASHA07GATH / ASHA09GATH ASHA12GATH / ASHA14GATH

> (EEV External) ASHE07GACH / ASHE09GACH ASHE12GACH / ASHE14GACH

Specifications

Model name			ASHA07GACH ASHA07GATH	ASHA09GACH ASHA09GATH	ASHA12GACH ASHA12GATH	ASHA14GACH ASHA14GATH	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH		
Power source				Single phase, 2	20-240V, 50Hz		Single phase, 220-240V, 50Hz					
(Cooling	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5		
Capacity	Heating	KW	2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0		
Input power W		W	17	18	22	34	15	16	21	34		
	High		490 (136)	500 (139)	560 (156)	670 (186)	490 (136)	500 (139)	560 (156)	680 (189)		
Airflow rate	Med	m ³ /h (I/s)	450 (125)	450 (125)	480 (133)	490 (136)	450 (125)	450 (125)	480 (133)	490 (136)		
	Low	(1/3)	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)		
	High		35	36	39	44	34	35	38	43		
Sound pressure level	Med	dB (A)	33	33	35	37	32	32	34	35		
ievei	Low		27 / 31* ¹	27 / 31* ¹	31	32	26 / 30* ¹	26 / 30* ¹	30	30		
Dimensions (H	< W × D)	mm	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215		
Weight		kg(lbs)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)		
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35		
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70		
Drain hose dian	neter (I.D./O.D.)	1		13.8 / 15.	8 to 16.7			13.8 / 15.	8 to 16.7			
EV Kit (option)			-	-	-	-	UTR-EV09XB	UTR-EV09XB	UTR-EV14XB	UTR-EV14XB		

Note : Specifications are based on the following conditions.

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

Optional parts

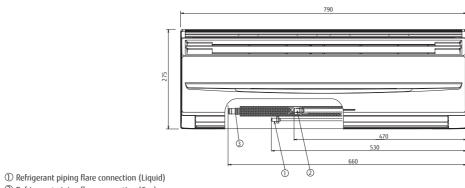
Compact size

Powerful output even compact design

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



Dimensions (Unit: mm)



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

High power DC fan motor

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



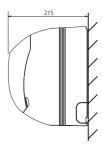
Easy maintenance

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





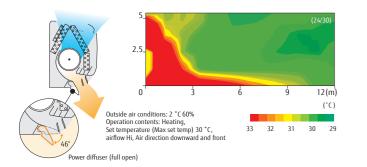
*1 : This value is under cooling operation.





More comfort airflow by adopting power diffuser

"Vertical airflow" provides powerful floor level heating



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

Ion Deodorization Filter

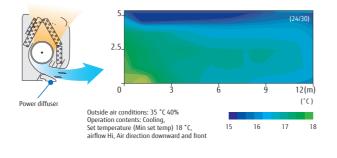
Apple-catechin Filter

particle ceramic.

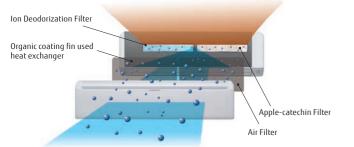
dust in the air.

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

Apple-catechin filter uses static electricity to clean fine particles and



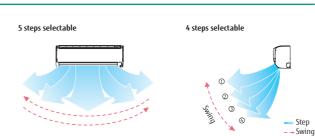
Air conditioner filter features



High quality air conditioning by incorporation of high performance filter.

Double auto swing

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



Model: (EEV internal) ASHA18GACH / ASHA24GACH / ASHA30GACH ASHA18GATH / ASHA24GATH / ASHA30GATH

Specifications ASHA18GACH ASHA18GATH Power source 5.6 Cooling Capacity kW Heating 6.3 Input power W 32 840 (233) High m3/h (I/s) Airflow rate Med 770 (213) Low 690 (191) High 41 Sound pressure level dB (A) Med 39 Low 35 Dimensions ($H \times W \times D$) mm 320 × 998 × 228 kg(lbs) 15 (33) Weight Liquid (Flare) 9.52 Connection pipe diameter Gas (Flare) 15.88 mm Drain hose diameter (I.D./O.D.)

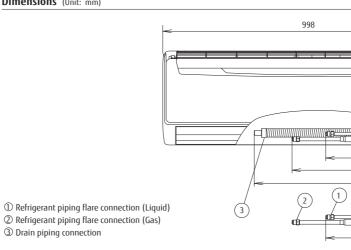
Note : Specifications are based on the following conditions.

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

Optional parts

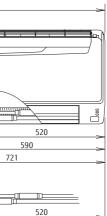
Dimensions (Unit: mm)

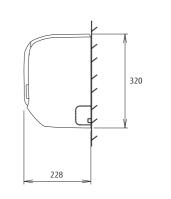
③ Drain piping connection





ASHA24GACH ASHA24GATH	ASHA30GACH ASHA30GATH					
Single phase, 220-240V, 50Hz						
7.1	8.0					
8.0	9.0					
60	91					
1,100 (305)	1,240 (343)					
910 (252)	980 (271)					
730 (202)	770 (213)					
48	52					
43	45					
35	35					
320 × 998 × 228	320 × 998 × 228					
15 (33)	15 (33)					
9.52	9.52					
15.88	15.88					
12 / 16						





VRF CONTROL SYSTEMS

BEST CONTROL SOLUTION FOR EACH PROPERTY CONTROL SYSTEM OVERVIEW COMPARISON TABLE OF CONTROLLERS Individual Controller Centralized Controller Converter / Adaptor



User friendly control system provides individual control to centralized control

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



BEST CONTROL SOLUTION FOR EACH PROPERTY

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

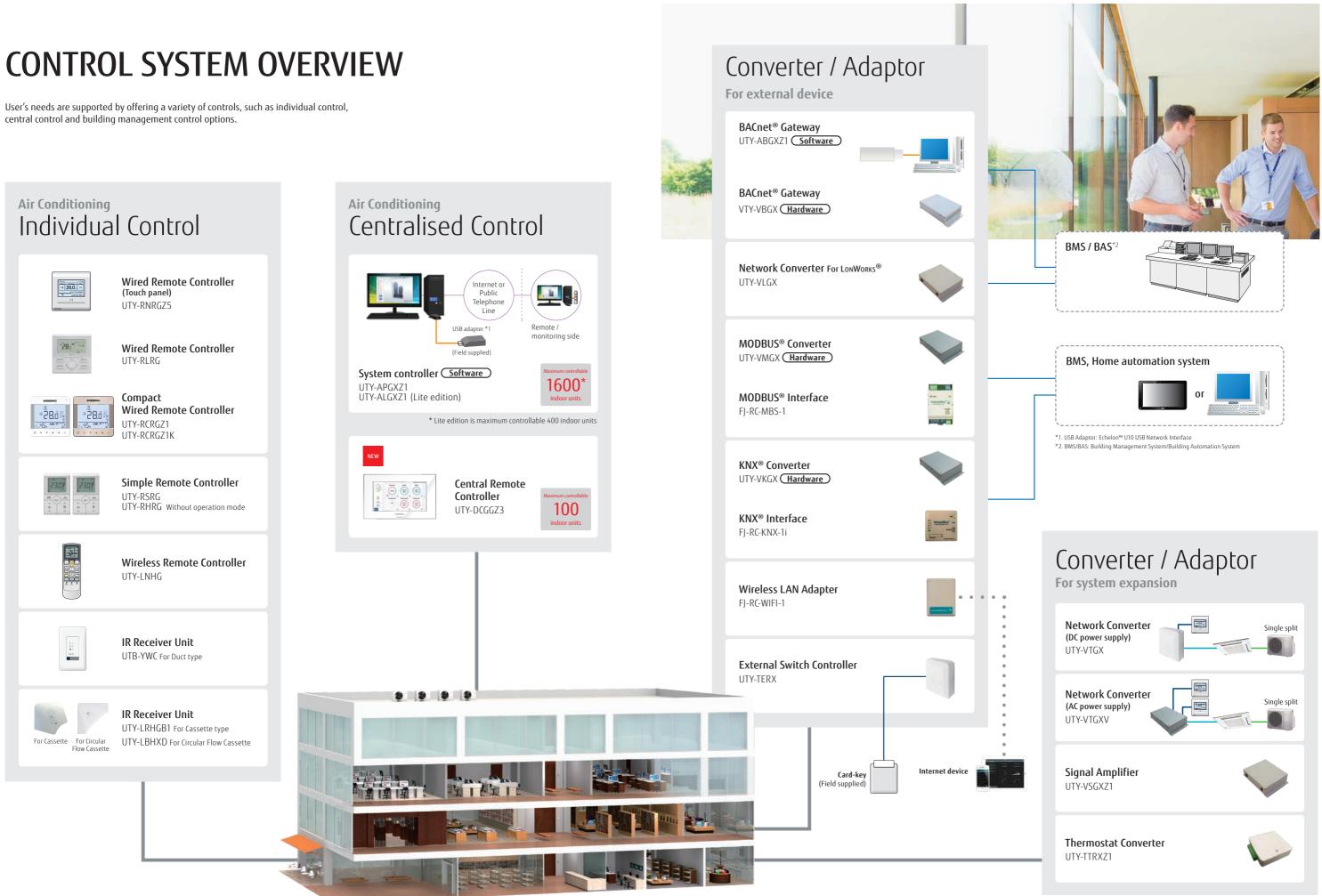
SHOP						
Туре	Individual Control	Centraliz	ed Control		Integrating Control (Interface)	
				•	-	
1 Carlos Anno 1	Wired Remote Controller	Central Remote Controller	System Controller	Network Converter for LonWorks®	MODBUS® Converter	KNX® Convertor
	UTY-RNRGZ5, UTY-RLRG UTY-RCRGZ1, UTY-RCRGZ1K	UTY-DCGGZ3	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX		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 lead lag operation etc.)			•			
Remote Management			•			
Manage multiple sites			•			
Monitor energy consumption			•			
Control third party products			•			
Integrate FGL A/C into BMS				•	•	•

HOTEL

Туре		lividual ontrol		Centralize	ed Control		Integr	ating Control (Int	erface)	
The second second						-				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	System Controller	BACnet® Gateway	Network Converter for LonWorks®	MODBUS® Converter	KNX® Convertor	External Switch Controller
and the second s	UTY-RNRGZ5, UTY-RLRG UTY-RCRGZ1, UTY-RCRGZ1K	UTY-RSRG, UTY-RHRG	UTY-LNHG	UTY-DCGGZ3	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				•	•	•	•	٠	•	
Limited control for hotel guests				•	•	•	•	٠	•	
Remote Management					•					
Advanced Energy Saving (Peak cut, Indoor unit lead lag operation etc.)					•	•				
Monitor energy consumption					•					
Control third party products					•					
Integrate FGL A/C into BMS						•	•	•	•	
Interlock with window contact										•
Interlock with key-card										•

OFFICE										
Туре	Ind Cr	lividual ontrol		Centraliz	ed Control		Integra	ating Control (Int	erface)	
						-		-		
Per la	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	System Controller	BACnet® Gateway	Network Converter for LonWorks®	MODBUS® Converter	KNX® Convertor	External Switch Controller
Contraction of the second	UTY-RNRGZ5, UTY-RLRG UTY-RCRGZ1, UTY-RCRGZ1K	UTY-RSRG, UTY-RHRG	UTY-LNHG	UTY-DCGGZ3	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX		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.)				•	•	•	•	٠	•	
Advanced Energy Saving (Peak cut, Indoor unit lead lag operation etc.)					•	•				
Remote Management					•					
Energy Charge Apportionment					•	•				
Monitor energy consumption					•					
Control third party products					•					
Integrate FGL A/C into BMS						•	•	٠	•	
Interlock with door contact										•
Interlock with human sensor for meeting room										•

