GENERAL Air Conditioning Manufacturing (Thailand) Co., Ltd.
ISO 9001 Certification number: 74 210 0026
ISO 14001 Certification number: 74 220 0026

GENERAL Air Conditioning Manufacturing (Shanghai) Co., Ltd.
ISO 9001 Certification number: 01 100 79269
ISO 14001 Certification number: CN058833

GENERAL Air Conditioning Manufacturing (Wuxi) Co.,Ltd.
ISO 9001 Certification number: 15923Q20100R7M
ISO 14001 Certification number: 15924E20048R7M

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www.general-hvac.com

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VRF CATALOGUE 2026 for Middle East GENERAL Inc.



VRF CATALOGUE 2026

for **Middle East**



Creating a Life Conditioner

What we strive to support and protect
is the comfort of our loved ones and family.
We are also committed to protecting people
from the effects of disaster-level heat and cold weather,
and to promoting the sustainable lifestyles,
and well-being of our communities.
Our wish is to keep protecting all life,
to ensure the smiles of future children,
and the health of the global environment.
In creating “air” conditioners,
we create “Life” Conditioners.



CONTENTS

OUR MESSAGE
History 004
Global Business Activities 006
Project References 008
Global Development & Production Bases 010
High-quality Development & Production Facilities 012

VRF SOLUTIONS
Our Solution for All Properties 014
Light Commercial Solutions 016
Commercial Solutions 024

VRF CORE TECHNOLOGY
Highe Energy Efficiency V-004
High Reliability V-006
Design Flexibility V-008
More Comfort V-010
Easy Installation V-012
Easy Service and Maintenance V-014

VRF OUTDOOR UNITS
VRF Lineup V-018

For **SMALL** BUILDING V-020
VRF J-III 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

For **LARGE** BUILDING V-024
VRF VC-V
Heat Pump Modular type for heating or cooling operation
8 HP - 80 HP 37 Models
• Space saving combination: 8 HP to 80 HP/37 models
• Energy efficiency combination: 16 HP to 44 HP/ 14 models

VRF V-III Tropical Series
Production 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
for VC-V
Indoor Unit Lineup V-032
• Cassette V-034
• Duct V-044
• Floor / Ceiling V-052
• Ceiling V-054
• Wall-mounted V-056
for V-III Tropical and J-III Tropical
Indoor Unit Lineup V-060
• Cassette V-062
• Duct V-070
• Floor / Ceiling V-084
• Ceiling V-086
• Wall-mounted V-088

VENTILATION
Outdoor-air Processing Unit Vn-004
DX Kit for Air handling applications for VRF Outdoor unit Vn-006

VRF CONTROL SYSTEMS
Control System Overview C-004
Best Control Solution for Each PROPERTY C-006
Comparison Table of Controllers C-008
• INDIVIDUAL CONTROLLER C-010
• CENTRALIZED CONTROLLER C-018
• CONVERTERS / ADAPTERS C-028

VRF OPTION
Pressure Sensor Kit C-034
Auto Louver Grille Kit C-035
Control System List C-036
Optional Parts List C-040
Optional Parts C-044
Function List C-048
Separation Tube C-052

SUPPORT
VRF Support Sp-004
HVAC System Design Support Tool Sp-006
Quick Service & Maintenance Sp-008
Service Tool Sp-010
Web Monitoring Tool Sp-011

NEW VRF VC-V

VRF V-III Tropical

VRF j-III Tropical



History

Overseas Air Conditioning Business since 1971
VRF Business since 2001

Our VRF Series has been developed based on our long-term air-conditioning technology knowledge. We have offered a series of products from large homes to large-scale buildings to meet the various market needs.

For Commercial Use

2007
8 to 42HP / Heat pump



VRF V

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



VRF V-II

2012
High efficiency and Compact design model
8 to 48HP / Heat Recovery



VRF VR-II

2013
Tropical spec model
Extensive lineup from 8HP to 42HP in
2HP increment / Heat pump



VRF V-II

2015
High efficiency and large capacity model.
Extensive lineup from 8HP to 54HP in
2HP increment / Heat pump



VRF V-III

2016
Tropical spec model
Extensive lineup from 8HP to 54HP in
2HP increment / Heat pump



VRF V-III

2025
High efficiency and large capacity model.
Extensive lineup from 8HP to 80HP in
2HP increment / Cooling only

NEW VRF VC-V



For Residential & Light Commercial Use

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



VRF J

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



VRF J-II

2014
High efficiency and compact design model
4HP to 6HP / Heat pump



VRF J-IIS

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



VRF J-III

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



VRF J-III

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



VRF J-IIIL

AIRSTAGE™ History

1936 Established as Yaou Shouten Ltd. - 2017

1936
Established as Yaou Shouten Ltd.

1971
Air conditioner exports to Middle East.

New Product Initiatives
GENERAL.inc introduced inverter technology which used R410A refrigerant.

Refrigerant R410A

RoHS Compliant
Restriction of Hazardous Substances (ROHS) is an EU directive on the restriction of the use of certain hazardous substances in all consumer electrical and electronic equipment.

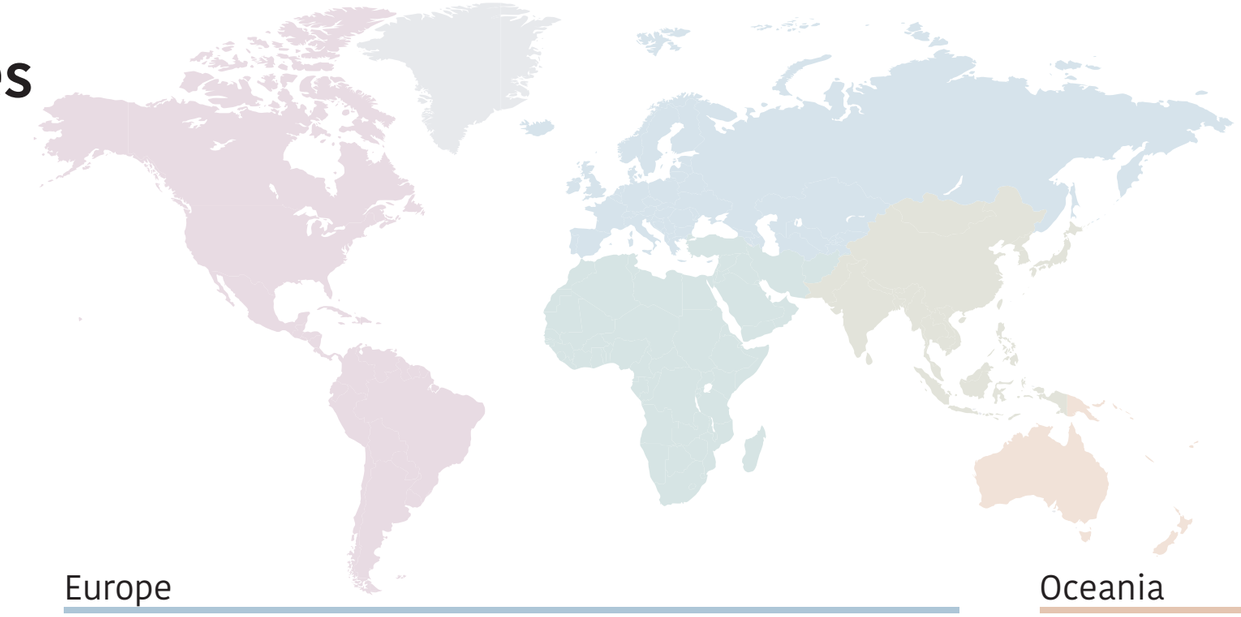
RoHS COMPLIANT

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

ALL INVERTER

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



AHR Expo



HVAC trade shows in Brazil



National distributor conference in USA



Distributor conference in USA

Middle East



Launch event in Qatar



Launch event in Qatar



HVAC Seminar in Saudi Arabia



Launch event in UAE

Europe



HVAC trade show in Germany



Installer show in United Kingdom



HVAC trade show in Greece



NATIONAL ACR & HEAT PUMP AWARDS



Training seminar in United Kingdom

Oceania



HVAC trade show in Australia



Launch event in Australia



Launch event in Australia

Asia



National Dealer Conference in China



National Dealer Conference in China



Exhibition in India



VC-V Launch Event



VC-V Seminar in Myanmar

International authoritative design awards

The NEWS Dealer Design Awards

Gold Award (Category: HVAC & PLUMBING) in Reader's Choice 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 is given annually by iF 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.

A product design competition that has been held since 1955. Products that win the award are given the "Red Dot" seal, a sign of international recognition of quality.

One of the famous design award in the world. Designs are judged on innovation and aesthetics, as well 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.

Voted by Australians as the 'Most Trusted Brand – Air Conditioning 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, Our 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.



1



2



3



4



5



6



7



8



9



10

For Light commercial use

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



11



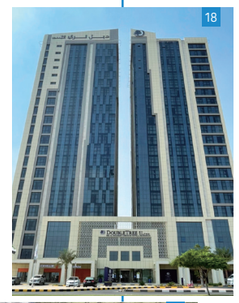
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13



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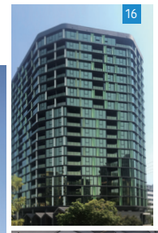
18



19



15



16



17



20

For Commercial use

11 Public Square in Asia
12 Hotel in Asia
13 Hotel in Asia
14 Public facility in Asia
15 Apartment in Oceania
16 Apartment in Oceania
17 Mixed in the Europe
18 Hotel in the Middle East
19 Residence in the Middle East
20 Showroom in Middle East



21



22



23



24



25

For Residential use

21 Villa in the Africa
22 Residence in Oceania
23 Residence in the United States
24 Villa in the Middle East
25 Residence in the Middle East

Global Development
& Production Bases

We have established R&D bases in five countries from Japan, Europe, Asia, China, and North America to pursue environmental properties and comfort according to the needs of each region.

■ • Head office
■ • R&D center
■ • Manufacturing companies



R&D Center & Technology Research Building

North America R&D Center

GENERAL Air Conditioning R&D (Shanghai) Co., Ltd.

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



JAPAN Head office, R&D center and 60 m height difference testing tower (Japan)

Constructing IoT-based manufacturing
We are implementing a real-time IoT-enabled system to immediately visualize and analyze various information such as facility operating status, assembly line production progress, and parts inventory and transportation status. This will further enhance the accuracy of production and shipping forecasts in the Head Office and factory management departments. The system will also help improve activities by employees at production sites, with the aim of improving the efficiency of the production process, the efficiency of parts distribution operations, and the utilization rates of the facilities.

Overseas Manufacturing Companies



GENERAL Air Conditioning Manufacturing (Shanghai) Co., Ltd.


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



GENERAL Air Conditioning Manufacturing (Wuxi) Co.,Ltd.


GENERAL Device Solutions Inc. (Japan)



GENERAL Air Conditioning Manufacturing (Thailand) Co., Ltd.


FGAHP



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



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

High-Quality Development
& Production Facilities

Advanced Research Facility and Equipment

General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance using these facilities.

Performance Testing



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



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



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

Reliability Testing



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

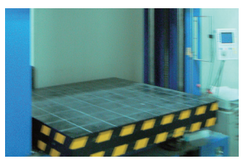


Practical Test Room
Check on whether the air conditioners performance under the actual house conditions is sustainable.

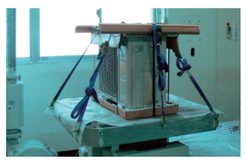


Shower Test Room
Check on whether the electrical box of the outdoor unit is protected by rain waters with Typhoon like wind.

Transportation & Handling



Compressibility testing



Vibration testing

Technology Research Building
in Japan Head office

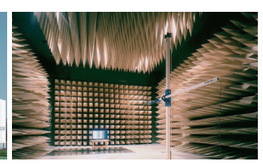


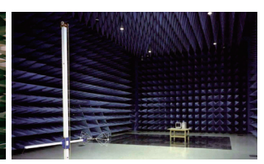
60-m Height Difference Testing Tower
Tests oil circulation in a compressor for reliability.

Testing Laboratory

GENERAL EMC Laboratory Inc.







Certification of ISO 14001 and ISO 9001

Certification of ISO 14001

The General Group has set up the "Environmental Promotion WG," led by the executive responsible for sustainability, under the Sustainability Promotion Committee. This Group deliberates issues related to the global environment, such as climate change and resource depletion, and manages countermeasures and the progress of our activities. In addition, the General Group has created an environmental management system (EMS) based on the international standard ISO14001, under which we promote environmental activities.



Certification of ISO 9001

The General Group has obtained ISO9001 certification at each division and site, and we have built a quality management system based on this certification. As part of our efforts to maintain and enhance product quality, we manage quality through all processes, from design and development to purchasing and manufacturing.

Product Quality Assurance

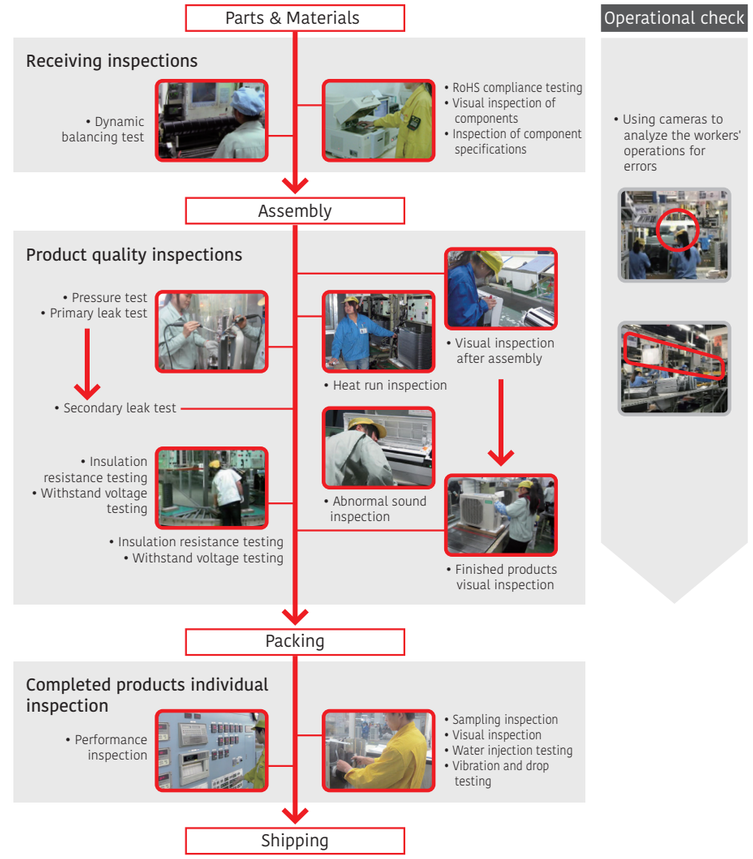
All General plants are ISO 9001 certified and operate under a unified quality control system. We deliver to customers all over the world high-quality products that have passed stringent quality inspections.

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.



Our Solution for All Properties

GENERAL Inc. provides the best solutions suitable for properties.

Solution Point

We provide General total solutions for the property unique needs.



Target Property

Light Commercial

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

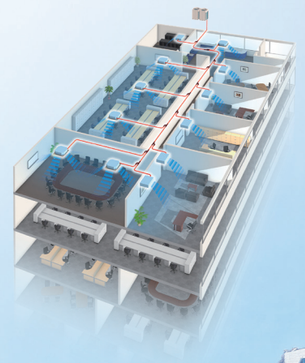
We offer comfortable and economical air conditioning systems focused on small to medium-sized buildings.



Commercial

For Large Building

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



Light Commercial

Apartment, Villa

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

Apartment





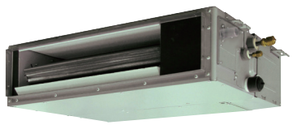
Large Space Air Conditioning in the Dining and Living Room



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

Villa



Large Space Air Conditioning in a Family Room

High Static Pressure Duct



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

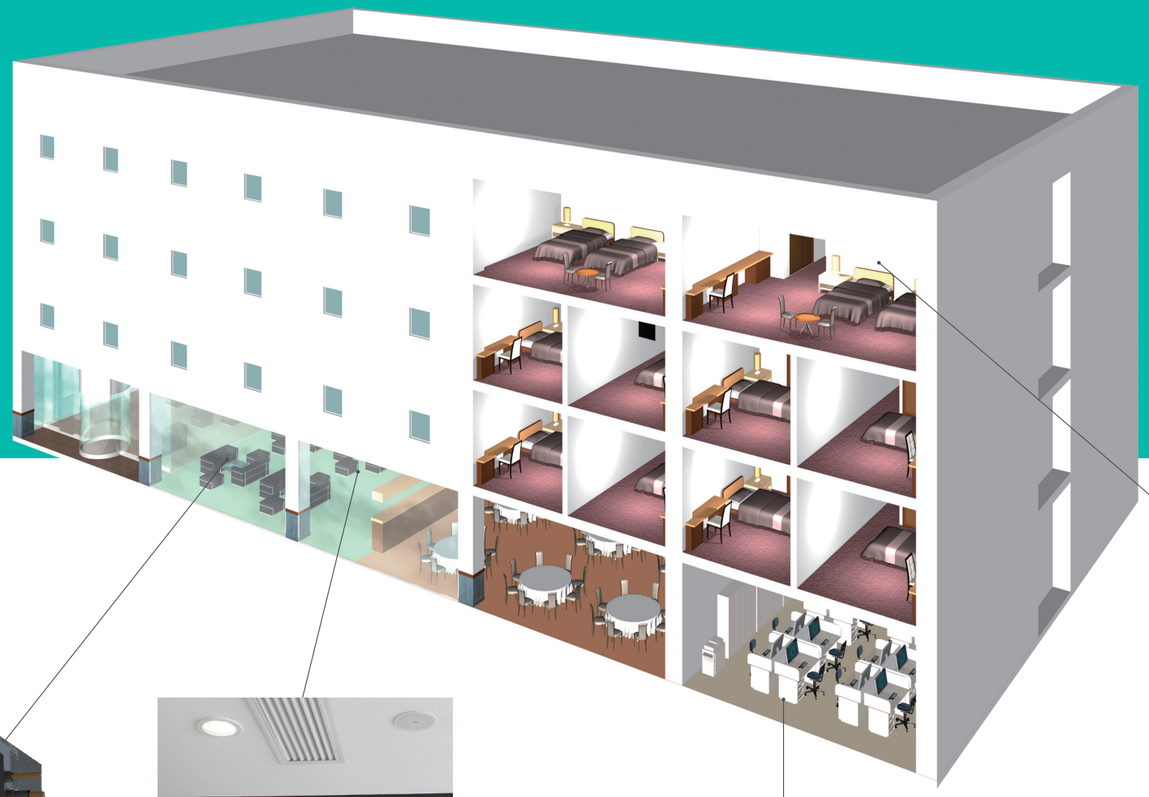


Large Wall Mounted

Light Commercial

Hotels

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





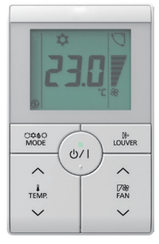
Large Space Air Conditioning in the Reception and Lobby

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



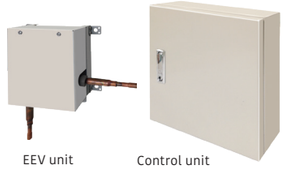
Simple Remote Controller with Sophisticated Design

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.



EEV unit Control unit



System controller

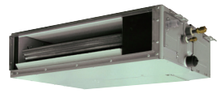


Centralized Control of Air Conditioning for Shared Spaces

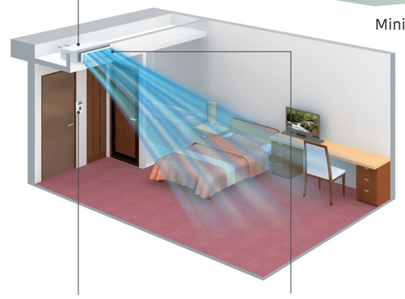
Air conditioning in shared spaces such as lobbies and hallways is controlled centrally. Temperature and operating conditions can be managed without the adjustment by guests.

Guest Room Air Conditioning with Excellent Comfort, Energy Saving, and Ease of Installation

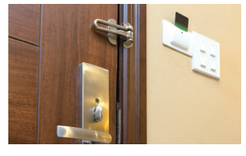
Space saving
Mini duct type with 198 mm height and 450 mm depth. This can be installed in narrow ceiling space easily.



Mini Duct



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



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.

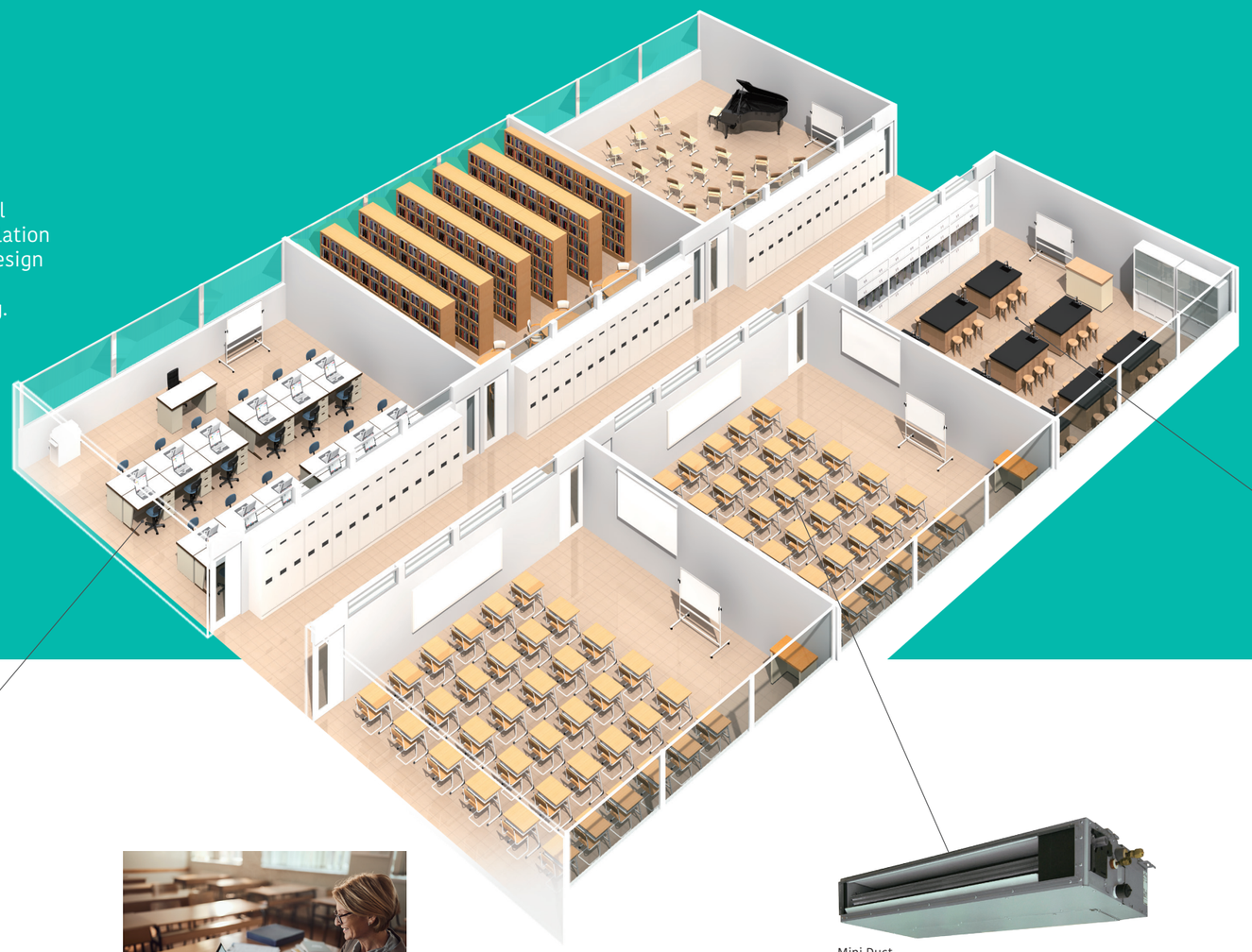


Auto Louver Grille Kit

Light Commercial

Schools

GENERAL.inc 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.





Cassette Circular Flow



Central Remote Controller UTY-DCGGZ4

LAN

PC

Wireless LAN

Router

Fixed IP, IP forwarding and open Port required

INTERNET

Tablet PC

Smartphone

iOS, Android and/or Windows



Central Remote Controller with Improved Operability

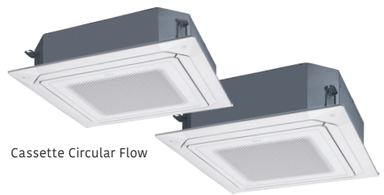
Controls the temperature of each room easily, and manages and sets the operation control for a week. Energy-saving management by setting upper and lower temperature limits and operating prohibitions.

Control and Monitoring

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



Mini Duct



Cassette Circular Flow



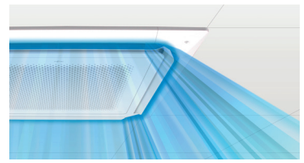
Wall Mounted

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.

Comfortable Room Air Conditioning without Airflow Sensation

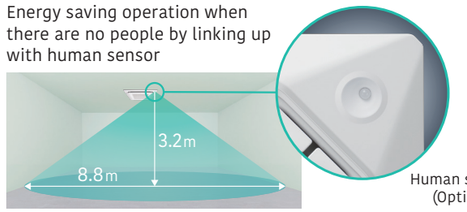
Circular Airflow Cassette blows out in all directions without temperature unevenness



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



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



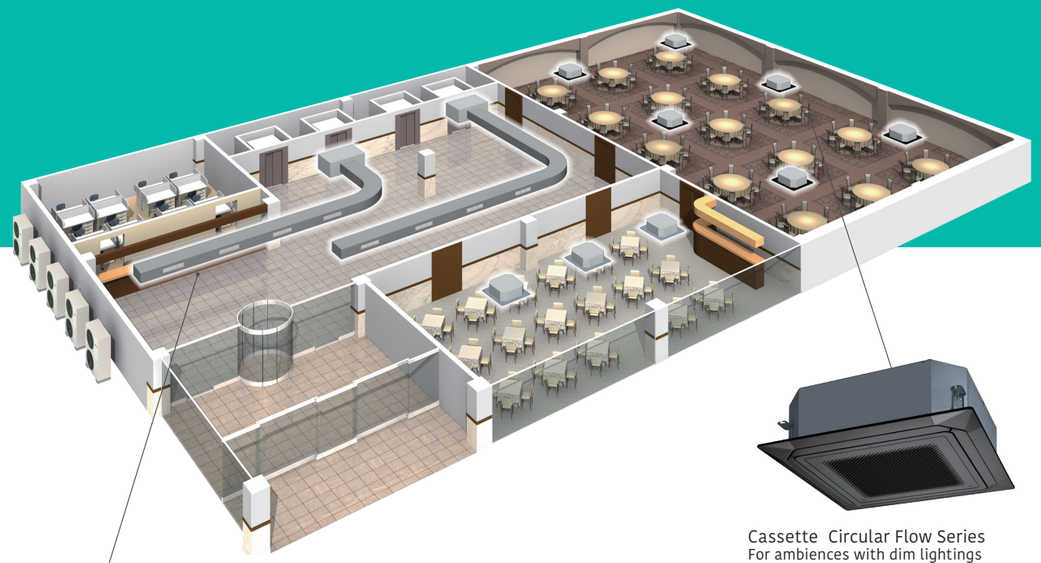
Human sensor (Option)

Light Commercial

Restaurant, Shops

GENERAL.inc 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.

Restaurants



Cassette Circular Flow Series
For ambiences with dim lightings



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)



Appropriate Air Conditioning in the Atrium Space

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

High Static Pressure Duct

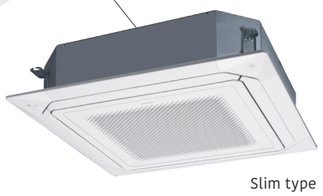


Shops

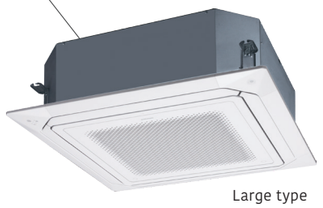




Circular Flow Cassette



Slim type



Large type



Uniform Temperature Air Conditioning

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

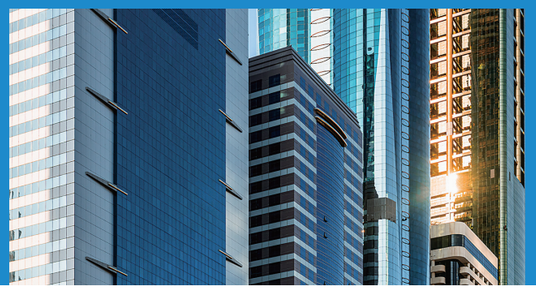


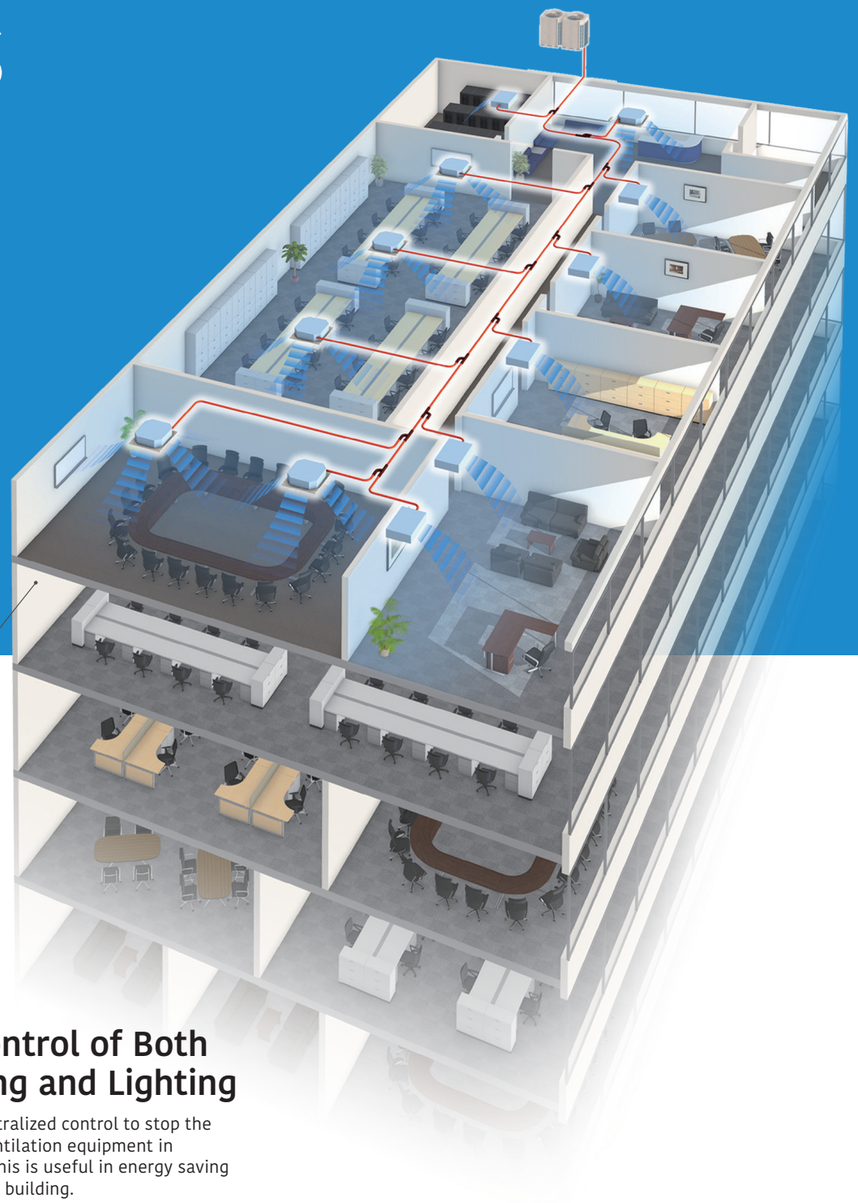


Commercial

Large Buildings

GENERAL.inc 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 cooling only models and models compatible with a high outdoor air temperature of 55°C

NEW



VRF **VC-V**

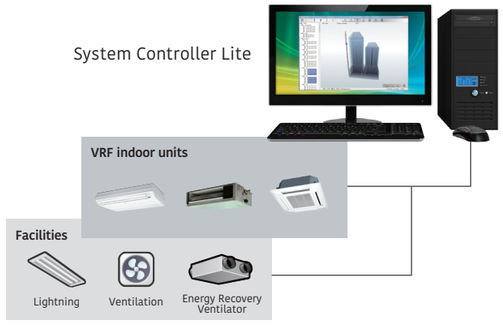
8 HP - 80 HP 37 Models

- Standard combination: 8 HP to 80 HP/37 models
- Energy efficiency combination: 16 HP to 44 HP/ 14 models

Official YouTube Channel

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.



Height Difference Up to 110 m

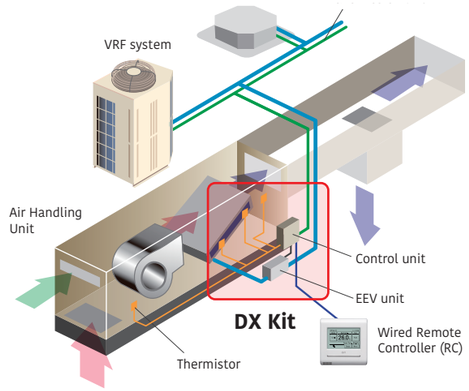
The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III Series, but by installing the pressure sensor kit it is possible to expand it to 110 m.
(*This product can be used connected only V-III tropical Series.)



Pressure Sensor Kit

Ventilation (AHU) Linked with VRF System

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

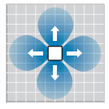


4-way Flow Cassette

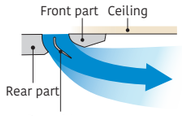


Improvement of the airflow distribution

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

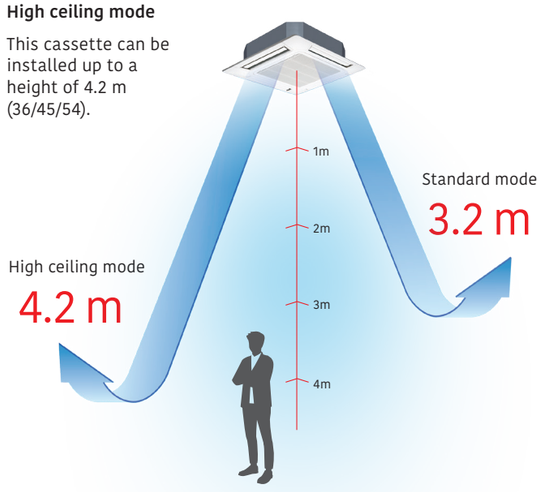


Bottom view



High ceiling mode

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



VRF CORE TECHNOLOGY

High Energy Efficiency

High Reliability

Design Flexibility

More Comfort

Easy Installation

Easy Service and 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



Highly Energy Efficiency

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

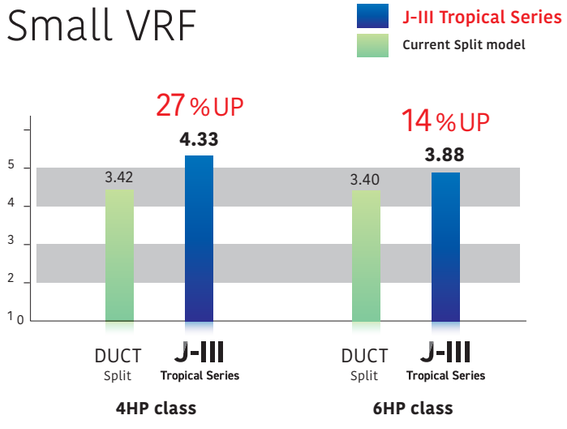


Large VRF

EER

Heat pump type	Cooling only type
V-III Tropical Series	VC-V
MAX. 4.31	MAX. 5.07
16 / 24HP class	16 / 24HP class

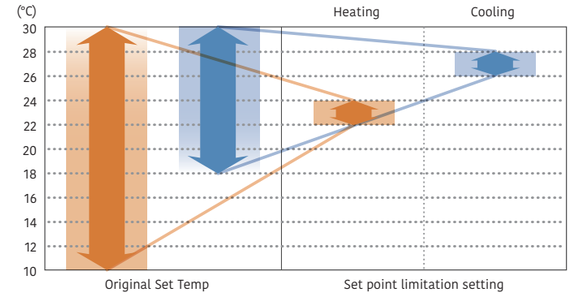
Small VRF



Operation Performance is Efficiently Controlled.

Room Temperature Set Point Limitation

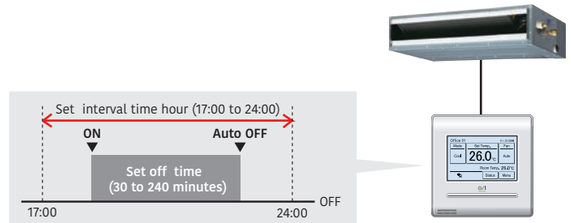
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.



Auto-off timer

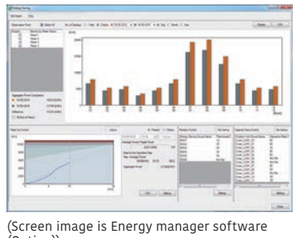
Wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy.
Furthermore a wired remote controller can set up the interval of time in case operation stops.



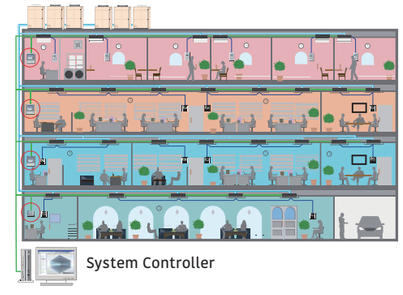


Energy-Saving Management

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.



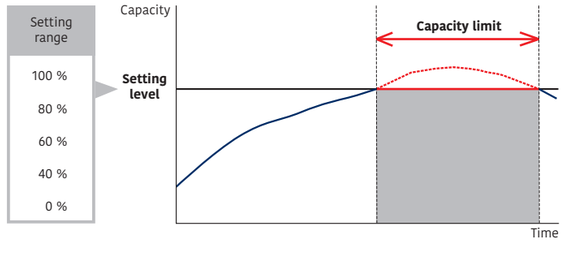
(Screen image is Energy manager software (Option))



System Controller

Capacity Limit Operation

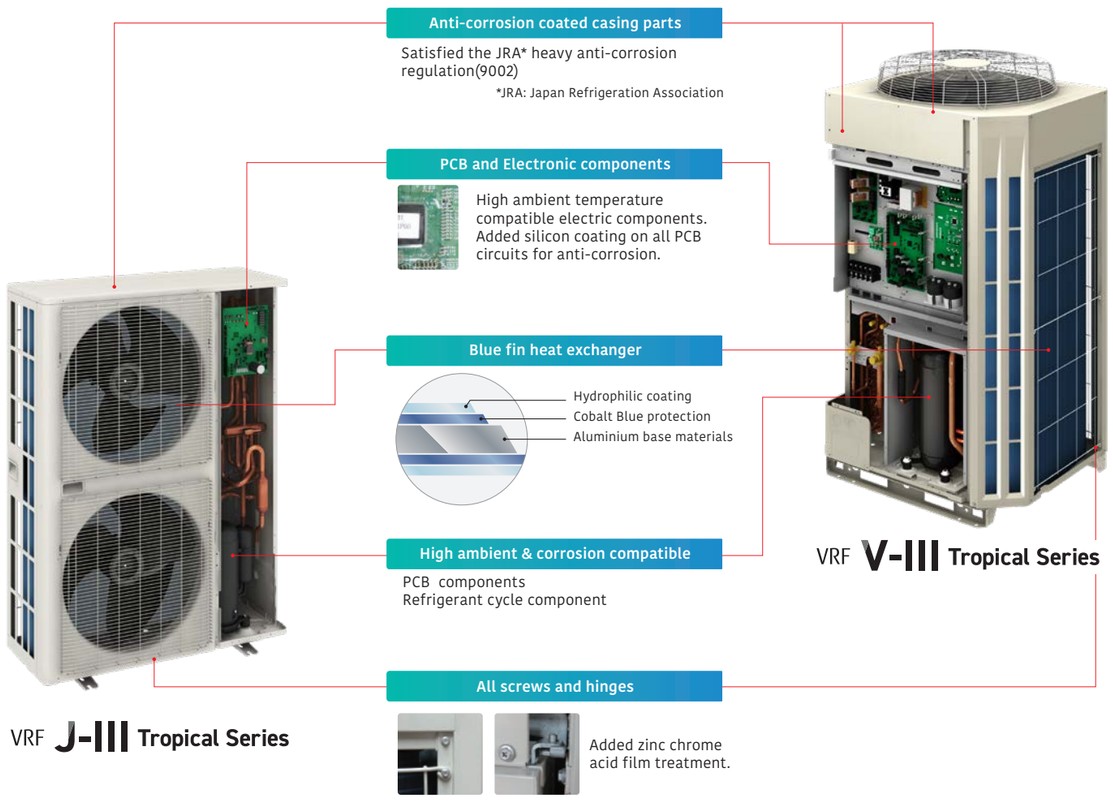
Operation capacity can be set in 5 steps for rated capability.
The power consumption at peak is cut down and the maximum load is suppressed.



High Reliability



Heavy Anti-corrosion Treatment Design

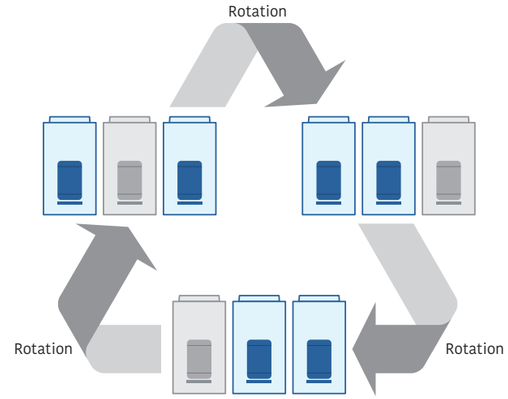


Take special notice of the following in order to enhance the anti-corrosion effect.

- 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.

Life-extending Operation

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

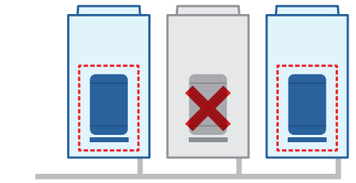


The start and stop timings are alternated among connected compressors.

Backup Operation

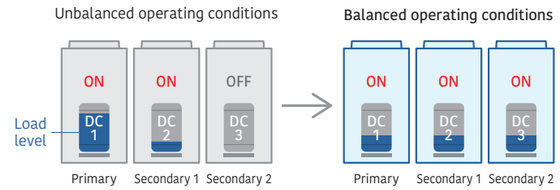
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



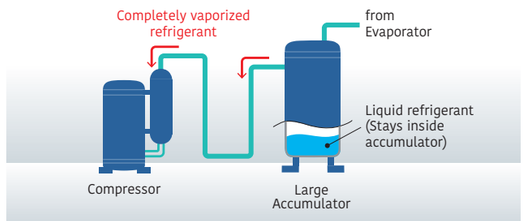
Advanced Refrigerant Control

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.

Design Flexibility



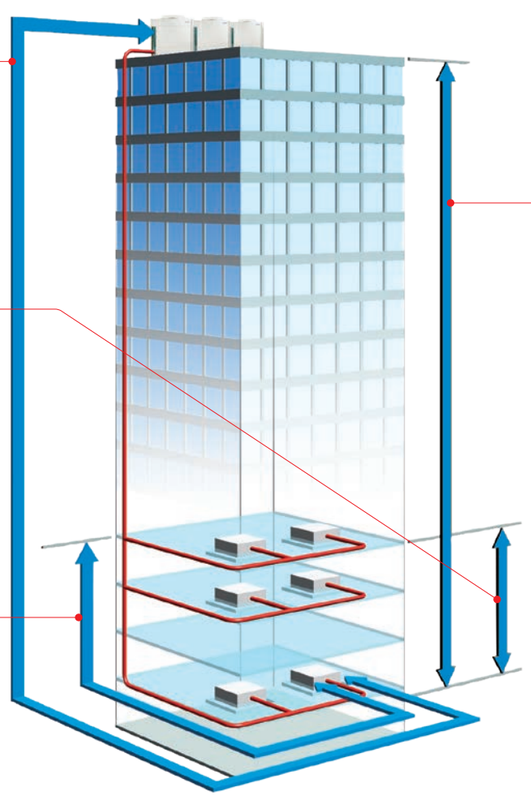
Overall Pipe Length: 1,000 m

Total pipe length
1,000 m maximum

Actual pipe length
165 m

Height difference between indoor and indoor units
50 m maximum
(VC-V)

Pipe length from first separation tube to the farthest indoor unit
90 m* maximum
*: The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60m or less.



Height difference between outdoor and indoor units
50 m maximum
(VC-V)
NOTE: Possible to extend the height difference by using option parts UTY-SPWX

For the outdoor unit installed below the indoor units:
40m maximum

Height difference
110 m maximum

Difference in height Up to 110 m

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



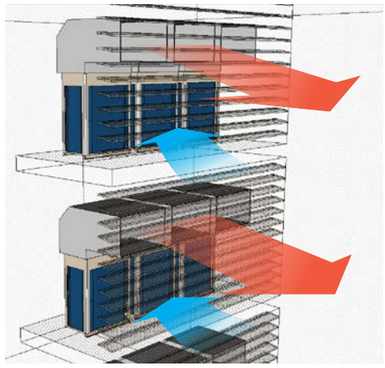
Pressure Sensor Kit

Note: J-III tropical refer to page 44.