CONTROL SYSTEM OVERVIEW



COMPARISON TABLE OF CONTROLLERS

	Wired Remote Controller (Touch panel)	Wired Remote Controller	Compact Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Central Remote Controller	System Controller Lite	System Controlle Software
name	UTY-RNRGZ5	UTY-RLRG	UTY-RCRGZ1	UTY-RCRGZ1	UTY-RSRG	UTY-RHRG	UTY-LNHG	UTY-DCGGZ3	UTY-ALGXZ1	UTY-APGXZ1
ontrollable remote controller groups	1	1	1	1	1	1	1	100	400	1600
ontrollable indoor units	16	16	1	1	16	16	16	100	400	1600
ontrollable groups	-	-	-	-	_	-	-	50	400	1600
On / Off	•	٠	•	•	٠	•	•	•	•	•
Operation mode setting	•	•	•	•	•	-	•	•	•	•
Fan speed setting	•	٠	•	•	٠	•	•	•	•	•
Room temp. setting	•	٠	•	•	٠	•	•	•	•	•
Room temp. set point limitation	•	•	-	-	•	•	-	•	•	•
Test operation	•	•	•	•	•	•	•	-	-	-
Up/down air direction flap setting	•	•	•	•	•	•	•	•	•	•
Right/left air direction flap setting	•	•	•	•	_	-	•	•	•	•
Individual louver control	•	-	•	•	_	-	-	•*4	-	-
Group setting	-	-	-	-	-	-	-	•	•	•
RC prohibition	-	-	-	-	-	-	-	•	•	•
Anti freeze setting	•	-	•	•	_	-	-	•	•	•
Set temp. auto return	•	•	-	-	_	-	-	-	-	-
Economy mode setting	•	٠	•	•	-	-	•	•	•	•
Human sensor control	•	-	-	-	-	-	-	•	•	•
Error	•	•	•	•	•	•	-	•	•	•
Defrosting	•	•	•	•	•	•	-	•	•	•
Current time	•	٠	-	-	_	-	•	•	•	•
Day of the week	•	•	-	-	_	-	-	•	•	•
R.C. prohibition	•	•	•	•	•	•	-	•	•	•
Address display	•	•	•	•	•	•	-	-	•	•
Room temp	•	-	•	•	٠	•	-	•* ³	•* ³	•* ³
Multi-language	•	-	-	-	_	-	-	•	•	•
Summer time	•	-	-	-	_	-	-	•	•	•
Name registration	•	-	-	-	-	-	-	•	•	•
Backlight	•	-	•	•	•	•	-	•	-	-
2D floor layout / 3D building display	-	-	-	-	_	-	-	-	-	•
Refrigerant leakage detection function	-	-	-	-	_	-	-	•	•	•
Period	Week	Week	-	-	_	-	-	Week	Year	Year
Schedule timer On/off, Temp, Mode, Low noise mode ^{*5} , Times per day	8	4	-	_	_	-	-	20	144	144
On/off timer	•	٠	 (OFF only) 	 (OFF only) 	-	-	•	-	-	-
Sleep timer	-	-	-	-	_	-	•	-	-	-
Program timer	-	-	-	-	-	-	•	-	-	-
Auto off timer	•	٠	-	-	-	-	-	•	_	-
Day off	•	•	-	_	_	-	-	•	•	•
Min. unit of timer setting (Minutes)	10 • 30	30	-	-	-	-	5	10	10	10
Status monitoring system	_	-	-	_	_	-	-	•	•	•
Electricity charge apportionment	-	-	-	-	_	-	-	-	0	•
Error history	•	•	_	-	_	-	-	•	•	•
Emergency stop	-	-		_	_	-	-	•*2	-	_
Remote management	_	_	_	_		_	_	•	0	•
Energy saving management		_				_	-	_	0	0
E-mail notification for malfunction	_	_	_			_	-	•	•	•
Key lock	Child lock	Child lock	-	_	-	_	-	Password setting	Password setting	Password set
Low noise mode	_	_	_	-	-	_	_	_	•	•

 *1 "Operation mode" setting is not available for this model.
 *2 This function is available only through external input control.

 *3 This function is available only when using wired remote controller.
 *4 Equipped only with individual air volume batch reset.
 *5 UTY-DCGGZ3 only

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

Wired remote controller (with touch panel) IITY-RNRG75



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

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



High performance and compact size

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



Accurate and comfortable control

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



Various energy saving control

Custom Auto

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

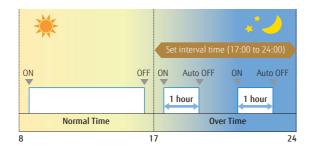
Auto OFF timer

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

Set Temperature Upper and Lower Limit Setting

2 schedules Weekly Timer

Set Temperature Auto Return



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

Change over

Change over

Cooling Set Point

Heating Set Poin

Operation Star

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

Features: Wired remote controller (with touch panel)

Various energy saving control

Displays setting status and Limitations

• The remote controller settings can be easily checked



Summer Time display

Air Fle

Monitor

• This function can be set easily from Menu screen

Main Menu Summer Time Setting	Page 2/ 2 Preference
Initial Setting	Maintenance
Monitor	Prevideax Page
	6/1

Child lock

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

Child Look	
<u>6/1</u>	
 -	

Name Registration

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



Backlight

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



Specifications Power Supply Dimensions (H x W x D) mm Weight q DC12V is supplied by indoor unit.

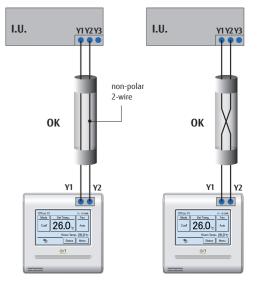
96 **∂GENER∩L**



Simplified installation

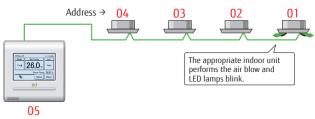
Uses non-polar 2-wire type

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



Auto Address Setting/Setting Position Notification

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



Easy Maintenance

Error History Display

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

Error H		kilmas	Fage 1/ 3 Eade	Ĩ
	2/8/1 11:004		141	
	2/ 7/20 2.534		163	
3 201			143	
4 234	2/ 7/23 11:004	005-01	141	
5 200			141	
6 200	2/7/21 11:00M	002-01	141	
Back		Nont Page	Ense All	J
	<u>0</u>	/1		
				∍

UTY-RNRGZ5	
DC 12V	
120 × 120 × 20.4	
220	

Wired remote controller UTY-RLRG

°**28**.0



• 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, various energy saving controls can be realized using one remote controller only.



Visually intuitive operation

- The operation mode, set temperature, and fan speed are shown prominently on the top screen.
- Each function to be set is indicated by an icon.
- The control guide makes it simple and straightforward to operate
- a remote controller.

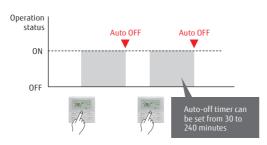




Simple operation with easy 4-way navigation pad

Auto-off timer

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



Set temperature auto return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the se temperature can be changed is 30 to 240 minutes.

	Setting	Cooling operation temp.	Heating operation Setting temp.	
et is	24°C 22°C	Set temperature change Auto return	25°C 23°C Set temperature change Auto return Set table time range 30 to 240 minutes	
		Tir	me T	im

Compact wired remote controller UTY-RCRGZ1 / UTY-RCRGZ1K

• 2-wire type







Large screen and simple display

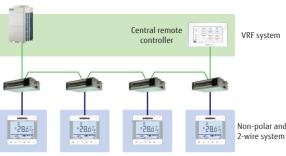
- Although the size is compact, the screen is large • Large letters makes it easy to see
- Operation is simple and easy-to-understand

1 Visible large letter
2 Touch key (Frequently-used operation is placed on the
3 Operation mode
4 Menu
5 Air flow
6 Built in IR reciever
7 LCD with backlight is clearly visible in the dark
8 Easy-to-understand pictograph display
9 LED is mounted for the ON/OFF key (Green light on wh

System overview

• VRF connection

One indoor unit and one remote controller are connected in one non-polar and 2-wire remote controller system.



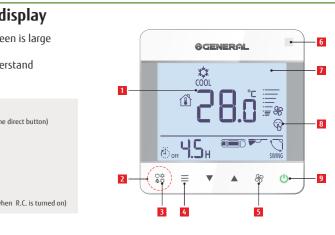
Compact Wired Remote Controller

Specifications DC 12V Power Supply 120 × 120 × 17 Dimensions (H x W x D) mm Weight 170 q

Model name		UTY-RCRGZ1	UTY-RCRGZ1K
Power Supply		DC 12V	
Dimensions (H x W x D)	mm	86 × 86 × 44	
Weight	q	135	

DC12V is supplied by indoor unit.

• 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.



• RAC (Room air conditioner) connection

One indoor unit and one remote controller are connected in one non-polar and 2-wire remote controller system.



Compact Wired Remote Controlle

Non-polar and 2-wire system

Simple remote controller

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

23	IQ I	23	UĮ.
UTY-	RSRG	UTY-	RHRG

(Without operation mode)



Compact remote controller provides access to basic functions

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

• Vertical louver control:



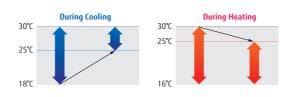


• Room temperature set point limitation:

types, which are installed in hotels and

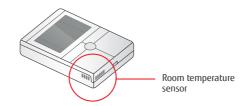
conference rooms, can be adjusted.

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.



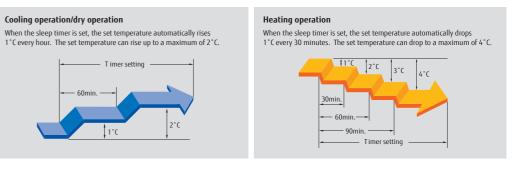
Wireless remote controller UTY-LNHG



• A single controller controls up to 16 indoor units.

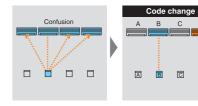
Built-in daily timer

Select from 4 different timer programs : On / Off / Program / Sleep prevent excessive cooling or heating during sleep hours.



Easy installation and operation

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



Address setting

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

Specifications			
Model name		UTY-RSRG	UTY-RHRG
Power Supply		DC 12V	
Dimensions (H x W x D)	mm	n 120 × 75 × 19,4	
Weight	g	120	

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

100 **OGENEROL**

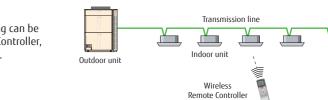
Simple and sophisticated operations with a choice of 4 daily timers

- Program timer : The program timer operates the ON and OFF timer once within a 24 hour period.
- Sleep timer : The sleep timer function automatically corrects the set temperature according to the time setting to

D

Wide and precise





IR receiver unit for duct type

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

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

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

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



Specifications

< Wireless Remote Contr	oller >		
Model name		UTB-YWC	
Power Supply		1.5 V (R03/LR03/AAA)	
Dimensions (H x W x D)	mm	170 × 56 × 19	
Weight	g	85	
< IR Reciver Unit>			
Battery		DC 5V	
Dimensions (H x W x D)	mm	145 × 90 × 30	
Weight	g	150	
weight	9	001	

IR receiver unit for Cassette UTY-LRHGB1, UTY-LBHXD

. ...

Cassette type indoor unit can be controlled with Wireless Remote Controller

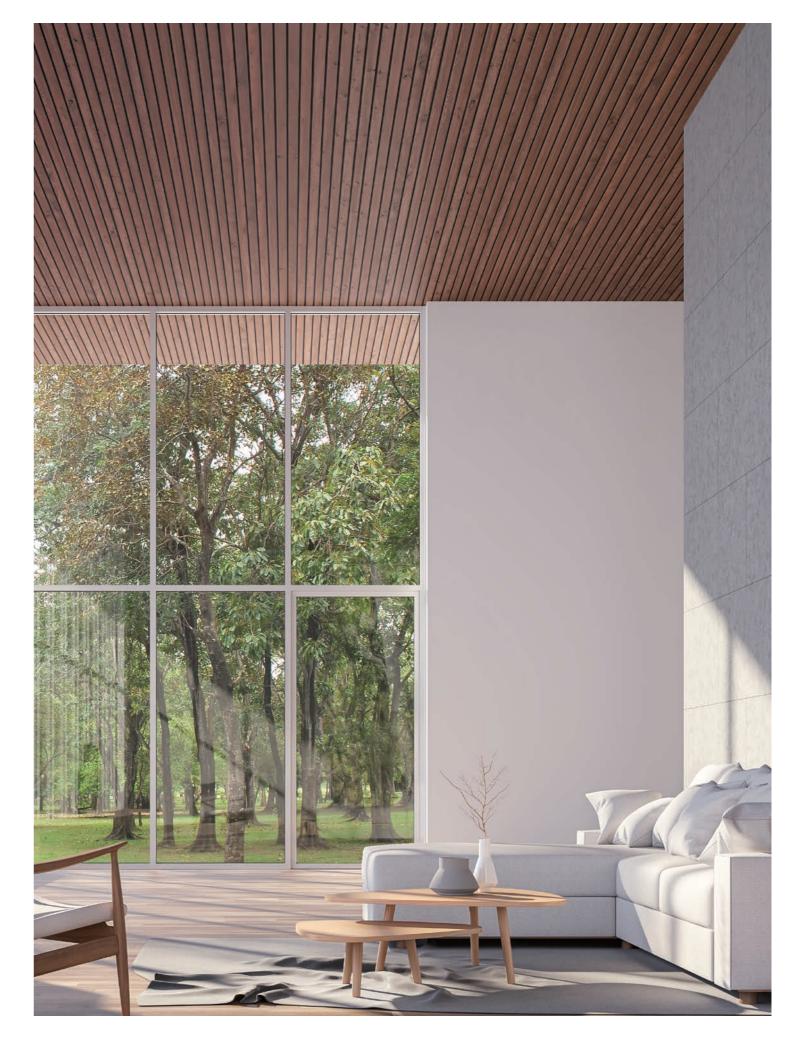
Wiring connection





Specifications

Model name		UTY-LRHGB1	UTY-LBHXD
Power Supply		1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H x W x D)	mm	170 × 56 × 19	170 × 56 × 19
Weight	g	85	85
< IR Reciver Unit> Battery		DC 5V	DC 5V
	mm	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2
Dimensions (H x W x D)			







100 indoor units

50 groups

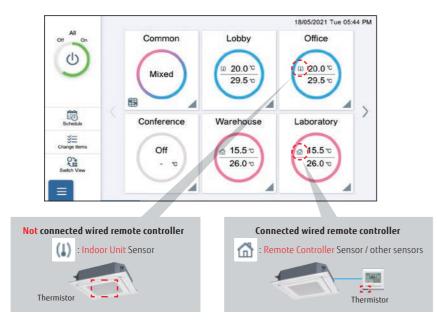
For tenants in small to midsize commercial premises

- Individual control and monitoring of up to 100 indoor units
- 7.0inch TFT color screen
- Visually intuitive operation
- Room temperature display by indoor unit sensor & remote controller sensor
- 50 Remote Controller Groups Display & remote controller group rename
- Supports 14 languages: Chinese (Simplified/Traditional), Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, Turkish, and Thai (Remote Management only)

Easy Management

Air conditioning management by detecting room temperatures of each room

The room temperature detected with indoor unit sensor or remote controller sensor can be displayed. New model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.



to switch

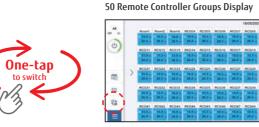
S

50 Remote Controller Groups Display

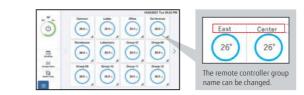
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



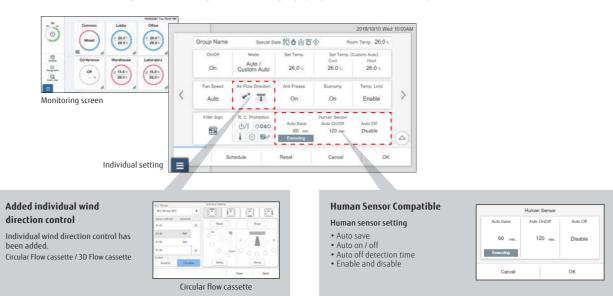


Manage & Monitor by 50 Remote Controller Groups



Features: Central Remote Controller

- Easy intuitive operation from the touch panel display.
- All functions can be accessed through the monitoring screen showing a pop-up window for detailed operation.



Remote Management

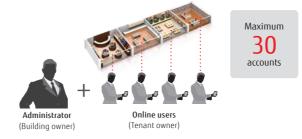
Remote monitoring / Remote operation

New central remote controller can control your tenant's air

conditioner anytime and anywhere.

When the central remote controller manages the indoor units of some tenants, air conditioning of each tenants can be managed separately online.

Increased the Number of Accounts



Remote Management

Annual schedule

- An annual schedule can be arranged for each remote controller group or user-defined group.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.

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Grand N. Grand R. Grand R. Grand N. Gra		0.00 0 0.00 0	*		-	1.0		1					
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						0 0 0 m in .	1	-	-	* #	# 2 01	1	
					_	C Seed Desei					-		
						The second se							

Specifications

Model name	Model name			
Power Supply				
Dimensions (H x W x D)	. ,			
Weight				

Remote Controller Groups Rename The remote controller group names can be

changed. Users can know easily where the air conditioning is located by changing the remote controller group names.



	om Temp. 26.0 c	Ro
	Custom Auto) Heat	Set Temp. (Cool
	26.0 v	26.0 v
	Temp. Limit	Economy
>	Enable	On
		Human Sensor
	Auto Off	Auto On/Off
	Disable	120 mp.
	ок	Cancel

Trouble support function

Display error details

Display descriptive explanation when an error occurs



Display error details - Indoor unit error Outdoor unit error Central remote controller error

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.

low noise schedule

Low noise operation of outdoor units can be scheduled.

No. Tue	The	The	81	Set	Ser .
front front		70410	Trac N		

Timer 01	1 8		(a) (a) (a)
Start Time	814 Tata	Low Note Love	Pranky
			Life Tests
1 11.01.00	10.00		Performance
	10.00.000		Partometer
4 1000.000	12.00.446		

Automatic return to set temperature A function that automatically returns the changed temperature to its original value over time.

UTY-DCGGZ3	
100-240 V 50 / 60 Hz	
134.6 × 216.2 × 37.9	
800	

System controller UTY-APGXZ1 (Software)





integrated monitoring and control of VRF network systems operating in small to large buildings.

- Up to 1.600 indoor units and 400 outdoor units on up to 4 VRF network systems can be controlled. • To accommodate facility management needs, the system controller offers-in addition to precise air conditioning control-remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.

System controller lite UTY-ALGXZ1 Software





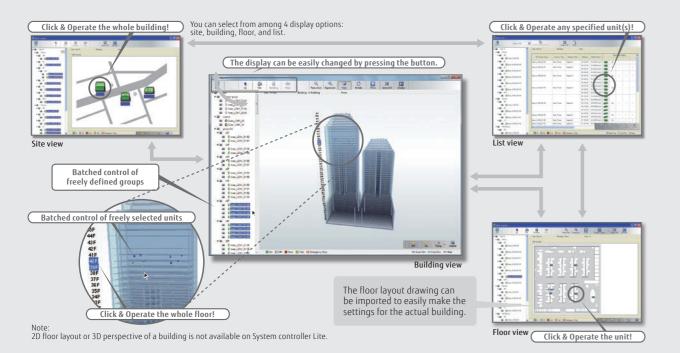
System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled. • In addition to precise air conditioning control, a variety of applications are available as options to
- offer a wider range of control. • Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.

Visually intuitive operation

• Click & Operate : The 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.

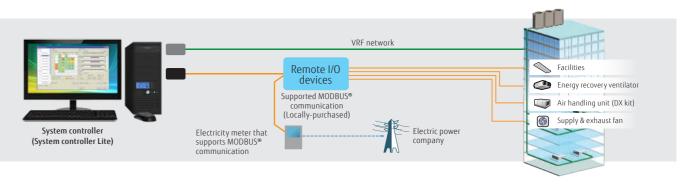


Features: System controller / System controller lite

3rd party devices connected by Modbus can be controlled.

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

When a MODBUS® adapter (locally available) is connected to a computer, electrical equipment and devices supported by MODBUS® can be monitored and controlled centrally from the computer. The central control can reduce wasted energy throughout an entire building resulting from a failure to turn equipment off during or after work, as well as reduce the need for on-site patrols.



Wide-ranging operation and data management

Standard System controller and System controller Lite

Schedule management

- An annual schedule can be arranged for each remote controller group or user-defined group.
- ON/OFF, operation mode, remote controller prohibition, and temperature settings can be programmed for up to 143 times per day at 10-minute intervals and for up to 101 configurations for each remote controller group.
- Settings can be programmed for a period that spans midnight.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.
- Low noise operation of outdoor units can be scheduled.



Electricity charge apportionment

Standard on System controller Option System controller Lite UTY-PLGXA2

Electricity charge apportionment method

This is a method to calculate monthly energy costs to be allocated to each tenant based on the amount of energy used by their air conditioners. The first step is to determine exactly how much energy is consumed by air conditioners in each tenant space. The second step is to divide the total energy charge billed by an electric power company based on the amount of energy used by each tenant to determine the energy cost to be allocated to each of them. (See figure on right)

The calculation takes into consideration such factors as the number of unused rooms and nighttime electricity rate, which are shown in detail on an energy cost allocation schedule.

Wide-ranging control of indoor and outdoor units

- The operation status and mode of each indoor unit are displayed.
- Turn on and off each indoor unit and switch its operation mode.
- Setting temperature range limitation
- Low noise setting of outdoor units

Remote controller prohibition

Prohibits the operation mode, temperature setting, or ON/OFF of an indoor unit.

Error alert and e-mail notice

When something goes wrong, an error message is shown in a popup on a computer display with a chime, and an e-mail notice is sent. Errors of the past one year are logged and can be reviewed.

Operation and control history

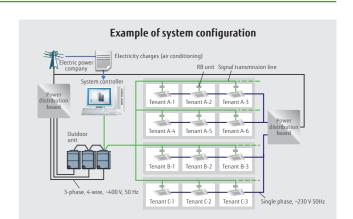
A history of operation status and control can be maintained and retrieved

Importing and exporting databases

Only an administrator is authorized to import and export registration, layout, and image data.

Automatic clock adjustment

Time can be set for all controllers in batch automatically.



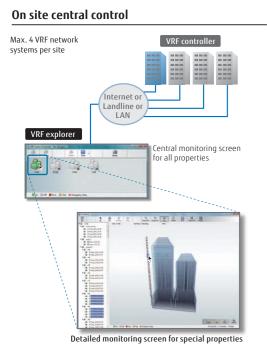
OGENEROL 107

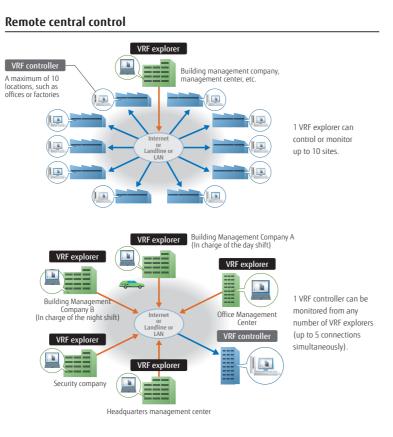
Features: System controller / System controller lite

Remote monitoring management

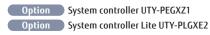
Standard on System controller Option System controller Lite UTY-PLGXR2

The System controller can be used on site or remotely over networks for remote central control. The System controller requires 2 software programs working together: The VRF controller runs on site and communicates with the VRF system; The VRF explorer, which runs at a remote location, provides a user interface and communicates with the VRF controller. The VRF controller and the VRF explorer run on a single computer or on different computers connected on a network. A computer running VRF explorer can centrally control up to 10 VRF system sites having up to 20 buildings each.