High Static Pressure

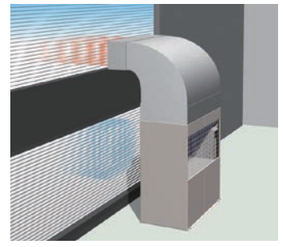
The outdoor unit can have a condenser hood easily connected with a static pressure of 82Pa.
This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge air prevents a short-circuit.

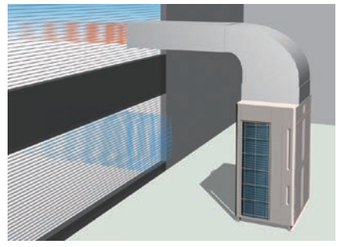


82 Pa
(V-III tropical)

Previous model



V-III tropical , VC-V



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.

High Capacity Connection

VRF VC-V

8HP-80HP
37models



Connectable indoor unit capacity range
50 % to 150 %

Connectable indoor unit number
up to 64

VRF V-III Tropical Series

8HP-54HP
39models



Connectable indoor unit capacity range
50 % to 130 %

Connectable indoor unit number
up to 55

VRF J-III Tropical Series

4HP-6HP
6models



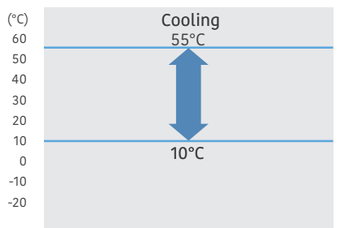
Connectable indoor unit capacity range
50 % to 130 %

Connectable indoor unit number
up to 9

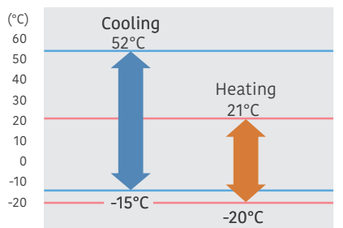
High Ambient Operation Design

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

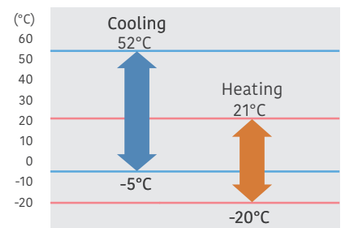
VRF VC-V



VRF V-III Tropical Series



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.

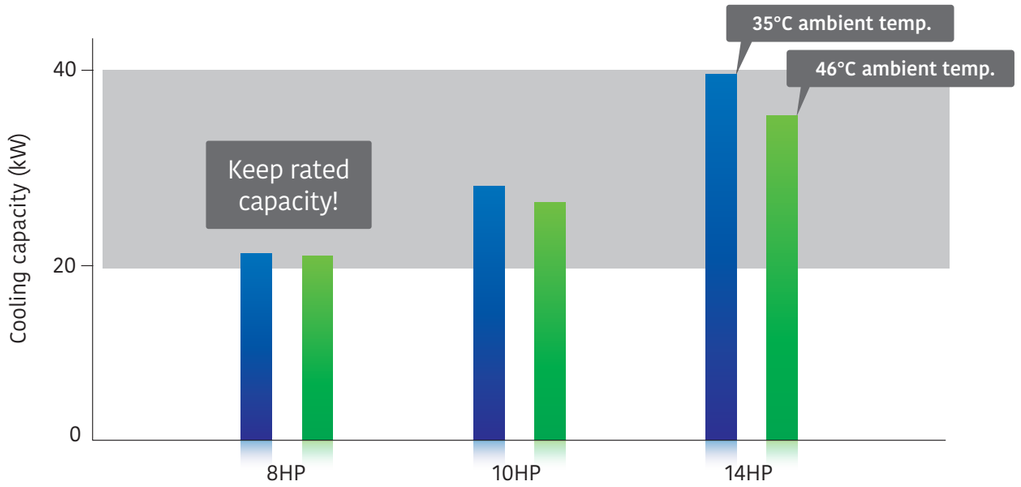
More Comfort



Powerful Cooling Capacity Design

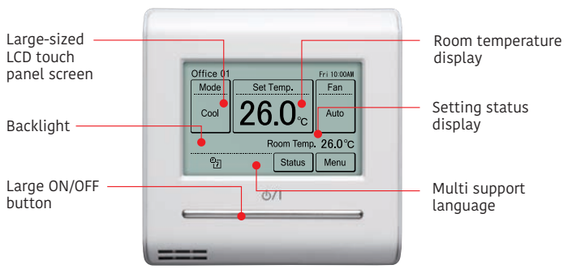
TROPICAL SPEC

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



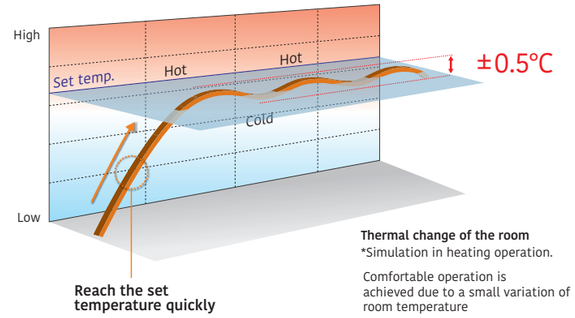
Touch Panel Wired Remote Controller

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



Precise Control of Refrigerant Flow

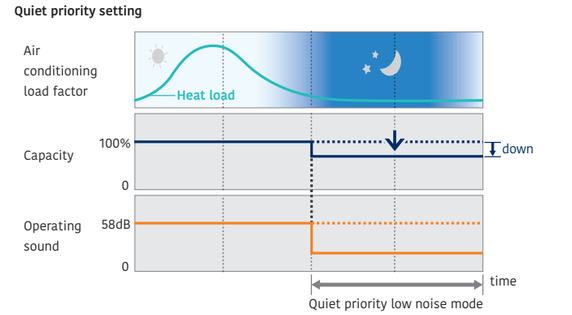
Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.

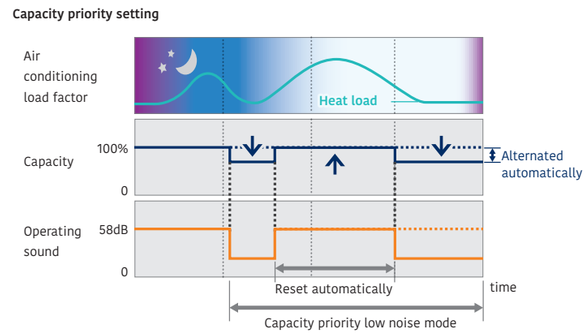


Quiet Operation

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.

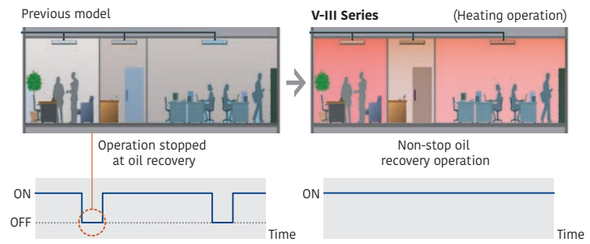




Non-Stop Oil Recovery Operation

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

*: VRF VR-II Series is not available.



Easy Installation

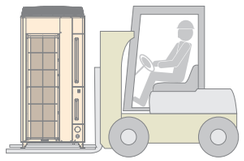


Easily Transported

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.

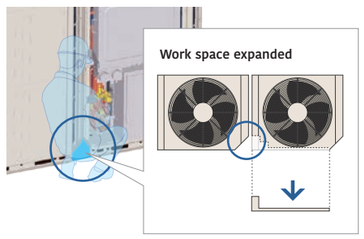


Fits into a small elevator.



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.

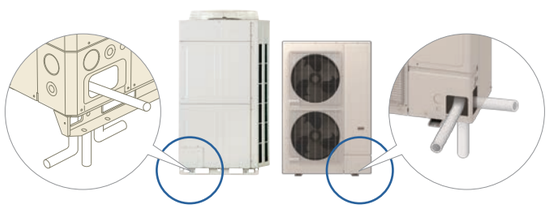




Front access reduces installation intervals

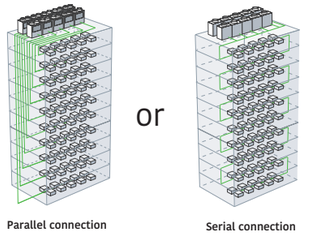
Flexible Pipe Connection

Piping and wiring can be accessed from the front, left, right, and bottom.



Simplified Wiring Work

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



Parallel connection

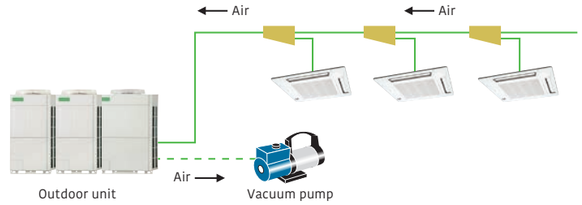
Serial connection

Maximum wiring length:
3,600 m

Note: The automatic address setting is not available on a serially connected multiple refrigerant system.

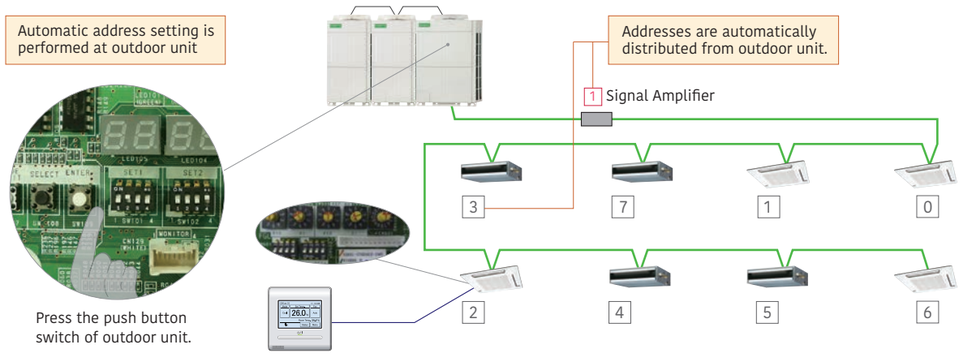
Vacuum Mode Function for Easy Evacuation

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 with Tools

• 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.



• Central Remote Controller (UTY-DCGGZ4)

After the VRF system has been installed. Conveniently, the “test run” required to verify proper system operation can be performed from a nearby Central RC.



Easy Service and Maintenance

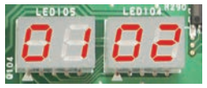


Designed for Easy Maintenance

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



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



7-segment LED

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

Movable PCB panel
Easier for maintenance work behind the PCB



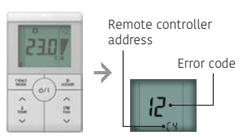
Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

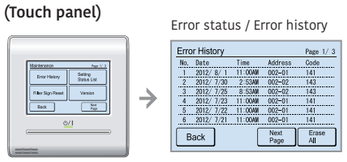
Wired Remote Controller



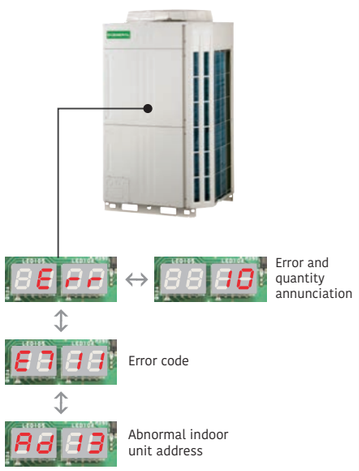
Simple Remote Controller



Wired Remote Controller (Touch panel)



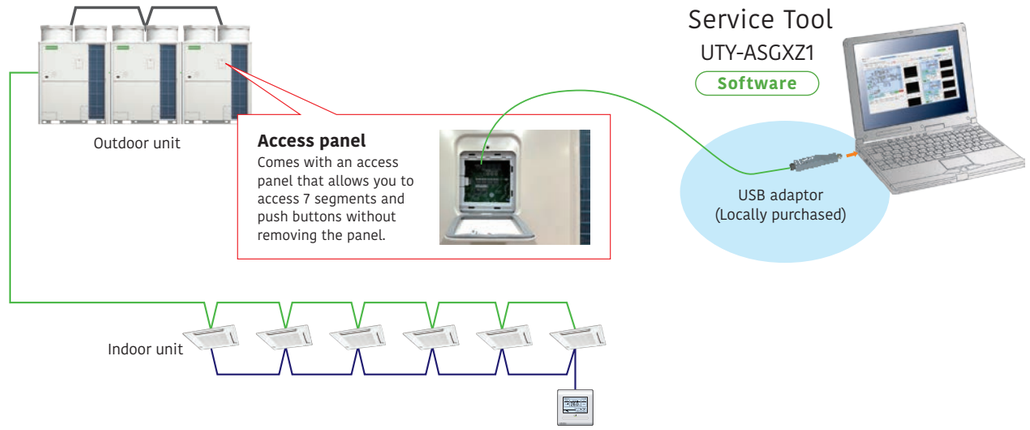
Error status can be checked easily by outdoor unit display



Error Diagnosis by Service Tool

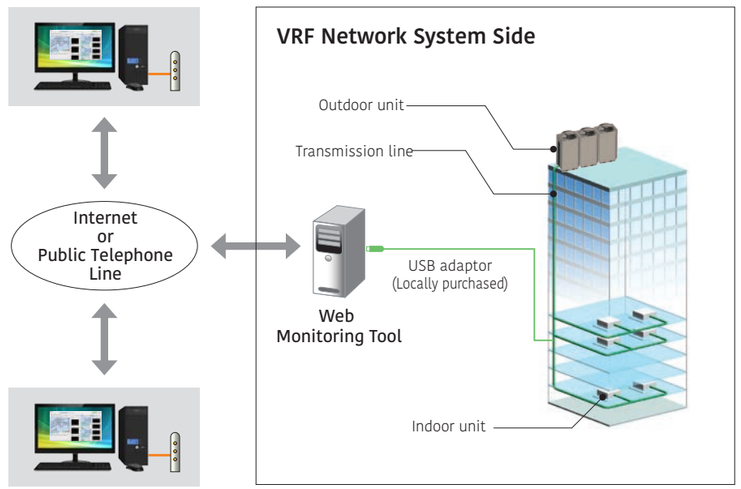
Connection to Service Tool

- 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.



VRF OUTDOOR UNITS

VRF Lineup

Heat Pump type J-III Tropical Series

Cooling Only type VC-V 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 Lineup

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

Outdoor Units Range

		HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
		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	504,000	522,000	540,000	558,000	576,000	594,000	612,000	630,000	648,000	666,000	684,000	702,000	720,000
		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													
J-III Tropical Series		High Efficiency (Single phase)	AJH040 LBTAHN	AJH045 LBTAHN	AJH054 LBTAHN																																					
		High Efficiency (3 phase)	AJH040 LETAHN	AJH045 LETAHN	AJH054 LETAHN																																					
NEW VC-V Series Cooling Only	Standard combination	Set Model				AJG072 JNTAH-U	AJG090 JNTAH-U	AJG108 JNTAH-U	AJG126 JNTAH-U	AJG144 JNTAH-U	AJG162 JNTAH-U	AJG180 JNTAH-U	AJG198 JNTAH-U	AJG216 JNTAH-U	AJG234 JNTAH-U	AJG252 JNTAH-U	AJG270 JNTAH-U	AJG288 JNTAH-U	AJG306 JNTAH-U	AJG324 JNTAH-U	AJG342 JNTAH-U	AJG360 JNTAH-U	AJG378 JNTAH-U	AJG396 JNTAH-U	AJG414 JNTAH-U	AJG432 JNTAH-U	AJG450 JNTAH-U	AJG468 JNTAH-U	AJG486 JNTAH-U	AJG504 JNTAH-U	AJG522 JNTAH-U	AJG540 JNTAH-U	AJG558 JNTAH-U	AJG576 JNTAH-U	AJG594 JNTAH-U	AJG612 JNTAH-U	AJG630 JNTAH-U	AJG648 JNTAH-U	AJG666 JNTAH-U	AJG684 JNTAH-U	AJG702 JNTAH-U	AJG720 JNTAH-U
	Energy Efficiency	Set Model								AJG144 JNTAHH-U	AJG162 JNTAHH-U	AJG180 JNTAHH-U		AJG216 JNTAHH-U	AJG234 JNTAHH-U	AJG252 JNTAHH-U	AJG270 JNTAHH-U	AJG288 JNTAHH-U	AJG306 JNTAHH-U	AJG324 JNTAHH-U	AJG342 JNTAHH-U	AJG360 JNTAHH-U	AJG378 JNTAHH-U	AJG396 JNTAHH-U																	
V-III Tropical Series	Space Saving	Set Model				AJH072 LN**H	AJH090 LN**H	AJH108 LN**H	AJH126 LN**H	AJH144 LN**H	AJH162 LN**H	AJH180 LN**H	AJH198 LN**H	AJH216 LN**H	AJH234 LN**H	AJH252 LN**H	AJH270 LN**H	AJH288 LN**H	AJH306 LN**H	AJH324 LN**H	AJH342 LN**H	AJH360 LN**H	AJH378 LN**H	AJH396 LN**H	AJH414 LN**H	AJH432 LN**H	AJH450 LN**H	AJH468 LN**H	AJH486 LN**H													
	Energy Efficiency	Set Model								AJH144 LN**HH	AJH162 LN**HH	AJH180 LN**HH		AJH216 LN**HH	AJH234 LN**HH	AJH252 LN**HH	AJH270 LN**HH	AJH288 LN**HH	AJH306 LN**HH	AJH324 LN**HH	AJH342 LN**HH	AJH360 LN**HH	AJH378 LN**HH	AJH396 LN**HH	AJH414 LN**HH															

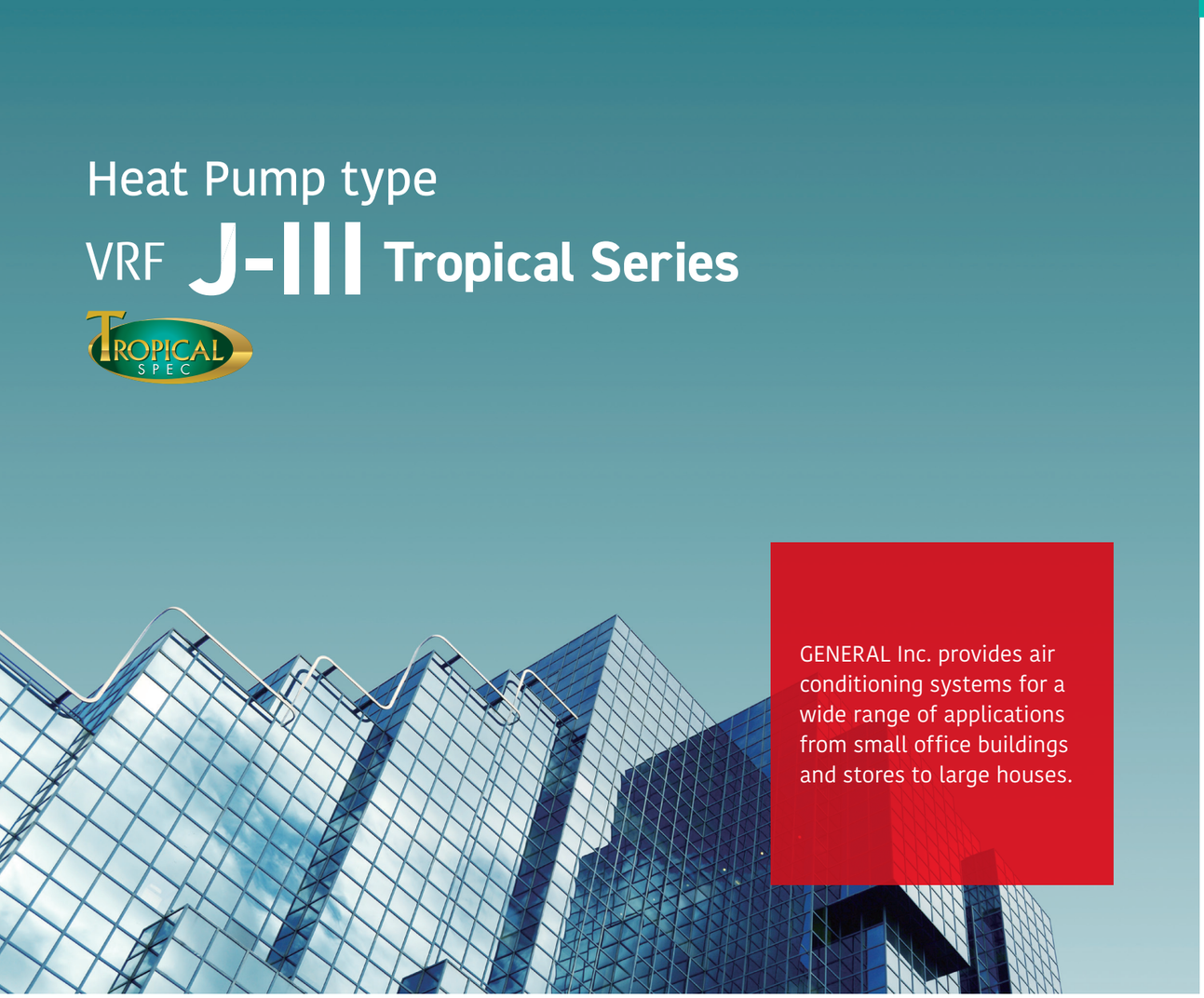
AJH_LN**H(H) : AJH_LNTDH(H), AJH_LNLBH(H)



Heat Pump type

VRF J-III Tropical Series

TROPICAL SPEC



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

System Outline

High Energy Efficiency

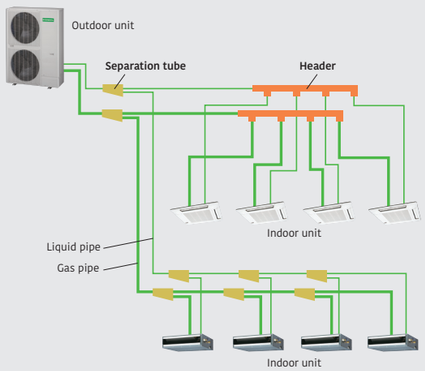
Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

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 small- and medium-size buildings.
Multiple indoor units of various capacities and types can be connected.

System Configuration Example

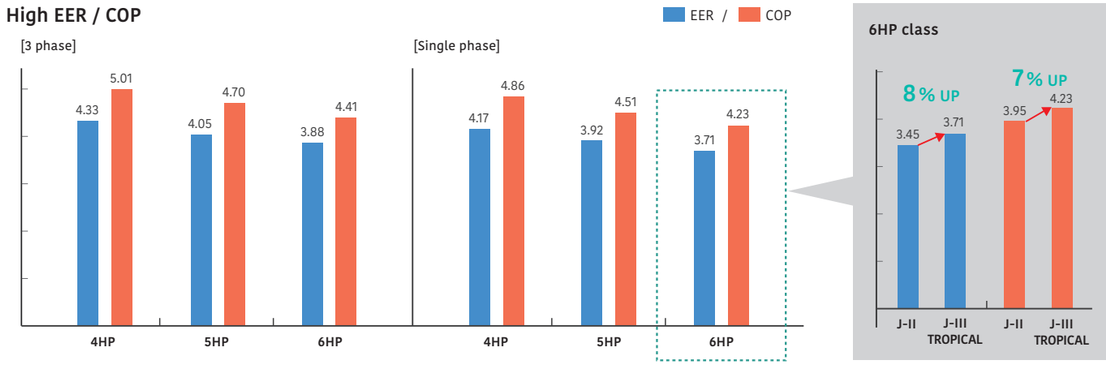
- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



Energy Efficiency

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

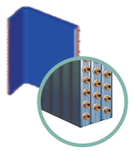
High EER / COP



Advanced High-Efficiency Technology



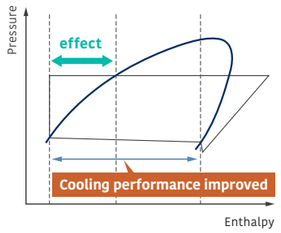
Large propeller fan
High performance and low noise realized by large propeller and optimization of angle.

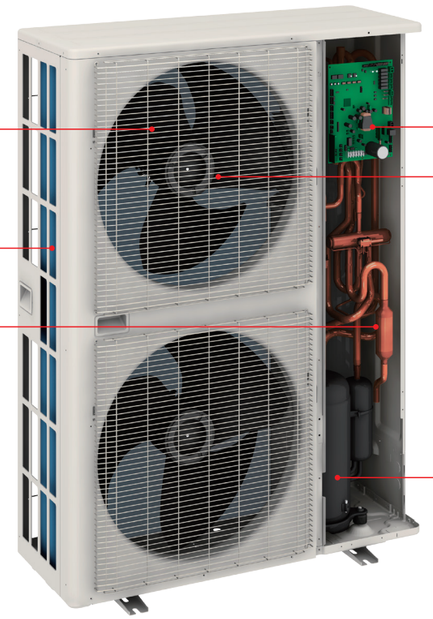


Large heat exchanger
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



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.

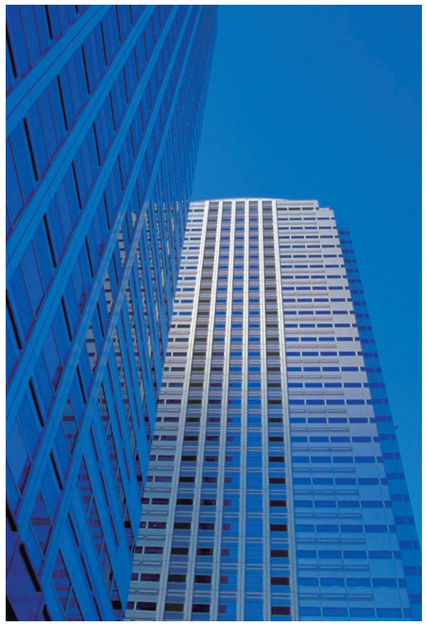


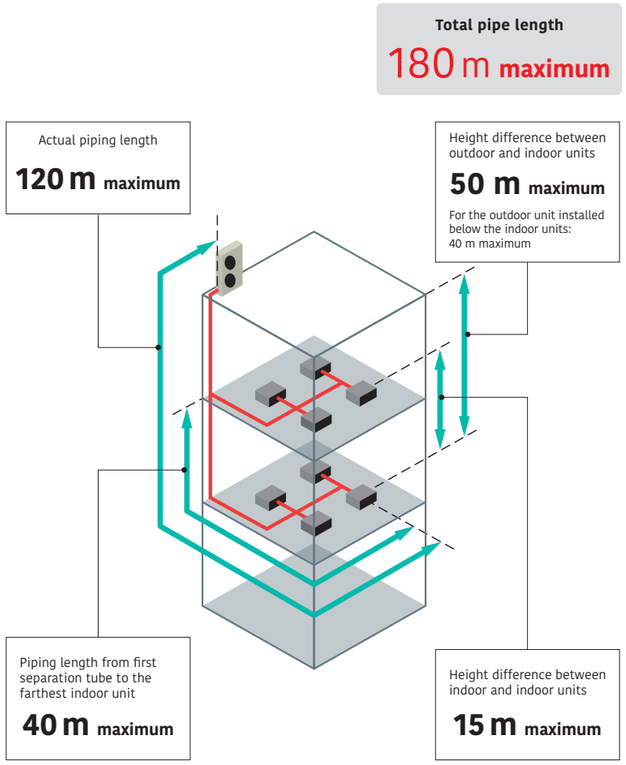
INVERTER Compressor
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

Made in JAPAN

Long Piping Capability

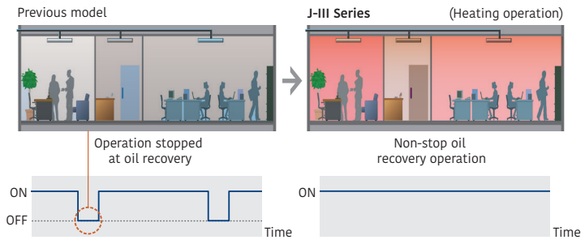
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.





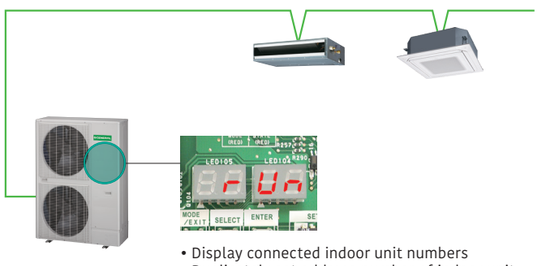
Non-Stop Oil Recovery Operation

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

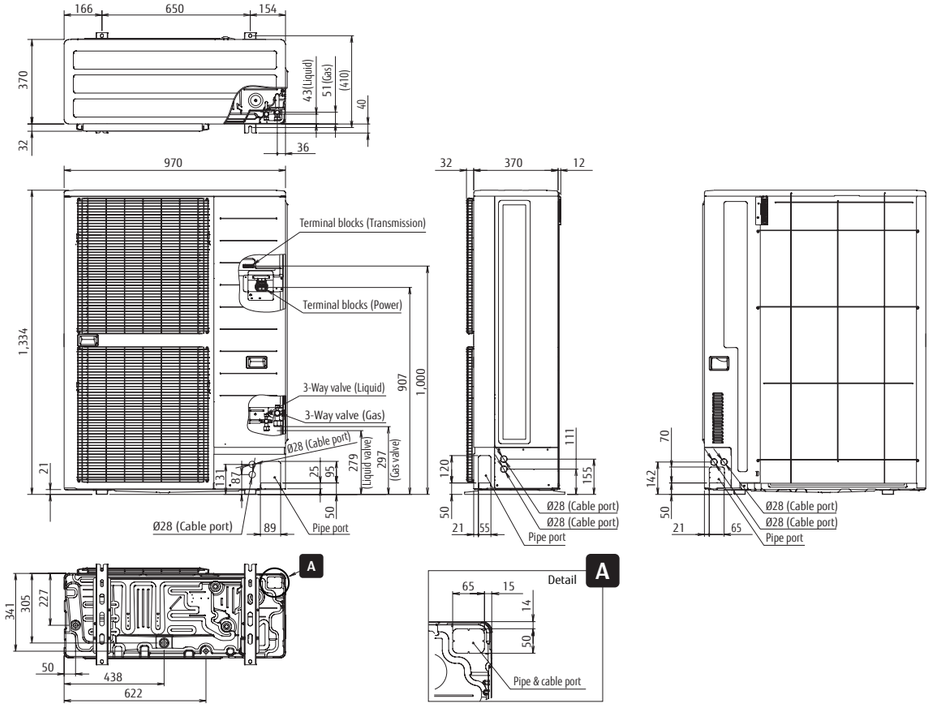
Rating Capacity range		HP	4	5	6	4	5	6
		Btu/h	36,000	45,000	54,000	36,000	45,000	54,000
		Ton	3.0	3.8	4.5	3.0	3.8	4.5
Model name			AJH040LBTAHN	AJH045LBTAHN	AJH054LBTAHN	AJH040LETAHN	AJH045LETAHN	AJH054LETAHN
Maximum Connectable Indoor Unit			1-7	1-8	1-9	1-7	1-8	1-9
Power source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Capacity	Cooling(T1/T3)	kW	12.1/10.3	14.0/11.1	15.5/11.5	12.1/10.3	14.0/11.1	15.5/11.5
	Heating		13.6	16.0	18.0	13.6	16.0	18.0
	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
Input power	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
	Heating		2.80	3.55	4.26	2.71	3.40	4.08
Current	Cooling(T1/T3)	A	12.7/15.2	15.7/16.6	18.4/17.2	5.2/6.2	6.6/6.6	7.7/6.9
	Heating		12.3	15.6	18.7	5.0	6.5	7.8
EER	Cooling(T1/T3)	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
		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
COP	Heating	W/W	4.86	4.51	4.23	5.01	4.70	4.41
		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 level	Cooling	dB (A)	50	51	53	50	51	53
	Heating		52	53	55	52	53	55
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970
	Depth		370	370	370	370	370	370
Net Weight		kg	120	120	120	120	120	120
Refrigerant		Type	R410A	R410A	R410A	R410A	R410A	R410A
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		15.88	15.88	19.05	15.88	15.88	19.05
Operating range	Cooling	°CDB	-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

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

(Unit : mm)

Models : AJH040LBTAHN / AJH045LBTAHN / AJH054LBTAHN / AJH040LETAHN / AJH045LETAHN / AJH054LETAHN



Cooling Only type

NEW VRF VC-V Series

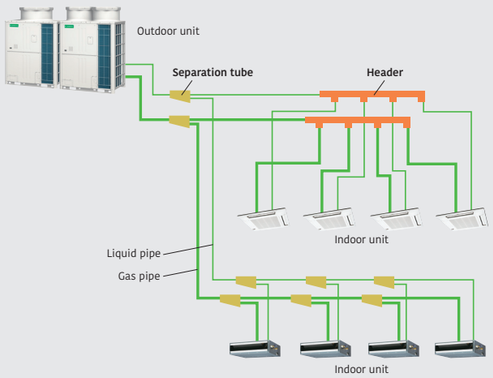
Smart and cutting edge design
Extensive lineup from 8HP to 80HP in 2HP increment
Connectable indoor unit capacity ratio up to 150%

Official YouTube Channel

System Outline

System Configuration Example

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





Air Conditioning Up to 80 HP with One Refrigerant System

Wide capacity range **51 systems**

More Wide lineup

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	56	58	60	62	64	66	68	70	72	74	76	78	80
Standard combination	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Energy Efficiency					●	●	●		●	●	●	●	●	●	●	●	●	●	●																		

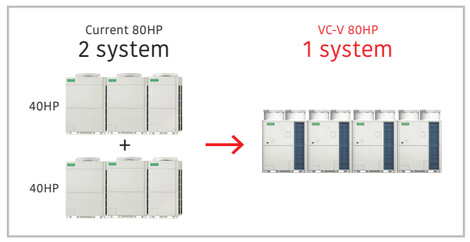
Space Saving and Compact Size

Compact size has been achieved by significantly reducing the chassis of the outdoor units compared to previous models.



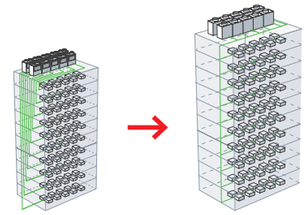
12HP Current using space
0.95 m²

12HP New using space
0.71 m²



Contributes to Reduction of Project Costs

Up to 80 HP can be selected for a single refrigerant system. This reduces the number of outdoor units and materials required for installation (piping, power lines, communication lines, racking, breakers, conduit, etc.) compared to conventional products.
This product is expected to reduce project costs.

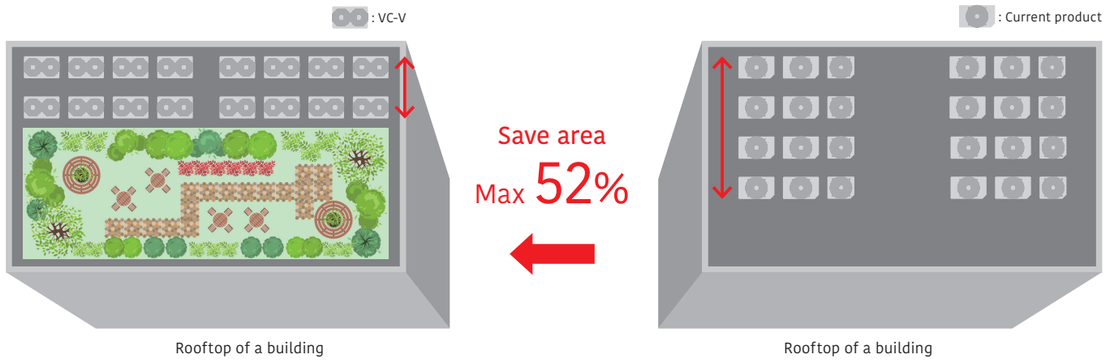


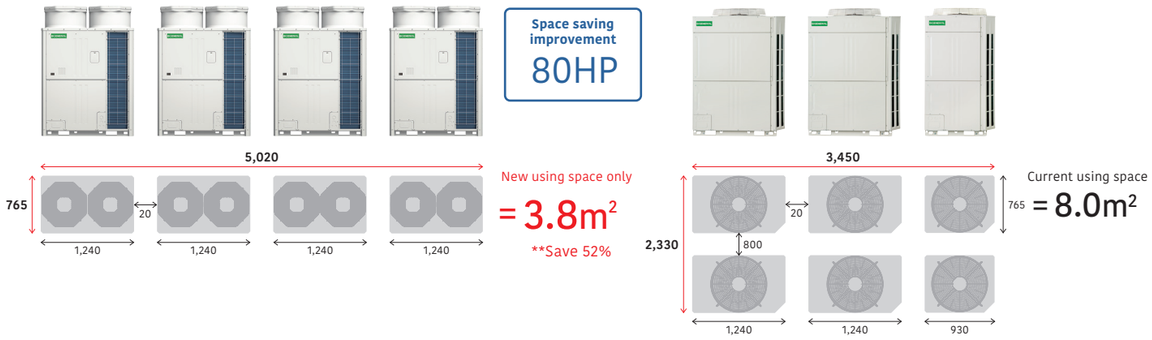
Current product

VC-V

Reduces the Number of Systems and Installation Area

Since the installation area can be reduced, the reduced space can be used for other purposes.
For example, the area can be used as a biotope to contribute to a sustainable future by greening it.
*Comparison of multiple 80 HP systems installed, for example

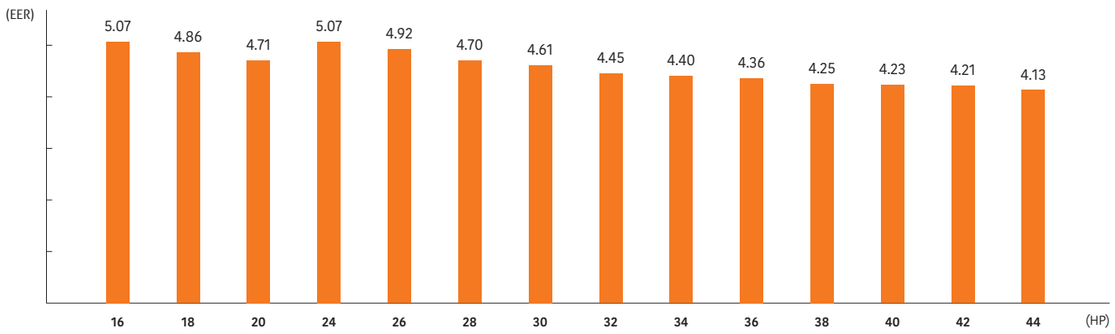




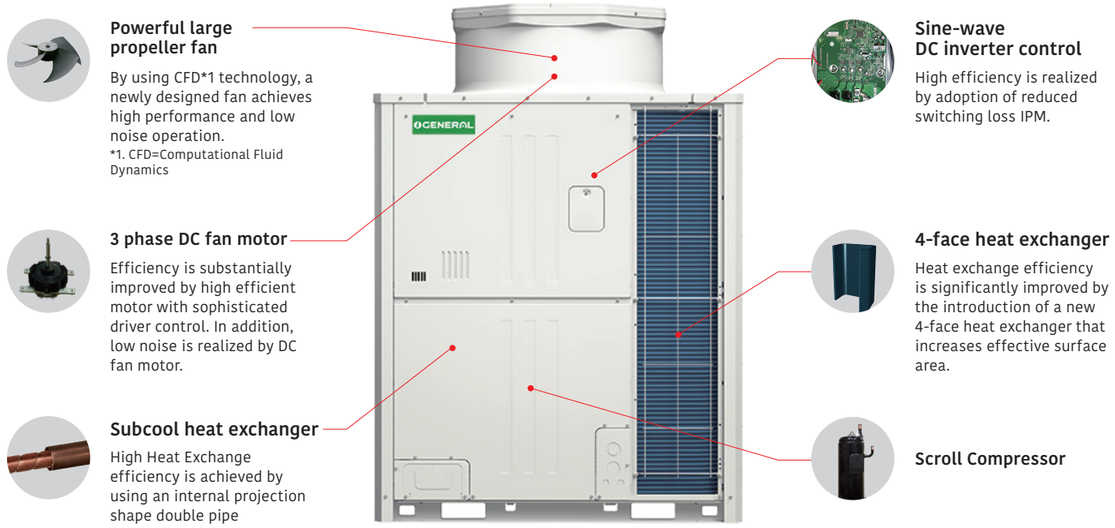
High Energy Efficiency

Class-leading high EER (Maximum) The use of our proprietary heat exchanger structure and high-efficiency Scroll compressors achieves the class-leading coefficient of performance (EER) in every combination.

Energy Efficiency Combinations

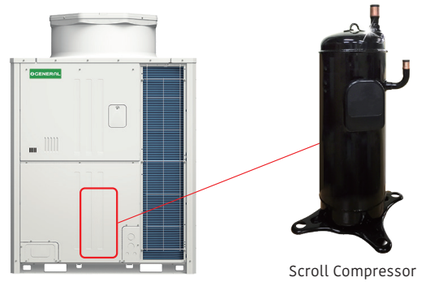


Energy Saving Technology that Boosted Operation Efficiency



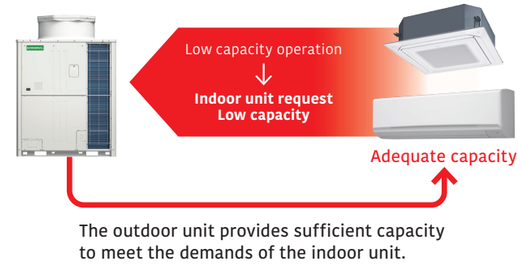
High Performance Scroll Compressor

The combination of a scroll compressor and our proprietary sensorless sine-wave control that smoothly controls the input power into the motor can achieve a wider rotational frequency range from 15 to 120 rps, resulting in energy-efficient and quieter operation.



Intelligent Refrigerant Control

General is proposing outdoor units equipped with refrigerant control function.
The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

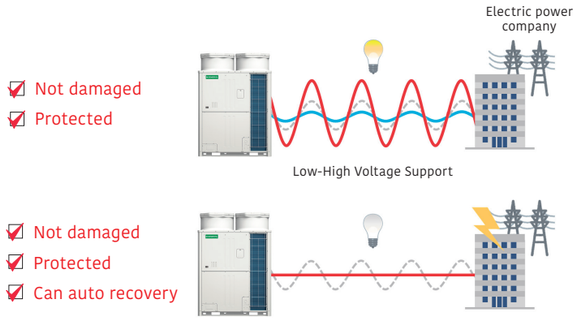


* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

High Reliability

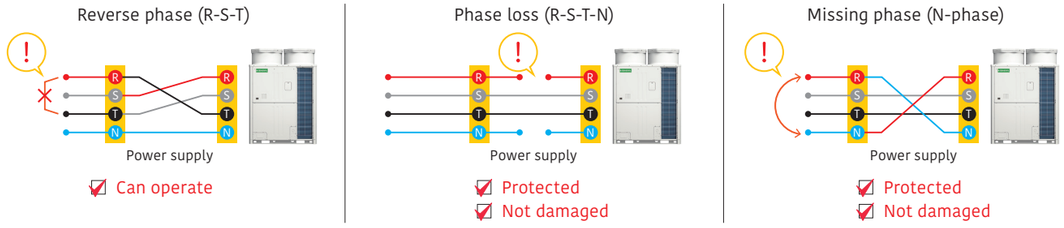
PCB Protection – Low-High Voltage Support

Even if the product is installed in an area where the power supply (voltage) is not stable, the PCB that controls the product is protected, so the product can be installed with peace of mind.
For example, even if the system goes down due to factors such as lightning strikes, the system will operate at its original operational content when the power is restored, making management easy.



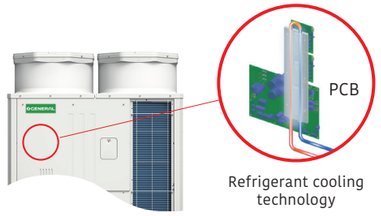
Protects Against Power Supply Mis-wiring

Even if there is a mistake in the wiring connection during the "reverse phase," "phase loss," or "missing phase" of the power connection during installation, the product will not be damaged and can be installed with peace of mind.

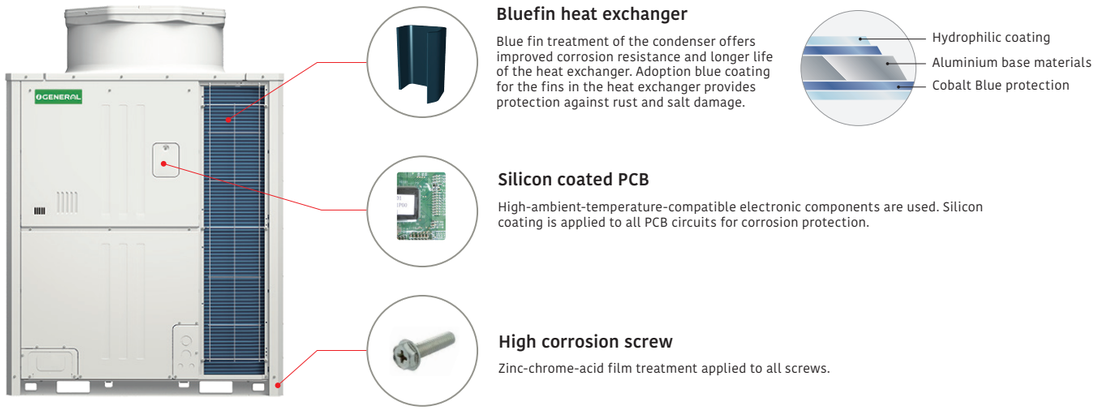


Refrigerant Cooling Technology

Refrigerant Cooling Technology, ensures the stability of PCB temperature and improves reliability at high ambient temperatures.
It's possible to cool the inverter power module stability even at high ambient temperatures.
This helps to keep air conditioner capacity and also ensures efficient and reliable operation.