Energy-saving management



A variety of energy-saving options can be selected depending on the season, weather, and time of day. Excellent energy-saving operation is performed while keeping users comfortable.



Main screen for energy-saving management

Energy saving graph data: This chart compares the energy consumption for the current month with the previous month and with the same month of the previous year to keep track of the energysaving performance.

Indoor unit rotation

Indoor units can be automatically rotated to operate within a group in accordance with a predetermined annual schedule to reduce power consumption while keeping users comfortable. The operation stoppage rate can be selected for an indoor unit.

Peak-cut mode

The system controller monitors the connected power meter and controls the energy to maintain the target power consumption set for each time period by changing the set temperature of the indoor units or turning off the thermostat so as to keep the users comfortable. Indoor units to be controlled can be grouped in many ways, and the control level can be set for each group.

Capacity saving for outdoor unit

The upper limit on the capacity of an outdoor unit can be adjusted to reduce power consumption during a hot summer or cold winter by averaging out the power-saving performance of each refrigerant system. The upper limit on capacity can be set at 50% of the rated capacity or more.

Summary of functions

			System	controller		S	ystem controller Li	te		
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX	
		RF networks supported	4	-	1	-	-	-	-	
	Max. number of in	door unit and remote controller groups per VRF network	400	-	400	-	-	-	-	
pecifications		door units per VRF network	100	-	100	-	-	-	-	
		oor units and remote controller groups per System controller	1600	-	400	-	-	-	-	
		utdoor units per System controller	400	-	100	-	-	-	-	
	Multiple site displa		10	-	10	-	-	-	-	
	Number of buildin Number of floors p	gs per site	20 200	-	-	-		-	-	
	Number of floors		50	-	-	-	-	-		
te	3D graphical layou		0			_				
ipervision	2D graphical layou		•	_	_	-	_	-	_	
	List display		•	-	•	-	_	-	-	
	Tree display		•	-	•	-	-	-	-	
	Group display		•	-	•	-	-	-	-	
	Error notification		•	-	•	-	-	-	-	
ror anagement	Audible alarm		•	-	•	-	-	-	-	
anagement	E-mail notification of errors		•	-	•	-	-	-	-	
	Error history		•	-	•	-	-	-	-	
istory	Operation history		•	-	•	-	-	-	-	
	Control history	ON/OFF	•		•	-			-	
		ON/OFF Operation mode*	•	-	•			_	-	
		Room temperature				-	-	-	-	
		Fan speed	•		•					
	Individual control	Airflow direction	•	_	•	_	_	_	_	
		Economy mode	•	-	•	_	_	-	-	
peration		Setting temperature range limitation	•	-	•	-	-	-	-	
ontrol		Anti-freeze	•	-	•	-	-	-	-	
		Low noise setting of outdoor units	•	-	•	-	-	-	-	
	Individual	Remote controller prohibition	•	-	•	-	-	-	-	
	management	Setting temperature range limitation	•	-	•	-	-	-	-	
	Indiagement	Filter sign reset	•	-	•	-	-	-	-	
	Other	memory operations	•	-	•	-	-	-	-	
		Pattern operations	•	-	•	-	-	-	-	
	Annual Schedule	6 I.	•	-	•	-	-	-	-	
	Setting for a speci	fic date	-	-	-	-	-	-	-	
chedule	ON/OFF per day ON/OFF per week		72 504	-	72 504	-	-	-		
criedule	Day off		504	-	504	-	-	-		
		imer setting (minutes)	10		10	_	_	_	_	
	Weekly schedule f		•	_	•	_	_	_	-	
	Web Operation		•	-	•	-	-	-	-	
emote	Remote monitorin	q	•	-	-	•	-	-	-	
onitoring	Remote operation		•	-	-	٠	-	-	-	
anagement	Remote function s	etting	•	-	-	•	-	-	-	
		arge/bill calculation	•	-	-	-	•	-	-	
	Tenant (block) set		•	-	-	-	•	-	-	
ectricity charge	Lommon facilities	apportionment setting	•	-		-	•	-	-	
portionment		umption allotment	•	-		-	•	-	-	
		ions for cooling and heating		•		-	•	-	-	
	Electricity meter s Indoor unit rotatio		+ -	•	-	-		-	-	
	Peak cut control		-	•		_	_	•	_	
nergy-saving	Capacity saving fo	r outdoor unit	-	•	-	-	_	•	_	
anagement	Record of energy-s		-	•	-	- 1	-	•	_	
	Information on en		-	•	-	_	-	•	-	
	Power consumption		-	•	-	-	-	•	-	
	Electricity meter s			•		-	-	•	-	
ontrol of	Monitor		•	-	-	-	-	-	٠	
xternal devices			•	-	_	-	-	-	۲	
	Importing and exp	orting databases	•	-	•	-	-	-	-	
	Automatic clock a		•	-	•	-	-	-	-	
)thers	Multiple language		7 languages	-	7 languages	-	-	-	-	
	Refrigerant leak d Power shutdown	etector	•	-	•	-	-	-	-	
						_			1	

Computer requirements The specifications required for the computer are shown in the table below:

	System controller	System controller Lite
Operating system	 Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Profession 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) Supports 7 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], Window;[®] 8.1, and Windows[®] 10) 	
HDD	40 GB or more of free space	
Displayed items	1024 × 768 or higher resolution	
Interfaces	Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) Maximum of 2 USB ports are required to connect to a White-USB-key/WibuKey Up to 4 USB ports required to connect to an Echelon® U10 USB network interface * Maximum number of required USB ports depends on the applicable system configuration.	 Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) Maximum of 4 USB ports are required to connect to a White-USB-key/WibuKey 1 USB port is required for an Ec; : helon[®] U10 USB Network interface * The maximum number of required USB ports depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Acrobat Reader® 9.0 or later	

• Echelon® U10 USB Network interface - TP/FT-10 Channel (Model name: 75010R) (Required for each VRF Network) <PACKING LIST>

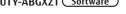
Option System co; n System controller Energy manager Lite Model name UTY-APGXZ1 UTY-PEGXZ1 UTY-ALGXZ White-USB-key

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

	System controller Lite
ession	al (32-bit or 64-bit) SP1
4-bit) olish	
ting	•Ethernet port (for getting access to the internet using LAN) or a m

For System controller Lite									
roller	Option								
roller	Remote access	Electricity charge apportionment	Energy saving	Centralized control					
<u>7</u> 1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2					
	1	1	1	1					

BACnet[®] gateway



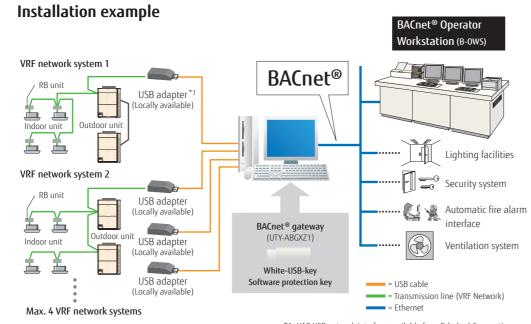
100

White-USB-key

(Software Protection Key)

ΒĪ

- 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.

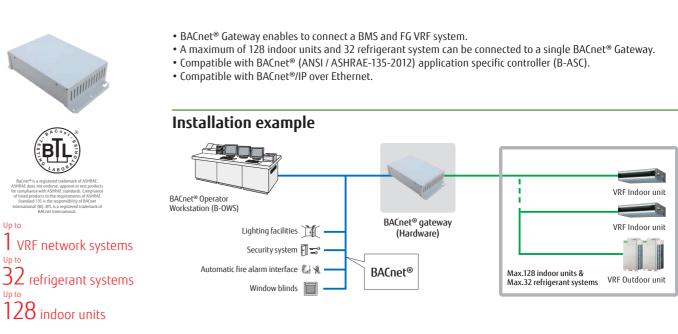


*1: U10 USB network interface available from Echelon® Corporation.

Specifications

	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® 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) USB ports (Maximum of 5 ports) 1 USB port is required for WHITE-USB-KEY/WibuKey connection Maximum of 4 USB ports are required for Echelon™ U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader™ 9.0 or later
•Echelon™ U10 USB Ne	twork Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)
<packing list=""></packing>	
Name and chane	Quantity Application

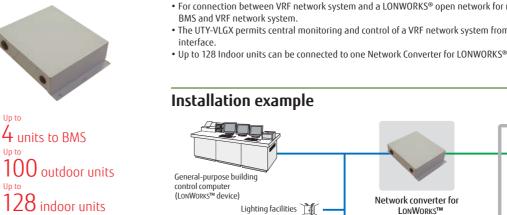
Name and shape	Quantity	Application						
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet™ Gateway.						



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

BACnet[®] gateway

Network converter for LONWORKSTM UTY-VLGX



control computer (LONWORKS[™] device) Lighting facilities Security system 🗐 🛫 Automatic fire alarm interface 🖏 🐒 Window blinds

Specifications

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

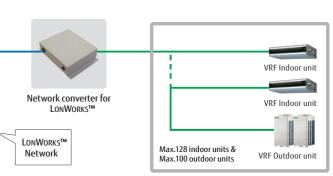
4 VRF network systems

Up to

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

• For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized

• The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS®



Transmission specifications (BMS side)

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

MODBUS[®] convertor for VRF

W

mm

g

MODBUS® Interface

UTY-VMGX (Hardware)



Specifications Model na

Dimensions (H x W x D)

Power Supply

Input power

UTY-VKGX

Up to

000

1 indoor unit

IntesisBox a

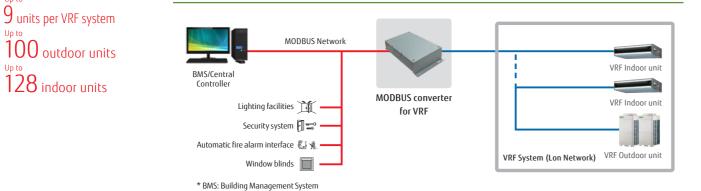
A 8

Weight

The MODOBUS 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 Controller.



UTY-VMGX

220-240V 50/60Hz

Max. 2

54 × 260 × 150

1,100





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





Specifications		
Model name		
Power Supply		
Input power	W	
Dimensions (H x W x D)	mm	
Weight	g	

KNX® Interface FI-RC-KNX-1i



Up to

1 indoor unit

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

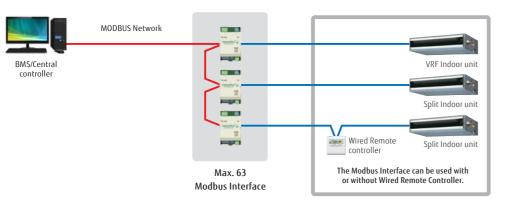
• Simple installation due to small and compact size. • No separate external power supply required (just KNX bus power).



• 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.

The Modbus Interface allows a complete integration of

air conditioners into Modbus Networks.