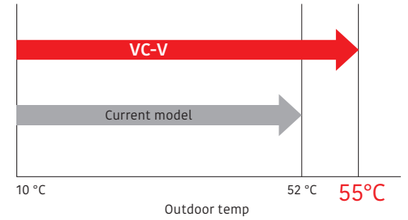


Anti-corrosion

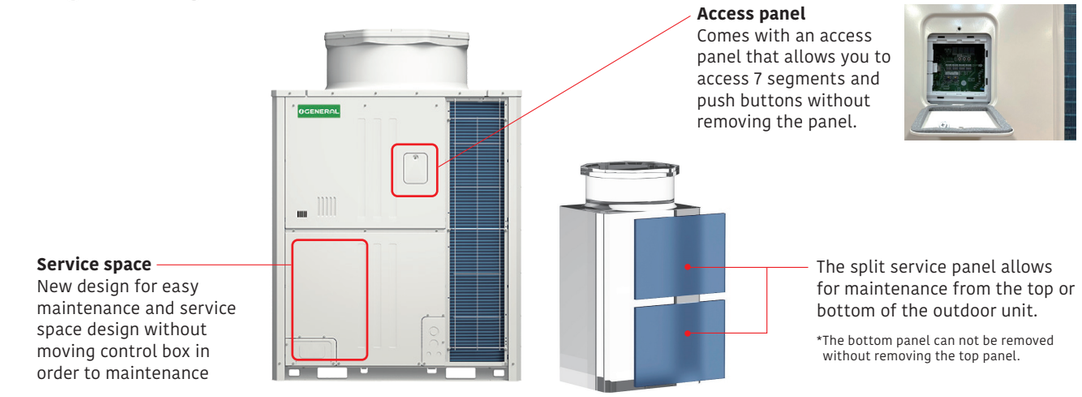


Wide Operating Range

Designed to perform at ambient conditioners as high as 55 °C. Installation in extreme temperature conditions is possible due to an increased operational range.

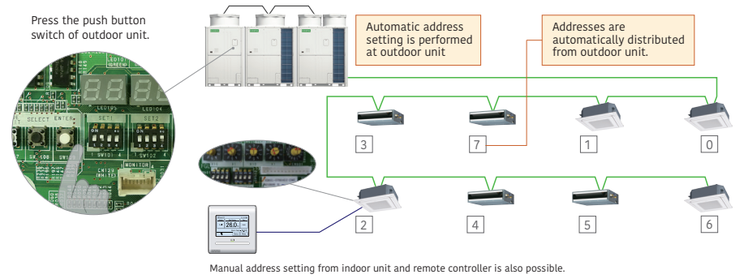


Design for Easy Service and Maintenance



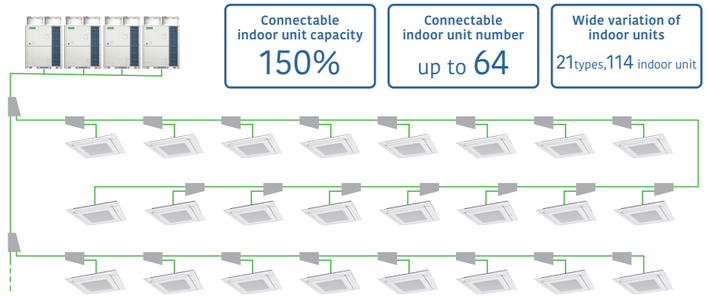
Automatic Address Setting

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



Various Combinations

Various combination from 8HP to 80HP increments. 15 type, 147 models of indoor units can be selected ranging from 2.2kW to 28kW in capacity. A maximum of 150% indoor unit connectable capacity.



Outdoor units lineup

• Combinations other than the followings are not recommended.

Standard combination

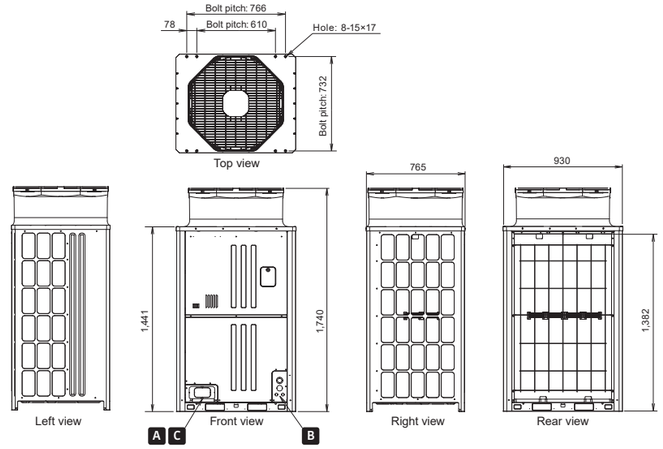
22.4kW (8HP) AJG072JNTAH-U UNIT : AJG072JNTAH-U	28.0kW (10HP) AJG090JNTAH-U UNIT : AJG090JNTAH-U	33.5kW (12HP) AJG108JNTAH-U UNIT : AJG108JNTAH-U	40.0kW (14HP) AJG126JNTAH-U UNIT : AJG126JNTAH-U	45.0kW (16HP) AJG144JNTAH-U UNIT : AJG144JNTAH-U	50.0 kW (18HP) AJG162JNTAH-U UNIT : AJG162JNTAH-U
56.0 kW (20HP) AJG180JNTAH-U UNIT : AJG180JNTAH-U	61.5 kW (22HP) AJG198JNTAH-U UNIT : AJG108/090JNTAH-U	67.0 kW (24HP) AJG216JNTAH-U UNIT : AJG108/108JNTAH-U	73.5 kW (26HP) AJG234JNTAH-U UNIT : AJG126/108JNTAH-U	78.5 kW (28HP) AJG252JNTAH-U UNIT : AJG144/108JNTAH-U	83.5 kW (30HP) AJG270JNTAH-U UNIT : AJG162/108JNTAH-U
90.0 kW (32HP) AJG288JNTAH-U UNIT : AJG144/144JNTAH-U	95.0 kW (34HP) AJG306JNTAH-U UNIT : AJG162/144JNTAH-U	100.0 kW (36HP) AJG324JNTAH-U UNIT : AJG162/162JNTAH-U	106.0 kW (38HP) AJG342JNTAH-U UNIT : AJG180/162JNTAH-U	112.0 kW (40HP) AJG360JNTAH-U UNIT : AJG180/180JNTAH-U	117.0 kW (42HP) AJG378JNTAH-U UNIT : AJG162/108/108JNTAH-U
123.0 kW (44HP) AJG396JNTAH-U UNIT : AJG180/108/108JNTAH-U	130.0 kW (46HP) AJG414JNTAH-U UNIT : AJG162/126/126JNTAH-U	135.0 kW (48HP) AJG432JNTAH-U UNIT : AJG162/144/126JNTAH-U	140.0 kW (50HP) AJG450JNTAH-U UNIT : AJG162/162/126JNTAH-U	145.0 kW (52HP) AJG468JNTAH-U UNIT : AJG162/162/144JNTAH-U	150.0 kW (54HP) AJG486JNTAH-U UNIT : AJG162/162/162JNTAH-U
156.0 kW (56HP) AJG504JNTAH-U UNIT : AJG180/162/162JNTAH-U	162.0 kW (58HP) AJG522JNTAH-U UNIT : AJG180/180/162JNTAH-U	168.0 kW (60HP) AJG540JNTAH-U UNIT : AJG180/180/180JNTAH-U	173.0 kW (62HP) AJG558JNTAH-U UNIT : AJG180/162/108/108JNTAH-U	179.0 kW (64HP) AJG576JNTAH-U UNIT : AJG180/180/108/108JNTAH-U	183.5 kW (66HP) AJG594JNTAH-U UNIT : AJG162/162/162/108JNTAH-U
189.5 kW (68HP) AJG612JNTAH-U UNIT : AJG180/162/162/108JNTAH-U	195.5 kW (70HP) AJG630JNTAH-U UNIT : AJG180/180/162/108JNTAH-U	201.5 kW (72HP) AJG648JNTAH-U UNIT : AJG180/180/180/108JNTAH-U	206.0 kW (74HP) AJG666JNTAH-U UNIT : AJG180/162/162/162JNTAH-U	212.0 kW (76HP) AJG684JNTAH-U UNIT : AJG180/180/162/162JNTAH-U	218.0 kW (78HP) AJG702JNTAH-U UNIT : AJG180/180/180/162JNTAH-U
224.0 kW (80HP) AJG720JNTAH-U UNIT : AJG180/180/180/180JNTAH-U					

Energy efficiency combinations

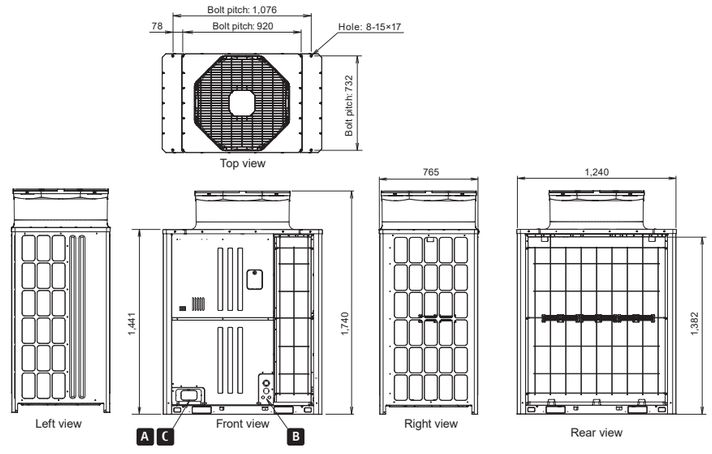
44.8 kW (16HP) AJG144JNTAHH-U UNIT : AJG072/072JNTAH-U	50.4 kW (18HP) AJG162JNTAHH-U UNIT : AJG090/072JNTAH-U	56.0 kW (20HP) AJG180JNTAHH-U UNIT : AJG090/090JNTAH-U	67.2 kW (24HP) AJG216JNTAHH-U UNIT : AJG072/072/072JNTAH-U	72.8 kW (26HP) AJG234JNTAHH-U UNIT : AJG090/072/072JNTAH-U	78.3 kW (28HP) AJG252JNTAHH-U UNIT : AJG108/072/072JNTAH-U
83.9 kW (30HP) AJG270JNTAHH-U UNIT : AJG108/090/072JNTAH-U	89.4 kW (32HP) AJG288JNTAHH-U UNIT : AJG108/108/072JNTAH-U	95.0 kW (34HP) AJG306JNTAHH-U UNIT : AJG108/108/090JNTAH-U	101.5 kW (36HP) AJG324JNTAHH-U UNIT : AJG126/108/090JNTAH-U	107.0 kW (38HP) AJG342JNTAHH-U UNIT : AJG126/108/108JNTAH-U	113.5 kW (40HP) AJG360JNTAHH-U UNIT : AJG126/126/108JNTAH-U
120.0 kW (42HP) AJG378JNTAHH-U UNIT : AJG126/126/126JNTAH-U	125.0 kW (44HP) AJG396JNTAHH-U UNIT : AJG144/126/126JNTAH-U				

Dimensions

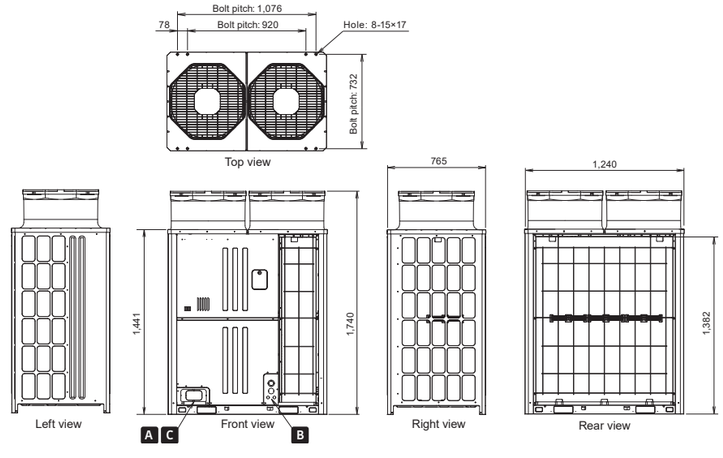
8,10,12HP : AJG072JNTAH-U / AJG090JNTAH-U / AJG108JNTAH-U (Unit : mm)

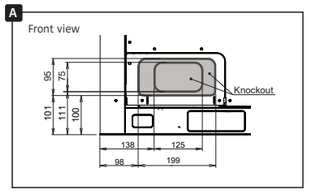


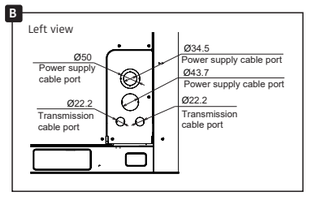
14,16HP : AJG126JNTAH-U / AJG144JNTAH-U

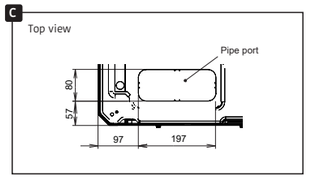


18,20HP : AJG162JNTAH-U / AJG180JNTAH-U









Standard combination

Rating Capacity range																					
	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
	Btu/hr	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
	Ton	6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30	31.5	33
Model name		**AJG072JNTAH-U**	**AJG090JNTAH-U**	**AJG108JNTAH-U**	**AJG126JNTAH-U**	**AJG144JNTAH-U**	**AJG162JNTAH-U**	**AJG180JNTAH-U**	**AJG198JNTAH-U**	**AJG216JNTAH-U**	**AJG234JNTAH-U**	**AJG252JNTAH-U**	**AJG270JNTAH-U**	**AJG288JNTAH-U**	**AJG306JNTAH-U**	**AJG324JNTAH-U**	**AJG342JNTAH-U**	**AJG360JNTAH-U**	**AJG378JNTAH-U**	**AJG396JNTAH-U**
Unit 1 Unit 2 Unit 3		AJG072JNTAH-U	AJG090JNTAH-U	AJG108JNTAH-U	AJG126JNTAH-U	AJG144JNTAH-U	AJG162JNTAH-U	AJG180JNTAH-U	AJG108JNTAH-U AJG090JNTAH-U	AJG108JNTAH-U AJG108JNTAH-U	AJG126JNTAH-U AJG108JNTAH-U	AJG144JNTAH-U AJG108JNTAH-U	AJG162JNTAH-U AJG108JNTAH-U	AJG144JNTAH-U AJG144JNTAH-U	AJG162JNTAH-U AJG144JNTAH-U	AJG162JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U	AJG162JNTAH-U AJG108JNTAH-U AJG108JNTAH-U	AJG180JNTAH-U AJG108JNTAH-U AJG108JNTAH-U
Maximum Connectable Indoor Unit		15	19	22	27	30	34	38	41	45	50	53	56	61	64	64	64	64	64	64
Indoor unit connectable capacity	kW	11.2 - 33.6	14.0 - 42.0	16.8 - 50.3	20.0 - 60.0	22.5 - 67.5	25.0 - 75.0	28.0 - 84.0	30.8 - 92.2	33.5 - 100.5	36.8 - 110.2	39.3 - 117.7	41.8 - 125.2	45.0 - 135.0	47.5 - 142.5	50.0 - 150.0	53.0 - 159.0	56.0 - 168.0	58.5 - 175.5	61.5 - 184.5
Power source		3N ~ 380—415 V, 50 Hz / 3N ~ 400 V, 60 Hz											3N ~ 380—415 V, 50 Hz / 3N ~ 400 V, 60 Hz							
Capacity	Cooling(T1) kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	67.0	73.5	78.5	83.5	90.0	95.0	100.0	106.0	112.0	117.0	123.0
	Cooling(T1) Btu/h	76,400	95,500	114,300	136,500	153,500	170,600	191,100	209,800	228,600	250,800	267,800	284,900	307,000	324,100	341,200	361,700	382,200	399,200	419,700
	Cooling(T3) kW	22.4	28.0	32.4	36.5	39.5	42.8	46.1	60.4	64.8	68.9	71.9	75.2	79.0	82.3	85.6	88.9	92.2	107.6	110.9
	Cooling(T3) Btu/h	76,400	95,500	110,500	124,500	134,700	146,000	157,300	206,000	221,000	235,000	245,200	256,500	269,400	280,700	292,000	303,300	314,600	367,000	378,300
Input power (Outdoor unit)	Cooling(T3) kW	6.64	8.42	10.77	11.18	12.25	13.56	16.03	19.19	21.54	21.95	23.02	24.33	24.50	25.81	27.12	29.59	32.06	35.10	37.57
Current (Outdoor Unit)	Cooling(T3) A	10.6	13.3	16.9	17.8	19.4	21.3	25.0	30.2	33.8	34.7	36.3	38.2	38.8	40.7	42.6	46.3	50.0	55.1	58.8
Power factor (Outdoor unit)		0.9	0.9	0.9	0.9	0.9	0.9	0.9	-	-	-	-	-	-	-	-	-	-	-	-
EER (Outdoor Unit)	Cooling(T1) W/W	5.07	4.71	4.28	4.21	4.11	3.72	3.22	4.46	4.28	4.24	4.18	3.92	4.11	3.89	3.72	3.44	3.22	4.02	3.72
EER (System)	Cooling(T3) W/W	3.30	3.25	2.94	3.18	3.14	3.08	2.82	3.08	2.94	3.07	3.05	3.02	3.14	3.11	3.08	2.94	2.82	3.00	2.89
	Btu/h	11.26	11.09	10.03	10.85	10.71	10.51	9.62	10.51	10.03	10.48	10.41	10.30	10.71	10.61	10.51	10.03	9.62	10.24	9.86
CSPF	Btu/hW	19.5	19.6	18.6	18.9	19.1	17.8	16.7	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate	m^3/h	10,200	10,200	10,200	13,700	13,700	15,500	16,800	10,200 × 2	10,200 × 2	10,200 + 13,700	10,200 + 13,700	10,200 + 15,500	13,700 × 2	13,700 + 15,500	15,500 × 2	15,500 + 16,800	16,800 × 2	10,200 × 2 + 15,500	10,200 × 2 + 16,800
Sound pressure level*1	Cooling dB(A)	55	55	56	62	63	64	67	59	59	63	64	65	66	67	67	69	70	65	68
External static pressure (Max)	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output	kW	4.7	4.7	4.7	4.7	4.7	6.2	6.2	4.7 × 2	4.7 × 2	4.7 × 2	4.7 × 2	4.7 + 6.2	4.7 × 2	4.7 + 6.2	6.2 × 2	6.2 × 2	6.2 × 2	4.7 × 2 + 6.2	4.7 × 2 + 6.2
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
Dimensions	Height mm	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740
	Width mm	930	930	930	1,240	1,240	1,240	1,240	930 × 2	930 × 2	930 + 1,240	930 + 1,240	930 + 1,240	1,240 × 2	1,240 × 2	1,240 × 2	1,240 × 2	1,240 × 2	930 × 2 + 1,240	930 × 2 + 1,240
	Depth mm	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight	kg	210	210	210	234	234	257	257	210 × 2	210 × 2	210 + 234	210 + 234	210 + 257	234 × 2	234 + 257	257 × 2	257 × 2	257 × 2	210 × 2 + 257	210 × 2 + 257
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory charged amount kg	9.7	9.7	9.7	11.8	11.8	11.8	11.8	9.7 × 2	9.7 × 2	9.7 + 11.8	9.7 + 11.8	9.7 + 11.8	11.8 × 2	11.8 × 2	11.8 × 2	11.8× 2	11.8× 2	9.7 × 2 + 11.8	9.7 × 2 + 11.8
Connection pipe diameter	Liquid mm	9.52	9.52	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
	Gas mm	19.05	22.22	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling °CDB	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55

Rating Capacity range																				
	HP	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
	Btu/hr	414,000	432,000	450,000	468,000	486,000	504,000	522,000	540,000	588,000	576,000	594,000	612,000	630,000	648,000	666,000	684,000	702,000	720,000
	Ton	34.5	36	37.5	39	40.5	42.0	44	45	49	48.0	50	51	52.5	54	55.5	57	58.5	60
Model name		**AJG414JNTAH-U**	**AJG432JNTAH-U**	**AJG450JNTAH-U**	**AJG468JNTAH-U**	**AJG486JNTAH-U**	**AJG504JNTAH-U**	**AJG522JNTAH-U**	**AJG540JNTAH-U**	**AJG558JNTAH-U**	**AJG576JNTAH-U**	**AJG594JNTAH-U**	**AJG612JNTAH-U**	**AJG630JNTAH-U**	**AJG648JNTAH-U**	**AJG666JNTAH-U**	**AJG684JNTAH-U**	**AJG702JNTAH-U**	**AJG720JNTAH-U**
Unit 1 Unit 2 Unit 3		AJG162JNTAH-U AJG126JNTAH-U AJG126JNTAH-U	AJG162JNTAH-U AJG144JNTAH-U AJG126JNTAH-U	AJG162JNTAH-U AJG162JNTAH-U AJG126JNTAH-U	AJG162JNTAH-U AJG162JNTAH-U AJG144JNTAH-U	AJG162JNTAH-U AJG162JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG162JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG180JNTAH-U	AJG180JNTAH-U AJG162JNTAH-U AJG108JNTAH-U AJG108JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG108JNTAH-U AJG108JNTAH-U	AJG162JNTAH-U AJG162JNTAH-U AJG162JNTAH-U AJG108JNTAH-U	AJG180JNTAH-U AJG162JNTAH-U AJG162JNTAH-U AJG108JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG162JNTAH-U AJG108JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG180JNTAH-U AJG108JNTAH-U	AJG180JNTAH-U AJG162JNTAH-U AJG162JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG162JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG180JNTAH-U AJG162JNTAH-U	AJG180JNTAH-U AJG180JNTAH-U AJG180JNTAH-U AJG180JNTAH-U
Maximum Connectable Indoor Unit		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Indoor unit connectable capacity	kW	65.0 - 195.0	67.5 - 202.5	70.0 - 210.0	72.5 - 217.5	75.0 - 225.0	78.0 - 234.0	81.0 - 243.0	84.0 - 252.0	86.5 - 259.5	89.5 - 268.5	91.8 - 275.2	94.8 - 284.2	97.8 - 293.2	100.8 - 302.2	103.0 - 309.0	106.0 - 318.0	109.0 - 327.0	112.0 - 336.0
Power source		3N ~ 380—415 V, 50 Hz / 3N ~ 400 V, 60 Hz										3N ~ 380—415 V, 50 Hz / 3N ~ 400 V, 60 Hz							
Capacity	Cooling(T1) kW	130.0	135.0	140.0	145.0	150.0	156.0	162.0	168.0	173.0	179.0	183.5	189.5	195.5	201.5	206.0	212.0	218.0	224.0
	Cooling(T1) Btu/h	443,600	460,600	477,700	494,700	511,800	532,300	552,800	573,300	590,300	610,800	626,100	646,600	667,100	687,600	702,900	723,400	743,900	764,400
	Cooling(T3) kW	115.8	118.8	122.1	125.1	128.4	131.7	135.0	138.3	153.7	157.0	160.8	164.1	167.4	170.7	174.5	177.8	181.1	184.4
	Cooling(T3) Btu/h	395,000	405,200	416,500	426,700	438,000	449,300	460,600	471,900	524,300	535,600	548,500	559,800	571,100	582,400	595,300	606,600	617,900	629,200
Input power (Outdoor unit)	Cooling(T3) kW	35.92	36.99	38.30	39.37	40.68	43.15	45.62	48.09	51.13	53.60	51.45	53.92	56.39	58.86	56.71	59.18	61.65	64.12
Current (Outdoor Unit)	Cooling(T3) A	56.9	58.5	60.4	62.0	63.9	67.6	71.3	75.0	80.1	83.8	80.8	84.5	88.2	91.9	88.9	92.6	96.3	100
Power factor (Outdoor unit)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EER (Outdoor Unit)	Cooling(T1) W/W	4.01	3.98	3.85	3.83	3.72	3.52	3.36	3.22	3.72	3.55	3.81	3.64	3.49	3.36	3.57	3.44	3.32	3.22
EER (System)	Cooling(T3) W/W	3.15	3.13	3.11	3.10	3.08	2.99	2.90	2.82	2.94	2.87	3.05	2.98	2.91	2.84	3.01	2.94	2.88	2.82
	Btu/h	10.75	10.68	10.61	10.58	10.51	10.20	9.90	9.62	10.03	9.79	10.41	10.17	9.93	9.69	10.27	10.03	9.83	9.62
CSPF	Btu/hW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate	m^3/h	13,700 × 2 + 15,500	13,700 × 2 + 15,500	13,700 + 15,500 × 2	13,700 + 15,500 × 2	15,500 × 3	15,500 × 2 + 16,800	15,500 +16,800 × 2	16,800 × 3	10,200 × 2 + 15,500 + 16,800	10,200 × 2 + 16,800 × 2	10,200 + 15,500 × 3	10,200 + 15,500 × 2 + 16,800	10,200 + 15,500 + 16,800 × 2	10,200 + 16,800 × 3	15,500 × 3 + 16,800	15,500 × 2 + 16,800 × 2	15,500 + 16,800 × 3	16,800 × 4
Sound pressure level*1	Cooling dB(A)	68	68	68	68	69	70	71	72	69	70	69	70	71	72	71	72	72	73
External static pressure (Max)	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output	kW	4.7 × 2 + 6.2	4.7 × 2 + 6.2	4.7 + 6.2 × 2	4.7 + 6.2 × 2	6.2 × 3	6.2 × 3	6.2 × 3	6.2 × 3	4.7 × 2 + 6.2 × 2	4.7 × 2 + 6.2 × 2	4.7 + 6.2 × 3	4.7 + 6.2 × 3	4.7 + 6.2 × 3	4.7 + 6.2 × 3	6.2 × 4	6.2 × 4	6.2 × 4	6.2 × 4
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
Dimensions	Height mm	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740
	Width mm	1240 × 3	1240 × 3	1240 × 3	1240 × 3	1240 × 3	1240 × 3	1240 × 3	1240 × 3	930 × 2 + 1,240 × 2	930 × 2 + 1,240 × 2	930 + 1,240 × 3	930 + 1,240 × 3	930 + 1,240 × 3	930 + 1,240 × 3	1,240 × 4	1,240 × 4	1,240 × 4	1,240 × 4
	Depth mm	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight	kg	234 × 2 + 257	234 × 2 + 257	234 + 257 × 2	234 + 257 × 2	257 × 3	257 × 3	257 × 3	257 × 3	210 × 2 + 257 × 2	210 × 2 + 257 × 2	210 + 257 × 3	210 + 257 × 3	210 + 257 × 3	210 + 257 × 3	257 × 4	257 × 4	257 × 4	257 × 4
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory charged amount kg	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	9.7 × 2 + 11.8 × 2	9.7 × 2 + 11.8 × 2	9.7 + 11.8 × 3	9.7 + 11.8 × 3	9.7 + 11.8 × 3	9.7 + 11.8 × 3	11.8 × 4	11.8 × 4	11.8 × 4	11.8 × 4
Connection pipe diameter	Liquid mm	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	19.05	22.22	22.22	22.22	22.22
	Gas mm	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operating range	**Cooling** °CDB	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55

NOTES:
- Specifi cations are based on the following conditions:

T1 — Condition : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
T3 — Condition : Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB.
- Specifications and design subject to change without notice for further improvement. Please check with your dealer.
- *1: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

Energy Efficiency Combinations

Rating Capacity range		HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44
		Btu/hr	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
		Ton	12	13.5	15	18	19.5	21	22.5	24	25.5	27	28.5	30	31.5	33
																	
Model name			AJG144JNTAHH-U	AJG162JNTAHH-U	AJG180JNTAHH-U	AJG216JNTAHH-U	AJG234JNTAHH-U	AJG252JNTAHH-U	AJG270JNTAHH-U	AJG288JNTAHH-U	AJG306JNTAHH-U	AJG324JNTAHH-U	AJG342JNTAHH-U	AJG360JNTAHH-U	AJG378JNTAHH-U	AJG396JNTAHH-U
Unit 1 Unit 2 Unit 3			AJG072JNTAH-U AJG072JNTAH-U	AJG090JNTAH-U AJG072JNTAH-U	AJG090JNTAH-U AJG090JNTAH-U	AJG072JNTAH-U AJG072JNTAH-U AJG072JNTAH-U	AJG090JNTAH-U AJG072JNTAH-U AJG072JNTAH-U	AJG108JNTAH-U AJG072JNTAH-U AJG072JNTAH-U	AJG108JNTAH-U AJG090JNTAH-U AJG072JNTAH-U	AJG108JNTAH-U AJG108JNTAH-U AJG072JNTAH-U	AJG108JNTAH-U AJG108JNTAH-U AJG090JNTAH-U	AJG126JNTAH-U AJG108JNTAH-U AJG090JNTAH-U	AJG126JNTAH-U AJG108JNTAH-U AJG108JNTAH-U	AJG126JNTAH-U AJG126JNTAH-U AJG108JNTAH-U	AJG126JNTAH-U AJG126JNTAH-U AJG126JNTAH-U	AJG144JNTAH-U AJG126JNTAH-U AJG126JNTAH-U
Maximum Connectable Indoor Unit			30	34	38	45	49	53	57	60	64	64	64	64	64	64
Indoor unit connectable capacity		kW	22.4 - 67.2	25.2 - 75.6	28.0 - 84.0	33.6 - 100.8	36.4 - 109.2	39.2 - 117.4	42.0 - 125.8	44.7 - 134.1	47.5 - 142.5	50.8 - 152.2	53.5 - 160.5	56.8 - 170.2	60.0 - 180.0	62.5 - 187.5
Power source			3N ~ 380—415 V, 50 Hz / 3N ~ 400 V, 60 Hz									3N ~ 380—415 V, 50 Hz / 3N ~ 400 V, 60 Hz				
Capacity	Cooling(T1)	kW	44.8	50.4	56.0	67.2	72.8	78.3	83.9	89.4	95.0	101.5	107.0	113.5	120.0	125.0
		Btu/h	152,800	171,900	191,000	229,200	248,300	267,100	286,200	305,000	324,100	346,300	365,100	387,300	409,500	426,500
	Cooling(T3)	kW	44.8	50.4	56.0	67.2	72.8	77.2	82.8	87.2	92.8	96.9	101.3	105.4	109.5	112.5
		Btu/h	152,800	171,900	191,000	229,200	248,300	263,300	282,400	297,400	316,500	330,500	345,500	359,500	373,500	383,700
Input power (Outdoor unit)	Cooling(T3)	kW	13.28	15.06	16.84	19.92	21.70	24.05	25.83	28.18	29.96	30.37	32.72	33.13	33.54	34.61
Current (Outdoor Unit)	Cooling(T3)	A	21.2	23.9	26.6	31.8	34.5	38.1	40.8	44.4	47.1	48.0	51.6	52.5	53.4	55.0
Power factor (Outdoor unit)			-	-	-	-	-	-	-	-	-	-	-	-	-	-
EER (Outdoor Unit)	Cooling(T1)	W/W	5.07	4.86	4.71	5.07	4.92	4.70	4.61	4.45	4.40	4.36	4.25	4.23	4.21	4.17
EER (System)	Cooling(T3)	W/W	3.29	3.27	3.25	3.29	3.28	3.14	3.13	3.03	3.03	3.12	3.03	3.11	3.18	3.17
		Btu/h	11.23	11.16	11.09	11.23	11.19	10.71	10.68	10.34	10.34	10.65	10.34	10.61	10.85	10.82
CSPF		Btu/hW	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Air flow rate		m^3/h	10,200 × 2	10,200 × 2	10,200 × 2	10,200 × 3	10,200 × 3	10,200 × 3	10,200 × 3	10,200 × 3	10,200 × 3	10,200 × 2 + 13,700	10,200 × 2 + 13,700	10,200 + 13,700 × 2	13,700 × 3	13,700 × 3
Sound pressure level*1	Cooling	dB(A)	58	58	58	60	60	60	60	60	60	64	64	66	67	67
External static pressure (Max)		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	4.7 × 2	4.7 × 2	4.7 × 2	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 3	4.7 × 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
Dimensions	Height	mm	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740	1,740
	Width		930 × 2	930 × 2	930 × 2	930 × 3	930 × 3	930 × 3	930 × 3	930 × 3	930 × 3	930 × 2 + 1,240	930 × 2 + 1,240	930 + 1,240 × 2	1,240 × 3	1,240 × 3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	210 × 2	210 × 2	210 × 2	210 × 3	210 × 3	210 × 3	210 × 3	210 × 3	210 × 3	210 × 2 + 234	210 × 2 + 234	210 + 234 × 2	234 × 3	234 × 3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Factory charged amount	kg	9.7 × 2	9.7 × 2	9.7 × 2	9.7 × 3	9.7 × 3	9.7 × 3	9.7 × 3	9.7 × 3	9.7 × 3	9.7 × 2 + 11.8	9.7 × 2 + 11.8	9.7 + 11.8 × 2	11.8 × 3	11.8 × 3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling	°CDB	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55	10 to 55

NOTES:
• Specifi cations are based on the following conditions:
T1 — Condition : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
T3 — Condition : Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB.
• Specifications and design subject to change without notice for further improvement. Please check with your dealer.
• *1: Sound pressure level:
  – Measured values in manufacturer's anechoic chamber.
  – Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

Heat Pump type

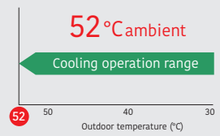
VRF V-III Tropical Series

GENERAL Inc. 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

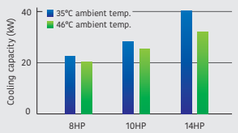
High Ambient Operation Design

Possible to operate cooling up to 52°C outdoor temperature



Powerful Cooling Capacity Design

Keeping high cooling power at even high ambient temperature



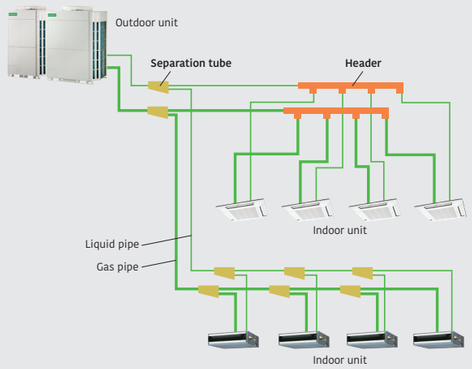
Anti-corrosion Treatment Design

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 high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.

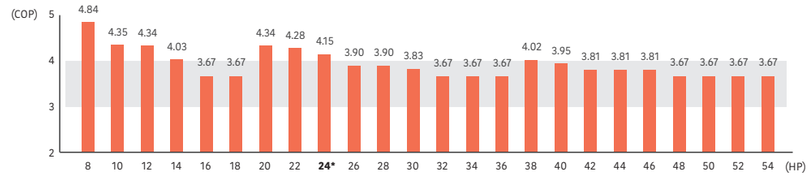


Features

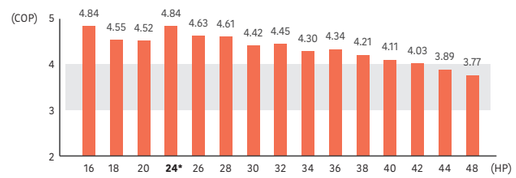
Energy Efficiency

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

Space saving combination



Energy efficiency combination



For 24 HP Combination



COP 17 % UP

The Energy-Saving Technology that Boosted Operation Efficiency



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

All Inverter



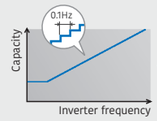
3 phase DC fan motor
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



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



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



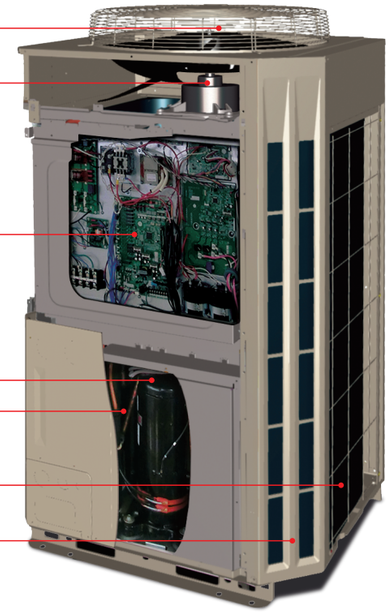


Subcool heat exchanger
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



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

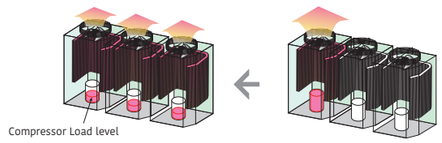
Front intake port (corner cut air inhaling structure)



Advanced Energy Saving Control

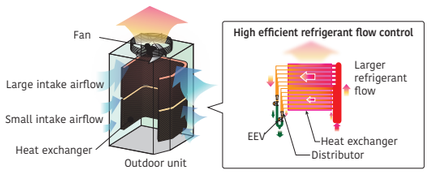
Multiple outdoor operation control

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



Heat Exchanger Refrigerant Control

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



Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combinations

72,000Btu/h (8HP)	90,000Btu/h (10HP)	108,000Btu/h (12HP)	126,000Btu/h (14HP)	144,000Btu/h (16HP)
				
AJH072LN∗∗H	AJH090LN∗∗H	AJH108LN∗∗H	AJH126LN∗∗H	AJH144LN∗∗H
UNIT : AJH072LN∗∗H	UNIT : AJH090LN∗∗H	UNIT : AJH108LN∗∗H	UNIT : AJH126LN∗∗H	UNIT : AJH144LN∗∗H
162,000Btu/h (18HP)	180,000Btu/h (20HP)	198,000Btu/h (22HP)	216,000Btu/h (24HP)	234,000Btu/h (26HP)
				
AJH162LN∗∗H	AJH180LN∗∗H	AJH198LN∗∗H	AJH216LN∗∗H	AJH234LN∗∗H
UNIT : AJH162LN∗∗H	UNIT : AJH090/090LN∗∗H	UNIT : AJH126/072LN∗∗H	UNIT : AJH126/090LN∗∗H	UNIT : AJH144/090LN∗∗H
252,000Btu/h (28HP)	270,000Btu/h (30HP)	288,000Btu/h (32HP)	306,000Btu/h (34HP)	324,000Btu/h (36HP)
				
AJH252LN∗∗H	AJH270LN∗∗H	AJH288LN∗∗H	AJH306LN∗∗H	AJH324LN∗∗H
UNIT : AJH162/090LN∗∗H	UNIT : AJH144/126LN∗∗H	UNIT : AJH144/144LN∗∗H	UNIT : AJH162/144LN∗∗H	UNIT : AJH162/162LN∗∗H
342,000Btu/h (38HP)	360,000Btu/h (40HP)	378,000Btu/h (42HP)	396,000Btu/h (44HP)	414,000Btu/h (46HP)
				
AJH342LN∗∗H	AJH360LN∗∗H	AJH378LN∗∗H	AJH396LN∗∗H	AJH414LN∗∗H
UNIT : AJH162/090/090LN∗∗H	UNIT : AJH144/126/090LN∗∗H	UNIT : AJH144/144/090LN∗∗H	UNIT : AJH162/144/090LN∗∗H	UNIT : AJH162/162/090LN∗∗H
432,000Btu/h (48HP)	450,000Btu/h (50HP)	468,000Btu/h (52HP)	486,000Btu/h (54HP)	
				
AJH432LN∗∗H	AJH450LN∗∗H	AJH468LN∗∗H	AJH486LN∗∗H	
UNIT : AJH144/144/144LN∗∗H	UNIT : AJH162/144/144LN∗∗H	UNIT : AJH162/162/144LN∗∗H	UNIT : AJH162/162/162LN∗∗H	

AJH__LN∗∗H : AJH__LNTDH, AJH__LNLBH

Energy efficiency combinations

144,000Btu/h (16HP)	162,000Btu/h (18HP)	180,000Btu/h (20HP)	216,000Btu/h (24HP)	234,000Btu/h (26HP)
				
AJH144LN∗∗HH	AJH162LN∗∗HH	AJH180LN∗∗HH	AJH216LN∗∗HH	AJH234LN∗∗HH
UNIT : AJH072/072LN∗∗H	UNIT : AJH090/072LN∗∗H	UNIT : AJH108/072LN∗∗H	UNIT : AJH072/072/072LN∗∗H	UNIT : AJH090/072/072LN∗∗H
252,000Btu/h (28HP)	270,000Btu/h (30HP)	288,000Btu/h (32HP)	306,000Btu/h (34HP)	324,000Btu/h (36HP)
				
AJH252LN∗∗HH	AJH270LN∗∗HH	AJH288LN∗∗HH	AJH306LN∗∗HH	AJH324LN∗∗HH
UNIT : AJH108/072/072LN∗∗H	UNIT : AJH126/072/072LN∗∗H	UNIT : AJH108/108/072LN∗∗H	UNIT : AJH126/108/072LN∗∗H	UNIT : AJH108/108/108LN∗∗H
342,000Btu/h (38HP)	360,000Btu/h (40HP)	378,000Btu/h (42HP)	396,000Btu/h (44HP)	414,000Btu/h (46HP)
				
AJH342LN∗∗HH	AJH360LN∗∗HH	AJH378LN∗∗HH	AJH396LN∗∗HH	AJH414LN∗∗HH
UNIT : AJH126/108/108LN∗∗H	UNIT : AJH126/126/108LN∗∗H	UNIT : AJH126/126/126LN∗∗H	UNIT : AJH144/126/126LN∗∗H	UNIT : AJH144/144/126LN∗∗H

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

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



8, 10HP

12, 14, 16, 18HP

Dimensions

(Unit : mm)

8,10HP

12,14,16,18HP

Space Saving Combinations

Rating Capacity range			HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
			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	AJH108LN**H	AJH126LN**H	AJH144LN**H	AJH162LN**H	AJH180LN**H	AJH198LN**H	AJH216LN**H	AJH234LN**H	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 Unit 2 Unit 3				AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**H	AJH144LN**H	AJH162LN**H	AJH090LN**H AJH090LN**H	AJH126LN**H AJH072LN**H	AJH126LN**H AJH090LN**H	AJH144LN**H AJH090LN**H	AJH162LN**H AJH090LN**H	AJH144LN**H AJH126LN**H	AJH144LN**H AJH144LN**H	AJH162LN**H AJH144LN**H	AJH162LN**H AJH162LN**H	AJH162LN**H AJH090LN**H	AJH144LN**H AJH126LN**H AJH090LN**H	AJH144LN**H AJH144LN**H AJH090LN**H	AJH162LN**H AJH144LN**H AJH090LN**H	AJH162LN**H AJH162LN**H AJH090LN**H	AJH144LN**H AJH144LN**H AJH144LN**H	AJH144LN**H AJH144LN**H AJH144LN**H	AJH162LN**H AJH144LN**H AJH144LN**H	AJH162LN**H AJH162LN**H AJH144LN**H	AJH162LN**H AJH162LN**H AJH162LN**H
Maximum Connectable Indoor 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 capacity		Cooling	kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4	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				3 phase 4 wire, 400 V, 50Hz											3 phase 4 wire, 400 V, 50Hz												
T1 condition	Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	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		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5	95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
		Cooling	Btu/h	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		85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100	324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
	Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84	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
		Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88	24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
	Current	Cooling	A	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Heating		9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	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		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		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
T3 condition	Capacity	Cooling	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4	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
			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
	Input power		kW	6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.55	22.52	23.64	24.17	24.70	30.75	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
	Current		A	10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER		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
			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	m³/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		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			kW	7.5	7.5	11	11	11	11	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5	11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height		mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
	Width			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	Type			R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	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 diameter	Liquid		mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge Gas			22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
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	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combinations

Rating Capacity range			HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
			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 Unit 2 Unit 3				AJH072LN**H AJH072LN**H	AJH090LN**H AJH072LN**H	AJH108LN**H AJH072LN**H	AJH072LN**H AJH072LN**H AJH072LN**H	AJH090LN**H AJH072LN**H AJH072LN**H	AJH108LN**H AJH072LN**H AJH072LN**H	AJH126LN**H AJH072LN**H AJH072LN**H	AJH108LN**H AJH108LN**H AJH072LN**H	AJH126LN**H AJH108LN**H AJH072LN**H	AJH108LN**H AJH108LN**H AJH108LN**H	AJH126LN**H AJH108LN**H AJH108LN**H	AJH126LN**H AJH126LN**H AJH108LN**H	AJH126LN**H AJH126LN**H AJH126LN**H	AJH144LN**H AJH126LN**H AJH126LN**H	AJH144LN**H AJH144LN**H AJH144LN**H
Maximum Connectable Indoor Unit				26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit connectable capacity		Cooling	kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	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				3 phase 4 wire, 400 V, 50Hz								3 phase 4 wire, 400 V, 50Hz						
T1 condition	Capacity	Cooling	kW	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		50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
		Cooling	Btu/h	152800	171900	190700	229200	248300	267100	289300	305000	327200	342900	365100	387300	409500	426500	443500
		Heating		170600	192800	213300	255900	278100	298600	324100	341300	366800	384000	409500	435000	460500	477600	494700
	Input power	Cooling	kW	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
		Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
	Current	Cooling	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Heating		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER	Cooling	W/W	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		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		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
T3 condition	Capacity	Cooling	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
			Btu/h	137800	154900	166100	206700	223800	235000	247000	263300	275300	291600	303600	315600	327600	338200	348800
	Input power		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
	Current		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
			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	m³/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 pressure 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
Maximum external static pressure			Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output			kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	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 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
Dimensions	Height		mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
	Width			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	279×3
Refrigerant	Type			R410A	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 pipe diameter	Liquid		mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge Gas			28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operating range	Cooling		°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating			-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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)

VRF INDOOR UNITS

for VC-V

INDOOR UNITS Lineup

3D Flow Cassette

One Way Flow Cassette

Compact Cassette

Circular Flow Cassette

Mini Duct

Slim Duct

Medium Static Pressure Duct

High Static Pressure Duct

Floor / Ceiling

Ceiling

Wall-mounted (EEV Internal / external)

for V-III Tropical and J-III series Tropical

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)



A lineup with air conditioning capacities ranging from a minimum of 2.2 kW to a maximum of 28 kW. 13 types are 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, GENERAL Inc. 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 Unit Lineup for VC-V

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

Indoor units range

Capacity range			Btu/h	7,000	9,000	12,000	14,000	18,000	24,000	30,000	34,000	36,000	45,000	54,000	60,000	72,000	90,000	96,000
			kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
Cassette	3D Flow							AUGS018GLEH-U	AUGS024GLEH-U									
	1-way Flow			AUGV007GLEH-U	AUGV009GLEH-U	AUGV012GLEH-U	AUGV014GLEH-U	AUGV018GLEH-U	AUGV024GLEH-U									
	Compact 4-way Flow Fits grid ceiling			AUGB007GLEH-U AUGB007GTEH-U	AUGB009GLEH-U AUGB009GTEH-U	AUGB012GLEH-U AUGB012GTEH-U	AUGB014GLEH-U AUGB014GTEH-U	AUGB018GLEH-U AUGB018GTEH-U	AUGB024GLEH-U AUGB024GTEH-U									
	Circular Flow	Slim type			AUGN009GLAH-U	AUGN012GLAH-U	AUGN014GLAH-U	AUGM018GLEH-U AUGM018GTEH-U	AUGM024GLEH-U AUGM024GTEH-U									
		Large type						AUGK018GLEH-U AUGK018GTEH-U	AUGK024GLEH-U AUGK024GTEH-U	AUGK030GLEH-U AUGK030GTEH-U	AUGK034GLEH-U AUGK034GTEH-U	AUGK036GLEH-U AUGK036GTEH-U	AUGK045GLEH-U AUGK045GTEH-U	AUGK054GLEH-U AUGK054GTEH-U				
Duct	Low Static Pressure	Mini Duct (With drain pump)		ARGK007GLGH-U	ARGK009GLGH-U	ARGK012GLGH-U	ARGK014GLGH-U	ARGK018GLGH-U	ARGK024GLGH-U									
		Mini Duct (Without drain pump)		ARGK007GLHH-U	ARGK009GLHH-U	ARGK012GLHH-U	ARGK014GLHH-U	ARGK018GLHH-U	ARGK024GLHH-U									
		Slim Duct (With drain pump)		ARGD007GLEH-U ARGD007GTEH-U	ARGD009GLEH-U ARGD009GTEH-U	ARGD012GLEH-U ARGD012GTEH-U	ARGD014GLEH-U ARGD014GTEH-U	ARGD018GLEH-U ARGD018GTEH-U	ARGD024GLEH-U ARGD024GTEH-U									
	Low Static Pressure													ARGB054GTAH				
	Medium Static Pressure								ARGA024GLEH-U ARGA024GTEH-U	ARGA030GLEH-U ARGA030GTEH-U		ARGA036GLEH-U ARGA036GTEH-U	ARGA045GLEH-U ARGA045GTEH-U					
	High Static Pressure											ARGC036GTEH-U	ARGC045GTEH-U		ARGC060GTEH-U	ARGC072GTEH-U	ARGC090GTEH-U	ARGC096GTEH-U
Floor	Standard (Same as Ceiling models)					ABGA012GTEH-U	ABGA014GTEH-U	ABGA018GTEH-U	ABGA024GTEH-U									
	Slim Concealed Floor (Same as Slim Duct models)			ARGD007GLEH-U ARGD007GTEH-U	ARGD009GLEH-U ARGD009GTEH-U	ARGD012GLEH-U ARGD012GTEH-U	ARGD014GLEH-U ARGD014GTEH-U	ARGD018GLEH-U ARGD018GTEH-U	ARGD024GLEH-U ARGD024GTEH-U									
Ceiling						ABGA012GTEH-U	ABGA014GTEH-U	ABGA018GTEH-U	ABGA024GTEH-U	ABGA030GTEH-U		ABGA036GTEH-U	ABGA045GTEH-U	ABGA054GTEH-U				
Wall Mounted		EEV Internal		ASGA007GCGH-U	ASGA009GCGH-U	ASGA012GCGH-U	ASGA014GCGH-U	ASGA18GBCH-U	ASGA24GBCH-U	ASGA030GTEH-U	ASGA034GTEH-U							
		EEV external		ASGE007GCEH-U	ASGE009GCEH-U	ASGE012GCEH-U	ASGE014GCEH-U	With this model, connection of EV kit is necessary.										

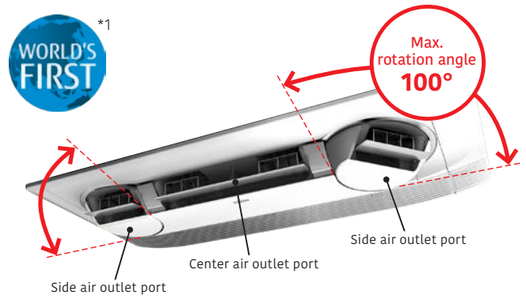
Cassette
3D Flow



DC FAN

3 Individually Controlled Air Outlet Ports

The Comfortable airflow setting enables the left and right air outlet ports as well as the wide center port to work together to provide a comfortable room environment.



*1: Announced 2018. In the category of room air conditioners for the home (source: General Limited).

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



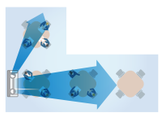
Testing conditions: Model AUXS024GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in our 40m² environmental test room



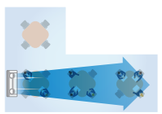
Testing conditions: Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in our 40m² environmental test room

Individual Airflow Setting

The individual airflow setting function optimizes the airflow direction to match the room layout.



Adjusts airflows from the side air outlet ports to match the layout and usage of the room to minimize the amount of wasted airflow.





The airflow is optimally controlled to provide improved comfort in a narrow room.

Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel, Design type and Central remote controller*. The airflow from each air outlet port can be set individually.



Wired remote controller (Design type)
UTY-RVRG



Wired remote controller with Touch Panel
UTY-RNRGZ5

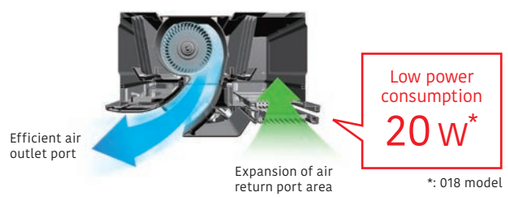


Central remote controller
UTY-DCGGZ4

* Feature available only on UTY-RNRGZ5 Wired remote controller with touch panel and UTY-DCGGZ4 Central remote controller

High Energy Saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.



*: 018 model

Model: AUGS018GLEH-U / AUGS024GLEH-U



Specifications

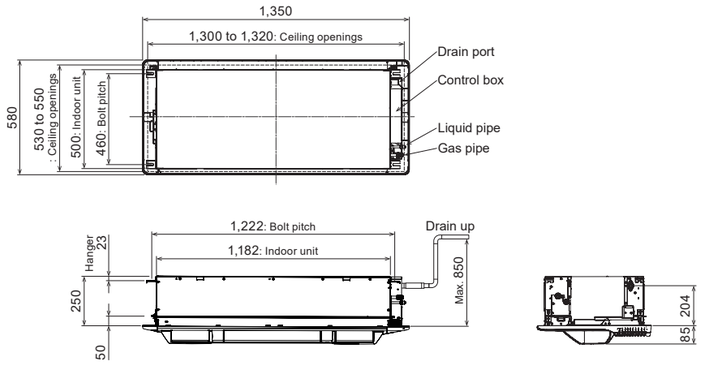
Model name			AUGS018GLEH-U	AUGS024GLEH-U
Power source			Single phase, 220-240V, ~50/60 Hz	
Capacity	Cooling	kW	5.60	7.10
Input power		W	20	34
Airflow rate	High	m³/h (l/s)	750(208)	950(264)
	Med-High		710(197)	890(247)
	Med		690(192)	860(239)
	Med-Low		660(183)	810(225)
	Low		630(175)	770(214)
	Quiet		540(150)	540(150)
Sound pressure level	High	dB (A)	38	43
	Med-High		36	42
	Med		35	41
	Med-Low		35	40
	Low		33	38
	Quiet		29	29
Dimensions (H × W × D)		mm	200 × 1,240 × 500	200 × 1,240 × 500
Weight		kg(lbs)	25(55)	25(55)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52
	Gas (Flare)		12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32	
Cassette Grille	Model name		UTG-USGA-W	
	Dimensions (H×W×D)	mm	85 × 1,350 × 580	
	Weight	kg(lbs)	11.5(25)	

Note: Specifications are subject to 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]
*: Applicable to cooling and heating operation

Optional parts

WLAN adapter: UTY-TFSXJ3
IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-USGA-W
Remote sensor unit: UTY-XSZXZ1
External power supply unit: UTZ-GXXA, UTZ-GXXC

Dimensions (Unit: mm)



Cassette
1-way Flow



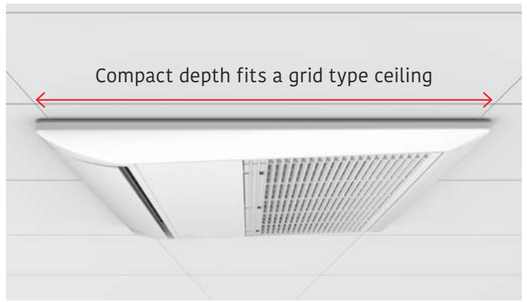
DC FAN

Compact Chassis Size

The compact size allows easy installation in a variety of commercial
facilities and environments.
- The height of the chassis is less than 200 mm for all models.
- All 7 to 12 kBtu models are less than 1,000 mm wide.
- The depth of the chassis is 570 mm, which fits nicely into a grid type ceiling.

Dimensions (Panel size) (Unit: mm)

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



Wide Airflow Range

A large flap with a wide range of movements, equipped with louvers arranged triangularly, sends air into every corner of the room.



In cooling mode, the left/right airflow reaches every corner of the room without directly touching the human body to provide comfortable air conditioning.



In heating mode, warm air is directed downward toward the floor to warm the feet and lower body, while the head is kept relatively cool.



Note: This is a conceptual drawing. The performance of an air conditioner may vary depending on where it is installed, the size of the room, and its distance from the wall.

Quiet Mode

The low operating noise makes the model ideal for use in hotel rooms.



Model: AUGV007GLEH-U / AUGV009GLEH-U / AUGV012GLEH-U
AUGV014GLEH-U / AUGV018GLEH-U / AUGV024GLEH-U



AUGV007 / 009 / 012GLEH-U



AUGV014 / 018 / 024GLEH-U

Specifications

Model name			AUGV007GLEH-U	AUGV009GLEH-U	AUGV012GLEH-U	AUGV014GLEH-U	AUGV018GLEH-U	AUGV024GLEH-U
Power source			Single phase, 220-240V, ~50/60 Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Input power		W	42	42	60	38	56	99
Airflow rate	High	m³/h (l/s)	550 (153)	550 (153)	670 (186)	720 (200)	890 (247)	1,150 (319)
	Med-High		440 (122)	440 (122)	520 (144)	660 (183)	840 (233)	1,020 (283)
	Med		420 (117)	420 (117)	480 (133)	630 (175)	770 (214)	940 (261)
	Med-Low		400 (111)	400 (111)	450 (125)	600 (167)	710 (197)	790 (219)
	Low		380 (106)	380 (106)	410 (114)	580 (161)	660 (183)	700 (194)
	Quiet		360 (100)	360 (100)	360 (100)	550 (153)	580 (161)	610 (169)
Sound pressure level	High	dB (A)	42	42	45	37	44	49
	Med-High		37	37	41	36	43	47
	Med		36	36	39	35	40	45
	Med-Low		35	35	38	34	38	42
	Low		33	33	36	33	36	39
	Quiet		32	32	32	32	34	36
Dimensions (H × W × D)		mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570
Weight		kg(lbs)	19(42)	19(42)	19(42)	26(57)	26(57)	27(60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille	Model name		UTG-UNGA-W			UTG-UNGB-W		
	Dimensions (H×W×D)	mm	43 × 950 × 620			43 × 1,360 × 620		
	Weight	kg(lbs)	6.5(14)			8.5(19)		

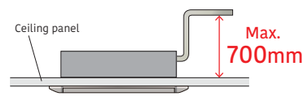
Note: Specifications are subject to the following conditions:
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and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

Optional parts

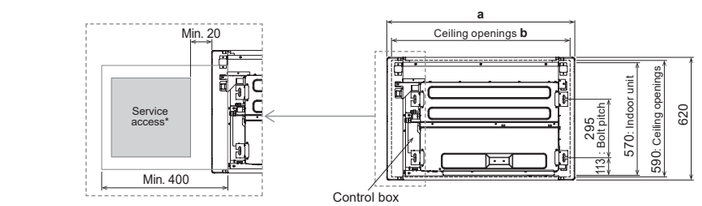
WLAN adapter:	UTY-TFSXJ3
IR Receiver Unit:	UTY-TRHX
Cassette Grille:	UTG-UNGA-W (007-012), UTG-UNGB-W (014-024)
External power supply unit:	UTZ-GXXA, UTZ-GXXC
Remote sensor unit:	UTY-XSZXZ1

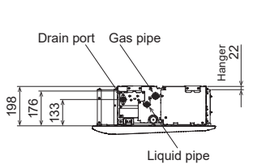
Flexible Installation

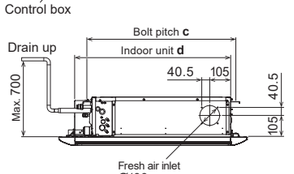
The L-shaped pipe kit allows for more flexible installation.
Equipped with a built-in drain pump as standard, which enables a maximum pipe height difference of 700 m from the ceiling.



Dimensions (Unit: mm)







	AUGV 007 / 009 / 012 GLEH-U	AUGV 014 / 018 / 024 GLEH-U
a	950	1,360
b	920	1,330
c	752	1,152
d	785	1,190

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

Cassette

Compact 4-way Flow

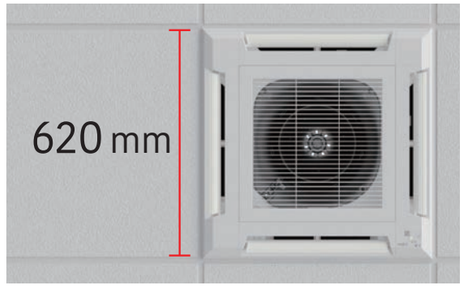
Fits grid ceiling



DC FAN

Compact and Stylish Panel

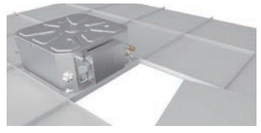
The compact and stylish panel fits nicely into a grid type ceiling. The linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.



Easy Maintenance

You can access the unit for maintenance just by removing a ceiling panel right next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.





The air inlet grille can be installed to open in any direction for easy maintenance.



Flexible Installation

The unit fits nicely into the decor of a grid type ceiling and can be installed near a lighting or a ventilation opening.



High Ceiling Mode

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

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
007	2.7	–
009	2.7	–
012	2.7	3.0
014	2.7	3.0
018	2.7	3.0
024	2.7	3.0

Model: AUGB007GLEH-U / AUGB009GLEH-U / AUGB012GLEH-U
AUGB014GLEH-U / AUGB018GLEH-U / AUGB024GLEH-U

AUGB007GTEH-U / AUGB009GTEH-U / AUGB012GTEH-U
AUGB014GTEH-U / AUGB018GTEH-U / AUGB024GTEH-U



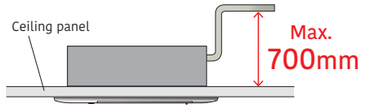
Specifications

Model name			AUGB007GLEH-U AUGB007GTEH-U	AUGB009GLEH-U AUGB009GTEH-U	AUGB012GLEH-U AUGB012GTEH-U	AUGB014GLEH-U AUGB014GTEH-U	AUGB018GLEH-U AUGB018GTEH-U	AUGB024GLEH-U AUGB024GTEH-U
Power source			Single phase, 220-240V, ~50/60Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Input power		W	25	25	29	35	36	84
Airflow rate	High	m³/h (l/s)	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med-High		500 (139)	520 (144)	560 (156)	620 (172)	660 (183)	910 (253)
	Med		460 (128)	480 (133)	520 (144)	560 (156)	590 (164)	790 (219)
	Med-Low		420 (117)	440 (122)	480 (133)	500 (139)	520 (144)	680 (189)
	Low		390 (108)	400 (111)	430 (119)	440 (122)	460 (128)	560 (156)
	Quiet		350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	dB (A)	34	35	37	38	41	50
	Med-High		32	33	34	37	39	46
	Med		30	31	33	34	36	43
	Med-Low		28	29	31	32	33	39
	Low		27	27	29	30	30	35
	Quiet		25	25	27	27	27	30
Dimensions (H × W × D)		mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	15(33)	15(33)	2.3(5)	2.3(5)	2.3(5)	2.3(5)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille	Model name		UTG-UFGE-W					
	Dimensions (H×W×D)	mm	50 × 620 × 620					
	Weight	kg(lbs)	2.3(5)					

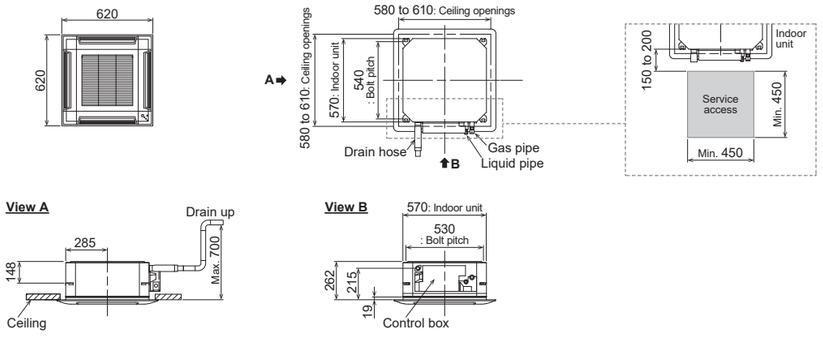
Note: Specifications are subject to the following conditions:
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and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

Optional parts

Air Outlet Shutter Plate:	UTR-YDZB	Cassette Grille:	UTG-UFGE-W
Flesh Air Intake Kit:	UTZ-VXAA	External power supply unit:	UTZ-GXXA, UTZ-GXXC
Insulation Kit for high humidity:	UTZ-KXGC	WLAN adapter:	UTY-TFSXJ3
Remote sensor unit:	UTY-XSZXZ1		



Dimensions (Unit: mm)



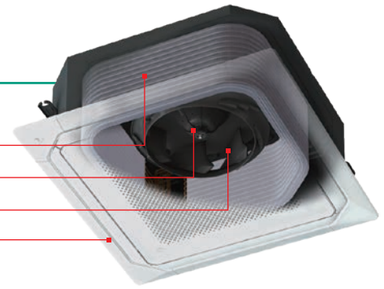
Cassette
Circular Flow
Slim type



DC FAN

Unique Circular Flow Design

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



Uniform Temperature Air Conditioning

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

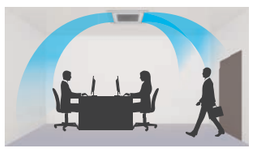




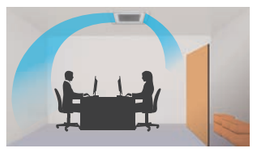
Individual Louver Control

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

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ4) only



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



Efficient air conditioning based on the room layout

The Occupancy Sensor Contributes to Further Energy Savings

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

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ4) only



Occupancy sensor (Optional)

2 modes can be selected

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

Model: AUGN009GLAH-U / AUGN012GLAH-U
AUGN014GLAH-U

AUGM018GLEH-U / AUGM024GLEH-U

AUGM018GTEH-U / AUGM024GTEH-U



Black panel

Specifications

Model name			AUGN009GLAH-U	AUGN012GLAH-U	AUGN014GLAH-U	AUGM018GLEH-U AUGM018GTEH-U	AUGM024GLEH-U AUGM024GTEH-U
Power source			Single phase, 220-240V, ~50/60Hz				
Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1
Input power		W	20	20	20	20	25
Airflow rate	High	m³/h (l/s)	1,050 (292)	1,050 (292)	1,050 (292)	1,050 (292)	1,120 (311)
	Med-High		930 (258)	930 (258)	930 (258)	930 (258)	1,050 (292)
	Med		900 (250)	900 (250)	900 (250)	900 (250)	930 (258)
	Med-Low		870 (242)	870 (242)	870 (242)	870 (242)	900 (250)
	Low		810 (225)	810 (225)	810 (225)	810 (225)	870 (242)
	Quiet		780 (217)	780 (217)	780 (217)	780 (217)	780 (217)
Sound pressure level	High	dB (A)	33	33	33	33	35
	Med-High		32	32	32	32	33
	Med		31	31	31	31	32
	Med-Low		30	30	30	30	31
	Low		29	29	29	29	30
	Quiet		28	28	28	28	28
Dimensions (H × W × D)		mm	246×840×840	246×840×840	246×840×840	246×840×840	246×840×840
Weight		kg(lbs)	24.5(54)	24.5(54)	24.5(54)	24(53)	24.5(54)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32				
Cassette Grille	Model name		UTG-UKGD-W and UTG-UKGC-W / UTG-UKGA-B				
	Dimensions (H×W×D)	mm	53 × 950 × 950				
	Weight	kg(lbs)	6(13)				

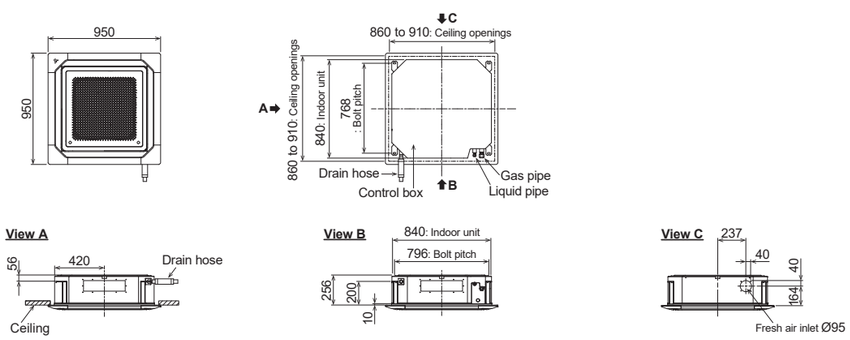
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

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

Optional parts

Occupancy Sensor Kit:	UTY-SHZXC	Cassette Grille:	UTG-UKGD-W	IR Receiver Unit:	UTY-LBHXD	External power supply unit:	UTZ-GXXA, UTZ-GXXC
Wide Panel:	UTG-AKXA-W		UTG-UKGA-B	Air Outlet Shutter Plate:	UTR-YDZK	WLAN adapter:	UTY-TFSXJ3
Panel Spacer:	UTG-BKXA-W		UTG-UKGC-W	Insulation Kit for High Humidity:	UTZ-KXRA	Remote sensor unit:	UTY-XSZXZ1

Dimensions (Unit: mm)



Cassette

Circular Flow

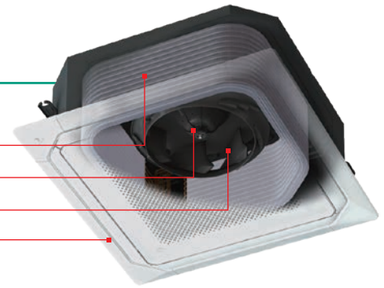
Large type



DC FAN

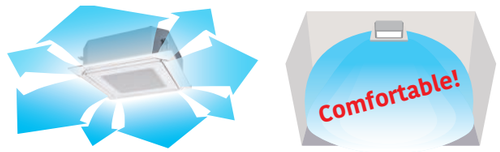
Unique Circular Flow Design

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



Uniform Temperature Air Conditioning

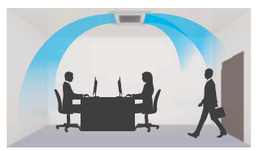
Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



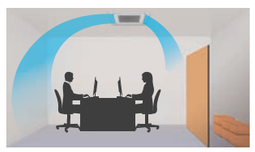
Individual Louver Control

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

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ4) only



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



Efficient air conditioning based on the room layout

The Occupancy Sensor Contributes to Further Energy Savings

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

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ4) only



Occupancy sensor (Optional)

2 modes can be selected

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

Model: AUGK018GLEH-U / AUGK024GLEH-U
AUGK030GLEH-U / AUGK034GLEH-U
AUGK036GLEH-U / AUGK045GLEH-U
AUGK054GLEH-U

AUGK018GTEH-U / AUGK024GTEH-U
AUGK030GTEH-U / AUGK034GTEH-U
AUGK036GTEH-U / AUGK045GTEH-U
AUGK054GTEH-U



Black panel

Specifications

Model name			AUGK018GLEH-U AUGK018GTEH-U	AUGK024GLEH-U AUGK024GTEH-U	AUGK030GLEH-U AUGK030GTEH-U	AUGK034GLEH-U AUGK034GTEH-U	AUGK036GLEH-U AUGK036GTEH-U	AUGK045GLEH-U AUGK045GTEH-U	AUGK054GLEH-U AUGK054GTEH-U
Power source			Single phase, 220-240V, ~50/60Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
Input power		W	40	40	47	47	61	89	116
Airflow rate	High	m³/h (l/s)	1,420 (394)	1,420 (394)	1,440 (400)	1,440 (400)	1,620 (450)	1,820 (506)	2,040 (567)
	Med-High		1,360 (378)	1,360 (378)	1,400 (389)	1,400 (389)	1,500 (417)	1,590 (442)	1,800 (500)
	Med		1,300(361)	1,300(361)	1,340 (372)	1,340 (372)	1,400 (389)	1,500 (417)	1,590 (442)
	Med-Low		1,270 (353)	1,270 (353)	1,300(361)	1,300(361)	1,340 (372)	1,400 (389)	1,440 (400)
	Low		1,200 (333)	1,200 (333)	1,280 (356)	1,280 (356)	1,280 (356)	1,300 (361)	1,300 (361)
	Quiet		1,150 (319)	1,150 (319)	1,150 (319)	1,150 (319)	1,150 (319)	1,150 (319)	1,150 (319)
Sound pressure level	High	dB (A)	38	38	39	39	41	44	47
	Med-High		37	37	38	38	40	42	45
	Med		36	36	37	37	38	40	42
	Med-Low		35	35	36	36	37	38	39
	Low		34	34	35	35	35	36	36
	Quiet		33	33	33	33	33	33	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)	26.5(58)	26.5(58)	29.5(65)	29.5(65)	29.5(65)	29.5(65)	29.5(65)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UKGD-W and UTG-UKGC-W / UTG-UKGA-B						
	Dimensions (H×W×D)	mm	53 × 950 × 950						
	Weight	kg(lbs)	6(13)						

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

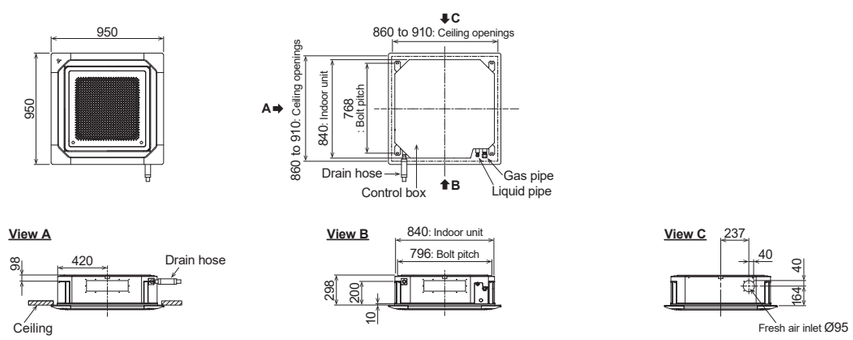
When AUXK036GTAH is connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.

Optional parts

Occupancy Sensor Kit:	UTY-SHZXC	Cassette Grille:	UTG-UKGD-W	IR Receiver Unit:	UTY-LBHXD
Wide Panel:	UTG-AKXA-W		UTG-UKGA-B	Air Outlet Shutter Plate:	UTR-YDZK
Panel Spacer:	UTG-BKXA-W		UTG-UKGC-W	Insulation Kit for High Humidity:	UTZ-KXRA, UTZ-KXGA

External power supply unit:	UTZ-GXXA, UTZ-GXXC
WLAN adapter:	UTY-TFSXJ3
Remote sensor unit:	UTY-XSZXZ1

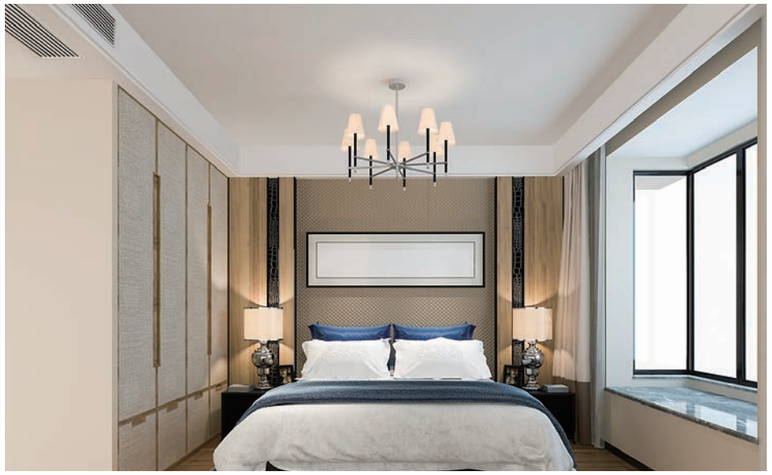
Dimensions (Unit: mm)



Duct

Low Static Pressure

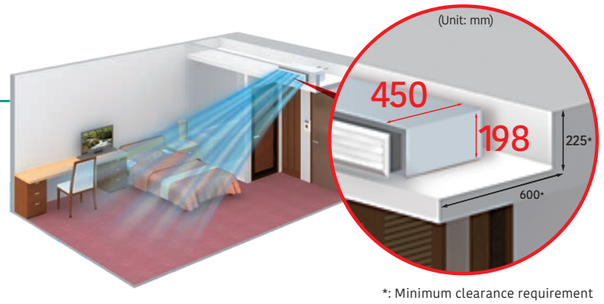
Mini Duct



DC FAN

Optimum Design in Harmony with Interior Decoration

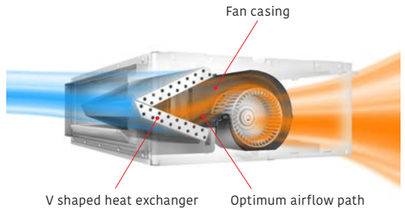
Thin and short-depth body makes the clipped ceiling design



*: Minimum clearance requirement

Advanced Performance by Shaped Heat Exchanger and Airflow

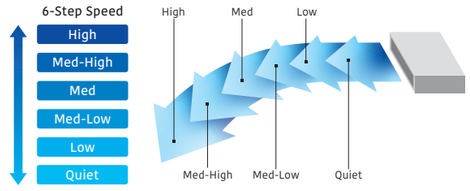
Air blower is improved so that velocity distribution is optimum in accordance with the heat exchanger shape. Wide range and uniform airflow can be received due to heat exchanger.



6-Speed Control*

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

Low noise
21 dB(A)
at 07/09models



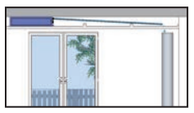
* Compatible Remote Controller is as follows:
UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ4 / UTY-ALGXZ1 / UTY-APGXZ1

Easy Drain Design Even at Narrow Ceiling

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

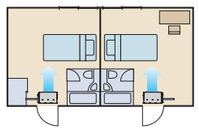
Models without drain pump:
Both sides drainage is possible.

Models with drain pump



For models with drain pump, drain design is easy even at narrow ceiling.

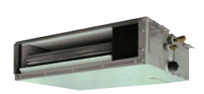
Models without drain pump



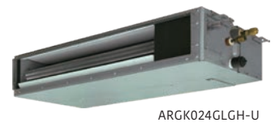
For models without drain pump,both sides drainage is possible and drain design is easy.

Model: (With drain pump)
ARGK007GLGH-U / ARGK009GLGH-U
ARGK012GLGH-U / ARGK014GLGH-U
ARGK018GLGH-U / ARGK024GLGH-U

(Without drain pump)
ARGK007GLHH-U / ARGK009GLHH-U
ARGK012GLHH-U / ARGK014GLHH-U
ARGK018GLHH-U / ARGK024GLHH-U


ARGK007/009/012/014GLGH-U


ARGK018GLGH-U


ARGK024GLGH-U


ARGK007/009/012/014GLHH-U


ARGK018GLHH-U


ARGK024GLHH-U

Specifications

Model name			ARGK007GLGH-U ARGK007GLHH-U	ARGK009GLGH-U ARGK009GLHH-U	ARGK012GLGH-U ARGK012GLHH-U	ARGK014GLGH-U ARGK014GLHH-U	ARGK018GLGH-U ARGK018GLHH-U	ARGK024GLGH-U ARGK024GLHH-U
Power source			Single phase, 220-240V, ~50/60Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Input power	GLGH / GLHH	W	28 / 21	28 / 21	35 / 28	66 / 59	73 / 66	80 / 73
Airflow rate	High	m³/h (l/s)	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)
	Med		420 (117)	420 (117)	480 (133)	560 (156)	740 (206)	960 (267)
	Med-Low		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		Pa	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure			10	10	10	15	15	15
Sound pressure level	High	dB (A)	26	26	29	34	33	32
	Med-High		25	25	27	31	30	30
	Med		24	24	26	28	28	28
	Med-Low		23	23	25	26	26	27
	Low		22	22	24	24	24	25
	Quiet		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 × 450
Weight	GLGH / GLHH	kg(lbs)	15.5(34) / 15.0(33)	15.5(34) / 15.0(33)	16.0(35) / 15.5(34)	16.0(35) / 15.5(34)	19.0(42) / 18.5(41)	22.5(50) / 22.0(49)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

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

Optional parts

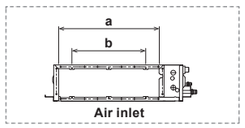
Auto louvre grille kit:	UTD-GXTA-W (for ARGK007 - 014)	Remote sensor unit:	UTY-XSZXZ1
	UTD-GXTB-W (for ARGK018)	IR Receiver Unit:	UTY-TRHX
	UTD-GXTC-W (for ARGK024)	WLAN adapter:	UTY-TFSXJ3
External power supply unit:	UTZ-GXXA, UTZ-GXXC		

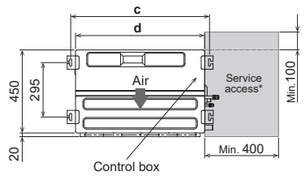
Auto Louver Grille Kit (Option)

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



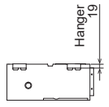
Dimensions (Unit: mm)

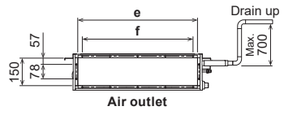


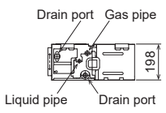


	ARGK007-014	ARGK018	ARGK024
a	575	775	975
b	P200×2=400	P200×3=600	P200×4=800
c	752	952	1,152
d	700	900	1,100
e	650	850	1,050
f	P100×6=600	P100×8=800	P100×10=1,000

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







Duct

Low Static Pressure

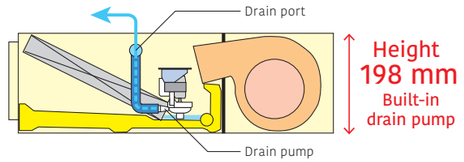
Slim Duct / Slim Concealed Floor
(With drain pump)



DC FAN

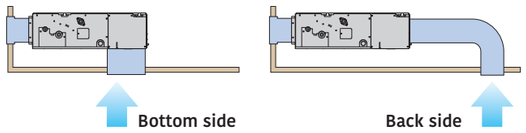
Slim Design

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



Air Intake

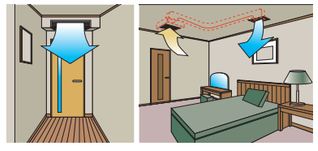
Air intake direction can be selected to match the installation site.



Flexible Installation

Ceiling concealed





Floor concealed





Wide Range of Static Pressures

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.

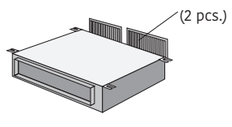


Static pressure range
0 to 90 Pa

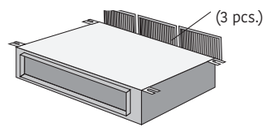
*24 model is 0 to 50 Pa

Filter (Accessory)

ARGD07 / 09 / 12 / 14 / 18



ARGD24

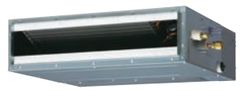


Model: ARGD007GLEH-U / ARGD009GLEH-U / ARGD012GLEH-U
ARGD014GLEH-U / ARGD018GLEH-U / ARGD024GLEH-U

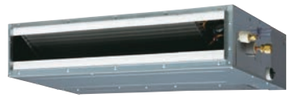
ARGD007GTEH-U / ARGD009GTEH-U / ARGD012GTEH-U
ARGD014GTEH-U / ARGD018GTEH-U / ARGD024GTEH-U

Slim Concealed Floor

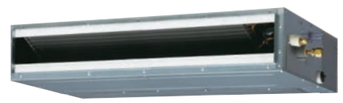




ARGD007/009/012/014GLEH-U
ARGD007/009/012/014GTEH-U



ARGD018GLEH-U
ARGD018GTEH-U



ARGD024GLEH-U
ARGD024GTEH-U

Specifications

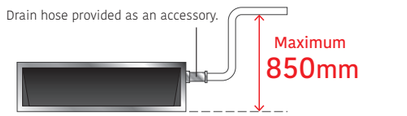
Model name			ARGD007GLEH-U ARGD007GTEH-U	ARGD009GLEH-U ARGD009GTEH-U	ARGD012GLEH-U ARGD012GTEH-U	ARGD014GLEH-U ARGD014GTEH-U	ARGD018GLEH-U ARGD018GTEH-U	ARGD024GLEH-U ARGD024GTEH-U
Power source			Single phase, 220-240V, ~50/60Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Input power		W	44	50	54	92	83	122
Airflow rate	High	m³/h (l/s)	550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)
	Med-High		480 (133)	510 (142)	530 (147)	680 (189)	820 (228)	1,140 (317)
	Med		440 (122)	460 (128)	490 (136)	600 (167)	730 (203)	1,020 (283)
	Med-Low		410 (114)	420 (117)	450 (125)	520 (144)	630 (175)	900 (250)
	Low		370 (103)	370 (103)	410 (114)	440 (122)	540 (150)	780 (217)
	Quiet		320 (89)	320 (89)	340 (94)	340 (94)	470 (131)	610 (169)
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25
Sound pressure level	High	dB (A)	28	29	30	34	34	35
	Med-High		26	27	28	32	31	31
	Med		25	25	27	30	29	29
	Med-Low		24	24	26	28	27	27
	Low		22	22	24	25	25	24
	Quiet		21	21	22	22	23	21
Dimensions (H × W × D)		mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg(lbs)	17(37)	17(37)	18(40)	18(40)	22(49)	26(57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

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

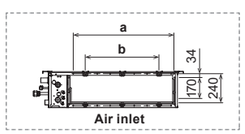
Optional parts

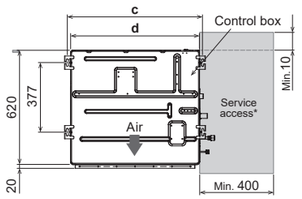
Auto louvre grille kit: UTD-GXTA-W (for ARGD007 - 014)
UTD-GXTB-W (for ARGD018)
UTD-GXTC-W (for ARGD024)
External power supply unit: UTZ-GXXA, UTZ-GXXC

Remote sensor unit: UTY-XSZXZ1
IR Receiver Unit: UTY-TRHX
WLAN adapter: UTY-TFSXJ3

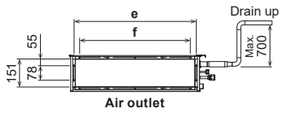


Dimensions (Unit: mm)



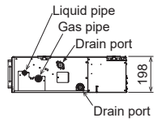






	ARGD007-014	ARGD018	ARGD024
a	574	774	974
b	P200×2=400	P200×3=600	P200x4=800
c	734	934	1,134
d	700	900	1,100
e	650	850	1,050
f	P100×6=600	P100×8=800	P100×10=1,000

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



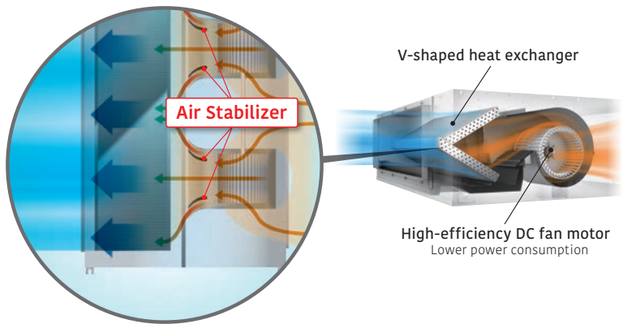
Duct
Low Static Pressure



DC FAN

High-Efficiency & Quiet Operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high-efficiency DC fan motor enable high-efficiency and quiet operation.



Automatic Airflow Adjustment Function

This unique and innovative function detects required air flow in each application case and automatically adjust the volume.



Link Up with a Variety of Central Control System (Option)

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



Central Control System

Model: ARGB054GTAH



Specifications

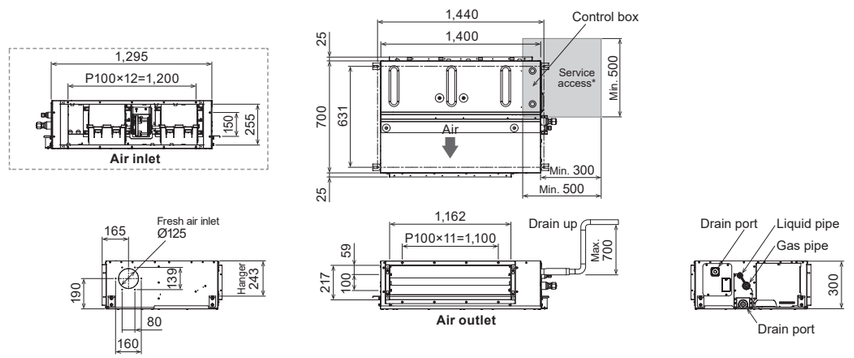
Model name			ARGB054GTAH
Power source			Single phase, 220-240V, 50Hz
Capacity	Cooling	kW	16.0
	Heating		18.0
Input power		W	333
Airflow rate	High	m^3/h (l/s)	2,700 (750)
	Med		2,390 (664)
	Low		1,470 (408)
Static pressure range		Pa	0 to 100
Standard static pressure			100
Sound pressure level	High	dB (A)	43
	Med		40
	Low		30
Dimensions (H × W × D)		mm	300 × 1,400 × 700
Weight		kg(lbs)	47
Connection pipe diameter	Liquid	mm	9.52 (Flare)
	Gas		19.05 (Flare)
Drain hose diameter (I.D./O.D.)			25/32

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

Optional parts

Long-life filter: UTD-LFNA
Remote sensor unit: UTY-XSZX

Dimensions (Unit: mm)



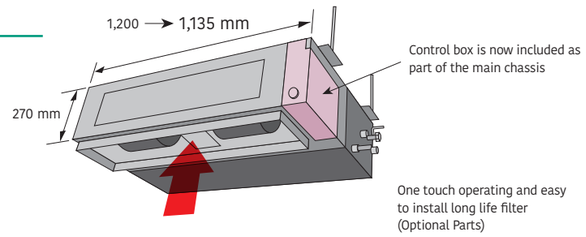
Duct
Medium Static Pressure



DC FAN

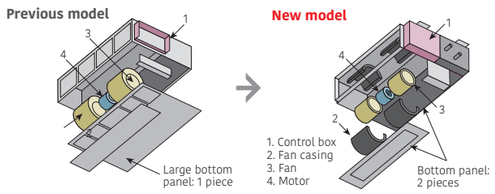
Slim & Compact Design

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.