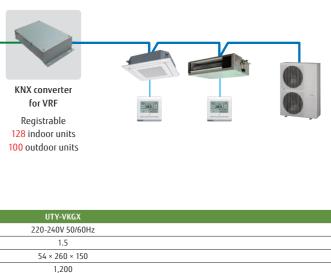


Specifications

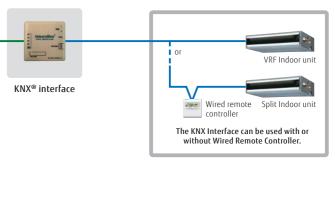
specifications		
Model name		FJ-RC-MBS-1
Dimensions (H x W x D)	mm	93 × 53 × 58
Weight	g	85

Specifications		
Model name		
Dimensions (H x W x D)	mm	
Weight	a	

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



• Can be used for single indoor units and group controlled (up to 16) indoor units



FJ-RC-KNX-1i	
70 × 70 × 28	
70	

Wireless LAN Adapter

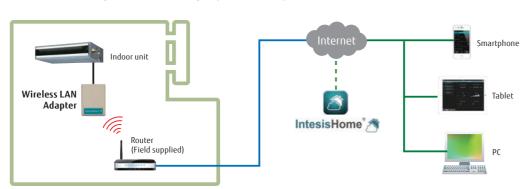
FJ-RC-WIFI-1





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





Basic control

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



UTY-VTGX DC power supply type

Network converter

UTY-VTGX / UTY-VTGXV



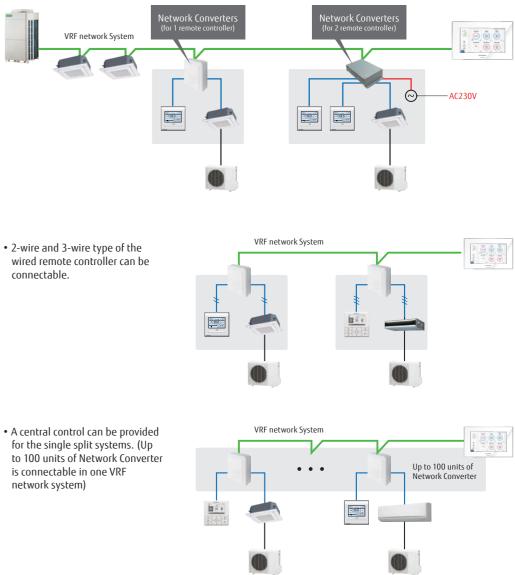
Up to

Up to

Up t

- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example



wired remote controller can be connectable.

Notifications and History

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

• History (future release)

Advanced control (Optional functions)

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

Specifications

Model name		UTY-VTGX		UTY-VTGXV	
Power Supply		polar 3-wire DC12V non-polar 2-wire DC12V		220-240V 50/60Hz, Single phase	
Input power	W	Max. 1.2		Max. 3	
Dimensions (H x W x D)	mm	140 × 117 × 43		54 × 260 × 150	
Weight	g	250		1,100	

Specifications FJ-RC-WIFI-Dimensions (H x W x D) mm 108 × 70 × 28 80 Weight g

Compact remote controller provides access to basic functions

• The network converters are required when connecting single split system to VRF network system.

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

OGENEROL 115

External switch controller UTY-TERX

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

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.

Cooling/Dry	+2°C *Max. 30°C	SAVE!	AUTO RESTART
Set temp.	· 2 C Wax 30 C		
Heating			
Set temp.	-4°C *Max. 16℃	V	
Normal o	peration	Saving operation	Normal operation

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

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

DC12V is supplied by indoor unit.

Signal amplifier

1 group

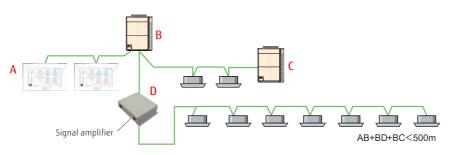


• Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.

- Up to 40 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,

(1) When the total wiring length of the transmission line exceeds 500m. (2) When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

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

Specifications

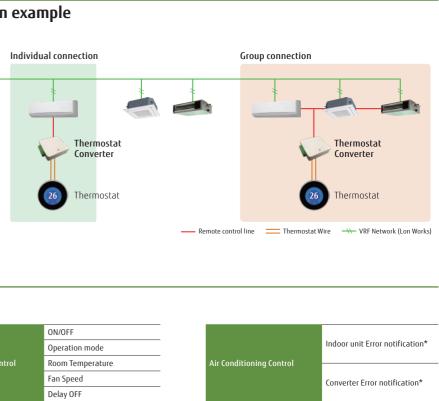
specifications		
Model name		UTY-TTRXZ1
Max. Connectable Indoor Unit		16
Input power (Max.)	W	0.6
Dimensions (H x W x D)	mm	27 × 86.7 × 86.7
Weight	g	220

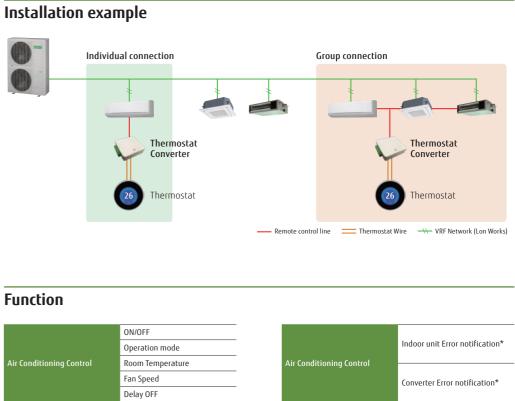


UTY-TTRXZ1

Thermostat Converter

16 indoor unit





Control air conditioner using third party thermostat

• Thermostat converter can control Fujitsu General products using a third party thermostat. Up to 16 indoor unit can be connected with one thermostat converter.

*These function are displayed on the converter's PCB board.

VENTILATION

Outdoor-air Processing Unit range

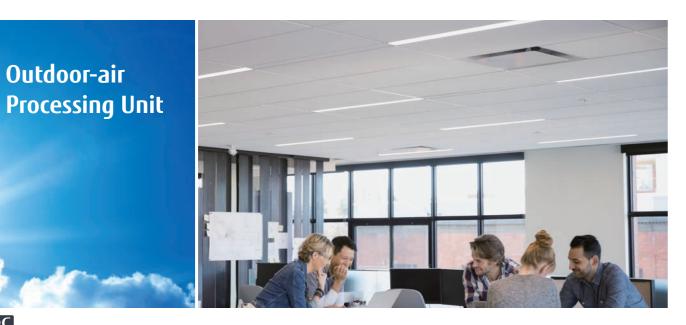
Airflow rate (m ³ /h)	1080	1680	2100
Model code	054	072	096
Outdoor-air Processing Unit	ARXH054GTAH	ARXH072GTAH	ARXH096GTAH

DX Kit for Air Handling Unit or Fresh Air Handling Unit application

Cimmin Commence

Effective heat exchange and simultaneous fresh air ventilation

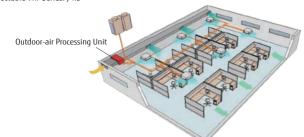
High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

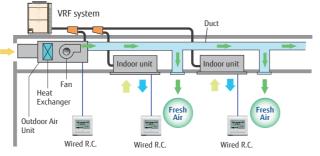


One VRF system can provide air conditioning and air supply at the same time.

Outdoor-air Processing 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





* 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 Processing Unit connection capacity 30% or less of the outdoor unit capacity.

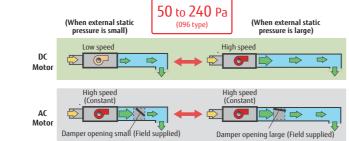
High energy savings and flexible duct design by using DC motor

• 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.



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.



Various Controller

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

Individual Controller



Model: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH



ARXH054

Specifications

Rated flow rate			1000 m³/h	1500 m ³ /h	2000 m ³ /h		
Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH		
Power source		V/Ø/Hz		220-240V, 50Hz			
Capacity	Cooling	kW	14.0	22.4	28.0		
Capacity	Heating	KVV	8.9	13.9	17.4		
Input power	Cooling	w	179	292	370		
	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 >	W × D)	mm	425 × 1,367 × 572	425 × 1,367 × 572	450 × 1,583 × 700		
Weight		kg	48	55	71		
Connection	Small		9.52	12.70	12.70		
pipe diameter	Large	mm –	19.05	22.22	22.22		
Operating	Cooling	0CDD	5 to 43	5 to 43	5 to 43		
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)

Model: ARXH054 Model: ARXH072 Side view (L) Side view (L) Top view Side view (R) Top view (Drain hose) (Drain hose) Front view Front view

120 **OGENEROL**

Central Controller 9 <u>0</u> 0 ō ē Touch Panel Wired System Controller ote Controlle Controller System Controller Lite (Touch Panel) (Software)

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

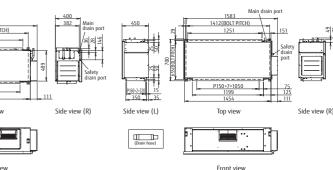


ARXH072



ARXH096



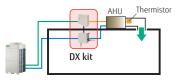


Ventilation

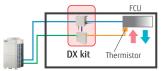


DC FAN

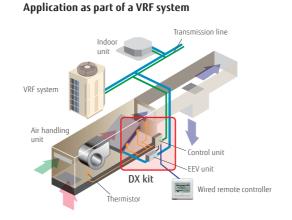
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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



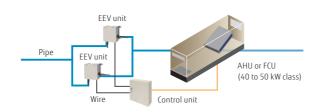
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor



Supports a wide range of capacity classes

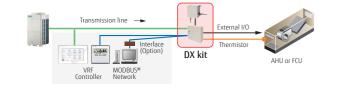
• Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube required)

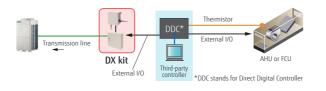
• Connectable capacity range: 5 kW to 50 kW



A variety of controls to match the application

• Central control using our VRF controllers or central management controllers





Summary of functions Inputs ON/OFF • Setting temperature Capacity demand • Heating / Cooling operation mode Fault information Installation requirements • Connectable VRF Series : All VRF • Connectable DX Kit system capacity range : 50 to 100 % of the outdoor unit capacity • Connectable DX Kit system capacity range with 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 2EEV units connection (option)] • Separation Tube : UTP-LX180A Control unit: UTY-VDGX EEV unit: UTP-VX30A/UTP-VX60A/UTP-VX90A



Specifications

<u> </u>	•														
EEV unit				UTP-VX30A		UTP-VX60A			UTP-\	/X90A	UTP-VX90A×2				
Power source		V/Ø/Hz		230/1/50											
Connectable cap	pacity class	kW	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0			
Capacity	Cooling		5.6 (5.1-5.9)	6.3 (6.0-7.1)	8.0 (7.2-9.0)	10.0 (9.1-11.1)	12.5 (11.2-13.2)	14.0 (13.3-18.0)	22.4 (18.1-23.7)	25.0 (23.8-28.0)	40.0 (28.1-44.7)	50.4 (44.8-50.4)			
	Heating	kW	6.3 (5.7-6.7)	7.1 (6.8-8.0)	9.0 (8.1-10.0)	11.2 (10.1-12.4)	14.0 (12.5-15.0)	16.0 (15.1-20.0)	25.0 (20.1-26.5)	28.0 (26.6-31.5)	45.0 (31.6-49.9)	56.5 (50.0-56.5)			
Airflow Rate(Rel	ference value)	m ³ /h	1,060	1,200	1,520	1,600	2,000	2,240	3,560	4,000	6,400	8,000			
Dimensions (H >	× W × D)	mm		160 × 220 × 90								(160 × 220 × 90)× 2			
Weight kg				2							2 × 2				
Connection pipe diameter			9.52	9.52	9.52 9.52		12.70	12.70	12.70	12.70					

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

Note : Specifications are based on the following conditions.

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

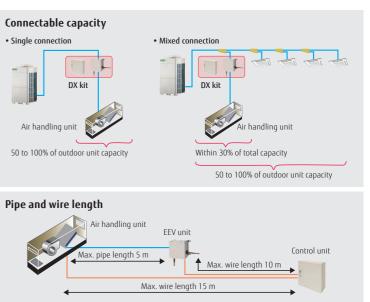




- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

Modbus Control

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





VRF OPTION

Pressure Sensor Kit Auto Louver Grille Kit CONTROL SYSTEM LIST OPTIONAL PARTS LIST OPTIONAL PARTS FUNCTION LIST SEPARATION TUBE etc.





Diverse building air conditioning control functions can be controlled easily by VRF options.