Easy Maintenance

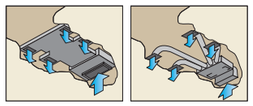
See below for the case of rear suction type



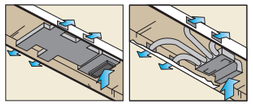
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Installation Styles

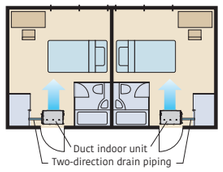
Embedded in Ceiling



Hanging from Ceiling

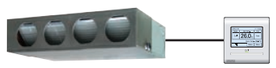


A Drain Pipe can be Installed on Either The Left or Right Side of The Unit



Easy Setting by Using Remote Controller

The change of static pressure range is possible by remote controller



Wide Range of Static Pressures

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

Static pressure range
0 to 150 Pa

Model: ARGA024GLEH-U / ARGA030GLEH-U
ARGA036GLEH-U / ARGA045GLEH-U

ARGA024GTEH-U / ARGA030GTEH-U
ARGA036GTEH-U / ARGA045GTEH-U



Specifications

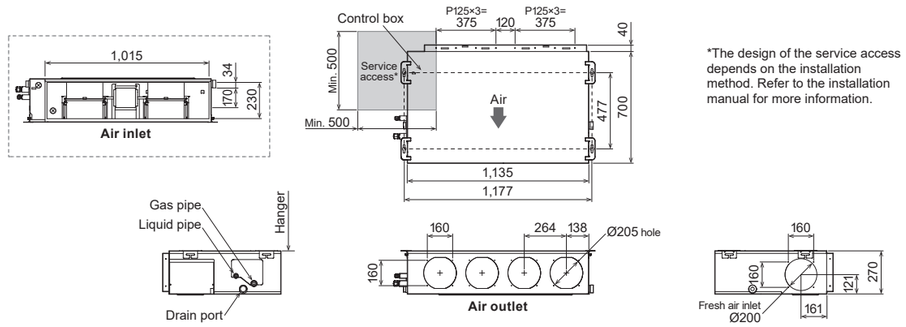
Model name			ARGA024GLEH-U ARGA024GTEH-U	ARGA030GLEH-U ARGA030GTEH-U	ARGA036GLEH-U ARGA036GTEH-U	ARGA045GLEH-U ARGA045GTEH-U
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
Input power		W	94	108	194	240
Airflow rate	High	m³/h (l/s)	1,280 (356)	1,410 (392)	1,840 (511)	1,970 (547)
	Med-High		1,180 (328)	1,350 (375)	1,750 (486)	1,910 (531)
	Med		1,090 (303)	1,280 (356)	1,660 (461)	1,860 (517)
	Med-Low		1,000 (278)	1,240 (344)	1,600 (444)	1,780 (494)
	Low		920 (256)	1,190 (331)	1,530 (425)	1,710 (475)
	Quiet		840 (233)	1,150 (319)	1,470 (408)	1,640 (456)
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB (A)	31	34	37	41
	Med-High		29	33	36	40
	Med		27	32	35	38
	Med-Low		26	31	35	38
	Low		24	30	34	37
	Quiet		23	29	33	36
Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg(lbs)	36(79)	40(88)	40(88)	40(88)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

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

Optional parts

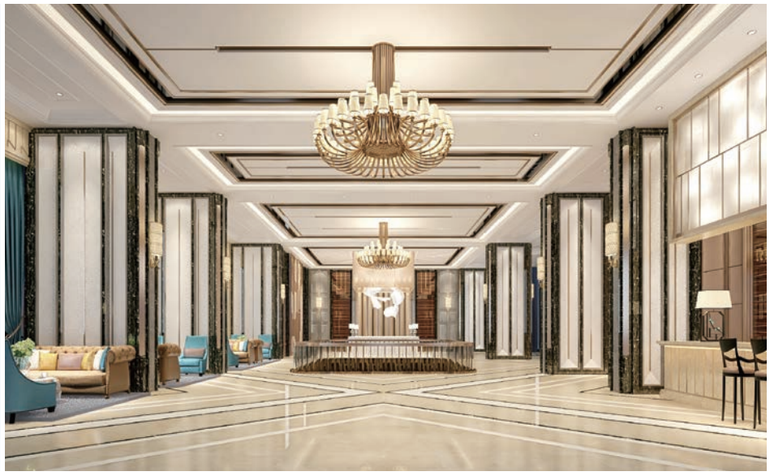
Remote Sensor Unit : UTY-XSZXZ1
Long Life Filter : UTD-LF25NA
Flange (Square) : UTD-SF045T
Flange (Round) : UTD-RF204
IR Receiver Unit : UTY-TRHX, UTB-YWC
Drain Pump Unit : UTZ-PX1NBA
External power supply unit: UTZ-GXXA, UTZ-GXXC
WLAN adapter: UTY-TFSXJ3

Dimensions (Unit: mm)



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

Duct
High Static Pressure



DC FAN

(045/060 are AC fan motor)

Wide Range of Static Pressures

The use of a DC fan motor* makes it possible to adjust the static pressure between 0 to 200 Pa (ARGC036) / 300 Pa (ARGC072/090/096) *ARGC045/060 are AC fan motor.

Maximum 200 Pa (036 type)

Maximum 250 Pa (045 / 060 type)



(ARGC036 / 045 / 060 type)

Maximum 300 Pa



(ARGC072 / 090 type)

Maximum 300 Pa

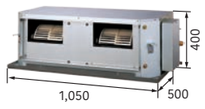


(ARGC096 type)

Easy Installation (Compact size & Lightweight)

The indoor unit is designed to be compact and light by reducing the basic chassis size and the overall material weight.

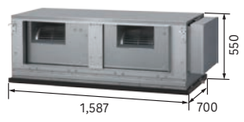
(Unit: mm)



(ARGC036 / 045 / 060 type)



(ARGC072 / 090 type)

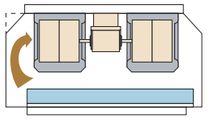


(ARGC096 type)

Low Noise

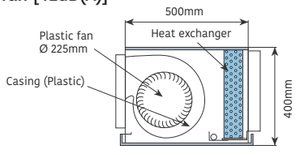
Models : ARGC036

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.



ARGC036GTEH-U : Plastic fan [42dB(A)]

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



High-Efficiency DC Fan Motor* Achieves Low Energy Consumption

Improved motor efficiency compared to the previous model.
*ARGC045/060 are AC fan motor.



(ARGC036type)



(ARGC072 / 090 / 096 type)

Model: ARGC036GTEH-U / ARGC045GTEH-U / ARGC060GTEH-U
ARGC072GTEH-U / ARGC090GTEH-U
ARGC096GTEH-U



ARGC036/045/060GTEH-U



ARGC072/090GTEH-U



ARGC096GTEH-U

Specifications

Model name			ARGC036GTEH-U	ARGC045GTEH-U	ARGC060GTEH-U	ARGC072GTEH-U	ARGC090GTEH-U	ARGC096GTEH-U
Power source			Single phase, 220-240V, ~50/60 Hz					
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0	28.0
Input power		W	207	715	730	681	819	838
Airflow rate	High	m³/h (l/s)	1,990 (553)	3,500 (972)	3,500 (972)	3,900 (1,083)	4,300 (1,195)	4,850 (1,347)
	Med		1,680 (467)	3,000 (833)	3,000 (833)	3,300 (917)	4,000 (1,111)	4,250 (1,181)
	Low		1,330 (369)	2,460 (683)	2,460 (683)	3,000 (833)	3,500 (972)	3,600 (1,000)
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB (A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg(lbs)	40(88)	46(101)	46(101)	84(185)	84(185)	105(232)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	19.05	19.05	22.22
Drain hose diameter (I.D./O.D.)			25 / 32					

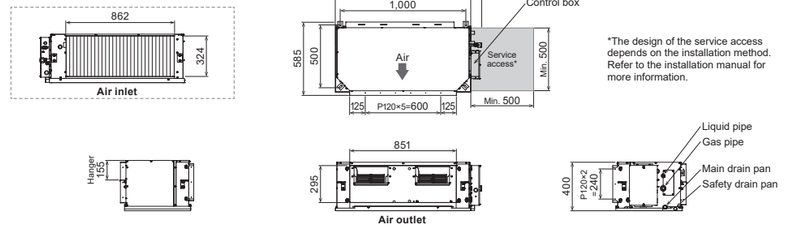
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

Long-Life Filter: UTD-LF60KA (for 036/045/060)
IR Receiver Unit: UTY-TRHX
Remote sensor unit: UTY-XSZXZ1
WLAN adapter: UTY-TFSXJ3
External power supply unit: UTZ-GXXA, UTZ-GXXC (For 036/096)

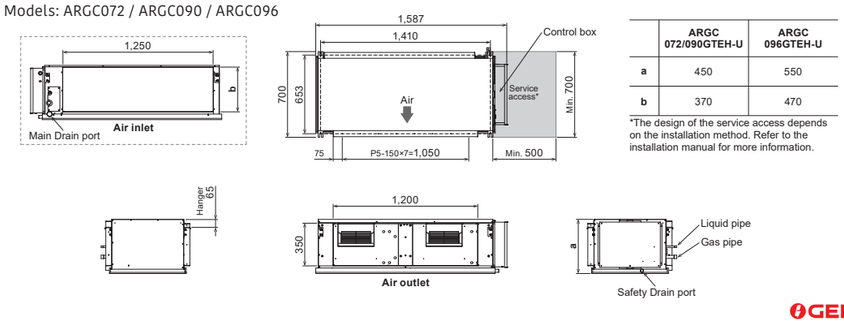
Dimensions (Unit: mm)

Models: ARGC036 / ARGC045 / ARGC060



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

Models: ARGC072 / ARGC090 / ARGC096



	ARGC 072/090GTEH-U	ARGC 096GTEH-U
a	450	550
b	370	470

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

Floor / Ceiling



DC FAN

Flexible Installation

Example for floor installation

Floor console



Example for ceiling installation

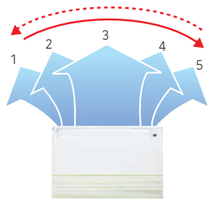
Under ceiling



Double Auto Swing

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

Left/Right Swing



Up/Down Swing



4 steps selectable

High-Power DC Fan Motor

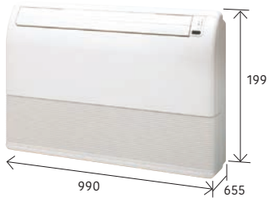
- High power
- Wide rotation range
- High efficiency



Compact Design

Symmetrical, slim and compact design.

(Unit: mm)



Model: ABGA012GTEH-U / ABGA014GTEH-U
ABGA018GTEH-U / ABGA024GTEH-U

Floor standing





Specifications

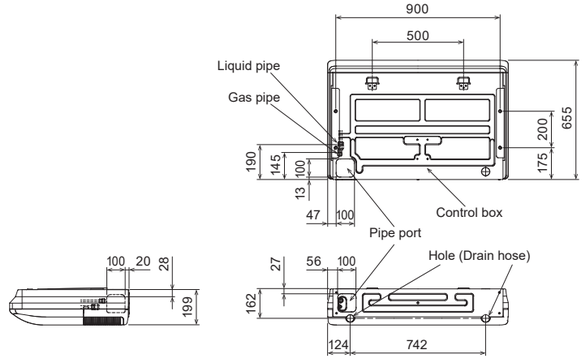
Model name			ABGA012GTEH-U	ABGA014GTEH-U	ABGA018GTEH-U	ABGA024GTEH-U
Power source			Single phase, 220-240V, ~50/60Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
Input power		W	30	42	74	99
Airflow rate	High	m³/h (l/s)	660 (183)	780 (217)	1,000 (278)	1,000 (278)
	Med-High		620 (172)	740 (206)	910 (253)	930 (258)
	Med		580 (161)	690 (192)	830 (231)	870 (242)
	Med-Low		550 (153)	640 (178)	750 (208)	800 (222)
	Low		520(144)	600 (167)	660 (183)	740 (206)
	Quiet		490 (136)	550 (153)	580(161)	680(189)
Sound pressure level	High	dB (A)	36	40	46	47
	Med-High		34	39	44	45
	Med		33	38	42	43
	Med-Low		31	36	40	41
	Low		29	35	37	39
	Quiet		28	34	35	37
Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25(55)	26(57)	26(57)	27(60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

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

Optional parts

Remote sensor unit: UTY-XSZXZ1
External power supply unit: UTZ-GXXA, UTZ-GXXC
WLAN adapter: UTY-TFSXJ3

Dimensions (Unit: mm)



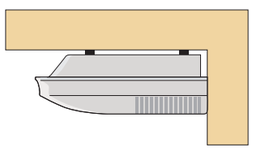
Ceiling



DC FAN

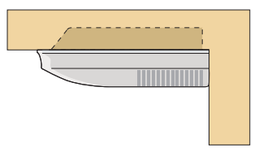
Installation

Open



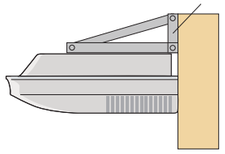
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted (Field Supplied)

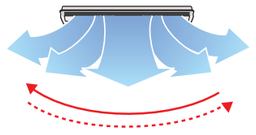


Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double Auto Swing and Wide Airflow

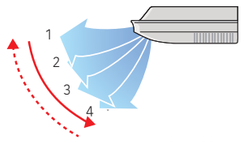
Auto airflow direction and auto swing

Left/Right



5 steps selectable

Up/Down



4 steps selectable

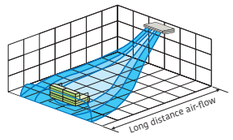
High-Power DC Fan Motor

- High power
- Wide rotation range
- High efficiency

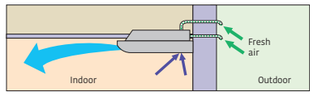


Long Airflow

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



Fresh Air Intake



Slim & Compact Design



Model: ABGA030GTEH-U / ABGA036GTEH-U
ABGA045GTEH-U / ABGA054GTEH-U



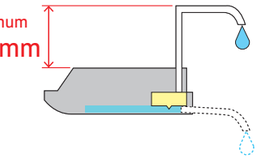
Specifications

Model name			ABGA030GTEH-U	ABGA036GTEH-U	ABGA045GTEH-U	ABGA054GTEH-U
Power source			Single phase, 220-240V , ~50/60Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
Input power		W	66	85	131	180
Airflow rate	High	m³/h (l/s)	1,630 (453)	1,690 (469)	2,010 (558)	2,270 (631)
	Med-High		1,520 (422)	1,560 (433)	1,840 (511)	2,070 (575)
	Med		1,420 (394)	1,450 (403)	1,690 (469)	1,860 (517)
	Med-Low		1,320 (367)	1,360 (378)	1,530 (425)	1,660 (461)
	Low		1,220 (339)	1,270 (353)	1,380 (383)	1,470 (408)
	Quiet		1,140(317)	1,170(325)	1,230(342)	1,280(356)
Sound pressure level	High	dB (A)	42	45	48	51
	Med-High		40	41	46	49
	Med		39	39	45	46
	Med-Low		37	38	41	43
	Low		35	36	38	40
	Quiet		33	34	35	36
Dimensions (H × W × D)		mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg(lbs)	46(101)	48(106)	48(106)	48(106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

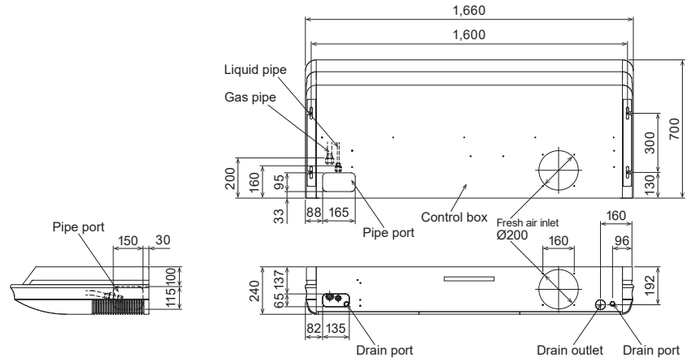
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

Drain Pump Unit:	UTR-DPB24T
Flange:	UTD-RF204
External power supply unit:	UTZ-GXXA, UTZ-GXXC
WLAN adapter:	UTY-TFSXJ3



Dimensions (Unit: mm)



Wall-mounted

EEV Internal / EEV external



DC FAN

Highly-efficiency, Compact Design

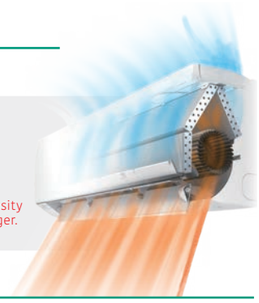
The 004-014 models share the same design.
The high-density and large heat exchanger achieves a highly-efficiency and compact design.
The compact body blends in well with conference rooms and offices, providing comfortable air conditioning.

High-density heat exchanger



Slim tube design: 5 mm

Greater heat-exchanging capacity is achieved through the use of a high-density heat exchanger and a sub-heat exchanger.



More Comfortable Airflow

The unique power diffuser provides comfortable air conditioning.

Heating

The vertical airflow provides powerful floor-level heating.



Cooling

The left/right airflow avoids blowing cool air directly at the occupants in a room.

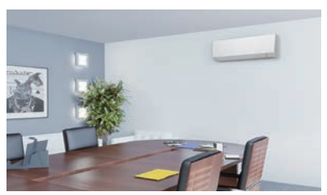


Quiet Operation & 6-Step Fan Speed Control

The airflow pattern achieves significant noise reduction. Multistep airflow adjustment to suit the environment

Quiet
22 dB(A)
007, 009 model

6-Step Speed
High
Med-High
Med
Med-Low
Low
Quiet

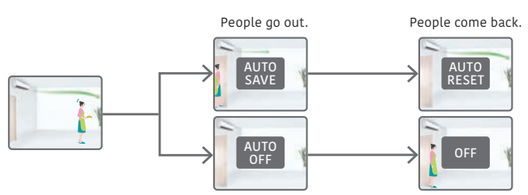


* Remote controller is compatible with the following:
UTY-RVRG / UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ4 / UTY-ALGXZ1 / UTY-APGXZ1

The Occupancy Sensor Contributes to Further Energy Savings

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

* If you want to use the Occupancy sensor control' function, you need an setting device that can set the Occupancy sensor control' function. For example: Wired RC (Touch panel).



Model: ASGA007GCGH-U / ASGA009GCGH-U
ASGA012GCGH-U / ASGA014GCGH-U

[external EEV]
ASGE007GCEH-U / ASGE009GCEH-U
ASGE012GCEH-U / ASGE014GCEH-U



Specifications

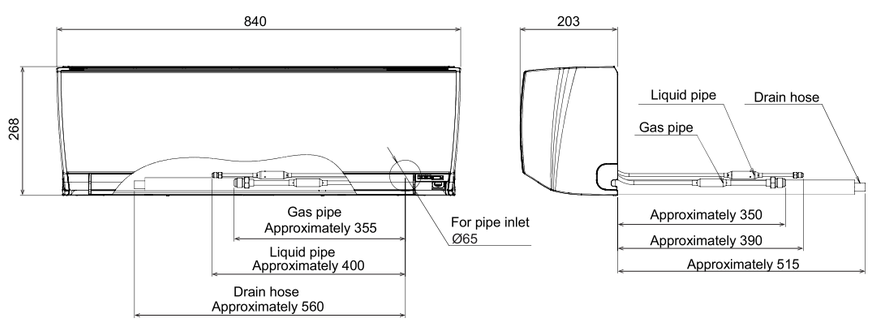
Model name			ASGA007GCGH-U	ASGA009GCGH-U	ASGA012GCGH-U	ASGA014GCGH-U	ASGE007GCEH-U	ASGE009GCEH-U	ASGE012GCEH-U	ASGE014GCEH-U
Power source			Single phase, 220-240V, ~50/60Hz							
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	2.2	2.8	3.6	4.0
Input power		W	16	20	25	36	16	20	25	36
Airflow rate	High	m³/h (l/s)	550 (153)	610 (169)	690 (192)	800 (222)	550 (153)	610 (169)	690 (192)	800 (222)
	Med-High		510 (142)	560 (156)	610 (169)	740 (206)	510 (142)	560 (156)	610 (169)	740 (206)
	Med		470 (131)	510 (142)	560 (156)	680 (189)	470 (131)	510 (142)	560 (156)	680 (189)
	Med-Low		410 (114)	440 (122)	530 (147)	610 (169)	410 (114)	440 (122)	530 (147)	610 (169)
	Low		360 (100)	360 (100)	470 (131)	550 (153)	360 (100)	360 (100)	470 (131)	550 (153)
	Quiet		310 (86)	310 (86)	330 (92)	330 (92)	310 (86)	310 (86)	330 (92)	330 (92)
Sound pressure level	High	dB (A)	34	37	40	44	34	37	40	44
	Med-High		32	35	37	42	32	35	37	42
	Med		30	32	35	40	30	32	35	40
	Med-Low		28	29	33	37	28	29	33	37
	Low		26	26	30	34	26	26	30	34
	Quiet		22	22	24	24	22	22	24	24
Dimensions (H × W × D)		mm	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203
Weight		kg(lbs)	8.5(19)	8.5(19)	8.5(19)	8.5(19)	8.5(19)	8.5(19)	8.5(19)	8.5(19)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	12.70	12.70	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8/15.8 to 16.7				13.8/15.8 to 16.7			
EV kit (optional)			—				UTR-EV09XB		UTR-EV14XB	

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

Optional parts

External power supply unit: UTZ-GXXA, UTZ-GXXC
Remote sensor unit: UTY-XSZXZ1
WLAN adapter: UTY-TFSXJ3

Dimensions (Unit: mm)



Wall-mounted

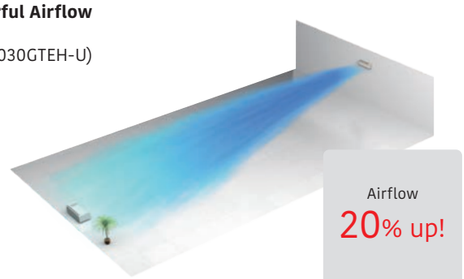


DC FAN

Powerful & Comfort Airflow

Powerful Airflow

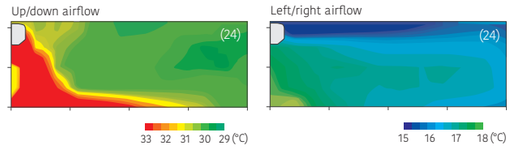
(ASGA030GTEH-U)



Airflow
20% up!

Power diffuser

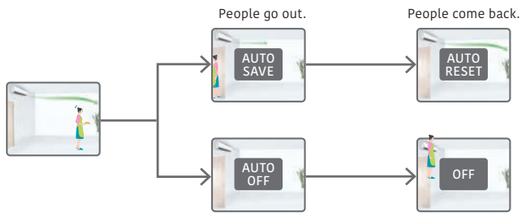
(ASGA18/24GBCH-U)



The Occupancy Sensor Contributes to Further Energy Savings (ASGA030/034GTEH-U only)

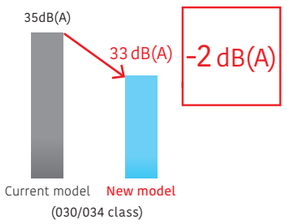
Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

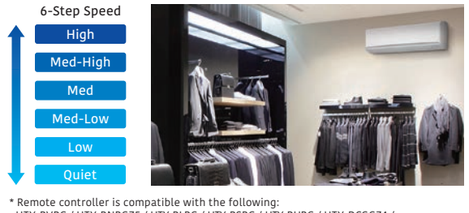
* If you want to use the Occupancy sensor control' function, you need an setting device that can set the Occupancy sensor control' function. For example: Wired RC (Touch panel).



6-Step Fan Speed Control for Quiet Operation

The airflow pattern achieves significant noise reduction. A 6-step sound level setting allows for multiple-step silent operations.





* Remote controller is compatible with the following:
UTY-RVRG / UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ4 / UTY-ALGXZ1 / UTY-APGXZ1

Model: ASGA18GBCH-U / ASGA24GBCH-U

ASGA030GTEH-U / ASGA034GTEH-U



ASGA18/24GBCH-U



ASGA030/034GTEH-U

Specifications

Model name			ASGA18GBCH-U	ASGA24GBCH-U	ASGA030GTEH-U	ASGA034GTEH-U
Power source			Single phase, 220-240V, ~50/60Hz			
Capacity	Cooling	kW	5.6	7.1	9.0	10.0
Input power		W	32	60	74	103
Airflow rate	High	m³/h (l/s)	840 (233)	1,100 (306)	1,440 (400)	1620(450)
	Med-High		-	-	1,200 (333)	1,300 (361)
	Med		770 (214)	910 (253)	1,050 (292)	1,120 (311)
	Med-Low		-	-	940 (261)	980 (272)
	Low		690 (192)	730 (203)	890 (247)	890 (247)
	Quiet		-	-	700 (194)	700 (194)
Sound pressure level	High	dB (A)	41	48	53	55
	Med-High		-	-	49	51
	Med		39	43	45	47
	Med-Low		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Dimensions (H × W × D)		mm	320 × 998 × 238	320 × 998 × 238	340 × 1,150 × 280	340 × 1,150 × 280
Weight		kg(lbs)	15(33)	15(33)	18(40)	18(40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12/16		13.8/15.8 to 16.7	

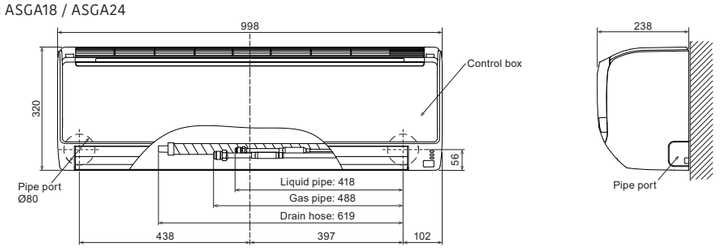
Note: Specifications are subject to the following conditions:
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].
When connecting ASHA18GBCH to an outdoor unit other than the outdoor unit of the J-IVL series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

Optional parts

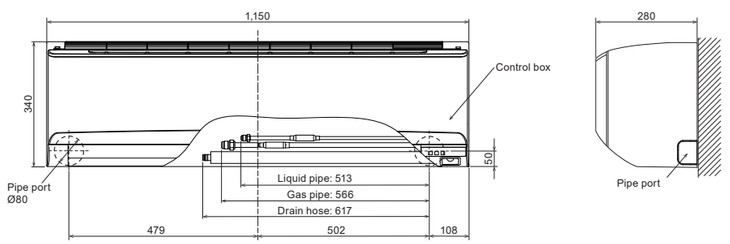
External power supply unit: UTZ-GXXA (030/034), UTZ-GXXC (030/034)
Remote sensor unit: UTY-XSZXZ1
WLAN adapter: UTY-TFSXJ3 (030/034)
Silver Ion Filter: UTR-FA13-3

Dimensions (Unit: mm)

Models: ASGA18 / ASGA24



Models: ASGA030 / ASGA034



Indoor Unit Lineup for V-III Tropical and J-III Tropical

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

Capacity range			Btu/h	7,000	9,000	12,000	14,000	18,000	24,000	30,000	34,000	36,000	45,000	54,000	60,000	72,000	90,000	96,000
			kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
Cassette	Compact 4-way flow			AUXB07GALH	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH									
	4-way Flow		Slim type					AUXD18GALH	AUXD24GALH									
			Large type					AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH				
	Circular Flow		Slim type					AUXM018GTAH	AUXM024GTAH									
			Large type					AUXK018GTAH	AUXK024GTAH	AUXK030GTAH	AUXK034GTAH	AUXK036GTAH	AUXK045GTAH	AUXK054GTAH				
Duct	Low Static Pressure	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									
	Low Static Pressure													ARGB054GTAH*1				
	Medium Static Pressure								ARXA24GBLH ARXA24GBTH	ARXA30GBLH ARXA30GBTH		ARXA36GBLH ARXA36GBTH	ARXA45GBLH ARXA45GBTH					
	High Static Pressure											ARXC36GBTH				ARXC72GBTH*1	ARXC90GBTH*1	ARXC96GATH*1
													ARXC45GATH		ARXC60GATH*1	ARXC72GATH*1	ARXC90GATH*1	
	Large Airflow Duct							ARXN18GATH*2	ARXN24GATH*2	ARXN30GATH*2	ARXN34GATH*2	ARXN36GATH*2	ARXN45GATH*2					
Floor	Floor (Same as Ceiling models)					ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH									
	Slim Concealed Floor (Same as Slim Duct models)			ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH									
Ceiling						ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH	ABHA30GATH		ABHA36GATH	ABHA45GATH	ABHA54GATH				
Wall Mounted			EEV internal	ASHA07GACH ASHA07GATH	ASHA09GACH ASHA09GATH	ASHA12GACH ASHA12GATH	ASHA14GACH ASHA14GATH	ASHA18GACH ASHA18GATH	ASHA24GACH ASHA24GATH	ASHA30GACH ASHA30GATH								
			EEV external	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH	With this model, connection of EV kit is necessary.										

*1:ARXC60/72/90/96 and ARGB054 cannot be connected to J-III tropical Series. *2:Large Airflow Duct can be connected to V-III tropical Series only.

Cassette
Compact 4-way flow



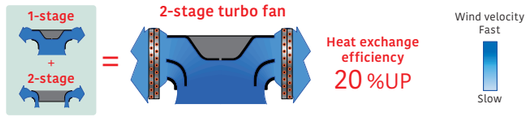
DC FAN

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.



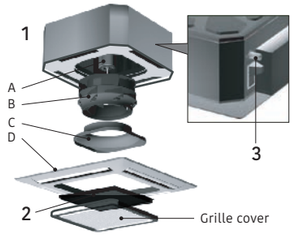


Previous turbo fan

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



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

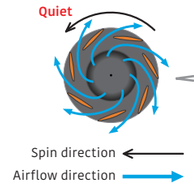
During installation, maintenance and operation, the drain pump and kit can be checked easily.

Quiet Quality

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

Designed by CFD-analysis (fluid) simulations

Adoption of laminar wing



Laminar wing

Airflow runs through smoothly along the laminar wing



Quiet

No airflow separation

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)	
	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



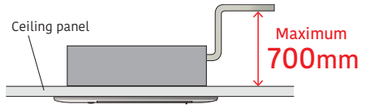
Specifications

Model name			AUXB07GALH	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH
Power source			Single phase, 220-240V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	25	25	29	35	36	84
Airflow rate	High	m³/h (l/s)	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med		450 (125)	450 (125)	530 (147)	590 (164)	580 (161)	830 (231)
	Low		350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	dB (A)	34	35	37	38	41	50
	Med		30	30	34	34	35	44
	Low		25	25	27	27	27	30
Dimensions (H × W × D)		mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille	Model name		UTG-UFGC-W					
	Dimensions (H×W×D)	mm	50 × 700 × 700					
	Weight	kg(lbs)	2.6 (6)					

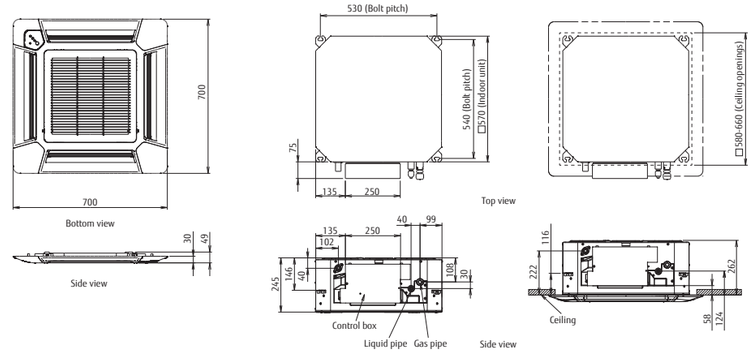
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

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



Dimensions (Unit: mm)



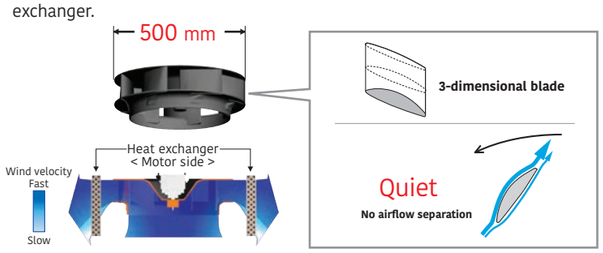
Cassette
4-way Flow
Slim type



DC FAN

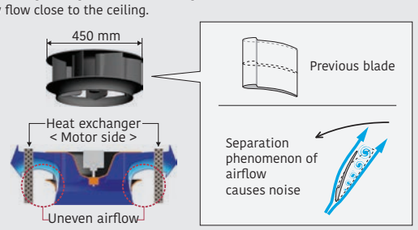
High Efficiency Turbo Fan with 3-Dimensional Blade

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



Previous turbo fan

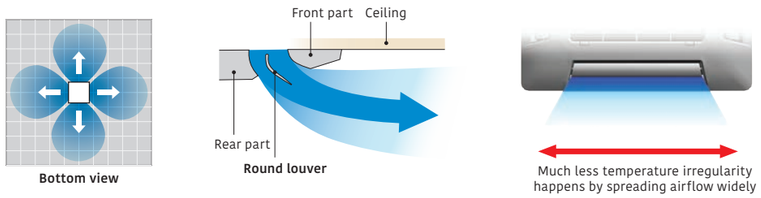
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



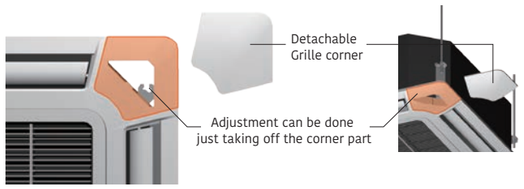
: Spin direction : Airflow direction : Turbulent flow noise

Improvement of the Airflow Distribution

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



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)	
	Standard mode	High ceiling mode
18	3.0	3.5
24	3.0	3.5

Model: AUXD18GALH / AUXD24GALH



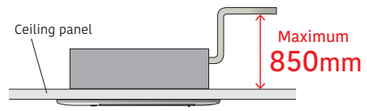
Specifications

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

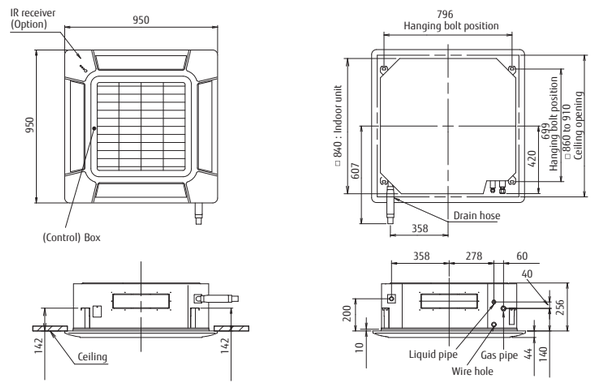
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

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



Dimensions (Unit: mm)



Cassette

4-way Flow

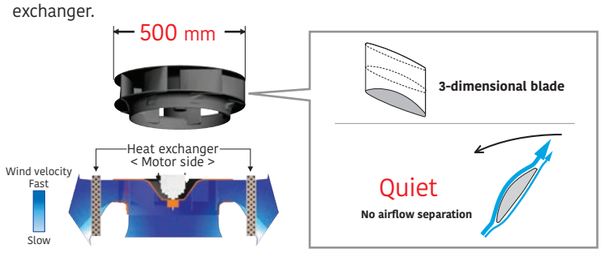
Large type



DC FAN

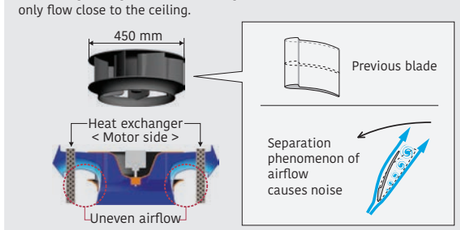
High Efficiency Turbo Fan with 3-Dimensional Blade

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



Previous turbo fan

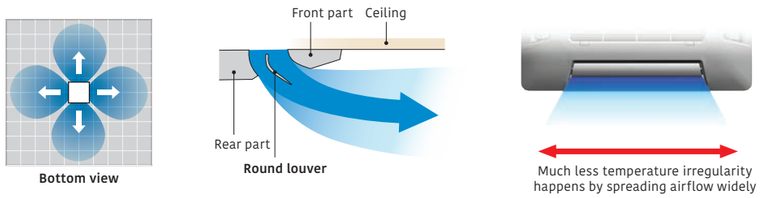
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



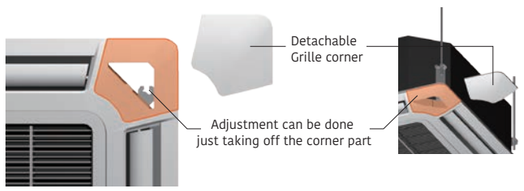
: Spin direction : Airflow direction : Turbulent flow noise

Improvement of the Airflow Distribution

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



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 from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.2	3.6
24	3.2	3.6
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



Specifications

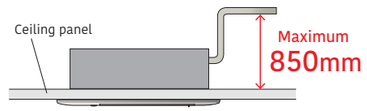
Model name			AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			Single phase, 220-240V, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	51	51	59	77	80	99	119
Airflow rate	High	m^3/h (l/s)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

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

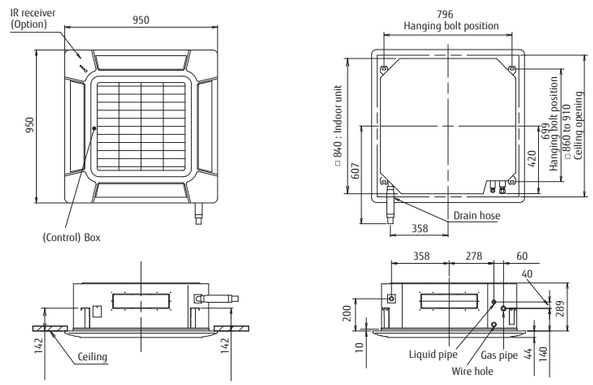
*1: This value is under cooling operation.

Optional parts

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



Dimensions (Unit: mm)

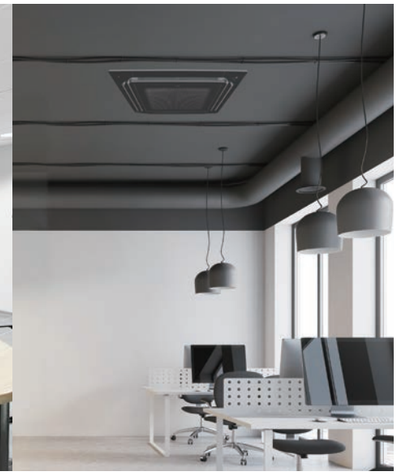


Cassette

Circular Flow

Slim/Large type

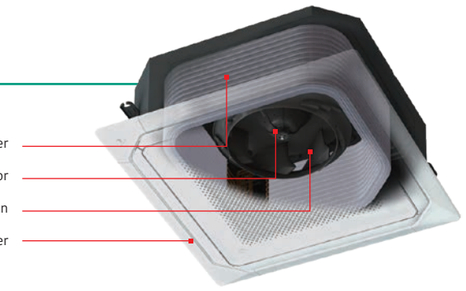




DC FAN

Unique Circular Flow Design

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



Uniform Temperature Air Conditioning

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





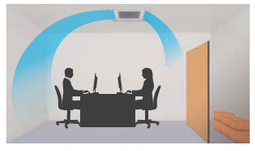
Individual Louver Control

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

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ4) only



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



Efficient air conditioning based on the room layout

The Occupancy Sensor Contributes to Further Energy Savings

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

* Touch Panel Wired RC (UTY-RNRGZ5) and Central Remote Controller(UTY-DCGGZ4) only



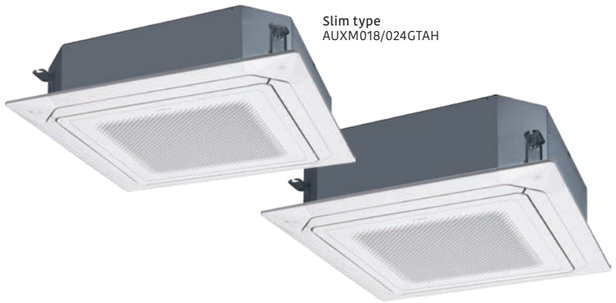
Human sensor (Optional)

2 modes can be selected

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

Model: (Slim type)
AUXM018GTAH / AUXM024GTAH

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



Slim type
AUXM018/024GTAH

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

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								
Capacity	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		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
Airflow rate	High	m^3/h	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
	Med		900	930	1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-Low		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		780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB (A)	33	35	38	38	39	39	41	44	47
	Med-High		32	33	37	37	38	38	40	42	45
	Med		31	32	36	36	37	37	38	40	42
	Med-Low		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	288×840×840
Weight		kg	24.0	24.5	26.5	26.5	29.5	29.5	29.5	29.5	29.5
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32								
Cassette Grille	Model name		UTG-UKGD-W/UTG-UKGA-B								
	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].

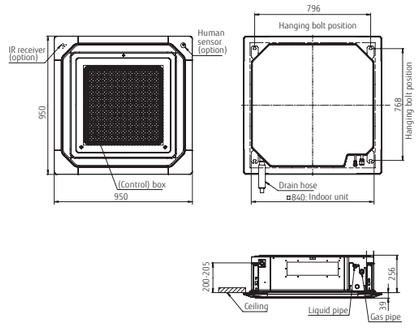
When AUX*018GTAH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GTAH is connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.

Optional parts

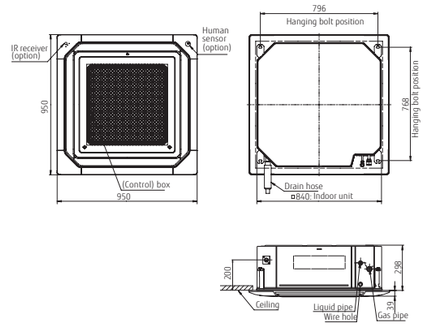
Human Sensor Kit:	UTY-SHZXC	Cassette Grille:	UTG-UKGD-W	Air Outlet Shutter Plate:	UTR-YDZK
Wide Panel:	UTG-AKXA-W		UTG-UKGA-B	Insulation Kit for High Humidity:	UTZ-KXRA
Panel Spacer:	UTG-BKXA-W	IR Receiver Unit:	UTY-LBHXD		

Dimensions (Unit: mm)

Models: AUXM018 / AUXM024



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



Duct

Low Static Pressure

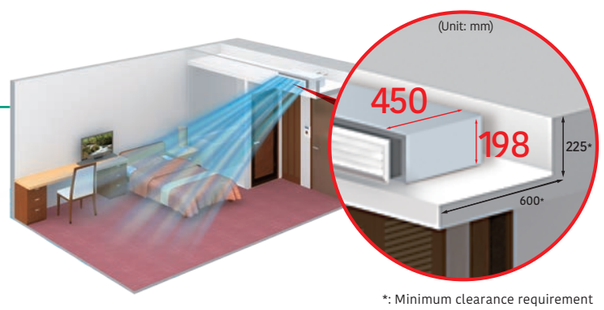
Mini Duct
(With drain pump)



DC FAN

Optimum Design in Harmony with Interior Decoration

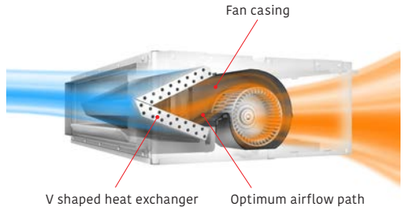
Thin and short-depth body makes the clipped ceiling design



*: Minimum clearance requirement

Advanced Performance by New Shaped Heat Exchanger and Airflow

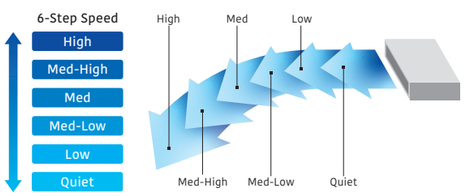
Air blower is improved so that velocity distribution is optimum in accordance with the heat exchanger shape. Wide range and uniform airflow can be received due to heat exchanger.



6-Speed Control*

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

Low noise
21 dB(A)
at 07/09models



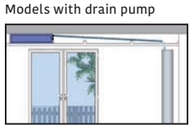
* Compatible Remote Controller is as follows:
UTY-RNRGZ5 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ3 / UTY-ALGXZ1 / UTY-APGXZ1

Easy Drain Design Even at Narrow Ceiling

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

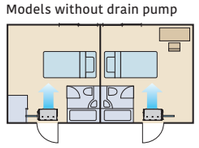
Models without drain pump:
Both sides drainage is possible.

Models with drain pump



For models with drain pump, drain design is easy even at narrow ceiling.

Models without drain pump



For models without drain pump,both sides drainage is possible and drain design is easy.

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

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


ARXK07/09/12/14GCLH


ARXK18GCLH


ARXK24GCLH


ARXK07/09/12/14GALH


ARXK18GALH


ARXK24GALH

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
	Heating		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
Airflow rate	High	m³/h (l/s)	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)
	Med		420 (117)	420 (117)	480 (133)	560 (156)	740 (206)	960 (267)
	Med-Low		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		Pa	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure			10	10	10	15	15	15
Sound pressure level	High	dB (A)	26	26	29	34	33	32
	Med-High		25	25	27	31	30	30
	Med		24	24	26	28	28	28
	Med-Low		23	23	25	26	26	27
	Low		22	22	24	24	24	25
	Quiet		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 × 450
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 pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

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

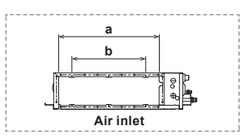
Auto louvre grille kit: UTD-GXTA-W (for ARXK07 - 14)
UTD-GXTB-W (for ARXK18)
UTD-GXTC-W (for ARXK24)
Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC

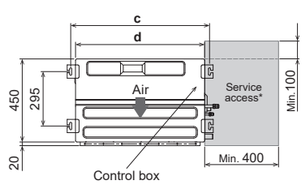
Auto Louver Grille Kit (Option)

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



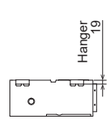
Dimensions (Unit: mm)

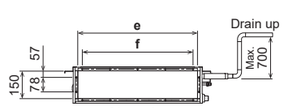


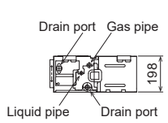


	ARXK07-14	ARXK18	ARXK24
a	575	775	975
b	P200×2=400	P200×3=600	P200×4=800
c	752	952	1,152
d	700	900	1,100
e	650	850	1,050
f	P100×6=600	P100×8=800	P100×10=1,000

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







Duct

Low Static Pressure

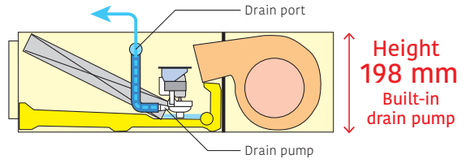
Slim Duct / Slim Concealed Floor
(With drain pump)



DC FAN

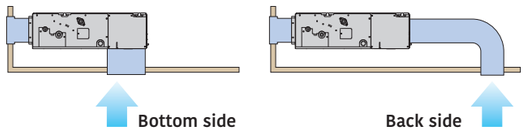
Slim Design

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



Air Intake

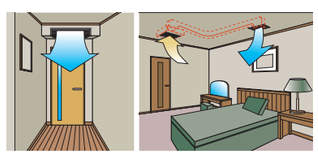
Air intake direction can be selected to match the installation site.



Flexible Installation

Ceiling concealed





Floor concealed





Wide Range of Static Pressures

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.

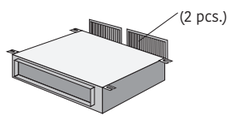


Static pressure range
0 to 90 Pa

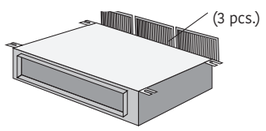
*24 model is 0 to 50 Pa

Filter (Accessory)

ARXD07 / 09 / 12 / 14 / 18



ARXD24

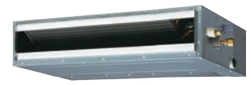


Model: ARXD07GALH / ARXD09GALH
ARXD12GALH / ARXD14GALH
ARXD18GALH / ARXD24GALH

ARXD07GATH / ARXD09GATH
ARXD12GATH / ARXD14GATH
ARXD18GATH / ARXD24GATH



ARXD07/09/12/14



ARXD18



ARXD24

Slim Concealed Floor



Specifications

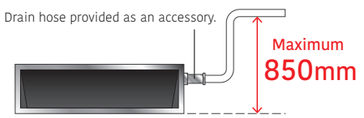
Model name			ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH
Power source			Single phase, 220-240V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	44	50	54	92	83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

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].

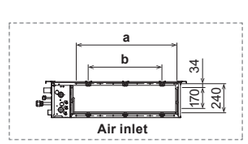
Optional parts

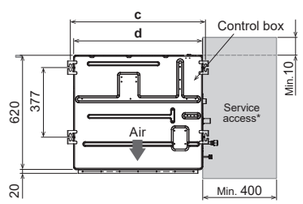
Auto louvre grille kit: UTD-GXTA-W (for ARXD07 - 04)
UTD-GXTB-W (for ARXD18)
UTD-GXTC-W (for ARXD24)
Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC

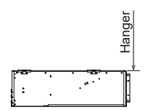
Drain hose provided as an accessory.

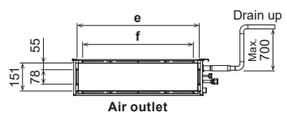


Dimensions (Unit: mm)



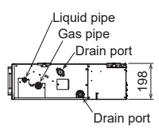






	ARXD07-14	ARXD18	ARXD24
a	574	774	974
b	P200×2=400	P200×3=600	P200x4=800
c	734	934	1,134
d	700	900	1,100
e	650	850	1,050
f	P100×6=600	P100×8=800	P100×10=1,000

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



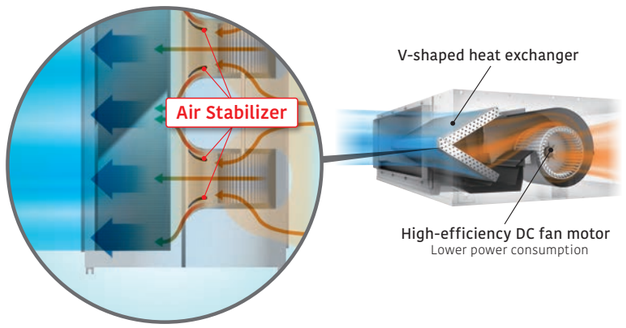
Duct
Low Static Pressure



DC FAN

High-Efficiency & Quiet Operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high-efficiency DC fan motor enable high-efficiency and quiet operation.



Automatic Airflow Adjustment Function

This unique and innovative function detects required air flow in each application case and automatically adjust the volume.



Link Up with a Variety of Central Control System (Option)

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



Central Control System

Model: ARGB054GTAH



Specifications

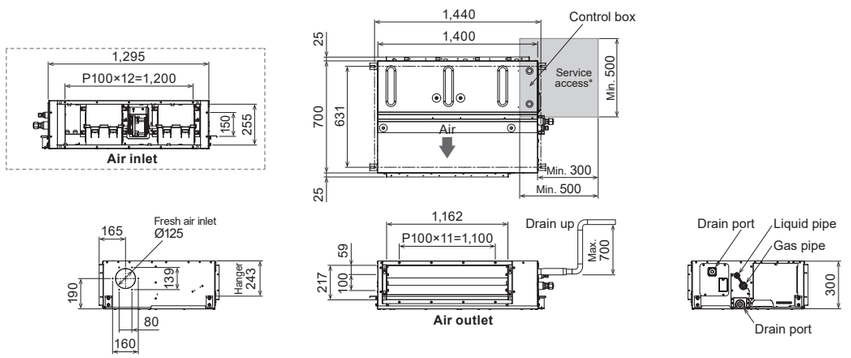
Model name			ARGB054GTAH
Power source			Single phase, 220-240V, 50Hz
Capacity	Cooling	kW	16.0
	Heating		18.0
Input power		W	333
Airflow rate	High	m^3/h (l/s)	2,700 (750)
	Med		2,390 (664)
	Low		1,470 (408)
Static pressure range		Pa	0 to 100
Standard static pressure			100
Sound pressure level	High	dB (A)	43
	Med		40
	Low		30
Dimensions (H × W × D)		mm	300 × 1,400 × 700
Weight		kg(lbs)	47
Connection pipe diameter	Liquid	mm	9.52 (Flare)
	Gas		19.05 (Flare)
Drain hose diameter (I.D./O.D.)			25/32

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*:It is not compatible with the J-III Tropical Series.

Optional parts

Long-life filter: UTD-LFNA
Remote sensor unit: UTY-XSZX

Dimensions (Unit: mm)



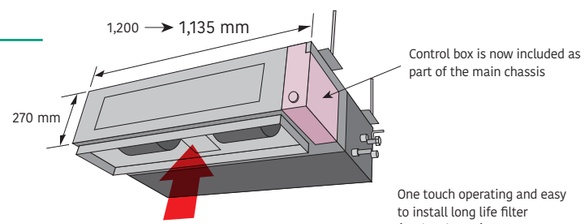
Duct
Medium Static Pressure



DC FAN

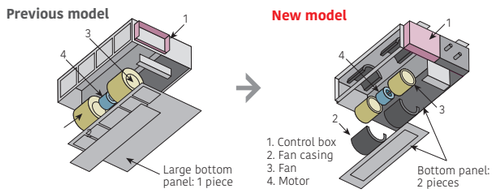
Slim & Compact Design

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.



Easy Maintenance

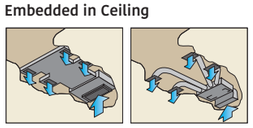
See below for the case of rear suction type



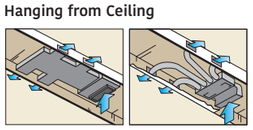
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Installation Styles

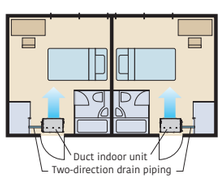
Embedded in Ceiling



Hanging from Ceiling

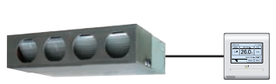


A Drain Pipe can be Installed on Either The Left or Right Side of The Unit



Easy setting by using remote controller

The change of static pressure range is possible by remote controller



Wide Range of Static Pressures

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

Static pressure range
0 to 150 Pa

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



Specifications

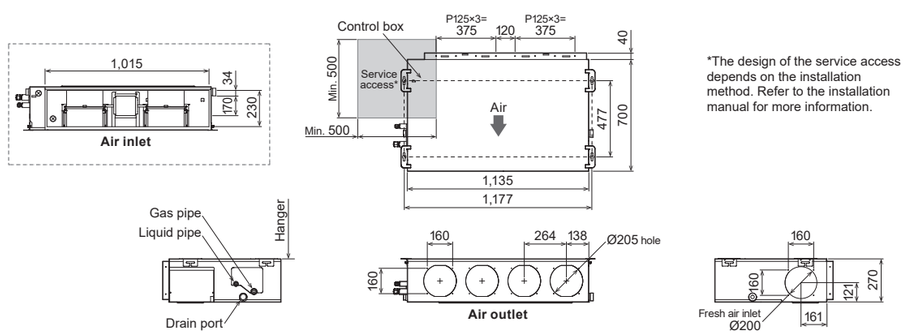
Model name			ARXA24GBLH ARXA24GBTH	ARXA30GBLH ARXA30GBTH	ARXA36GBLH ARXA36GBTH	ARXA45GBLH ARXA45GBTH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
Airflow rate	High	m³/h (l/s)	1,280 (356)	1,410 (392)	1,840 (511)	1,970 (547)
	Med		990 (275)	1,280 (356)	1,600 (444)	1,860 (517)
	Low		840 (233)	1,150 (319)	1,470 (408)	1,640 (456)
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB (A)	31	34	37	41
	Med		27	32	35	38
	Low		23	29	33	36
Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg(lbs)	39 (86)	42 (93)	42 (93)	42 (93)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32			

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

Optional parts

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

Dimensions (Unit: mm)



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

Duct
High Static Pressure



DC FAN

Wide Range of Static Pressures

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



(ARXC36 type)

Maximum 300 Pa



(ARXC72 / 90 type)

Maximum 300 Pa

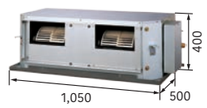


(ARXC96 type)

Easy Installation (Compact size & Lightweight)

(Unit: mm)

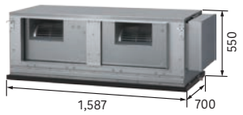
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.



(ARXC36 type)



(ARXC72 / 90 type)

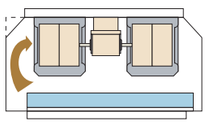


(ARXC96 type)

Low Noise

Models : ARXC36

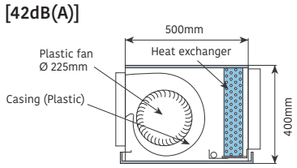
Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



(ARXC36GBTH)

ARXC36GBTH : Plastic fan [42dB(A)]

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



High-Efficiency DC Fan Motor Achieves Low Energy Consumption

Improved motor efficiency compared to the previous model.



(ARXC36 type)



(ARXC72 / 90 / 96 type)

Model: ARXC36GBTH
ARXC72GBTH / ARXC90GBTH
ARXC96GATH



ARXC36GBTH



ARXC72/90GBTH



ARXC96GATH

Specifications

Model name			ARXC36GBTH	ARXC72GBTH	ARXC90GBTH	ARXC96GATH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	11.2	22.4	25.0	28.0
	Heating		12.5	25.0	28.0	31.5
Input power		W	207	681	819	838
Airflow rate	High	m^3/h (l/s)	1,990 (553)	3,900 (1,083)	4,300 (1,195)	4,850 (1,347)
	Med		1,680 (467)	3,300 (917)	4,000 (1,111)	4,250 (1,181)
	Low		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 pressure			100	150	150	150
Sound pressure level	High	dB (A)	42	47	48	48
	Med		36	43	46	45
	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 pipe diameter	Liquid	mm	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)
	Gas		19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)			25 / 32			

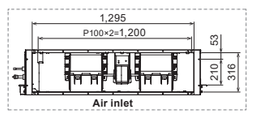
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

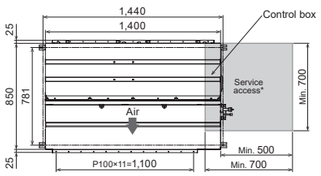
Optional parts

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

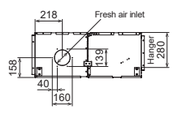
Dimensions (Unit: mm)

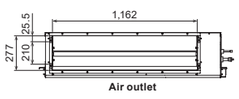
Models: ARXC36

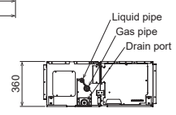




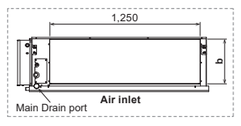
*The design of the service access depends on the installation method. Refer to the installation manual for more information.

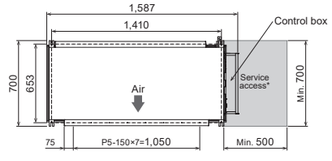






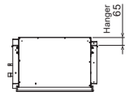
Models: ARXC72 / ARXC90 / ARXC96

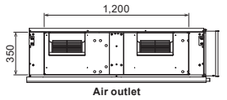


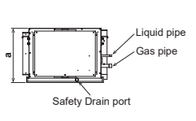


	ARXC 72/90GBTH	ARXC 96GATH
a	450	550
b	370	470

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







Duct
High Static Pressure

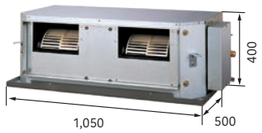


AC FAN

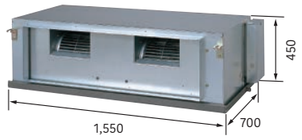
Easy installation (Compact size & Lightweight)

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

(Unit: mm)



(ARXC45 / 60 type)



(ARXC72 / 90 type)

Static pressure selection

Models : ARXC72 / ARXC90

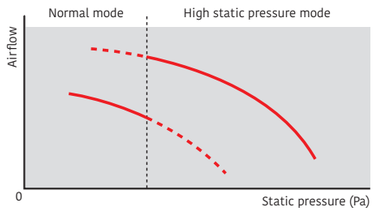
2 Types of static pressure mode are selectable.

Maximum
300 Pa



High Static Pressure Duct (ARXC72)

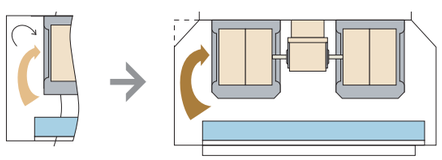
The adoption of a single phase fan motor allows 3 steps fan speed control



Low noise

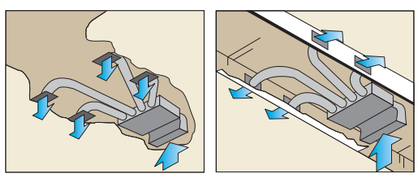
Models : ARXC45 / ARXC60

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



Previous model

Installation styles



Model: ARXC45GATH / ARXC60GATH
ARXC72GATH / ARXC90GATH



ARXC45/60GATH



ARXC72/90GATH

Specifications

Model name			ARXC45GATH	ARXC60GATH	ARXC72GATH	ARXC90GATH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	12.5	18.0	22.4	25.0
	Heating		14.0	20.0	25.0	28.0
Input power		W	715	730	1,110	1,250
Airflow rate	High	m3/h (l/s)	3,500 (972)	3,500 (972)	3,900 (1,083)	4,300 (1,195)
	Med		3,000 (833)	3,000 (833)	3,300 (917)	4,000 (1,111)
	Low		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
Standard static pressure			100	100	260	250
Sound pressure level	High	dB (A)	49	49	51	53
	Med		45	45	48	51
	Low		42	42	45	49
Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,550 × 700
Weight		kg(lbs)	46 (101)	46 (101)	83 (-)	85(-)
Connection pipe diameter	Liquid (Flare)	mm	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)
	Gas (Flare)		19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)			25 / 32			

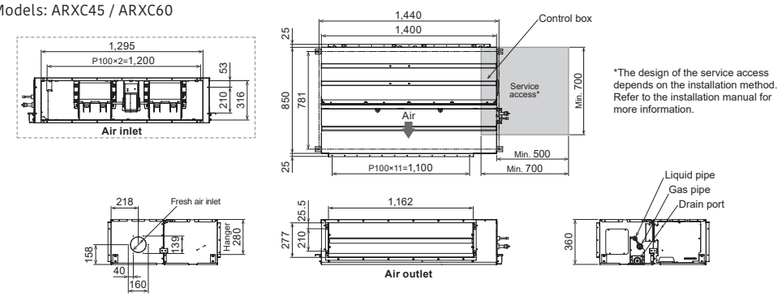
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

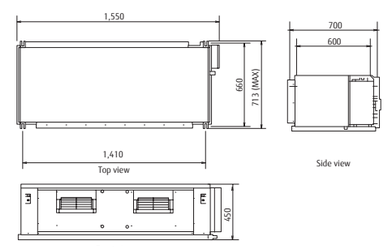
Long-Life Filter : UTD-LF60KA (ARXC45/60)
IR Receiver Unit : UTB-YWC
Remote Sensor Unit : UTY-XSZX

Dimensions (Unit: mm)

Models: ARXC45 / ARXC60



Models: ARXC72 / ARXC90



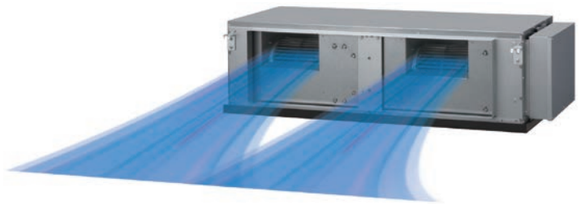
Duct
Large Airflow Duct

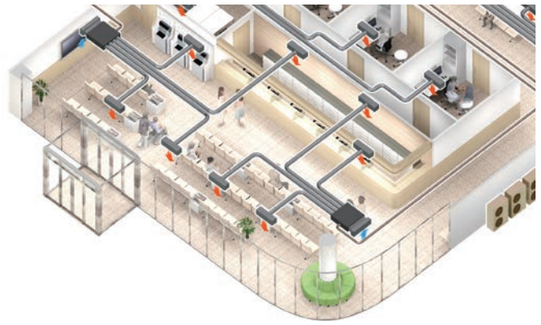


DC FAN

Large Airflow Volume

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





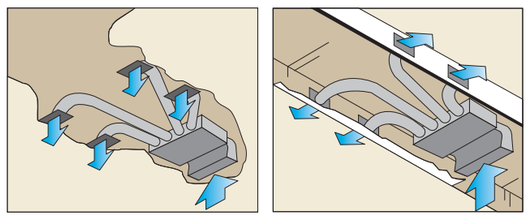
Selectable with a wide range of static pressure

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

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



Installation Styles



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



Specifications

Model name			ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH
Power source			Single phase, 220-240V, 50Hz					
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5
	Heating		6.3	8.0	10.0	11.2	12.5	14.0
Input power		W	154	205	306	432	572	572
Airflow rate	High	m^3/h (l/s)	2,280 (633)	2,640 (733)	3,200 (889)	3,720 (1,033)	4,120 (1,145)	4,120 (1,145)
	Med		–	–	–	–	–	–
	Low		–	–	–	–	–	–
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			50	50	50	50	60	60
Sound pressure level	High	dB (A)	35	37	40	43	45	45
	Med		–	–	–	–	–	–
	Low		–	–	–	–	–	–
Dimensions (H × W × D)		mm	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700
Weight		kg(lbs)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32					

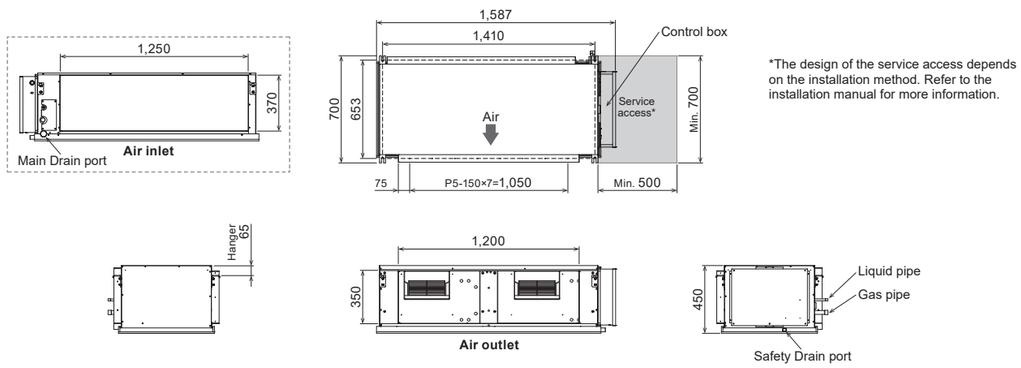
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

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

Optional parts

Remote Sensor Unit : UTY-XSZX

Dimensions (Unit: mm)



Floor/Ceiling



DC FAN

Flexible Installation

Example for floor installation

Floor console



Example for ceiling installation

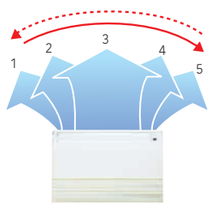
Under ceiling



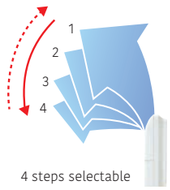
Double Auto Swing

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

Left/Right Swing



Up/Down Swing



4 steps selectable

High-Power DC Fan Motor

- High power
- Wide rotation range
- High efficiency



Compact Design

Symmetrical, slim and compact design.

(Unit: mm)



Model: ABHA12GATH / ABHA14GATH
ABHA18GATH / ABHA24GATH



Floor standing



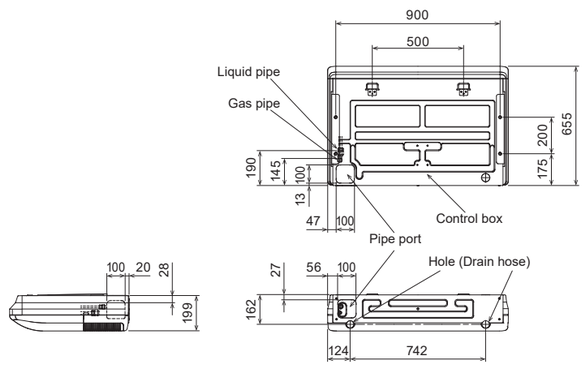
Specifications

Model name			ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m^3/h (l/s)	660 (183)	780 (216)	1,000 (277)	1,000 (277)
	Med		570 (158)	640 (177)	720 (199)	820 (227)
	Low		490 (136)	550 (152)	580 (161)	680 (188)
Sound pressure level	High	dB (A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (59)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	9.52	9.52
	Gas (Flare)		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

Dimensions (Unit: mm)



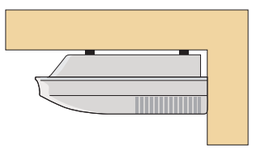




DC FAN

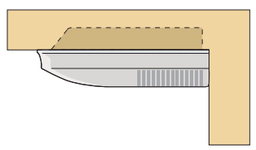
Installation

Open



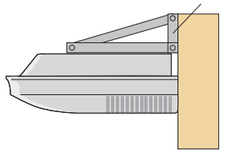
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted (Field Supplied)

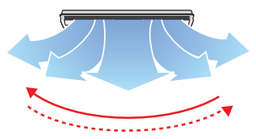


Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double Auto Swing and Wide Airflow

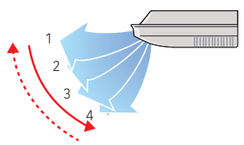
Auto airflow direction and auto swing

Left/Right



5 steps selectable

Up/Down



4 steps selectable

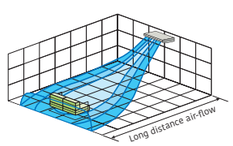
High-Power DC Fan Motor

- High power
- Wide rotation range
- High efficiency

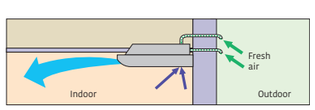


Long Airflow

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



Fresh Air Intake



Slim & Compact Design



Model: ABHA30GATH / ABHA36GATH
ABHA45GATH / ABHA54GATH



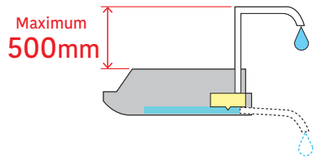
Specifications

Model name			ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m^3/h (l/s)	1,630 (452)	1,690 (469)	2,010 (558)	2,270 (629)
	Med		1,370 (379)	1,400 (389)	1,600 (444)	1,780 (493)
	Low		1,140 (316)	1,170 (325)	1,230 (342)	1,280 (355)
Sound pressure level	High	dB (A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Dimensions (H × W × D)		mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg(lbs)	46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	19.05	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32			

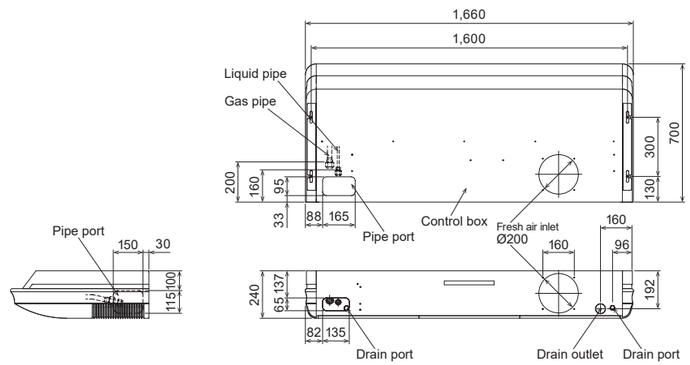
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor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

Optional parts

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



Dimensions (Unit: mm)



Wall-mounted



DC FAN

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-fine-particle 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.)

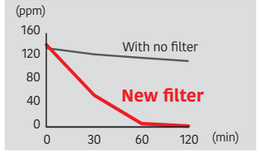


Apple-catechin Filter

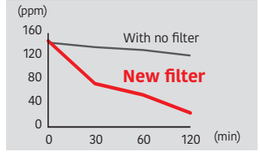
Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

Deodorizing effect (Odor reduction rate)

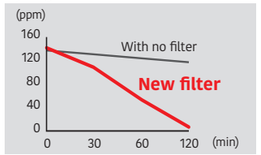
Ammonia



Trimethylamine



Hydrogen sulfate

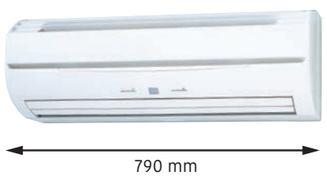


High performance filters have been thoroughly tested by the Environmental Sanitary Inspection Center using an advanced Deodorization Test.

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.



Width
790 mm

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.



Open panel

Model: (EEV internal)
ASHA07GACH / ASHA09GACH
ASHA12GACH / ASHA14GACH

(EEV internal)
ASHA07GATH / ASHA09GATH
ASHA12GATH / ASHA14GATH

(EEV External)
ASHE07GACH / ASHE09GACH
ASHE12GACH / ASHE14GACH



Specifications

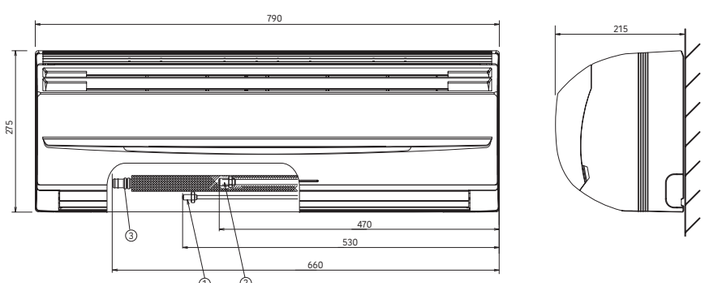
Model name			ASHA07GACH ASHA07GATH	ASHA09GACH ASHA09GATH	ASHA12GACH ASHA12GATH	ASHA14GACH ASHA14GATH	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH
Power source			Single phase, 220-240V, 50Hz				Single phase, 220-240V, 50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5
	Heating		2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power		W	17	18	22	34	15	16	21	34
Airflow rate	High	m3/h (l/s)	490 (136)	500 (139)	560 (156)	670 (186)	490 (136)	500 (139)	560 (156)	680 (189)
	Med		450 (125)	450 (125)	480 (133)	490 (136)	450 (125)	450 (125)	480 (133)	490 (136)
	Low		370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)
Sound pressure level	High	dB (A)	35	36	39	44	34	35	38	43
	Med		33	33	35	37	32	32	34	35
	Low		27 / 31*1	27 / 31*1	31	32	26 / 30*1	26 / 30*1	30	30
Dimensions (H × 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 pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70
Drain hose diameter (I.D./O.D.)			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].

*1 : This value is under cooling operation.

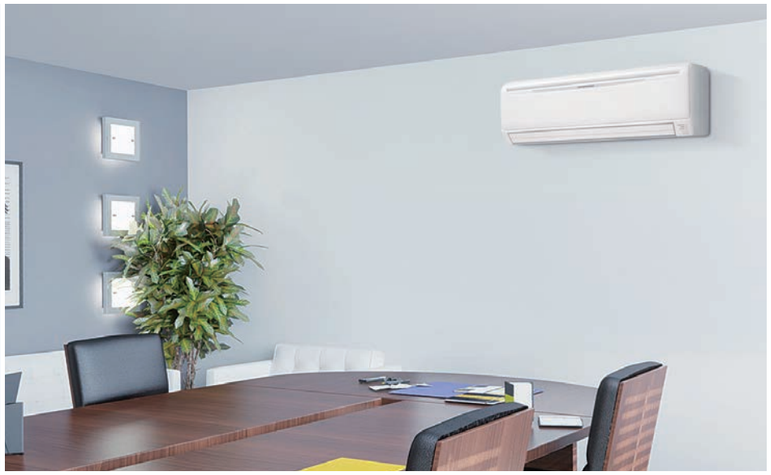
Optional parts

Dimensions (Unit: mm)



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

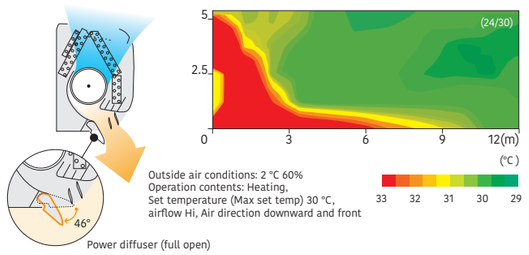
Wall-mounted



DC FAN

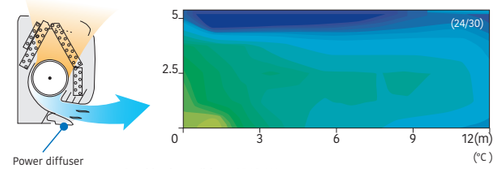
More Comfort Airflow by Adopting Power Diffuser

“Vertical airflow”
provides powerful floor level heating



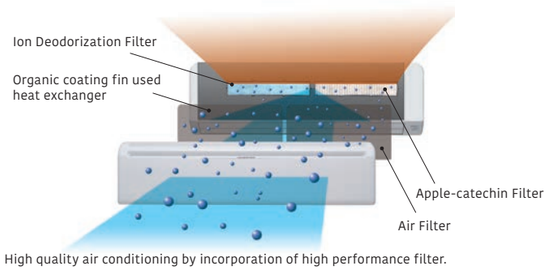
Outside air conditions: 2 °C 60%
Operation contents: Heating,
Set temperature (Max set temp) 30 °C,
airflow Hi, Air direction downward and front

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



Outside air conditions: 35 °C 40%
Operation contents: Cooling,
Set temperature (Min set temp) 18 °C,
airflow Hi, Air direction downward and front

Air Conditioner Filter Features



High quality air conditioning by incorporation of high performance filter.

Ion Deodorization Filter

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

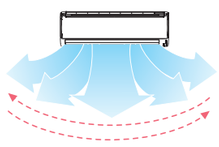
Apple-catechin Filter

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

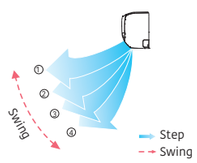
Double Auto Swing

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

5 steps selectable



4 steps selectable



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



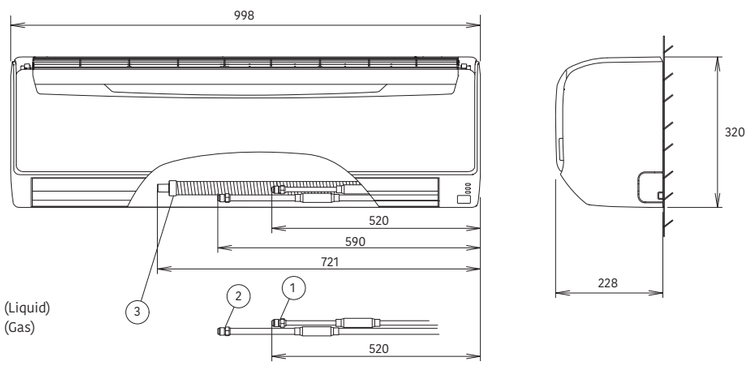
Specifications

Model name			ASHA18GACH ASHA18GATH	ASHA24GACH ASHA24GATH	ASHA30GACH ASHA30GATH
Power source			Single phase, 220-240V, 50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating		6.3	8.0	9.0
Input power		W	32	60	91
Airflow rate	High	m^3/h (l/s)	840 (233)	1,100 (305)	1,240 (343)
	Med		770 (213)	910 (252)	980 (271)
	Low		690 (191)	730 (202)	770 (213)
Sound pressure level	High	dB (A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H × W × D)		mm	320 × 998 × 228	320 × 998 × 228	320 × 998 × 228
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12 / 16		

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)



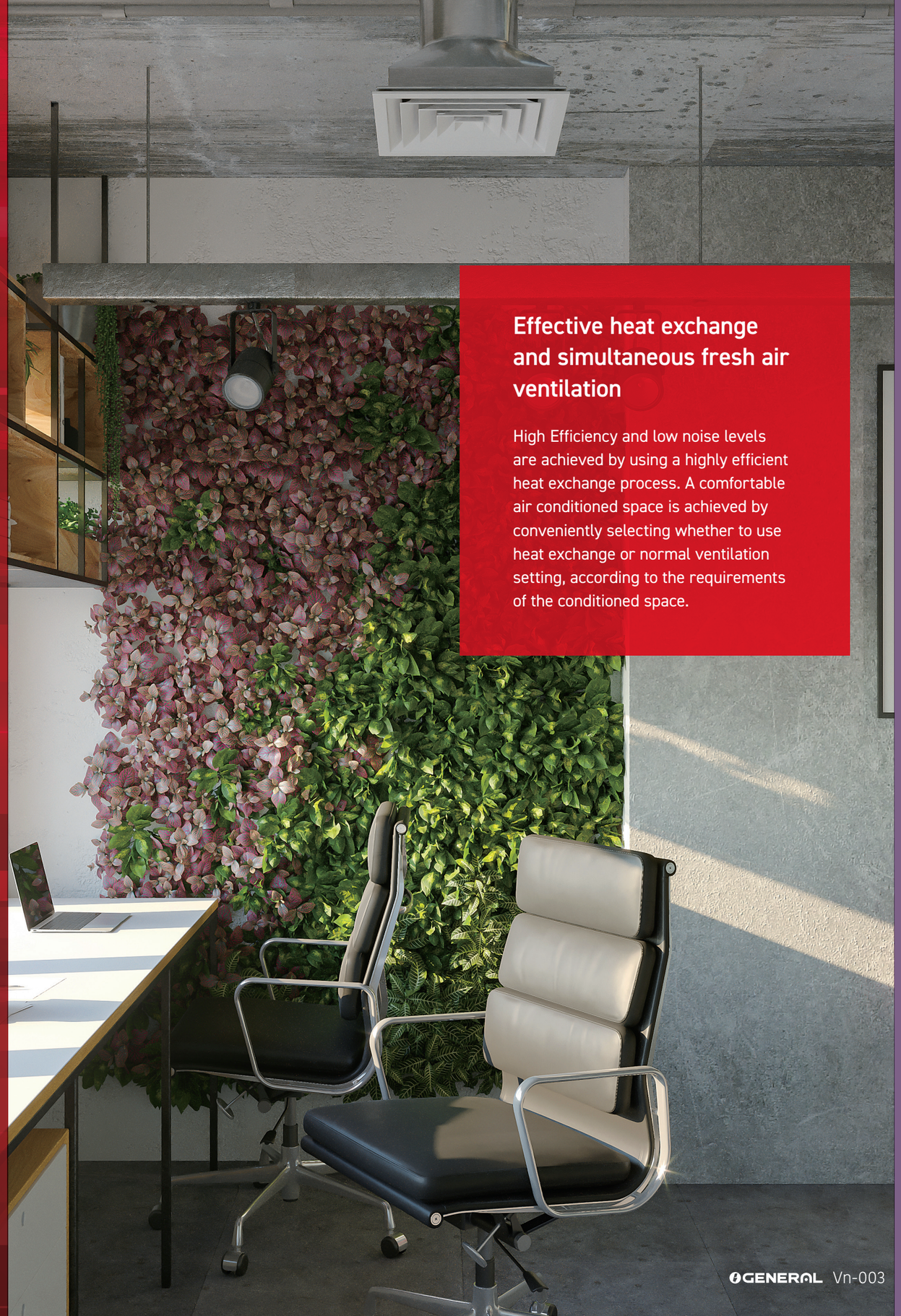
① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

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 applications for VRF Outdoor unit



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.

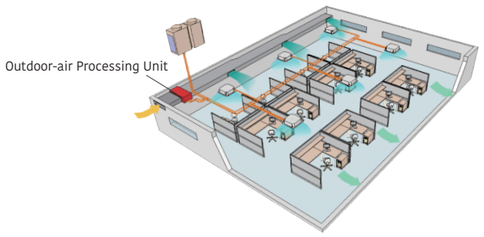
Outdoor-air Processing Unit

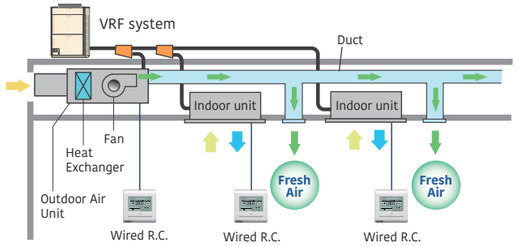


DC FAN

One VRF System can Provide Air Conditioning and Fresh 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.





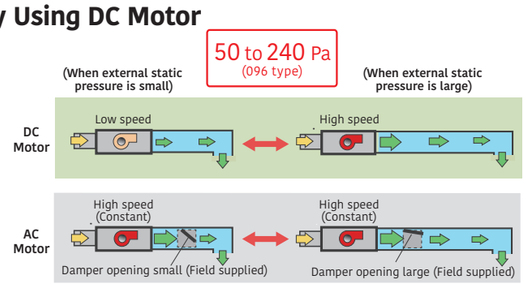
* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor-air Processing Unit connection capacity 30% or less of the outdoor unit capacity.

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.



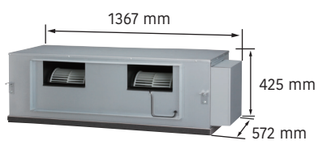
054 / 072 type　　096 type



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.

55 kg
(072 type)



(ARXH072 type)

Various Controller

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

Individual Controller



Wireless Remote Controller　Simple Remote Controller　Wired Remote Controller　Wired Remote Controller (Touch Panel)

Central Controller



Central Remote Controller　Touch Panel Controller　System Controller System Controller Lite (Software)

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

Model:
ARXH054GTAH / ARXH072GTAH / ARXH096GTAH



ARXH054　ARXH072　ARXH096

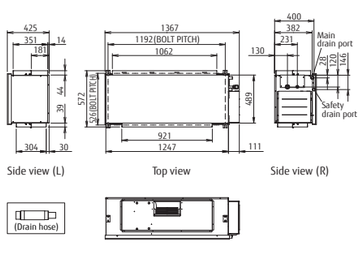
Specifications

Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source		V/Ø/Hz	220-240V, 50Hz		
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input power	Cooling	W	179	292	370
	Heating		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 pipe diameter	Small	mm	9.52	12.70	12.70
	Large		19.05	22.22	22.22
Operating range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

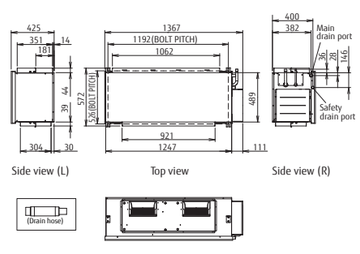
Note : Specifications are based on the following conditions.
Cooling : Outdoor temperature of 33°CDB / 28°CWB.
Heating : Outdoor temperature of 0°CDB / -2.9°CWB.
Pipe length : 7.5 m　Voltage : 230 [V].

Dimensions (Unit: mm)

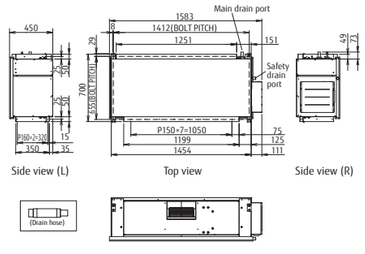
Model: ARXH054



Model: ARXH072



Model: ARXH096



DX kit

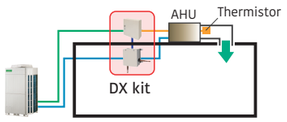
for Air handling applications

for VRF Outdoor unit

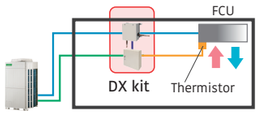


DC FAN

Multiple Temperature Sensors Optimally Control an Air Handling Unit and a Fan Coil Unit

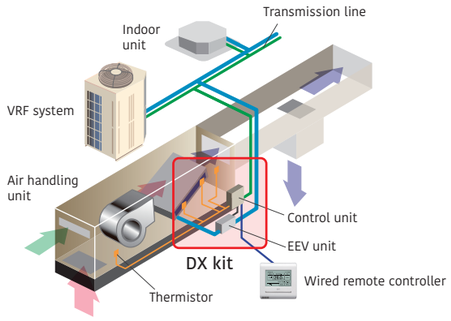


When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.



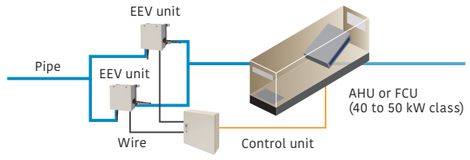
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

Application as part of a VRF system



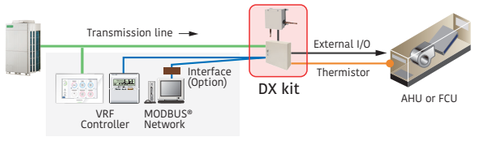
Supports a Wide Range of Capacity Classes

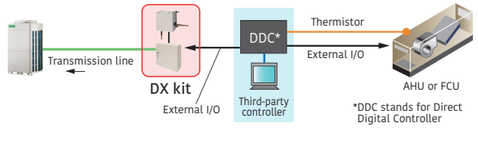
- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube required)
- Connectable capacity range: 5 kW to 50 kW



A Variety of Control Options that Meet Application Requirements

- 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

Outputs

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

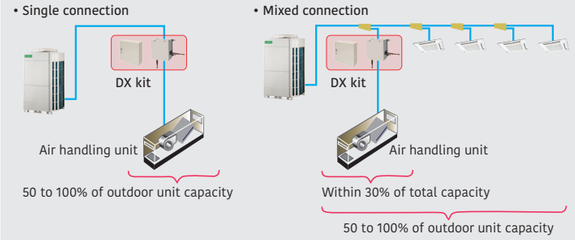
MODBUS® Control

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

Installation 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.

Connectable capacity

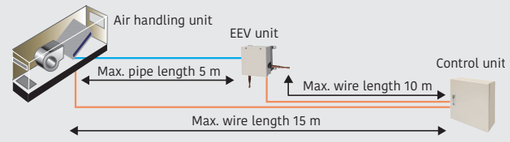


[For 2EEV units connection (option)]

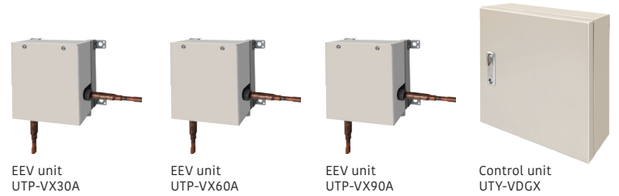
- Separation Tube : UTP-LX180A



Pipe and wire length



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



EEV unit UTP-VX30A | EEV unit UTP-VX60A | EEV unit UTP-VX90A | Control unit UTY-VDGX

Specifications

EEV unit			UTP-VX30A			UTP-VX60A			UTP-VX90A		UTP-VX90A×2	
Power source		V/Ø/Hz	230/1/50									
Connectable capacity class		kW	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
Capacity	Cooling	kW	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		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(Reference 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	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	12.70	12.70	12.70	12.70

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

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

VRF CONTROL SYSTEMS

Control System Overview

Best Control Solution for Each Property

Comparison Table of Controllers

INDIVIDUAL CONTROL

CENTRALIZED CONTROL

CONVERTERS / ADAPTERS



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.