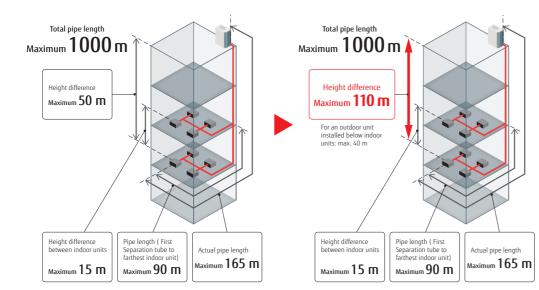
Various kinds of optional parts are provided such as controllers, adaptors and converters to meet the needs of every user.

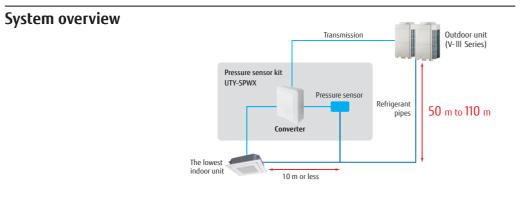
Pressure sensor kit UTY-SPWX

Design Flexibility

The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III Series, but by installing the pressure sensor kit it is possible to expand it to 110 m.

(*This product can be used connected only V-III series. Also, it is possible to use only the outdoor unit that outdoor unit software is compatible with this product. The software for outdoor unit will be changed since production lot in January 2018.)





Pressure sensor kit	Pressure sensor kit (Converter)	Refrigerant pressure sensor	Joint pipe
		<u></u>	

Specifications

Model name		UTY-SPWX
Power Supply		DC16-9
Dimensions (H x W x D)	mm	140 × 117 × 43
Weight	g	200

Auto louver grille kit utd-gxta-w/utd-gxtb-w/utd-gxtc-w

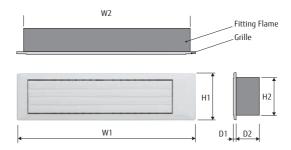


The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

Flexible Control

- 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

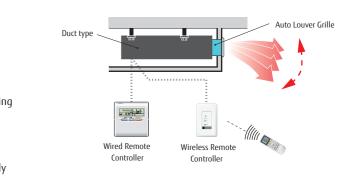


Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W					
Applicable Ind	loor Unit		ARXD07/09/12/14GALH ARXD07/09/12/14GATH ARXK07/09/12/14GCLH ARXK07/09/12/14GALH	ARXD18GALH ARXD18GATH ARXK18GCLH ARXK18GALH	ARXD24GALH ARXD24GATH ARXK24GCLH ARXK24GALH					
Power source				Connecting with Control box of indoor unit						
Fixing of Auto	Louver Grille			Screw fixing to Flange or Square Duct						
Extension Squ	are Duct Limit		1.0	Om (Max. duct length between indoor unit and Grille)						
Dimensions (H × W × D) mm		mm	180 × 683 × (84+9)	180 × 883 × (84+9)	180 × 1083 × (84+9)					
W-:	Net		2.0	2.5	3.0					
Weight	Gross	kg -	3.0	3.5	4.0					
Color			·	White						
Louver Motor				Stepping Motor						
Accessories				Fitting Flame, etc.						
	Castina	°C		18 to 32						
Operating	Cooling	% RH		80% or less						
range	Heating	°C		16 to 30						

*: The Auto Louver Grille Kit can also be installed to ARGD07/09/12/14/18/24GATH revision code B models. Please refer to the Design & Technical manual for "revision code" details.





Uni	t:	mm

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

CONTROL SYSTEM LIST

Controllers / Interface

COIII	rollers / Int	enace																	
			Indoor unit Cassette						uct			Du	act.		Indoor unit			Wall Mounted	
			4-way Compact	4-way	Cassette	Circula	Flow	Mini (With drain pump)	Mini (Without drain pump)		Slim (With drain pump)	Slim Medium us Lick as D						EEV external	-
Туре			AUXB 07/09/12/14/18/24 GALH, AUXB 09/12/14/18/24 GATH	AUXD 18/24GALH	AUXA 18/24/30/34/ 36/45/54 GALH	AUXM 018/024GTAH	AUXK 018/024/030/034/ 036/045/054 GTAH		ARXK 07/09/12/14/18/24 GALH		ARXD 07/09/12/14/18/24 GALH, ARXD 07/09/12/14/18/24 GATH	ARXA 24/30/36/45 GBLH, ARXA 24/30/36/45 GBTH	ARXC 36/72/90 GBTH, ARXC 96GATH	ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, ASHA 07/09/12/14 GATH	ASHE 07/09/12/14 GACH	ASHA 18/24/30 GACH, ASHA 18/24/30 GATH
Controller	Vired Remote – Controller					• UTY-RNRGZ5			UTY-RNRGZ5										
5	Controller					UTY-RLRG									• UTY-RLRG				
	Compact Vired Remote Controller	1000 1000 1000 1000 1000 1000 1000 100			ι	• ITY-RCRGZ1, UTY-RCRGZ1K									UTY-RCRGZ1, UTY-RCRGZ1k	(
:	imple Remote Controller	2-wire type			UTY-RSRC	• i, UTY-RHRG, UTY-RSKG, U	TY-RHKG							UTY-RSF	• RG, UTY-RHRG, UTY-RSKG, U	TY-RHKG			
	Vireless Remote Controller					UTY-LNHG									• UTY-LNHG				
	Central Remote Controller	$= \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$				• UTY-DCGGZ3					● UTY-DCGGZ3								
	ystem ontroller, system ontroller Lite	-	UTY-APGXZ1, UTY-ALGXZ1								UTY-APGXZ1, UTY-ALGXZ1								
	R Receiver Jnit			UTY-LRHGB1	1	UTY-LI			• I-YWC		UTB-YWC								
Interface	BACnet Gateway					• UTY-ABGXZ1, UTY-VBGX					UTY-ABGXZ1, UTY-VBGX								
	Vetwork Converter or LONWORKS	\checkmark				UTY-VLGX					UTY-VLGX								
	MODBUS Converter					UTY-VMGX									UTY-VMGX				
	MODBUS nterface			● FJ-RC-MBS-1					• MBS-1		FJ-RC-	• MBS-1	FJ-RC- (ARXC45/60/72/	MBS-1 90/96GATH only)			● FJ-RC-MBS-1		
	(NX Convertor					UTY-VKGX		1							UTY-VKGX				
	KNX nterface			● FJ-RC-KNX-1i					KNX-1i		FJ-RC-	• KNX-1i	FJ-RC-	KNX-1i 90/96GATH only)			• FJ-RC-KNX-1i		
	Vireless AN nterface	_		FJ-RC-WIFI-1							FJ-RC-WIFI-1 FJ-RC-WIFI-1 (ARXC45/60/72/90/96GATH only) ●								
	External Switch Controller					UTY-TERX									UTY-TERX				
-	Network Converter for single split	DC Power Supply Type AC Power Supply Type				UTY-VTGX, UTY-VTGXV									UTY-VTGX, UTY-VTGXV				
	Thermostat Converter					UTY-TTRXZ1									UTY-TTRXZ1				

OPTIONAL PARTS LIST

Others Indoor unit Indoor unit Cassette Slim (With drain pump) ARXD 07/09/12/14/18/24 GALH, ARXD 07/09/12/14/18/24 GATH Ceiling / Floor Medium Static Pressure Mini (With drain purr Mini (Without drain pun AUXB 07/09/12/14/18/2 GALH, AUXB 09/12/14/18/24 GATH ARXA 24/30/36/45 GBLH, ARXA 24/30/36/45 GBTH Туре ARXC 36/72/90 GBTH, ARXC 96GATH AUXA 18/24/30/34/ 36/45/54 GALH AUXK 018/024/030/034 036/045/054 GTAH ARXK 07/09/12/14/ GCLH ARXK 07/09/12/14/18/2 GALH ARXC 45/60/72/90 GATH ABHA 12/14/18/24 GATH AUXM 018/024GTAH Others Human Sensor Kit 0 ۲ UTY-SHZXC Remote Sensor Unit New amenity space can be offered by installing the Remote sensor. • • UTY-XSZX UTY-XSZX UTG-UFGC-W UTG-UGGA-W ٠ • ٠ Cassette Grille UTG-UKGD-W UTG-UKGA-B UTG-UGGA-W UTG-UFGC-W UTG-UKGD-W UTG-UKGA-E • • Auto Louver Grille Kit UTD-GXTA-W UTD-GXTB-W(18) UTD-GXTC-W(24) UTD-GXTA-W UTD-GXTB-W(18) UTD-GXTC-W(24) Long Life Filter • • UTD-LF25NA UTD-LF60KA(36/45/60) • $0 \square$ Flange UTD-SF045T UTD-RF204 Drain Pump Unit a 🐝 • UTZ-PX1NBA Panel 600 (mm) • Wide Panel • UTG-AKXA-W UTG-AGYA-W UTG-AKXA-W • 242 ٠ Panel Spacer UTG-BKXA-W UTG-BGYA-W UTG-BKXA-W Panel snaces For Compact Cassette Air Outlet Shutter Plate • UTR-YDZK ٠ • For Cassette UTR-YDZB UTR-YDZK For Compact Cassette type / Cassette type Insulation for High Humidity • • • UTZ-KXGC UTZ-KXRA UTZ-KXRA **S** Pressure Sensor Kit for V-III Series*

AJH__LN**H : AJH__LNTDH, AJH__LNLBH

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Outdoor unit

				Outdoor unit
Ceiling	-	Wall Mounted EEV external	-	V-III Tropical
ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, ASHA 07/09/12/14 GATH	ASHE 07/09/12/14 GACH	ASHA 18/24/30 GACH, ASHA 18/24/30 GATH	AJH 072/090/108/ 126/144/162 LN★*H
UTD-RF204				
UTR-DPB24T				
				UTY-SPWX

OPTIONAL PARTS

Controllers

For Individual Control

Wired Remote Controller (Touch Panel)	Wired Remote Controller	Compact Wired Remote Controller		
UTY-RNRGZ5	UTY-RLRG	UTY-RCRGZ1		
Image: Contract of the second secon				
Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller		
UTY-RCRGZ1K	UTY-RSRG	UTY-RHRG		
	With operation mode	Without operation mode		
Wireless Remote Controller	IR Receiver Unit	IR Receiver Unit		
UTY-LNHG	UTB-YWC	UTY-LRHGB1		
	For All Duct types except Large Airflow Duct	For Cassette type		
IR Receiver Unit	Human Sensor Kit			
UTY-LBHXD	UTY-SHZXC			
For Circular Flow Cassette type	For Circular Flow Cassette type			
0.	0			

For Centralized Control

FOI CEITUAIIZEU COITU	01	
Central Remote Contr	oller	System Controller Lite Software
NEW UTY-DCGGZ3		UTY-ALGXZ1
		WHITE-USB-KEY (Software Protection Key)
		Option UTY-PLGXR2 UTY-PLGXA2 UTY-PLGXE2 UTY-PLGXX2

System Controller Software
UTY-APGXZ1
WHITE-USB-KEY
(Software Protection Key)
Option

UTY-PEGXZ1

Converters / Adaptors

For External device / System expansion

BACnet [®] Gateway Software	BACnet [®] Gateway Hardware	Network Converter
UTY-ABGXZ1	UTY-VBGX	for LonWorks®
WHITE-USB-KEY (Software Protection Key)		UTY-VLGX
	annum	
MODBUS® Converter Hardware	MODBUS [®] Interface	KNX [®] Convertor for VRF Hardware
for VRF UTY-VMGX	FJ-RC-MBS-1	UTY-VKGX
	Ar Law CC Interstand Read Interstand Read Interstand Read Interstand Read Interstand Read Interstand Read Interstand Read Interstand Read	
KNX [®] Interface	Wireless LAN Interface	Network Converter
FJ-RC-KNX-1i	FJ-RC-WIFI-1	for single split
		UTY-VTGX DC power supply type
	interstations"*	
Network Converter	Network Converter	External Switch Controller
for single split	for Group Remote Controller	UTY-TERX
UTY-VTGXV AC power supply type	UTY-VGGXZ1	
Signal Amplifier	Thermostat Converter	Pressure Sensor Kit
UTY-VSGXZ1	UTY-TTRXZ1	for V-III tropical Series*
		UTY-SPWX