Control System Overview

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

Air Conditioning
Individual Control



Wired Remote Controller
(Touch panel)
UTY-RNRGZ5



Wired Remote Controller
UTY-RLRG



Compact
Wired Remote Controller
UTY-RCRGZ1
UTY-RCRGZ1K



Simple Remote Controller
UTY-RSRGZ1
UTY-RHRGZ1 Without operation mode



Wireless Remote Controller
UTY-LNHGU



IR Receiver Unit
UTB-YWC For Duct type

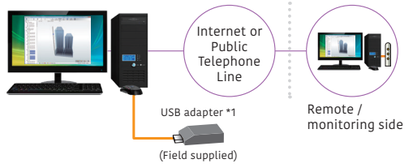


For Cassette

For Circular Flow Cassette

IR Receiver Unit
UTY-LRHGB1 For Cassette type
UTY-LBHXD For Circular Flow Cassette

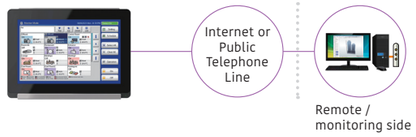
Air Conditioning
Centralised Control



System controller Software
UTY-APGXZ1
UTY-ALGXZ1 (Lite edition)

Maximum controllable
1600* indoor units

* Lite edition is maximum controllable 400 indoor units



Touch panel controller
NEW UTY-DTGGZ2

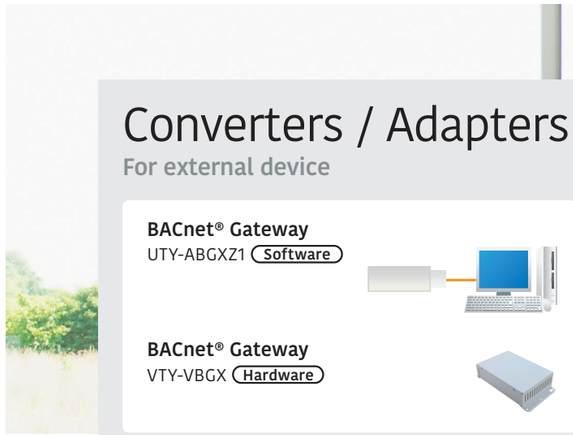
Maximum controllable
400 indoor units



Central Remote Controller
UTY-DCGGZ4

Maximum controllable
100 indoor units





Converters / Adapters
For external device

BACnet® Gateway
UTY-ABGXZ1 Software

BACnet® Gateway
VTY-VBGX Hardware

MODBUS® Converter
UTY-VMGX Hardware



MODBUS® Interface
FJ-RC-MBS-1



KNX® Converter
UTY-VKGX Hardware



KNX® Interface
FJ-RC-KNX-1i

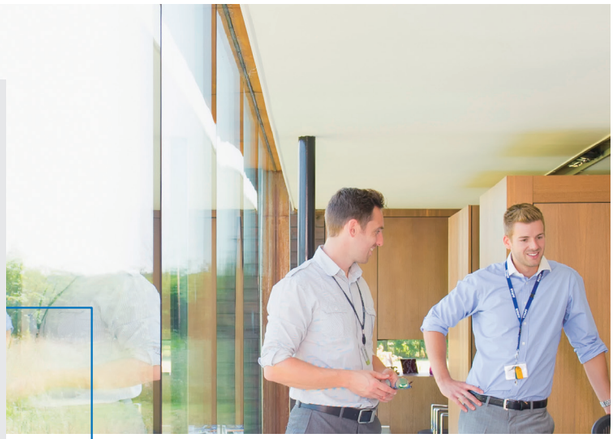


Wireless LAN Adapter
FJ-RC-WIFI-1



External Switch Controller
UTY-TERX





BMS / BAS*2



BMS, Home automation system



or



*1. USB Adaptor: Echelon™ U10 USB Network Interface
*2. BMS/BAS: Building Management System/Building Automation System

Card-key
(Field supplied)



Internet device



Converters / Adapters
For system expansion

Network Converter
(DC power supply)
UTY-VTGX



Network Converter
(AC power supply)
UTY-VTGXV



Signal Amplifier
UTY-VSGXZ1



Thermostat Converter
UTY-TTRXZ1



Best Control Solution for Each Property

GENERAL Inc. provides the best control solutions suitable for the various properties.

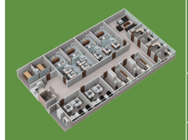
SHOP

Type	Individual Control	Centralized Control			Integrating Control (Interface)	
						
	Wired Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	MODBUS® Converter	KNX® Convertor
	UTY-RNRGZ5, UTY-RLRG UTY-RCRGZ1, UTY-RCRGZ1K	UTY-DCGGZ4	UTY-DTGGZ2	UTY-APGXZ1, UTY-ALGXZ1	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●		
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)		●	●	●	●	●
Group Control		●	●	●		
Advanced Energy Saving (Peak cut, Indoor unit lead lag operation etc.)				●		
Remote Monitoring Management		●	●	●		
Manage multiple sites		●	●	●		
Monitor energy consumption				●		
Control third party products				●		
Integrate FGL A/C into BMS					●	●

HOTEL

Type	Individual Control			Centralized Control			Integrating Control (Interface)			
										
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	MODBUS® Converter	KNX® Convertor	External Switch Controller
	UTY-RNRGZ5, UTY-RLRG UTY-RCRGZ1, UTY-RCRGZ1K	UTY-RSRGZ1, UTY-RHRGZ1	UTY-LNHGU	UTY-DCGGZ4	UTY-DTGGZ2	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	●	●	●							
Centralized A/C control for common space				●	●	●	●	●	●	
Limited control for hotel guests				●	●	●	●	●	●	
Remote Monitoring 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

Type	Individual Control			Centralized Control			Integrating Control (Interface)			
										
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	MODBUS® Converter	KNX® Convertor	External Switch Controller
	UTY-RNRGZ5, UTY-RLRG UTY-RCRGZ1, UTY-RCRGZ1K	UTY-RSRGZ1, UTY-RHRGZ1	UTY-LNHGU	UTY-DCGGZ4	UTY-DTGGZ2	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	●	●	●	●						
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●	●			
Centralized A/C control for management				●	●	●	●	●	●	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)				●	●	●	●	●	●	
Advanced Energy Saving (Peak cut, Indoor unit lead lag operation etc.)						●	●			
Remote Monitoring Management				●	●	●				
Energy Charge Apportionment					●	●	●			
Monitor energy consumption						●				
Control third party products						●				
Integrate FGL A/C into BMS							●	●	●	
Interlock with door contact										●
Interlock with human sensor for meeting room				●	●					●

Comparison Table of Controllers

Item													
			Wired Remote Controller (Touch panel)	Wired Remote Controller	Compact Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite (Software)	System Controller (Software)
Model name			UTY-RNRGZ5	UTY-RLRG	UTY-RCRGZ1	UTY-RCRGZ1	UTY-RSRGZ1	UTY-RHRGZ1	UTY-LNHGU	UTY-DCGGZ4	UTY-DTGGZ2	UTY-ALGXZ1	UTY-APGXZ1
Maximum number of controllable remote controller groups			1	1	1	1	1	1	1	100	400	400	1600
Maximum number of controllable indoor units			16	16	1	1	16	16	16	100	400	400	1600
Maximum number of controllable groups			–	–	–	–	–	–	–	50	400	400	1600
Air conditioning control function	ON / OFF		●	●	●	●	●	●	●	●	●	●	●
	Operation mode setting		●	●	●	●	●	–	●	●	●	●	●
	Fan speed control		●	●	●	●	●	●	●	●	●	●	●
	Room temperature setting		●	●	●	●	●	●	●	●	●	●	●
	Setting temperature range limitation		●	●	–	–	●	●	–	●	●	●	●
	Test operation		●	●	●	●	●	●	●	–	●	–	–
	Vertical louver setting		●	●	●	●	●	●	●	●	●	●	●
	Horizontal louver setting		●	●	●	●	–	–	●	●	●	●	●
	Individual louver control		●	–	●	●	–	–	–	●	●*3	–	–
	Group setting		–	–	–	–	–	–	–	●	●	●	●
	Remote controller prohibition		–	–	–	–	–	–	–	●	●	●	●
	Anti-freeze setting		●	–	●	●	–	–	–	●	●	●	●
	Set temperature auto return		●	●	–	–	–	–	–	–	●	–	–
	Economy mode setting		●	●	●	●	–	–	●	●	●	●	●
	Human sensor control		●	–	–	–	–	–	–	●	●	●	●
Display	Error		●	●	●	●	●	●	–	●	●	●	●
	Defrosting		●	●	●	●	●	●	–	●	●	●	●
	Current time		●	●	–	–	–	–	●	●	●	●	●
	Day of the week		●	●	–	–	–	–	–	●	●	●	●
	Remote controller prohibition		●	●	●	●	●	●	–	●	●	●	●
	Address display		●	●	●	●	●	●	–	–	●	●	●
	Room temperature		●	–	●	●	●	●	–	●*4	●*4	●*4	●*4
	Multiple language support		●	–	–	–	–	–	–	●	●	●	●
	Setting for daylight saving time		●	–	–	–	–	–	–	●	●	●	●
	Name registration		●	–	–	–	–	–	–	●	●	●	●
	Backlighting		●	–	●	●	●	●	–	●	●	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	–	–	–	●
	Refrigerant leak detection		–	–	–	–	●	●	–	●	●	●	●
	Refrigerant Cycle Monitor		●	–	–	–	–	–	–	–	–	–	–
Timer	Schedule timer	Period	Weekly timer	Weekly timer	–	–	–	–	–	Weekly timer	Schedule timer	Schedule timer	Schedule timer
		On/off, Temp, Mode, Low noise mode*5, Times per day	8	4	–	–	–	–	–	20	20	144	144
	ON / OFF timer		●	●	● (OFF only)	● (OFF only)	–	–	●	–	–	–	–
	Sleep timer		–	–	–	–	–	–	●	–	–	–	–
	Program timer		–	–	–	–	–	–	●	–	–	–	–
	Auto-off timer		●	●	–	–	–	–	–	●	●	–	–
	Day off		●	●	–	–	–	–	–	●	●	●	●
	Minimum unit of timer setting (minutes)		10 • 30	30	–	–	–	–	5	10	10	10	10
Control	Remote monitoring management system		–	–	–	–	–	–	–	●	●	●	●
	Electricity charge apportionment		–	–	–	–	–	–	–	–	○	○	●
	Error history		●	●	–	–	–	–	–	●	●	●	●
	Emergency stop		–	–	–	–	–	–	–	●*2	●*2	–	–
	Remote Monitoring management		–	–	–	–	–	–	–	●	●	○	●
	Energy-saving management		–	–	–	–	–	–	–	–	–	○	○
	E-mail notification in case of failure		–	–	–	–	–	–	–	●	●	●	●
	Key lock		● Child lock	● Child lock	–	–	–	–	–	● Password setting	● Password setting	● Password setting	● Password setting
	Low noise mode		–	–	–	–	–	–	–	–	●	●	●

*1 “Operation mode” setting not available. *2 Available only for external input control.
*3 Monitoring sites can be set up. The main unit side can only be operated to cancel the settings.
*4 Available only when using Wired remote controller. *5 UTY-DCGGZ4 only
●: Supported ○: Optional function –: Not supported yet

Wired Remote Controller (with touch panel)

UTY-RNRGZ5



Up to
16 indoor units
Up to
1 group

Easy Operation Due to Large High-Resolution 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 11 different languages
  (English, Chinese, French, German, Spanish, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type

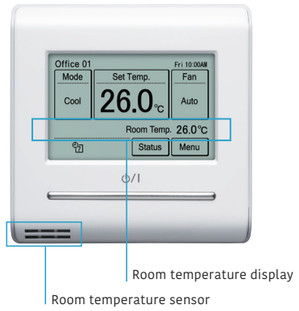
High Performance and Compact Size

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



Accurate Control for Comfort

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



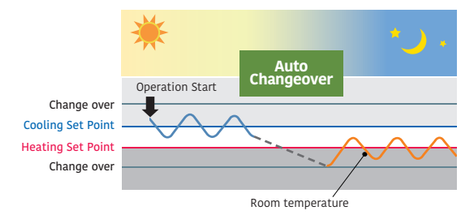
Energy Saving Controls

Custom Auto

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

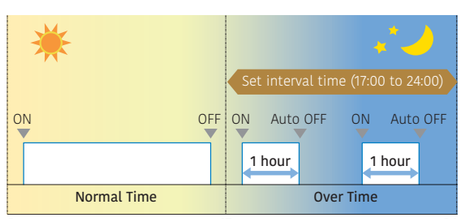
* This function is not available for some models.

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



Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

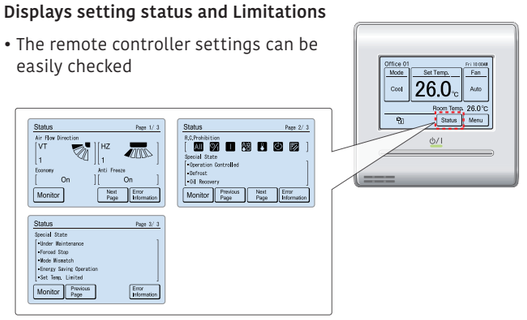
Set Temperature Upper and Lower Limit Setting

Features: Wired remote controller (with touch panel)

Various Energy Saving Control

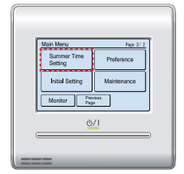
Displays setting status and Limitations

- The remote controller settings can be easily checked



Summer Time display

- This function can be set easily from Menu screen



Child lock

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



Name Registration

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



Backlight

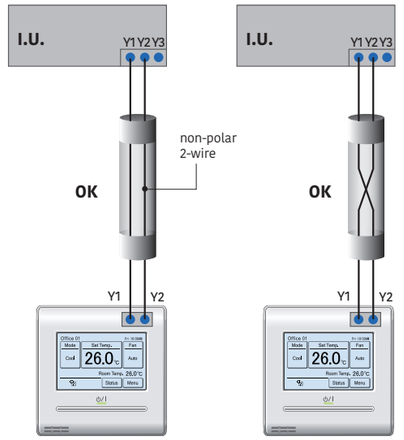
- Backlight enable easy operation in a darkened room.
- For the lighting time of Backlight, 30 or 60 seconds can be set.
- Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.



Simplified Installation

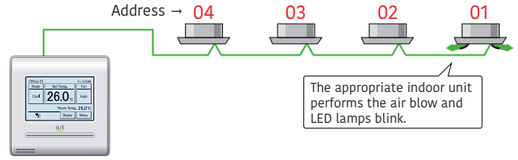
Uses non-polar 2-wire type

- 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



05

Easy Maintenance

Error History Display

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



Specifications

Model name		UTY-RNRGZ5
Power Supply		DC 12V
Dimensions (H x W x D)	mm	120 × 120 × 20.4
Weight	g	220

DC12V is supplied by indoor unit.

Wired Remote Controller

UTY-RLRG



Up to
16 indoor units
Up to
1 group

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

High Performance and Compact Size

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



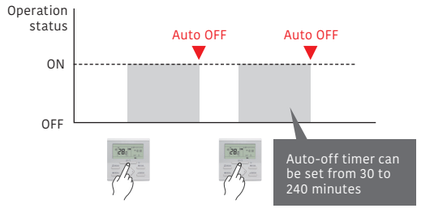
Visually Intuitive Operation

- 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.



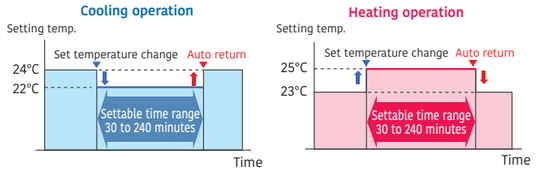
Auto-off Timer

- 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 set temperature can be changed is 30 to 240 minutes.



Specifications

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

DC12V is supplied by indoor unit.

Compact Wired Remote Controller

UTY-RCRGZ1 / UTY-RCRGZ1K



UTY-RCRGZ1



UTY-RCRGZ1K

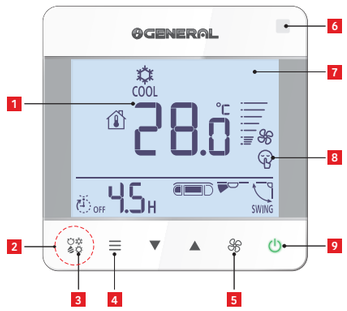
Up to
1 indoor units
Up to
1 group

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

Large Screen and Simple Display

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

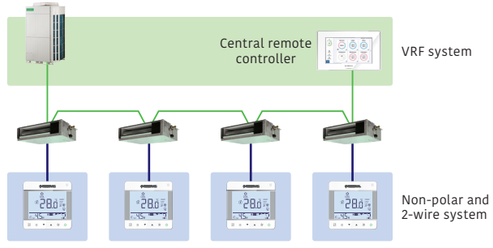
1. Visible large letter
2. Touch key (Frequently-used operation is placed on the direct button)
3. Operation mode
4. Menu
5. Air flow
6. **Built in IR reciever**
7. LCD with backlight is clearly visible in the dark
8. Easy-to-understand pictograph display
9. LED is mounted for the ON/OFF key (Green light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



System Overview

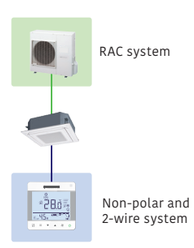
• VRF connection

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



• RAC (Room air conditioner) connection

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



Specifications

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

DC12V is supplied by indoor unit.

Simple Remote Controller

UTY-RSRGZ1 / UTY-RHRGZ1 (without operation mode)



UTY-RSRGZ1

UTY-RHRGZ1 (Without operation mode)

Up to
16 indoor units
Up to
1 group

Compact Remote Controller with Basic Functionality

- 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

Supports a Variety of Applications

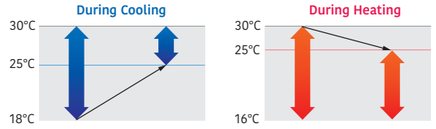
- **Vertical louver control:**

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



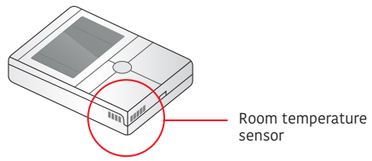
- **Room temperature set point limitation:**

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



- **Built in room temperature sensor:**

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



Specifications

Model name		UTY-RSRGZ1	UTY-RHRGZ1
Power Supply		DC 12V	
Dimensions (H x W x D)	mm	120 × 75 × 19.4	
Weight	g	120	

Wireless Remote Controller

UTY-LNHGU



Up to
16 indoor units
Up to
1 group
Up to
4 different daily timers

Simple and Sophisticated Operations with a Choice of 4 Daily Timers

- A single controller controls up to 16 indoor units.

Built-in Timer

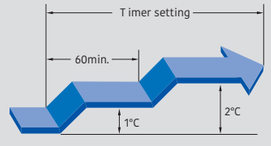
Select from 4 different timer programs : On / Off / Program / Sleep

Program timer : The program timer operates the ON and OFF timer once within a 24 hour period.

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

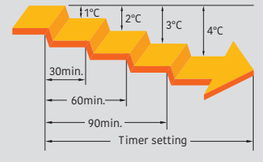
Cooling operation/dry operation

When the sleep timer is set, the set temperature automatically rises 1°C every hour. The set temperature can rise up to a maximum of 2°C.



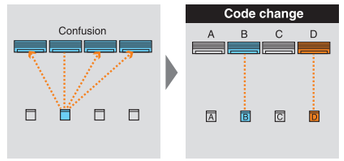
Heating operation

When the sleep timer is set, the set temperature automatically drops 1°C every 30 minutes. The set temperature can drop to a maximum of 4°C.



Easy Installation and Operation

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

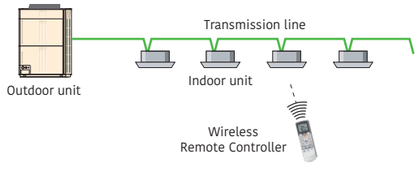


Wide and precise



Address Setting

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



Specifications

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

IR Receiver Unit for Duct type

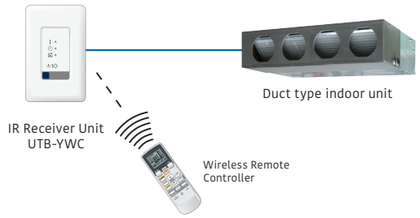
UTB-YWC

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.

Wiring Connection



Specifications

< Wireless Remote Controller >

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>

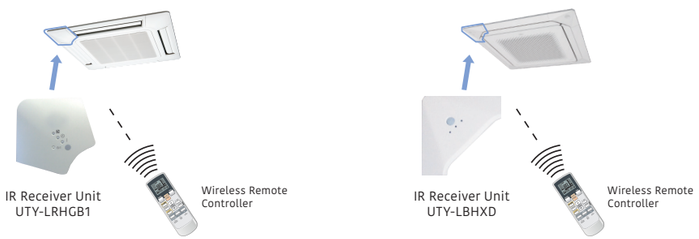
Battery		DC 5V
Dimensions (H x W x D)	mm	145 × 90 × 30
Weight	g	150

IR Receiver Unit for Cassette

UTY-LRHGB1, UTY-LBHXD

Cassette type Indoor Unit can be Controlled with Wireless Remote Controller

Wiring Connection



Specifications

< Wireless Remote Controller >

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
Dimensions (H x W x D)	mm	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2
Weight	g	140	140



Central Remote Controller

UTY-DCGGZ4



Up to
100 indoor units
Up to
50 group

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 13 languages: Chinese (Simplified/Traditional), Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Spanish, Turkish, and Thai (Remote Management only)

Easy Operation

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.



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.

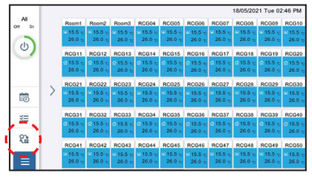
Group Display



Manage & Monitor
by each Groups

One-tap
to switch

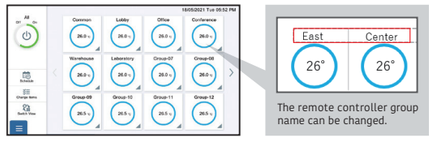
50 Remote Controller Groups Display



Manage & Monitor
by 50 Remote Controller Groups

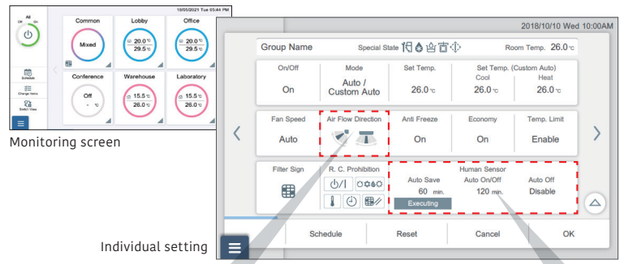
Remote Controller Groups Rename

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.



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.



Added individual wind direction control

Individual wind direction control has been added.

Circular Flow cassette / 3D Flow cassette

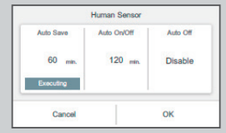


Circular flow cassette

Human Sensor Compatible

Human sensor setting

- Auto save
- Auto on / off
- Auto off detection time
- Enable and disable

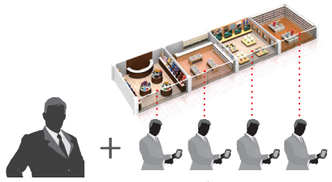


Remote Management

Remote monitoring / Remote operation

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



Maximum
30
accounts

Administrator
(Building owner)

Online users
(Tenant owner)

Trouble support function

Display error details
Display descriptive explanation when an error occurs



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

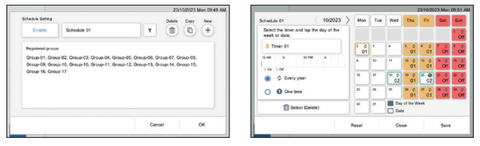
Notify room temperature by email*
Notify by e-mail when the temperature around the air conditioner is too high or too low

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

Schedule Management

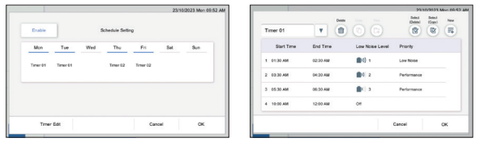
Annual schedule

- 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.



low noise schedule

Low noise operation of outdoor units can be scheduled.



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

Specifications

Model name		UTY-DCGGZ4
Power Supply		100-240 V 50 / 60 Hz
Dimensions (H x W x D)	mm	134.6 × 216.2 × 37.9
Weight	g	800

NEW Touch Panel Controller

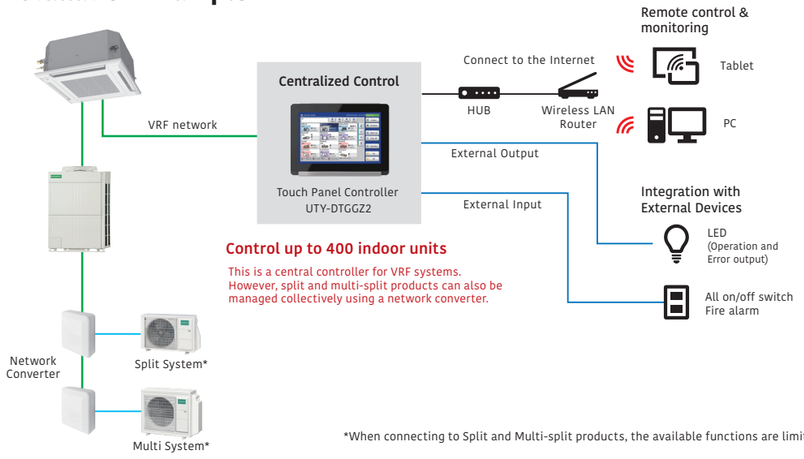
UTY-DTGGZ2



- Stylish look
- Large 10.1-inch TFT color LCD screen
- Touchscreen and Intuitive usability
- Capable of controlling up to 400 indoor units
- Supports 6 languages: Chinese, English, French, German, Polish, and Spanish.
- Capable of displaying refrigerant leak list

Up to
400 indoor units
Up to
100 outdoor units
Up to
400 groups

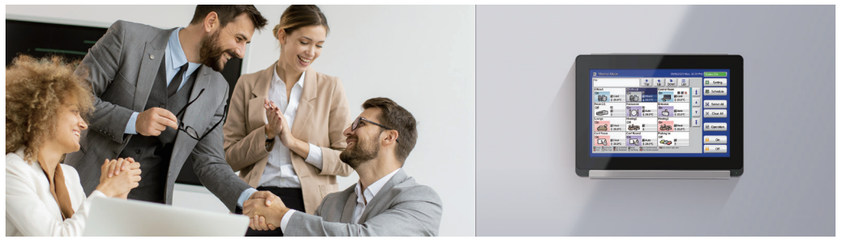
Installation Example



*When connecting to Split and Multi-split products, the available functions are limited.

Compact and sleek appearance

Its compact and clean appearance makes it a design that matches the interior of offices and commercial facilities.



User-friendly monitor design

The large screen makes it easy to operate.

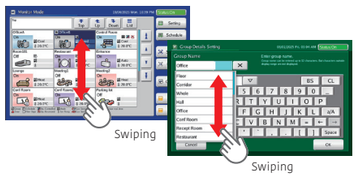
Features a large, easy-to-view 10.1-inch display. The icons displayed are also large, enabling intuitive operation.



Display Size
10.1 inch

Intuitive usability

Scrolling and pull-down lists can be operated by swiping. Numerical values can be changed using the pull-down list.





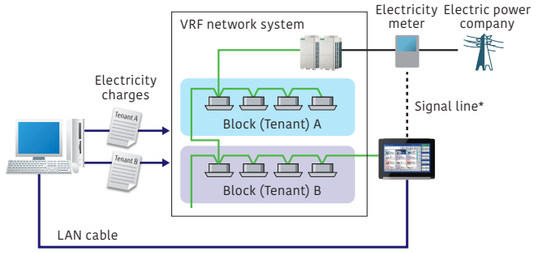


Features: Touch Panel Controller

Compact and sleek appearance
(Online Activation)

- Energy cost can be calculated and allocated to each billing user in proportion to the amount of energy used for air conditioning.

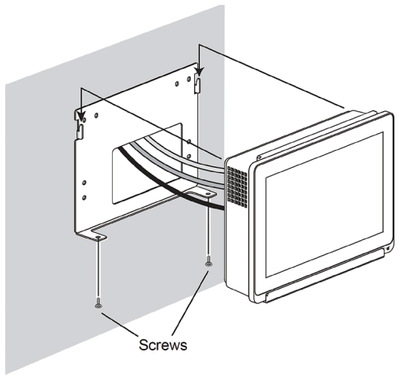
- Apportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment
- Individual calculations for cooling and heating
- Electricity meter supported



* An electricity usage meter can be connected to an external input connector of the Touch panel controller. In that case, the meter cannot be connected to an outdoor unit at the same time.

Easy Installation

- The touch panel controller can be mounted on a wall.
- Flat back surface enables easy installation anywhere on a wall.
- No additional parts or components required for installation



Service & Support Made Easy

This is an operation history accumulation function that enables service personnel to analyze and restore equipment when malfunctions occur.



Operation history data is backed up to the built-in SD card once per day.



Function list

	UTY-DTGGZ2
Maximum number of controllable remote controller groups	400
Maximum number of controllable indoor units	400
Maximum number of controllable groups	400
Air conditioning control functions	
ON/OFF	●
Operation mode setting	●
Fan speed control	●
Room temperature setting	●
Set temperature in 0.5°C increments	●
Setting temperature range limitation	●
Test operation	●
Vertical louver setting	●
Horizontal louver setting	●
Individual louver control	●*1
Group setting	●
Remote controller prohibition	●
Anti-freeze setting	●
Set temperature auto return	●
Economy mode setting	●
Occupancy sensor control	●
Displayed items	
Error	●
Defrosting	●
Current time	●
Day of week	●
Remote controller prohibition	●
Address display	●
Room temperature	●
Multiple language support	●*2
Setting for daylight saving time	●
Name registration	●
Displayed items	
Backlighting	●
2D floor layout/3D building display	–
Refrigerant leak detection	●
Refrigerant Cycle Monitor	–
Logo Display	–
Limited Visibility of Settings	–

		UTY-DTGGZ2
Timer		
Schedule timer	Period	Year
	ON/OFF, Temp, Times per day	20
ON/OFF timer		–
Sleep timer		–
Program timer		–
Auto-off timer		●
Day off		●
Minimum unit of timer setting (minutes)		10
Low noise mode		●
Control		
Remote monitoring management system		●
Electricity charge apportionment		○
Error history		●
Emergency stop		●*3
Remote monitoring management		●
Energy-saving management		–
E-mail notification in case of failure		●
Key lock		● Password setting
Low noise mode		●

*1 Monitoring sites can be set up. The main unit side can only be operated to cancel the settings.
*2 Available only when using Wired remote controller.
*3 Available only for external input control.
●: Supported ○: Optional function –: Not supported yet

Specifications

Model name		UTY-DTGGZ2
Power supply		Single phase ~ 100 to 240V
Dimensions (H x W x D)	mm	194 × 261 × 66
Weight	g	1,750
Interfaces		Transmission/LAN/USB/EXT OUT/RESET/POWER OFF

System Controller

UTY-APGXZ1 Software



Up to
4 VRF network systems
Up to
400 outdoor units
Up to
1,600 indoor units

System controller enables advanced 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



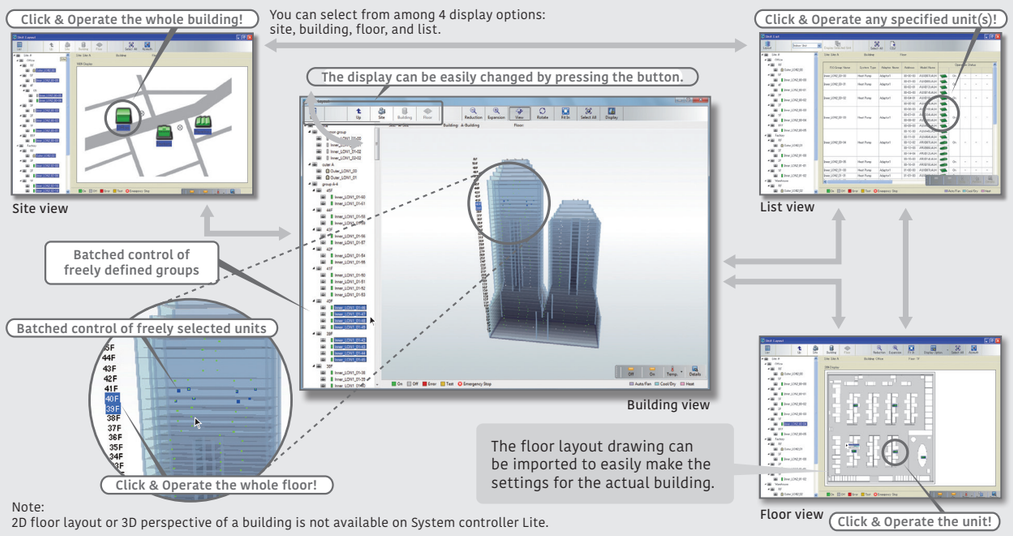
Up to
1 VRF network systems
Up to
100 outdoor units
Up to
400 indoor units

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.



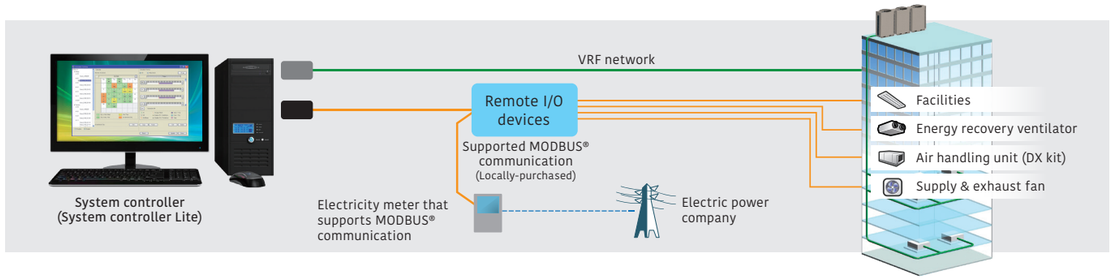
Note:
2D floor layout or 3D perspective of a building is not available on System controller Lite.

Features: System controller / System controller lite

Third-Party Devices Connected via 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.

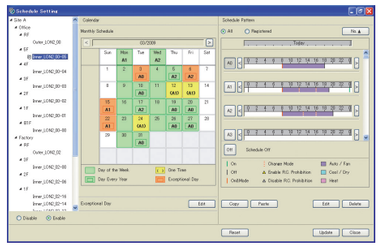


Wide-Ranging Operation and Data Management

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.



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.

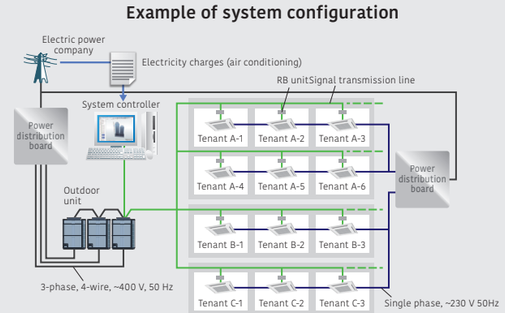
Electricity Charge Apportionment

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.

Example of system configuration



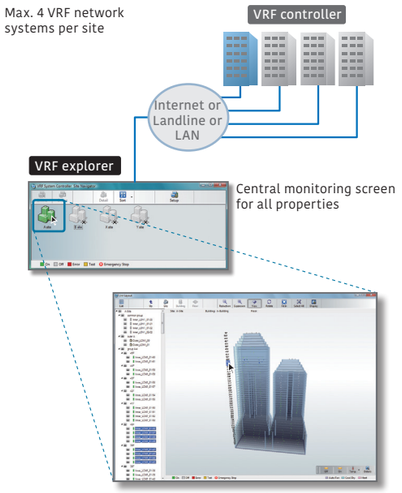
Features: System controller / System controller lite

Remote Monitoring Management

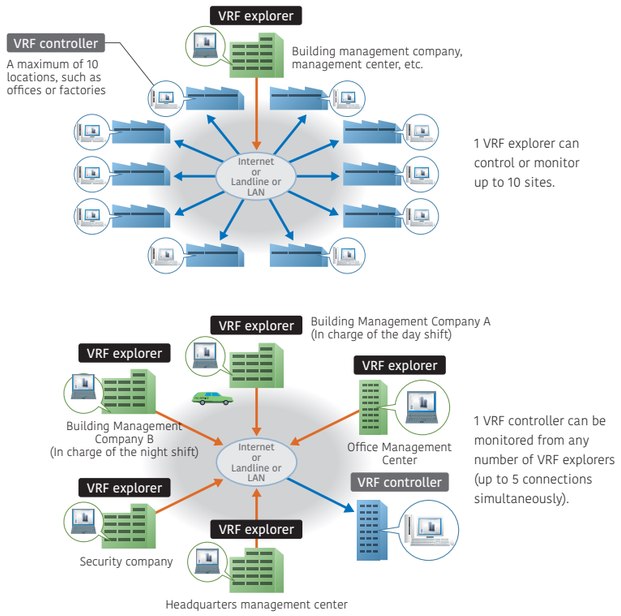
Standard on System controller
Option System controller Lite UTY-PLGXR2

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.

On site central control



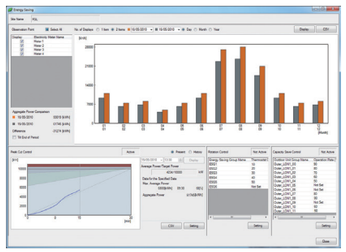
Remote central control



Energy-Saving Management

Option System controller UTY-PEGXZ1
Option System controller Lite UTY-PLGXE2

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 energy-saving 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

Functions	Type		System controller		System controller Lite				
			UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
Specifications	Max. number of VRF networks supported		4	-	1	-	-	-	-
	Max. number of indoor unit and remote controller groups per VRF network		400	-	400	-	-	-	-
	Max. number of outdoor units per VRF network		100	-	100	-	-	-	-
	Max. number of indoor units and remote controller groups per System controller		1600	-	400	-	-	-	-
	Max. number of outdoor units per System controller		400	-	100	-	-	-	-
Site supervision	Multiple site display		10	-	10	-	-	-	-
	Number of buildings per site		20	-	-	-	-	-	-
	Number of floors per site		200	-	-	-	-	-	-
	Number of floors per building		50	-	-	-	-	-	-
	3D graphical layout view		●	-	-	-	-	-	-
	2D graphical layout view		●	-	-	-	-	-	-
	List display		●	-	●	-	-	-	-
	Tree display		●	-	●	-	-	-	-
	Group display		●	-	●	-	-	-	-
Error management	Error notification		●	-	●	-	-	-	-
	Audible alarm		●	-	●	-	-	-	-
	E-mail notification of errors		●	-	●	-	-	-	-
History	Error history		●	-	●	-	-	-	-
	Operation history		●	-	●	-	-	-	-
	Control history		●	-	●	-	-	-	-
Operation control	Individual control	ON/OFF	●	-	●	-	-	-	-
		Operation mode*	●	-	●	-	-	-	-
		Room temperature	●	-	●	-	-	-	-
		Fan speed	●	-	●	-	-	-	-
		Airflow direction	●	-	●	-	-	-	-
		Economy mode	●	-	●	-	-	-	-
		Setting temperature range limitation	●	-	●	-	-	-	-
		Anti-freeze	●	-	●	-	-	-	-
		Low noise setting of outdoor units	●	-	●	-	-	-	-
	Individual management	Remote controller prohibition	●	-	●	-	-	-	-
		Setting temperature range limitation	●	-	●	-	-	-	-
		Filter sign reset	●	-	●	-	-	-	-
	Other	memory operations	●	-	●	-	-	-	-
		Pattern operations	●	-	●	-	-	-	-
Schedule	Annual Schedule		●	-	●	-	-	-	-
	Setting for a specific date		●	-	●	-	-	-	-
	ON/OFF per day		72	-	72	-	-	-	-
	ON/OFF per week		504	-	504	-	-	-	-
	Day off		●	-	●	-	-	-	-
	Minimum unit of timer setting (minutes)		10	-	10	-	-	-	-
	Weekly schedule for low noise mode		●	-	●	-	-	-	-
Remote monitoring management	Web Operation		●	-	●	-	-	-	-
	Remote monitoring		●	-	-	●	-	-	-
	Remote operation control		●	-	-	●	-	-	-
	Remote function setting		●	-	-	●	-	-	-
Electricity charge apportionment	Apportionment charge/bill calculation		●	-	-	-	●	-	-
	Tenant (block) setting		●	-	-	-	●	-	-
	Common facilities apportionment setting		●	-	-	-	●	-	-
	Rated power consumption allotment		●	-	-	-	●	-	-
	Individual calculations for cooling and heating		-	●	-	-	●	-	-
	Electricity meter supported		-	●	-	-	●	-	-
Energy-saving management	Indoor unit rotation		-	●	-	-	-	●	-
	Peak cut control		-	●	-	-	-	●	-
	Capacity saving for outdoor unit		-	●	-	-	-	●	-
	Record of energy-saving operation		-	●	-	-	-	●	-
	Information on energy saving		-	●	-	-	-	●	-
	Power consumption monitor		-	●	-	-	-	●	-
	Electricity meter supported			●		-	-	●	-
Control of external devices	Monitor		●	-	-	-	-	-	●
	Control		●	-	-	-	-	-	●
Others	Importing and exporting databases		●	-	●	-	-	-	-
	Automatic clock adjustment		●	-	●	-	-	-	-
	Multiple language support		7 languages	-	7 languages	-	-	-	-
	Refrigerant leak detector		●	-	●	-	-	-	-
	Power shutdown		●	-	●	-	-	-	-

●●: Available -: Not available

Computer requirements

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

	System controller	System controller Lite
Operating system	• Microsoft Windows 10 Home (64-bit) • Microsoft Windows 10 Pro (64-bit) • Microsoft Windows 11 Home (64-bit) • Microsoft Windows 11 Pro (64-bit) Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel Core i3 2 GHz or higher	
Memory	• 4 GB or more (for Windows 10) • 8 GB or more (for Windows 11)	
HDD	40 GB or more of free space	
Displayed items	1,024 × 768 or higher resolution	
Interfaces	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line) • USB ports (Maximum of 5 ports) (Required only for the server PC that works as VRF controller) – Maximum of 1 USB ports are required for WHITE-USB-KEY connection – Maximum of 4 USB ports are required for Echelon U10 USB/U60-FT DIN Network Interface NOTE: Maximum number of required USB ports depends on the applicable system configuration.	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line) • USB ports (Maximum of 2 ports) (Required only for the server PC that works as VRF controller) – 1 USB port is required for WHITE-USB-KEY connection – 1 USB port is required for Echelon U10 USB/U60-FT DIN Network Interface NOTE: Maximum number of required USB ports depends on the applicable system configuration.
Graphic accelerator	Microsoft DirectX 9.0c compatible	
Software	Adobe Reader 9.0 or later	

• Transmission adapter (Required for each VRF network):
– Echelon U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R)
– Echelon U60-FT DIN Network Interface (Model number: 75060R-40)

<PACKING LIST>

Type	For System controller		For System controller Lite				
	System controller	Option Energy manager	System controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Centralized control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
White-USB-key	1	1	1	1	1	1	1

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

BACnet® Gateway

UTY-ABGXZ1 Software



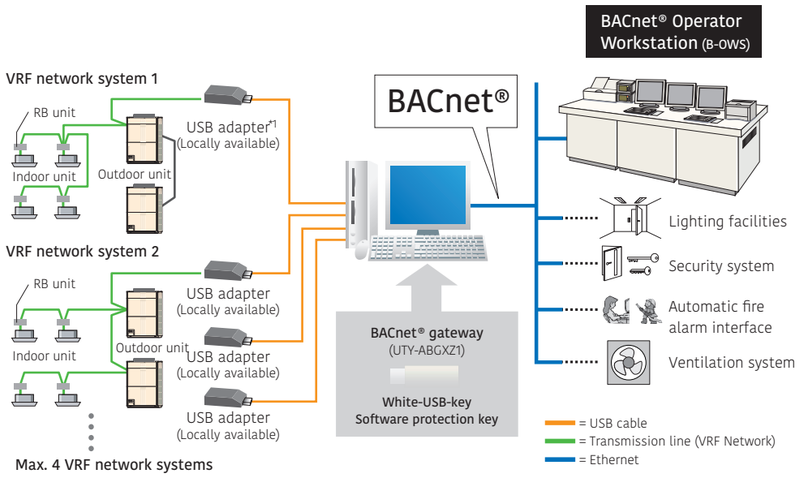
White-USB-key
(Software Protection Key)

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

Up to
4 VRF network systems
Up to
400 outdoor units
Up to
1,600 indoor units

Installation Example



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

Computer requirements

	UTY-ABGXZ1
Operating system	• Microsoft Windows 10 Home (64-bit) • Microsoft Windows 10 Pro (64-bit) • Microsoft Windows 11 Home (64-bit) • Microsoft Windows 11 Pro (64-bit) Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel Core i3 2 GHz or higher
Memory	• 4 GB or more (for Windows 10) • 8 GB or more (for Windows 11)
HDD	40 GB or more of free space
Display	1,024 × 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line) • USB ports (Maximum of 5 ports) (Required only for the server PC that works as VRF controller) – Maximum of 1 USB ports are required for WHITE-USB-KEY connection – Maximum of 4 USB ports are required for Echelon U10 USB/U60-FT DIN Network Interface NOTE: Maximum number of required USB ports depends on the applicable system configuration.
Software	Adobe Reader 9.0 or later

• Transmission adapter (Required for each VRF network):
– Echelon U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R)
– Echelon U60-FT DIN Network Interface (Model number: 75060R-40)

<PACKING LIST>

Name and shape	Quantity	Application
White-USB-key (Software protection key with software)	1	Includes the software and manuals of tool for BACnet Gateway. Additionally, it works as the software protection key. Software protection key to be connected to an USB port on the PC that the BACnet Gateway is installed. BACnet Gateway runs only on a PC with this WHITE-USB-KEY.