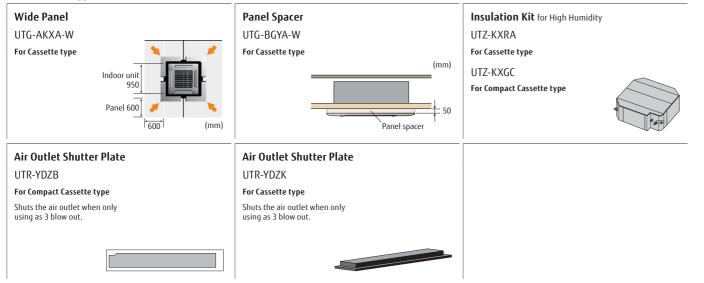
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OPTIONAL PARTS

Cassette Grille Cassette Grille

Others

For Cassette type



Others For Duct type Flange (Round) Flange (Square) UTD-SF045T UTD-RF204 For Medium Static Pressure Duck For Medium Static Pressure Duct type / Ceiling type Auto Louver Grille Kit Long-Life Filter UTD-GXTA-W (for ARXD07/09/12/ UTD-GXTB-W (for ARXD18, ARXK1 UTD-LF25NA UTD-LF60KA For Medium Static Pressure Duct type For High Static Pressure Duct type UTD-GXTC-W (for ARXD24, ARXK For Slim Duct type / Mini Duct ty

Communication system: External Connect Kit

;	UTY-XWZXZD	
	UTY-XWZXZE	
ote Controller	For Touch Panel	Controll
	UTY-XWZXZA	
	te Controller	UTY-XWZXZE

For Ceiling type

Drain Pump Unit UTR-DPB24T For Ceiling type

	Remote Sensor Un	it				
	UTY-XSZX					
t type	For All Duct type					
	New amenity space can b offered by installing the Remote sensor.	De				
	Drain Pump Unit					
2/14, ARXK07/09/12/14) K18)	UTZ-PX1NBA For Medium Static Press	uro Duct				
(24)	FOI MEDIUIII SCACE FIESS					
уре						
		1. I				
	For Outdoor unit					
	UTY-XWZXZ6					
	UTY-XWZXZ9					
	UTY-XWZXZF					
ler						

FUNCTION LIST

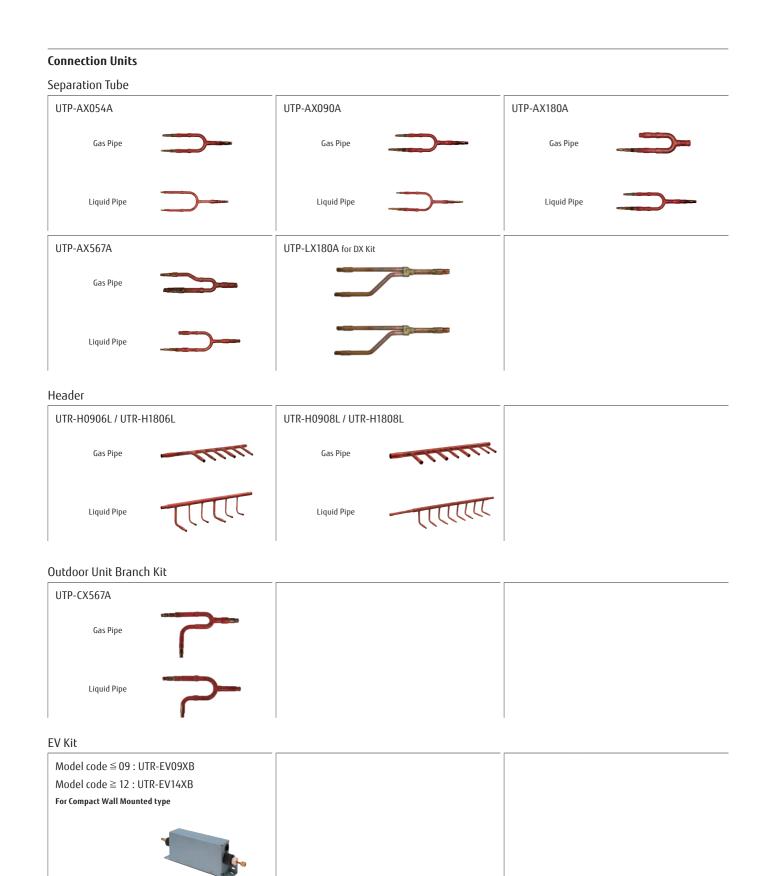
		Indoor unit									Indo	or unit				
				Cassette				1	Duct			Duct				Wall Mou
		4-way Compact		way	Circula	ar Flow	Mini (With drain pump)	Mini (Without drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	High Static Pressure	Ceiling / Floor	Ceiling		EEV exter
Тур		AUXB 07/09/12/14/18/24 GALH, AUXB 09/12/14/18/24 GATH	AUXD 18/24GALH	AUXA 18/24/30/34/ 36/45/54 GALH	AUXM 018/024GTAH	AUXK 018/024/030/034/ 036/045/054 GTAH	ARXK 07/09/12/14/18/24 GCLH	ARXK 07/09/12/14/18/24 GALH	ARXD 07/09/12/14/18/24 GALH, ARXD 07/09/12/14/18/24 GATH	ARXA 24/30/36/45 GBLH, ARXA 24/30/36/45 GBTH	ARXC 36/72/90 GBTH, ARXC 96GATH	ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, ASHA 07/09/12/14 GATH	ASHE 07/09/12 GACH
Input	Operation / Stop					●UTY- ○UTY-	XWZXZD XWZXZB							OUTY-3 OUTY-3	XWZXZD XWZXZB	
	All On / All Off															
	Group Stop															
	Forced Stop		1	1	1	OUTY-	XWZXZD XWZXZB	1	1	I	1		1	OUTY-	xwzxzd xwzxzb	,
	Emergency Stop	•UTY-XWZXZD •UTY-XWZXZD •UTY-XWZXZB •UTY-XWZXZB														
	Forced Thermostat off	OUTY-XWZXZE OUTY-XWZXZE OUTY-XWZXZ7 OUTY-XWZXZ7														
	Low Noise Mode Operation															
	Cooling/ Heating Priority															
	Outdoor Unit Operation Peak Control															
	Power Usage Information from Electricity Meter															
Output	Operation Status	us OUTY-XWZXZC OUTY-XWZXZC														
	Error Status	•UTY-XWZXZC •UTY-XWZXZC														
	Indoor Unit Fun Operation Status	n outy-xwzxzc outy-xwzxzc														
	Auxiliary Heater Output								●UTY-XWZXZC			•UTY-XWZXZC				
	Base Heater															

		Outdo	Controller	
nted		J-III Tropical	V-III Tranical	Central Remote Controller
/14	– ASHA 18/24/30 GACH, ASHA 18/24/30 GATH	AJH 040/045/054 LBTBHN, AJH 040/045/054 LETBHN	AjH 072/090/108/ 126/144/162 LNTDH	UTY-DCGGZ2
				●UTY-XWZXZ7 ○UTY-XWZXZ8
			●UTY-XWZXZ6	
			●UTY-XWZXZ6	● UTY-XWZXZ7 ○ UTY-XWZXZ8
			●UTY-XWZXZ6	
			●UTY-XWZXZ6	
			●UTY-XWZXZF	
			⊖UTY-XWZXZ6	outy-xwzxza
			OUTY-XWZXZ6	outy-xwzxza
			● UTY-XWZXZ9	

•: Dry Contact O: Apply Voltage

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SEPARATION TUBE etc.



Specifications

Separation Tube								
Model name		UTP-AX054A	UTP-AX090A UTP-AX180A		1	UTP-AX567A		
Total cooling capacity of indoor unit	kW	19.6 or less		28.0 or less 28.1 to 56.0			56.1 or more	
Model name		UTP-BX090A		UTP-B	X180A		UTP-BX567A	
Total cooling capacity of indoor unit	kW	28.0 or less		28.1 t	o 56.0		56.1 or more	

Header

Model name	3-6 Branches		UTR-H0906L	UTR-H1806L
model frame	3-8 Branches		UTR-H0908L	UTR-H1808L
Total cooling capacity o	tal cooling capacity of indoor unit kW		28.0 or less	28.1 to 56.0
Model name	3-6 Branche	es	UTP-J0906A	UTP-J1806A
modername	3-8 Branche	es	UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit kW		kW	28.0 or less	28.1 to 56.0

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-III Tropical)
Model name	2 outdoor units	1
	3 outdoor units	2

EV Kit		
Model name	UTR-EV09XB	UTR-EV14XB
Application Model	ASHE007GTAH ASHE009GTAH	ASHE012GCAH ASHE014GCAH

Reducer kit

Model name	UTP-NX18A	UTP-NX54A
Applicable Model	AUXK018GTAH AUXM018GTAH AUGK018GTAH AUGM018GTAH	AUXK036/045/054GTAH AUXM036/045/054GTAH

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SUPPORT

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

Support

HVAC system design support tool

Quick service & maintenance

Service tool

Web monitoring tool

Category		Information Material Tool														
	Product Sales Training Material	Product Technical Training Material	Product news	Brochures	Feature Promotion Movie	Operating Manual	Design & Technical Manual	Certificate Data	2D CAD Data	3D CAD (Revit) Data	Installation Manual	Service Manual	Design Simulator (Room air conditioner, Packaged air conditioner, VRF)	CFD Simulation	Service Tool / Web Monitoring Tool	Mobile Technician
Product Training	•	•														
Product Information Seek			•	•	•	•	•									
Technical Information Seek							•	•								
Model Selection							•						•			
Design							•		•	•						
Verification														•		
Installation							•				•					
After sales and Service												•			•	•





Support

Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities.

We provide a wide range of support to maintain high quality from design to installation.

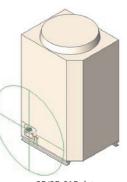


Technical information

We provide equipment selection software that facilitates the design of air conditioning systems by providing performance data for the units and estimation for model selection.

Features

- Design & Technical manuals
- Model selection & estimation
- Certification data
- 2D/3D CAD data



2D/3D CAD data

Product information

Information on new models is provided in the form of documents and movies in a timely manner for release, readily downloadable from the private section of our website. Contact your Fujitsu General representative for access information

Features

- Product news
- Brochures & manuals
- Promotional movies



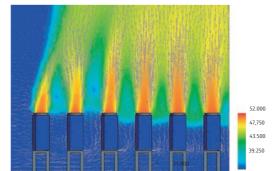
https://www.fujitsu-general.com/g-eu/support/downloads/vrf/

Technical support

Technical support is offered at every stage, from design through to installation, to assist in optimizing air conditioning solutions.

Features

- CFD simulation
- Guidelines
- Commissioning support

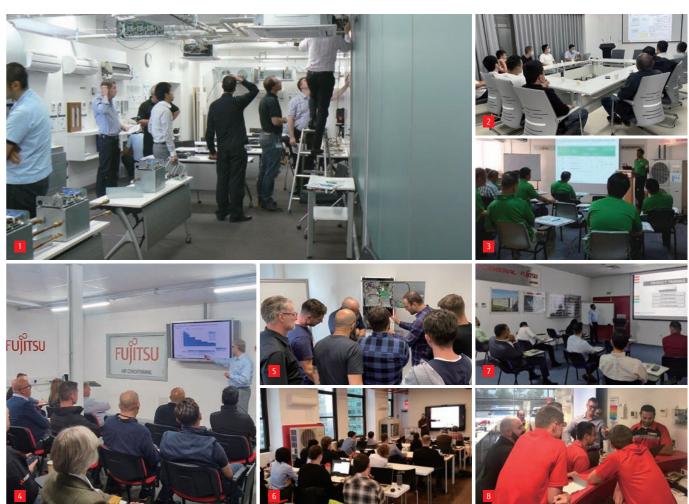


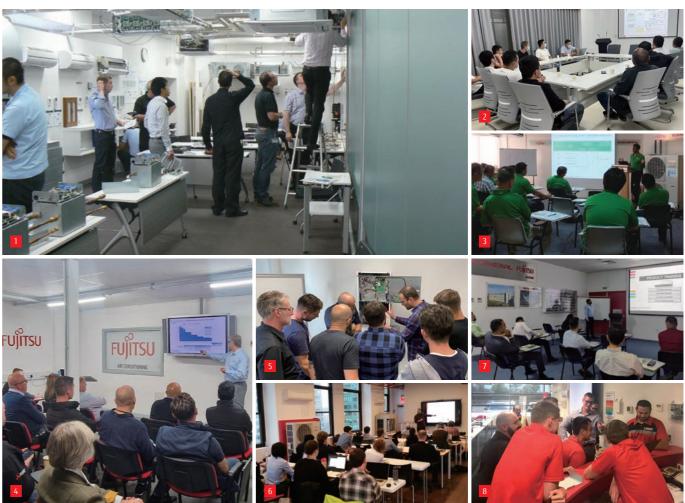
CFD simulation



Commissioning support



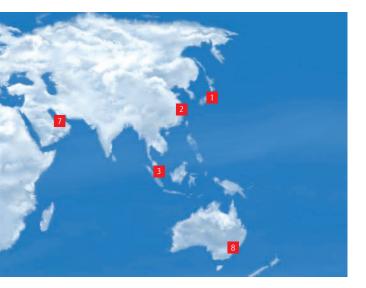




Fujitsu General regularly provides professional product, technical and service training at its training facilities worldwide. These research facilities also support the development of human resources with advanced technical skills.

Features

- Designing VRF systems
- On-site training for control systems



1 Head office training center in Japan 2 Training center in China ³ Asia training center in Singapore 4 Europe training center in the United Kingdom ⁵ Europe training center in Germany ⁶ America training center in the United States 7 Middle East training center in the UAE 8 Oceania training center in Australia

HVAC system design support tool

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

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

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

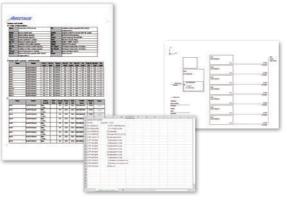


Design simulator

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Automatically create model selection information

- The required performance, type, and temperature conditions for each indoor unit are entered and then dragged and dropped onto the outdoor unit to automatically set each unit.
- Creates piping and wiring diagrams automatically to facilitate branching, grouping, and option settings.
- The additional refrigerant charging is automatically calculated when the pipe length is entered.
- Easy configuration of remote controller groups, central controller, and converters.
- The equipment list including the equipment information is created automatically.



Outputs in the format that matches the application

You can export your project information in a number of industry standard file formats.

- Word format (rtf) (doc)
- Excel format (csv)
- Acrobat format (pdf)
- 2D CAD data (DXF)



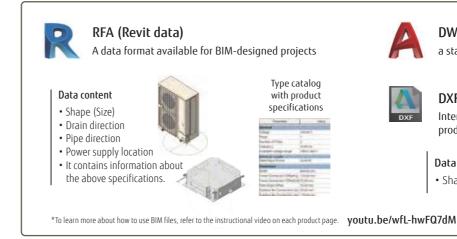
Update your Design simulator

The database can be updated easily online with the AutoUpdate function using FTP.

BIM Building information modeling

BIM files of Fujitsu General's products are available on BIMobject®

BIM objects fo A 💺 A Fujitsu General is releasing BIM files of our products on the BIMobject® website A . BIMobject.com. 0 ... Outline of BIMobject® BIMobject[®] is a game changer for the construction industry, offering development, maintenance, and syndication of objects on the world's largest BIM platform. bearing the 0-About BIM files 0 === 5---• BIM files can be viewed in Autodesk Revit® 2018 version or later. • In each BIM file, the location of the connectors for the refrigerant and drain pipe is different. • Each BIM file includes several family types. • A catalog and specification sheet is available in Revit file format for each product. induct o the start of FUJITSU SPLIT ABYG24-30KRTA





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DWG

a standard data format used for Autodesk products



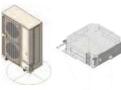
DXF

Intermediate data commonly available in CAD products

Data content

• Shape (Size





Quick service & maintenance

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



Easy maintenance & monitoring

Designed for easy maintenance

The operating status of the air conditioner and detailed trouble conditions are displayed on the 7-segment indicator lamp on the outdoor unit printed circuit board (PCB) and on the screen of the remote controller.

Check the status of the unit quickly for a prompt response.

- Display the operation mode at the time.
- Discharge temperature and pressure
- Compressor operation status
- "Address/Type/Number" of the outdoor unit
- Error code

Error diagnosis by Service tool

Connect Service tool to check the status details of units, from single split to VRF, on a computer screen. Check the errors quickly for prompt countermeasures.

- Operating status/control
- Monitoring operating conditions
- Monitoring sensor data
- Indicating trend graphs
- Error history
- Indicating refrigerant circuit diagrams (for VRF)

Remote monitoring

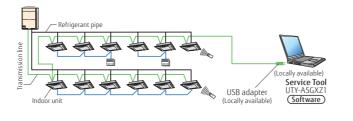
VRF system operating status and trouble status details can be monitored remotely at any time via the internet. Prompt coordination is available with service personnel.

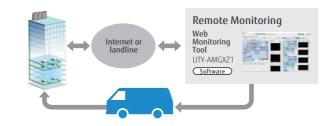




Unit n







Mobile troubleshooting App for iOS and Android TM devices

We will release an App for troubleshooting tools for iPhone, iPod touch and other Apple devices, and Android products for Fujitsu General air conditioners (Room air conditioner/ Packaged air conditioners VRF and ATW, "AIRSTAGE Mobile", and R32 calculation of allowable refrigerant capacity)

Use Error Code Check, Troubleshooting, and Sensor Check to understand the status of your air conditioner.



Service monitoring tool for Single split, Multi-split & Air to water



- It is not always easy to read the temperature sensor and know the status of the
- control components. So let the Service monitoring tool judge them. Visualizes protected operations
- Troubleshoots intermittent problems effectively
- Provides proof of normal operation to customers during periodical maintenance

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Actual operating conditions

Dimensions (H × W × D) (mm)	
Weight (g)	





• A quick overview of the temperature sensor readings and the electronic expansion valves (EEVs), fans, compressors and other control components

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Operational histories

UTY-ASSX						
60 × 160 × 160						
500						

Service tool UTY-ASGXZ1

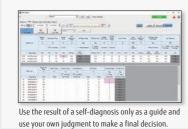
Extensive monitoring and analysis functions that make installation and maintenance easier

- The operation status of the system can be monitored and analyzed to detect any malfunctions.
- Data on the operation status of the system can be stored on a computer to allow for remote access.
- Up to 400 indoor units in a single VRF network system can be controlled and monitored for a large building or hotel.
- This software can be connected to any point of transmission line with a USB adapter (locally available).
- * Saved data can be displayed offline. Note that the data saved by the following software applications cannot be displayed.
- UTR-YSTB/UTR-YSTC (Service tool)
- UTR-YMSA (Web monitoring tool)

Automatic operation check for refrigeration cycles

Once installed, the Service tool automatically checks for refrigeration cycles. The self-diagnosis function determines whether each sensor value is normal, which reduces the need for manual checks. The result of a diagnosis can be provided in a report.





These sensor values are checked automatically:

✓ the discharge temperature is normal, "OK" the super heat volume is normal, "OK' \checkmark the high pressure pipe value is normal, "OK"

the low pressure pipe value is normal, "OK And the values for other items will also be diagnosed.



Remote technical support and maintenance

On-site check screen can be shared between on-site staff and a service technician in a remote location. When a service technician visits the site for troubleshooting, the system's operation status can be shared in real time with a remote service center for assistance. On-site staff can have an online chat with a remote service center to get further assistance.

Trend charts

Previous-generation application could display only 3 sets of data from sensors. However, the current generation of the service tool displays multiple charts simultaneously so that refrigeration cycles can be monitored and checked in greater detail.





Computer requirements

	UTY-ASGXZ1					
Operating system	 Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Pro (32-bit or 64-bit) 					
CPU	1 GHz or higher					
Memory	1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])					
HDD	40 GB or more of free space					
Screen resolution	1366 × 768 pixels or higher					
Interface	USB port for U10 USB Network interface and software protection key					
Software	Internet Explorer® 11 or Microsoft Edge					

Packing list

Name	Quantity	Application
White-USB-key (Software protection key)	1	Software protection key to be connected to a USB port on a Service tool-installed computer. This software runs only on a computer with WibuKey.
•Computer requirements		

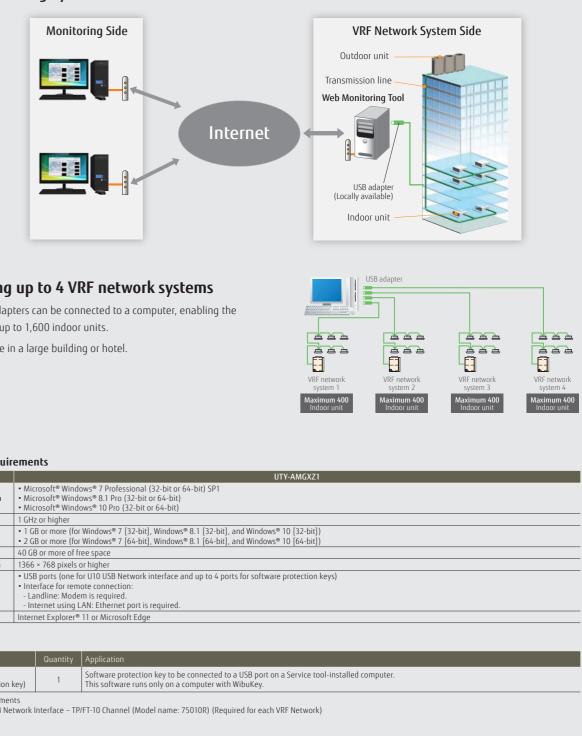
•Echelon® U10 USB Network Interface - TP/FT-10 Channel (Model namer: 75010R) (Required for each VRF Network)

Web monitoring tool UTY-AMGXZ1

Features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during a periodical system check.
- An error notification is automatically transmitted to several locations via the internet*1.
- Requires either a dedicated internet connection or landline to operate.
- mode.
- Can be viewed on the monitoring computer's Web browser without installing any special software.

Web Monitoring System



Supporting up to 4 VRF network systems

Up to 4 USB adapters can be connected to a computer, enabling the monitoring of up to 1,600 indoor units.

Suitable for use in a large building or hotel.

Computer requirements

	UTU
Operating system	Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	 1 GB or more (for Windows[®] 7 [32-bit], Windows[®] 8.1 [32-bit], and Windows[®] 1 2 GB or more (for Windows[®] 7 [64-bit], Windows[®] 8.1 [64-bit], and Windows[®] 1
HDD	40 GB or more of free space
Screen resolution	1366 × 768 pixels or higher
Interface	USB ports (one for U10 USB Network interface and up to 4 ports for software p Interface for remote connection: Landline: Modem is required. Internet using LAN: Ethernet port is required.
Software	Internet Explorer® 11 or Microsoft Edge

Packing list

,		
Name	Quantity	Application
White-USB-key (Software protection key)		Software protection key to be connected to a USB port on a S This software runs only on a computer with WibuKey.
<i>c</i>		

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

• The occurrence of an error can be confirmed through an error alert and equipment status information obtained from a remote location. • Monitoring data can be downloaded in a remote location. These data can be accessed and displayed even when the service tool is in offline

*1: Internet e-mail access required.

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