BACnet® Gateway

UTY-VBGX Hardware

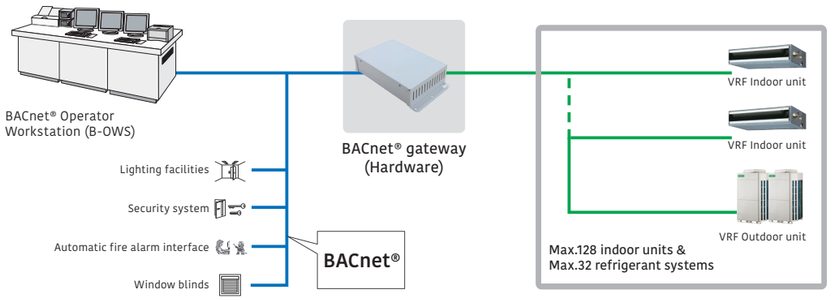


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- BACnet® Gateway enables to connect a BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller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

Up to
1 VRF network systems
Up to
32 refrigerant systems
Up to
128 indoor units

Installation Example



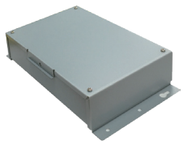
Specifications

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

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

MODBUS® Convertor for VRF

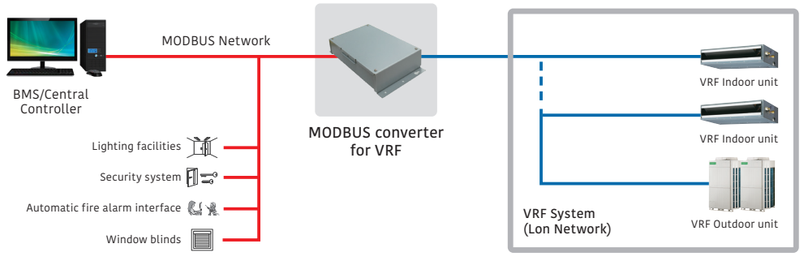
UTY-VMGX Hardware



The MODBUS® Converter Allows a Complete Integration of Air Conditioners into MODBUS® Networks.

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

Up to
9 units per VRF system
Up to
100 outdoor units
Up to
128 indoor units



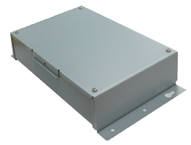
* BMS: Building Management System

Specifications

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

KNX® Convertor for VRF

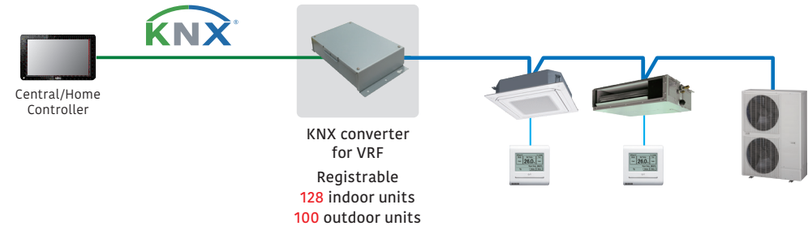
UTY-VKGX Hardware



It is Possible to Control the VRF System from Central / Home Controller via KNX® Network.

- 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.

Up to
100 outdoor units
Up to
128 indoor units



Specifications

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

MODBUS® Interface

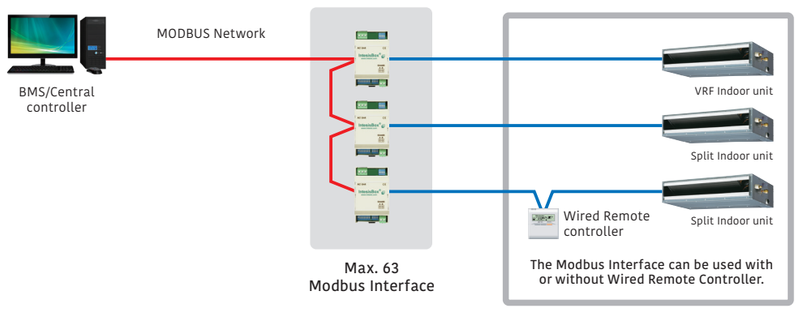
UTY-VKGX



The MODBUS® Interface Allows a Complete Integration of Air Conditioners into MODBUS® Networks.

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

Up to
1 indoor units



Specifications

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

KNX® Interface

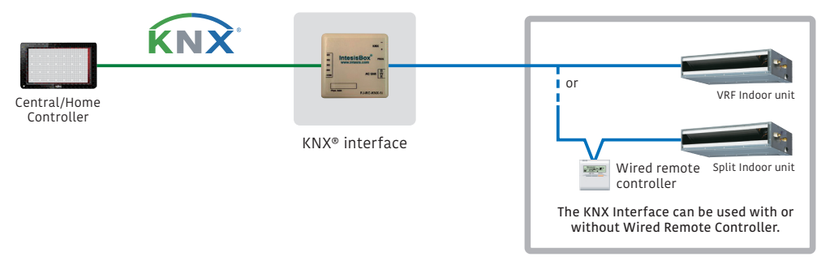
FJ-RC-KNX-1i



The KNX® Interface Allows a Complete Integration of Air Conditioners with KNX® Network Systems.

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

Up to
1 indoor units



Specifications

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

Wireless LAN Adapter

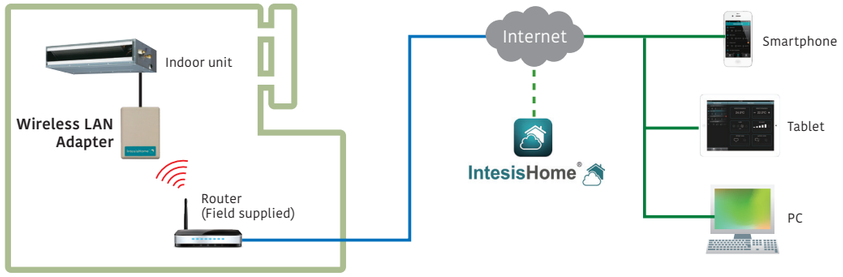
FJ-RC-WIFI-1



Up to
1 Single indoor unit

IntesisHome®

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



Basic Control

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



(Application screen image)

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

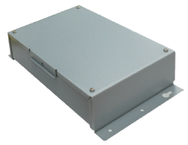
Model name		FJ-RC-WIFI-1
Dimensions (H x W x D)	mm	108 × 70 × 28
Weight	g	80

Network Converter

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

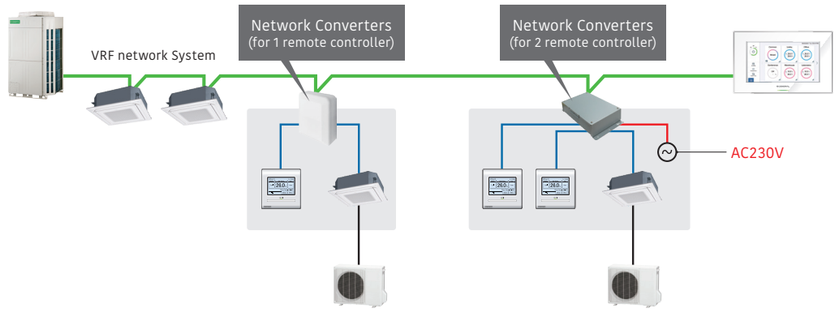
Up to
16 single indoor units
Up to
1 group
Up to
100 Network Converters

Compact Remote Controller Provides Access to Basic Functions

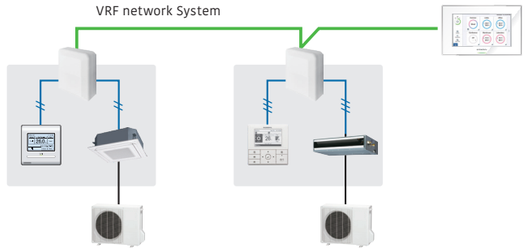
- The network converters are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation Example

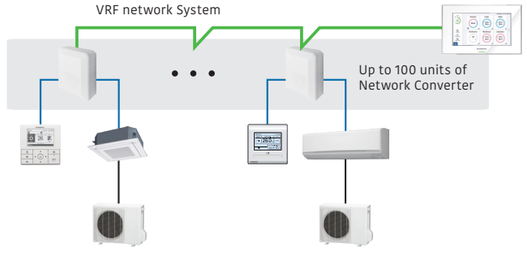
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



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



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



Specifications

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

External Switch Controller

UTY-TERX

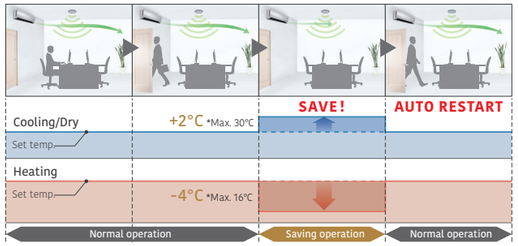


Up to
1 group

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

Installation Example

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



Human sensor equipment needs to be purchased locally. 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.

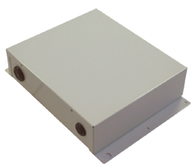
Specifications

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

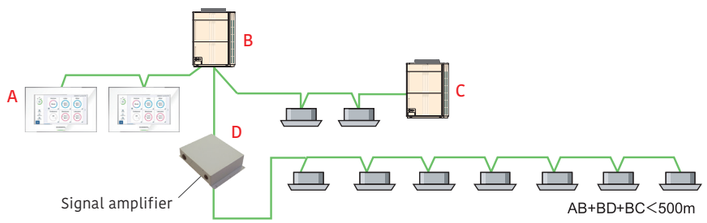
UTY-VSGXZ1



- 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

Thermostat Converter

UTY-TTRXZ1

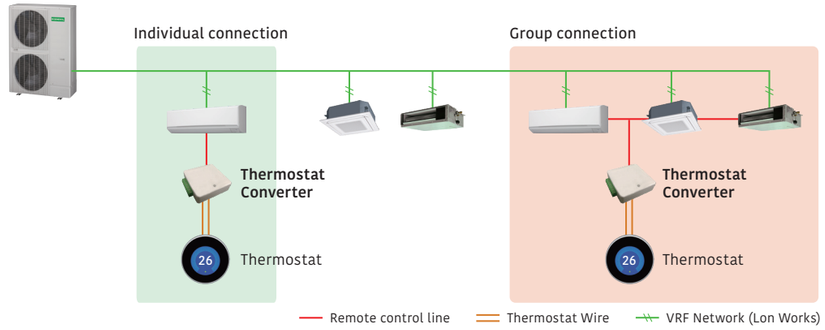


Up to
16 indoor unit

Control Air Conditioner Using Third Party Thermostat

- Thermostat converter can control GENERAL Inc. products using a third party thermostat. Up to 16 indoor unit can be connected with one thermostat converter.

Installation Example



Function

Air Conditioning Control	ON/OFF
	Operation mode
	Room Temperature
	Fan Speed
	Delay OFF

Air Conditioning Control	Indoor unit Error notification*
	Converter Error notification*

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

*When this product is connected to a VRF system indoor unit, or when the indoor unit does not support fan mode, the system does not consider the third-party room temperature sensor value. Instead, the operation is controlled based on the indoor unit's internal thermistor value.

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

VRF OPTION

Pressure Sensor Kit

Auto Louver Grille Kit

Controller 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.

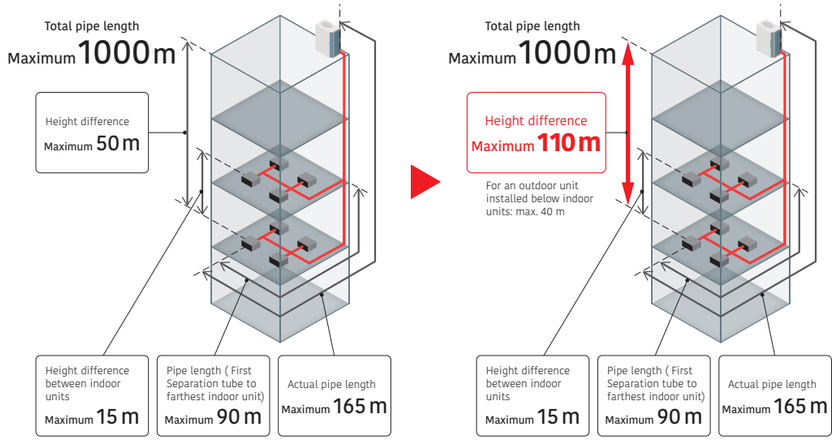
Pressure Sensor Kit

UTY-SPWX

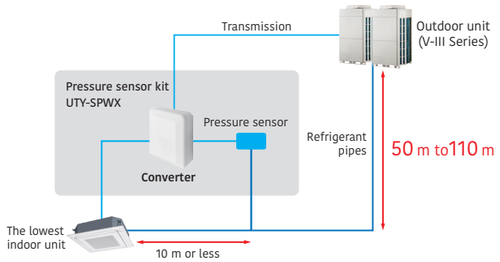


Design Flexibility

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.)



System Overview



Pressure Sensor Kit

Pressure sensor kit (Converter)	Refrigerant pressure sensor	Joint pipe
		

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.

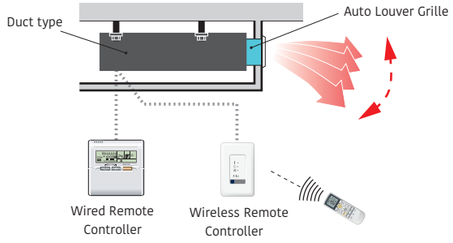


Flexible Control

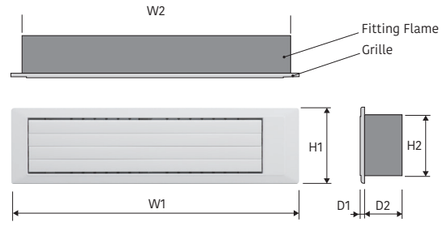
- Operation with indoor unit
  Auto Louver can be operated by synchronizing remote controller of indoor unit.

- 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



Unit: mm

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

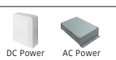
Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit			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 Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Dimensions (H × W × D)		mm	180 × 683 × (84+9)	180 × 883 × (84+9)	180 × 1083 × (84+9)
Weight	Net	kg	2.0	2.5	3.0
	Gross		3.0	3.5	4.0
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operating range	Cooling	℃	18 to 32		
		% RH	80% or less		
	Heating	℃	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.

Control System List for VC-V

Controllers / Interface

Type			Indoor unit																					
			Cassette					Duct				Duct		Ceiling / Floor	Ceiling	Wall Mounted								
			One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Low Static Pressure			Low Static Pressure	Medium Static Pressure	High Static Pressure										
						Circular Flow		Mini (With drain pump)	Mini (Without drain pump)		Slim (With drain pump)	Normal	Normal			–		EEV external		–			
			AUGV 007/012/014/ 018/024 GLEH-U	AUGS 018/024 GLEH-U	AUGB 007/009/012/ 014/018/024 GLEH-U, AUGB 007/009/012/ 014/018/024 GTEH-U	AUGN 009/012/014/ 018/024 GLAH-U, AUGM018GTEH-U	AUGK 018/024/030/ 034/036/045/054 GLEH-U, AUGK 018/024/030/ 034/036/045/054 GTEH-U	ARGK 007/009/012/ 014/018/024 GLGH-U	ARGK 007/009/012/ 014/018/024 GLHH-U		ARGD 007/009/012/ 014/018/024 GLEH-U, ARGD 007/009/012/ 014/018/024 GTEH-U	ARGA 024/030/036/045 GLEH-U, ARGA 024/030/036/045 GTEH-U	ARGC 036/045/060/ 072/090/096 GTEH-U	ABGA 012/014/018/024 GTEH-U	ABGA 030/036/045/054 GTEH-U	ASGA 007/009/012/014 GCGH-U		ASGE 007/009/012/014 GCEH-U		ASGA 18/24GBCH-U		ASGA 030/034GTEH-U	
Controllers	Wired Remote Controller		● UTY-RVRG												● UTY-RVRG								
			● UTY-RNRGZ5												● UTY-RNRGZ5								
			● UTY-RLRG												● UTY-RLRG								
	Compact Wired Remote Controller		● UTY-RCRGZ1, UTY-RCRGZ1K, UTY-RCRGZ1B												● UTY-RCRGZ1, UTY-RCRGZ1K, UTY-RCRGZ1B								
	Simple Remote Controller	 2-wire type	● UTY-RSRGZ1, UTY-RHRGZ1												● UTY-RSRGZ1, UTY-RHRGZ1								
	Wireless Remote Controller		● UTY-LNHGU												● UTY-LNHGU								
	Central Remote Controller		● UTY-DCGGZ4												● UTY-DCGGZ4								
	Touch Panel Controller		● UTY-DTGGZ2												● UTY-DTGGZ2								
	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1												● UTY-APGXZ1, UTY-ALGXZ1								
	IR Receiver Unit		● UTY-TRHX		● UTY-LBHXD			● UTY-TRHX		● UTY-TRHX		● UTY-TRHX UTB-YWC	● UTY-TRHX										
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX												● UTY-ABGXZ1, UTY-VBGX								
	MODBUS Converter		● UTY-VMGX FG-TL-MBS16Z1												● UTY-VMGX FG-TL-MBS16Z1								
	KNX Convertor		● UTY-VKGX												● UTY-VKGX								
	Wireless LAN Interface		● UTY-TFSXJ3							● UTY-TFSXJ3			● UTY-TFSXJ3 (036/072/090/096)		● UTY-TFSXJ3						● UTY-TFSXJ3		
	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*								

* When this product is connected to a VRF system indoor unit, or when the indoor unit does not support fan mode, the system does not consider the third-party room temperature sensor value. Instead, the operation is controlled based on the indoor unit's internal thermistor value.

Control System List for V-III Tropical and J-III Tropical

Controllers / Interface

Type			Indoor unit																				
			Cassette					Duct				Duct						Ceiling / Floor	Ceiling	Wall Mounted			
			4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Mini (Without drain pump)		Slim (With drain pump)	Medium Static Pressure	High Static Pressure		Low Static Pressure				–	EEV external	–
			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	ARGB054GTAH		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
Controllers	Wired Remote Controller		● UTY-RNRGZ5												● UTY-RNRGZ5						
			● UTY-RLRG												● UTY-RLRG						
	Compact Wired Remote Controller		● UTY-RCRGZ1, UTY-RCRGZ1K												● UTY-RCRGZ1, UTY-RCRGZ1K						
	Simple Remote Controller	 2-wire type 3-wire type	● UTY-RSRGZ1, UTY-RHRGZ1, UTY-RSKG, UTY-RHKG												● UTY-RSRGZ1, UTY-RHRGZ1, UTY-RSKG, UTY-RHKG						
	Wireless Remote Controller		● UTY-LNHG												● UTY-LNHG						
	Central Remote Controller		● UTY-DCGGZ4												● UTY-DCGGZ4						
	Touch Panel Controller		● UTY-DTGGZ2												● UTY-DTGGZ2						
	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1												● UTY-APGXZ1, UTY-ALGXZ1						
	IR Receiver Unit			● UTY-LRHGB1		● UTY-LBHXD		● UTB-YWC					● UTB-YWC								
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX												● UTY-ABGXZ1, UTY-VBGX						
	MODBUS Converter		● UTY-VMGX												● UTY-VMGX						
	MODBUS Interface		● FJ-RC-MBS-1					● FJ-RC-MBS-1			● FJ-RC-MBS-1		● FJ-RC-MBS-1 (ARXC45/60/72/90/96GATH only)				● FJ-RC-MBS-1				
	KNX Convertor		● UTY-VKGX												● UTY-VKGX						
	KNX Interface		● FJ-RC-KNX-1i					● FJ-RC-KNX-1i			● FJ-RC-KNX-1i		● FJ-RC-KNX-1i (ARXC45/60/72/90/96GATH only)				● FJ-RC-KNX-1i				
	Wireless LAN Interface		● FJ-RC-WIFI-1					● FJ-RC-WIFI-1			● FJ-RC-WIFI-1		● FJ-RC-WIFI-1 (ARXC45/60/72/90/96GATH only)				● FJ-RC-WIFI-1				
	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*						

* When this product is connected to a VRF system indoor unit, or when the indoor unit does not support fan mode, the system does not consider the third-party room temperature sensor value. Instead, the operation is controlled based on the indoor unit's internal thermistor value.

Optional Parts List for VC-V

Others

Type			Indoor unit																Outdoor unit
			Cassette					Duct			Duct			Ceiling / Floor	Ceiling	Wall Mounted				
			One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Low Static Pressure			Low Static Pressure	Medium Static Pressure	High Static Pressure			–	EEV external		–	
						Circular Flow		Mini (With drain pump)	Mini (Without drain pump)		Slim (With drain pump)	Normal	Normal							
			AUGV 007/012/014/ 018/024 GLEH-U	AUGS 018/024 GLEH-U	AUGB 007/009/012/ 014/018/024 GLEH-U, AUGB 007/009/012/ 014/018/024 GTEH-U	AUGN 009/012/014/ 018/024 GLAH-U, AUGM018GTEH-U	AUGK 018/024/030/ 034/036/045/054 GLEH-U, AUGK 018/024/030/ 034/036/045/054 GTEH-U	ARGK 007/009/012/ 014/018/024 GLGH-U	ARGK 007/009/012/ 014/018/024 GLHH-U		ARGD 007/009/012/ 014/018/024 GLEH-U, ARGD 007/009/012/ 014/018/024 GTEH-U	ARGA 024/030/036/045 GLEH-U, ARGA 024/030/036/045 GTEH-U	ARGC 036/045/060/ 072/090/096 GTEH-U	ABGA 012/014/018/024 GTEH-U	ABGA 030/036/045/054 GTEH-U	ASGA 007/009/012/014 GCGH-U	ASGE 007/009/012/014 GCEH-U	ASGA 18/24GBCH-U	ASGA 030/034GTEH-U	
Others	Occupancy Sensor Kit					● UTY-SHZXC														
	Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.	● UTY-XSZXZ1											● UTY-XSZXZ1						
	Cassette Grille	 UTG-UNGA-W UTG-UNGB-W UTG-USGA-W UTG-UFGE-W UTG-UKGC-W UTG-UKGA-B	● UTG-UNGA-W UTG-UNGB-W	● UTG-USGA-W	● UTG-UFGE-W	● UTG-UKGD-W UTG-UKGC-W UTG-UKGA-B														
	Auto Louver Grille Kit							● UTD-GXTA-W(007/009/012/014) UTD-GXTB-W(018) UTD-GXTC-W(024)			● UTD-GXTA-W (007/009/012/014) UTD-GXTB-W(018) UTD-GXTC-W(024)										
	Long Life Filter											● UTD-LF25NA	● UTD-LF60KA (036/045/060)							
	Flange											● UTD-SF045T UTD-RF204			● UTD-RF204					
	Drain Pump Unit											● UTZ-PX1NBA			● UTR-DPB24T					
	Wide Panel					● UTG-AKXA-W														
	Panel Spacer					● UTG-BKXA-W														
	Fresh air intake kit	 For Compact cassette For Circular flow cassette			● UTZ-VXAA	● UTZ-VXRA														
	Air Outlet Shutter Plate	 For Compact Cassette For Cassette			● UTR-YDZB	● UTR-YDZK, UTR-YDZC														
	Insulation for High Humidity	 For Compact Cassette type / Cassette type			● UTZ-KXGC	● UTZ-KXRA UTZ-KXGB	● UTZ-KXRA UTZ-KXGA													
	External Power Supply Unit		● UTZ-GXXA UTZ-GXXC								● UTZ-GXXA UTZ-GXXC		● UTZ-GXXA UTZ-GXXC (036/096)	● UTZ-GXXA UTZ-GXXC						
	Pressure Sensor Kit for V-III Series*																			● UTY-SPWX

Optional Parts List for V-III Tropical and J-III Tropical

Others

Type			Indoor unit																	Outdoor unit
			Cassette					Duct				Duct				Ceiling / Floor	Ceiling	Wall Mounted			V-III Tropical
			4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Mini (Without drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure		Low Static Pressure		–	EEV external	–	
			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	ARGB054GTAH	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	AJH 072/090/108/ 126/144/162 LN∗∗H
Others	Human Sensor Kit					● UTY-SHZXC														
	Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.						● UTY-XSZX				● UTY-XSZX								
	Cassette Grille	 UTG-UFGC-W UTG-UGGA-W UTG-UKGD-W UTG-UKGA-B	● UTG-UFGC-W	● UTG-UGGA-W		● UTG-UKGD-W UTG-UKGA-B														
	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)		● UTD-LFNA						
	Flange										● UTD-SF045T UTD-RF204					● UTD-RF204				
	Drain Pump Unit										● UTZ-PX1NBA					● UTR-DPB24T				
	Wide Panel			● UTG-AKXA-W UTG-AGYA-W		● UTG-AKXA-W														
	Panel Spacer			● UTG-BKXA-W UTG-BGYA-W		● UTG-BKXA-W														
	Air Outlet Shutter Plate	 For Compact Cassette For Cassette	● UTR-YDZB	● UTR-YDZK		● UTR-YDZK														
	Insulation for High Humidity	 For Compact Cassette type / Cassette type	● UTZ-KXGC	● UTZ-KXRA		● UTZ-KXRA														
	Pressure Sensor Kit for V-III Series*																			● UTY-SPWX

AJH_LN∗∗H : AJH_LNTDH, AJH_LNLBH

Optional Parts

Controllers

For Individual Control

Wired Remote Controller (Touch Panel)
UTY-RNRGZ5



Wired Remote Controller
UTY-RLRG



Compact Wired Remote Controller
UTY-RCRGZ1 UTY-RCRGZ1K



Simple Remote Controller
UTY-RSRGZ1 With operation mode
UTY-RHRGZ1 Without operation mode



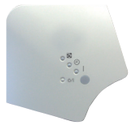
Wireless Remote Controller
UTY-LNHGU



IR Receiver Unit
UTB-YWC
For All Duct types except Large Airflow Duct



IR Receiver Unit
UTY-LRHGB1
For Cassette type



IR Receiver Unit
UTY-LBHXD
For Circular Flow Cassette type



Human Sensor Kit
UTY-SHZXC
For Circular Flow Cassette type



For Centralized Control

Central Remote Controller
UTY-DCGGZ4



Touch panel controller
NEW UTY-DTGGZ2



System Controller Lite Software
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

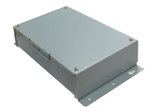
BACnet® Gateway Software
UTY-ABGXZ1
WHITE-USB-KEY
(Software Protection Key)



BACnet® Gateway Hardware
UTY-VBGX



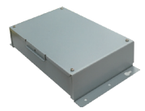
MODBUS® Converter Hardware
for VRF
UTY-VMGX



MODBUS® Interface
FJ-RC-MBS-1



KNX® Converter Hardware
for VRF
UTY-VKGX



KNX® Interface
FJ-RC-KNX-1i



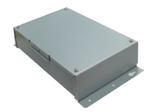
Wireless LAN Interface
FJ-RC-WIFI-1



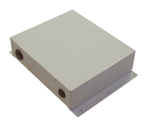
Network Converter
for single split
UTY-VTGX
DC power supply type



Network Converter
for single split
UTY-VTGXV
AC power supply type



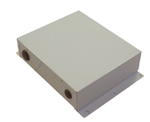
Network Converter
for Group Remote Controller
UTY-VGGXZ1



External Switch Controller
UTY-TERX



Signal Amplifier
UTY-VSGXZ1



Thermostat Converter
UTY-TTRXZ1



Pressure Sensor Kit
for V-III tropical Series*
UTY-SPWX



Optional Parts

Panels

For Cassette type

Cassette Grille
UTG-UFGD-W
For Compact Cassette type



Cassette Grille
UTG-UGGA-W
For Cassette type



Cassette Grille
UTG-UKGD-W
For Circular Flow Cassette type



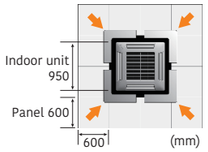
Cassette Grille
UTG-UKGA-B
For Circular Flow Cassette type



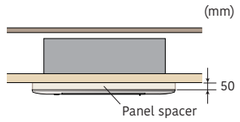
Others

For Cassette type

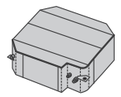
Wide Panel
UTG-AKXA-W
For Cassette type



Panel Spacer
UTG-BGYA-W
For Cassette type



Insulation Kit for High Humidity
UTZ-KXRA
For Cassette type
UTZ-KXGC
For Compact Cassette type



Air Outlet Shutter Plate
UTR-YDZB
For Compact Cassette type
Shuts the air outlet when only using as 3 blow out.

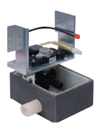


Air Outlet Shutter Plate
UTR-YDZK
For Cassette type
Shuts the air outlet when only using as 3 blow out.



For Ceiling type

Drain Pump Unit
UTR-DPB24T
For Ceiling type



Others

For Duct type

Flange (Round)
UTD-RF204
For Medium Static Pressure Duct type / Ceiling type



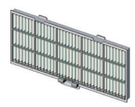
Flange (Square)
UTD-SF045T
For Medium Static Pressure Duct type



Remote Sensor Unit
UTY-XSZX
For All Duct type
New amenity space can be offered by installing the Remote sensor.



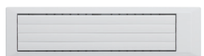
Long-Life Filter
UTD-LF25NA
For Medium Static Pressure Duct type



UTD-LF60KA
For High Static Pressure Duct type



Auto Louver Grille Kit
UTD-GXTA-W (for ARXD07/09/12/14, ARXK07/09/12/14)
UTD-GXTB-W (for ARXD18, ARXK18)
UTD-GXTC-W (for ARXD24, ARXK24)
For Slim Duct type / Mini Duct type



Drain Pump Unit
UTZ-PX1NBA
For Medium Static Pressure Duct

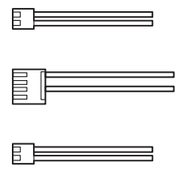


Communication system: External Connect Kit

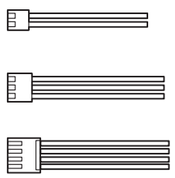
For Indoor unit
UTY-XWZXZ7
UTY-XWZXZB
UTY-XWZXZC
UTY-XWZXZD
UTY-XWZXZE



For Outdoor unit
UTY-XWZXZ6
UTY-XWZXZ9
UTY-XWZXZF



For Central Remote Controller
UTY-XWZXZ7
UTY-XWZXZ8
UTY-XWZXZA



For Touch Panel Controller
UTY-XWZXZA



Function List for VC-V

Type		Indoor unit											Indoor unit					Outdoor unit			Controller
		Cassette					Duct				Duct		Ceiling / Floor	Ceiling	Wall Mounted			J-III Tropical	V-III Tropical	VC-V	Central Remote Controller
		One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type / Circular Flow	Large type / Circular Flow	Low Static Pressure Mini (With drain pump)	Low Static Pressure Mini (Without drain pump)	Low Static Pressure Slim (With drain pump)	Medium Static Pressure Normal	High Static Pressure Normal				–	EEV external	–				
		AUGV 007/012/014/018/024 GLEH-U	AUGS 018/024 GLEH-U	AUGB 007/009/012/014/018/024 GLEH-U, AUGB 007/009/012/014/018/024 GTEH-U	AUGN 009/012/014/018/024 GLAH-U, AUGM018GTEH-U	AUGK 018/024/030/034/036/045/054 GLEH-U, AUGK 018/024/030/034/036/045/054 GTEH-U	ARGK 007/009/012/014/018/024 GLGH-U	ARGK 007/009/012/014/018/024 GLHH-U	ARGD 007/009/012/014/018/024 GLEH-U, ARGD 007/009/012/014/018/024 GTEH-U	ARGA 024/030/036/045 GLEH-U, ARGA 024/030/036/045 GTEH-U	ARGC 036/045/060/072/090/096 GTEH-U	ABGA 012/014/018/024 GTEH-U	ABGA 030/036/045/054 GTEH-U	ASGA 007/009/012/014 GCGH-U	ASGE 007/009/012/014 GCEH-U	ASGA 18/24GBCH-U	ASGA 030/034GTEH-U	AJH 040/045/054 LBTBHN, AJH 040/045/054 LETBHN	AJ∗ 072/090/108/126/144/162 LN∗∗H	AJG 072/090/108/126/144/162/180 JNTAH-U	UTY-DCGGZ3
Input	Operation / Stop	●UTY-XWZXZD ○UTY-XWZXZB												●UTY-XWZXZD ○UTY-XWZXZB							
Input	All On / All Off																				●UTY-XWZXZ7 ○UTY-XWZXZ8
Input	Group Stop																		●UTY-XWZXZ6		
Input	Forced Stop	●UTY-XWZXZD ○UTY-XWZXZB												●UTY-XWZXZD ○UTY-XWZXZB							
Input	Emergency Stop	●UTY-XWZXZD ○UTY-XWZXZB												●UTY-XWZXZD ○UTY-XWZXZB					●UTY-XWZXZ6		●UTY-XWZXZ7 ○UTY-XWZXZ8
Input	Forced Thermostat off	●UTY-XWZXZE ○UTY-XWZXZ7												●UTY-XWZXZE ○UTY-XWZXZ7							
Input	Low Noise Mode Operation																		●UTY-XWZXZ6		
Input	Cooling/ Heating Priority																				
Input	Outdoor Unit Operation Peak Control																		●UTY-XWZXZ6		
Input	Power Usage Information from Electricity Meter																		●UTY-XWZXZF		
Output	Operation Status	●UTY-XWZXZC												●UTY-XWZXZC					○UTY-XWZXZ6		○UTY-XWZXZA
Output	Error Status	●UTY-XWZXZC												●UTY-XWZXZC					○UTY-XWZXZ6		○UTY-XWZXZA
Output	Indoor Unit Fun Operation Status	●UTY-XWZXZC												●UTY-XWZXZC							
Output	Auxiliary Heater Output						●UTY-XWZXZC				●UTY-XWZXZC										
Output	Base Heater																		●UTY-XWZXZ9		

AJ∗__LN∗∗ : AJH(G)__LNTD, AJG__LNLC ●: Dry Contact ○: Apply Voltage

Function List for V-III Tropical and J-III Tropical

Type		Indoor unit																Outdoor unit		Controller
		Cassette					Duct					Duct		Ceiling / Floor	Ceiling	Wall Mounted			J-III Tropical	V-III Tropical	Central Remote Controller
		4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Mini (Without drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	High Static Pressure	Low Static Pressure			–	EEV external	–			
		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	ARGB054GTAH	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	AJH 040/045/054 LBTAHN, AJH 040/045/054 LETAHN	AJH 072/090/108/ 126/144/162 LNTDH	UTY-DCGGZ4
Input	Operation / Stop	●UTY-XWZXZD ○UTY-XWZXZB													●UTY-XWZXZD ○UTY-XWZXZB						
	All On / All Off																				●UTY-XWZXZ7 ○UTY-XWZXZ8
	Group Stop																			●UTY-XWZXZ6	
	Forced Stop	●UTY-XWZXZD ○UTY-XWZXZB													●UTY-XWZXZD ○UTY-XWZXZB						
	Emergency Stop	●UTY-XWZXZD ○UTY-XWZXZB													●UTY-XWZXZD ○UTY-XWZXZB					●UTY-XWZXZ6	●UTY-XWZXZ7 ○UTY-XWZXZ8
	Forced Thermostat off	●UTY-XWZXZE ○UTY-XWZXZ7													●UTY-XWZXZE ○UTY-XWZXZ7						
	Low Noise Mode Operation																			●UTY-XWZXZ6	
	Cooling/ Heating Priority																				
	Outdoor Unit Operation Peak Control																			●UTY-XWZXZ6	
	Power Usage Information from Electricity Meter																			●UTY-XWZXZF	
Output	Operation Status	●UTY-XWZXZC													●UTY-XWZXZC					○UTY-XWZXZ6	○UTY-XWZXZA
	Error Status	●UTY-XWZXZC													●UTY-XWZXZC					○UTY-XWZXZ6	○UTY-XWZXZA
	Indoor Unit Fun Operation Status	●UTY-XWZXZC													●UTY-XWZXZC						
	Auxiliary Heater Output						●UTY-XWZXZC					●UTY-XWZXZC									
	Base Heater																			●UTY-XWZXZ9	

●: Dry Contact ○: Apply Voltage

Separation Tube etc.

Connection Units

Separation Tube

UTP-AX054A

Gas Pipe



Liquid Pipe



UTP-AX090A

Gas Pipe



Liquid Pipe



UTP-AX180A

Gas Pipe



Liquid Pipe



UTP-AX567A

Gas Pipe



Liquid Pipe



UTP-LX180A for DX Kit



Header

UTR-H0906L / UTR-H1806L

Gas Pipe



Liquid Pipe



UTR-H0908L / UTR-H1808L

Gas Pipe



Liquid Pipe



Outdoor Unit Branch Kit

UTP-CX567A

Gas Pipe



Liquid Pipe



EV Kit

Model code ≦ 09 : UTR-EV09XB

Model code ≧ 12 : UTR-EV14XB

For Compact Wall Mounted type



Specifications

Separation Tube

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

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

Header

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

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

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-III 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

SUPPORT

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

VRF Support

HAVIC 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
Product Training	●	●													
Product Information Seek			●	●	●	●	●								
Technical Information Seek							●	●							
Model Selection							●						●		
Design							●		●	●			●		
Verification														●	
Installation							●				●				
After sales and Service												●			●

VRF Support

GENERAL Inc. 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.



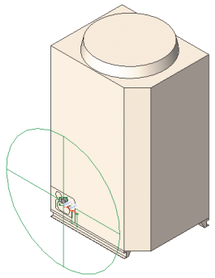


Technical Information

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



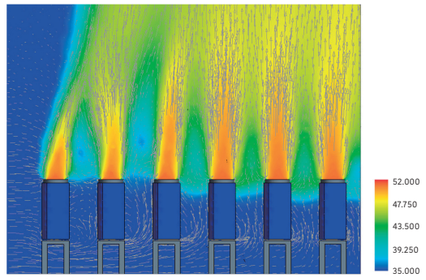
2D/3D CAD data

Technical Support

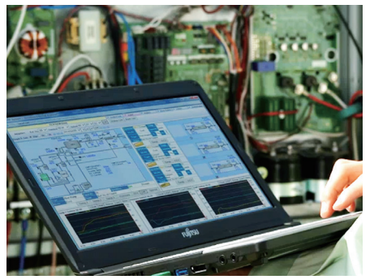
Technical support is offered at every stage, from design through to installation, to assist in optimizing air conditioning solutions.

Features

- CFD simulation
- Guidelines
- Commissioning support



CFD simulation



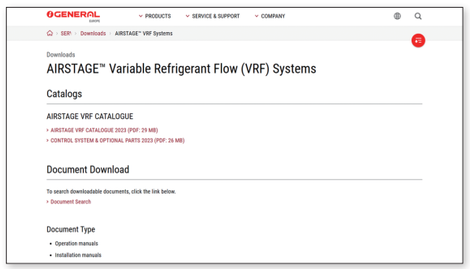
Commissioning support

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 GENERAL Inc. representative for access information.

Features

- Product news
- Brochures & manuals
- Promotional movies



https://www.general-hvac.com/mea/support/downloads/index.html



GENERAL Inc. 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

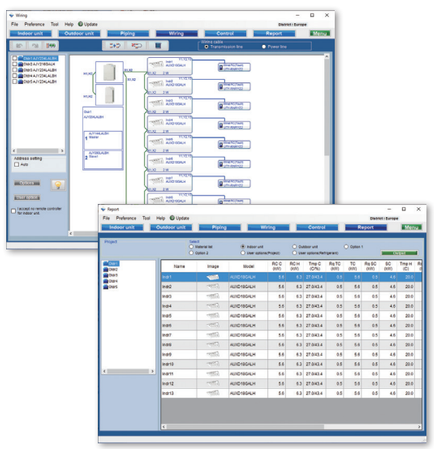
1 Head office training center in Japan
2 Training center in China
3 Asia training center in Singapore
4 Europe training center in the United Kingdom
5 Europe training center in Germany
6 America training center in the United States
7 Middle East training center in the UAE
8 Oceania training center in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

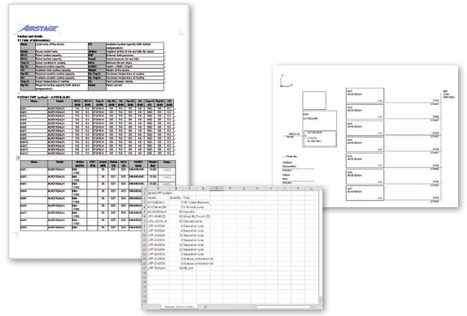


Design Simulator



Automatically Create Model Selection Information

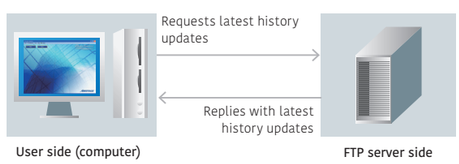
- The required performance, type, and temperature conditions for each indoor unit are entered and then dragged and dropped onto the outdoor unit to automatically set each unit.
- Creates piping and wiring diagrams automatically to facilitate branching, grouping, and option settings.
- The additional 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

bimobject®
www.bimobject.com/en

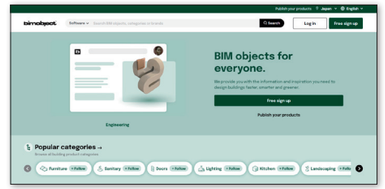
BIM Files of GENERAL Inc. Products are Available on BIMobject®

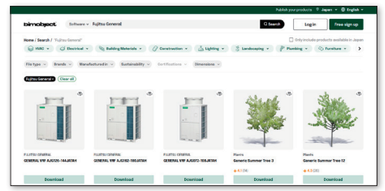
GENERAL Inc. is releasing BIM files of our products on the BIMobject® website BIMobject.com.

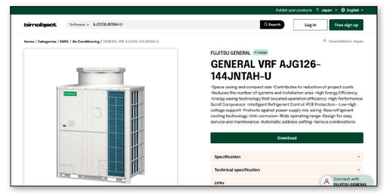
Outline of BIMobject®
BIMobject® is a game changer for the construction industry, offering development, maintenance, and syndication of objects on the world's largest BIM platform.

About BIM Files

- 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.

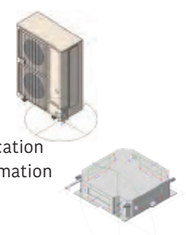






RFA (Revit data)
A data format available for BIM-designed projects

Data content
- Shape (Size)
- Drain direction
- Pipe direction
- Power supply location
- It contains information about the above specifications.



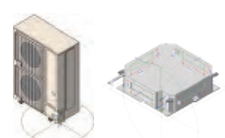
Type catalog with product specifications



DWG
a standard data format used for Autodesk products

DXF
Intermediate data commonly available in CAD products

Data content
- Shape (Size)



*To learn more about how to use BIM files, refer to the instructional video on each product page. **youtu.be/wfL-hwFQ7dM**

Quick Service & Maintennce

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.



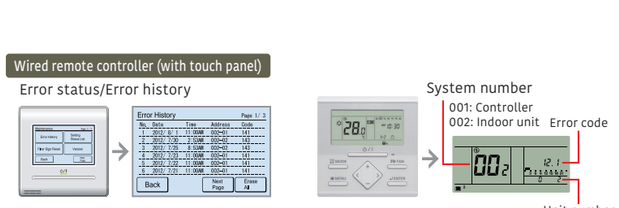
Easy Maintenance & Monitoring

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

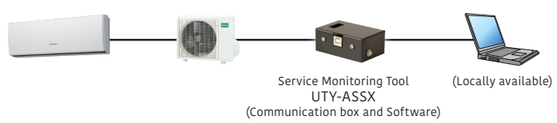


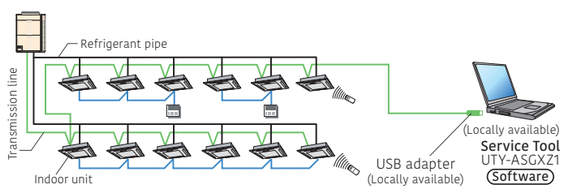


Error Diagnosis by Service Tool

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.

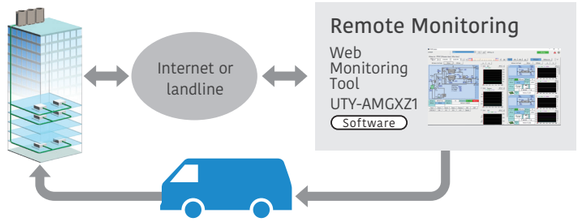
- Operating status/control
- Monitoring operating conditions
- Monitoring sensor data
- Indicating trend graphs
- Error history
- Indicating refrigerant circuit diagrams (for VRF)





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.





Service Tool

UTY-ASGXZ1

Extensive Monitoring and Analysis Functions that Make Installation and Maintenance Easier

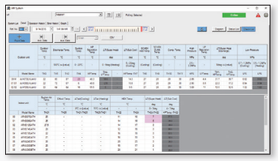
- The operation status of the system can be monitored and analyzed to detect any malfunctions.
- Data on the operation status of the system can be stored on a computer to allow for remote access.
- Up to 400 indoor units in a single VRF network system can be controlled and monitored for a large building 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.





Use the result of a self-diagnosis only as a guide and use your own judgment to make a final decision.

These sensor values are checked automatically:

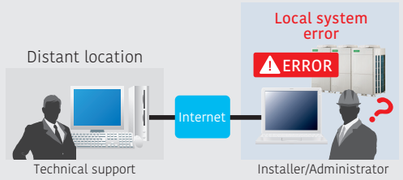
- ☑ the discharge temperature is normal, "OK"
- ☑ the super heat volume is normal, "OK"
- ☑ the high pressure pipe value is normal, "OK"
- ☑ the low pressure pipe value is normal, "OK"

And the values for other items will also be diagnosed.



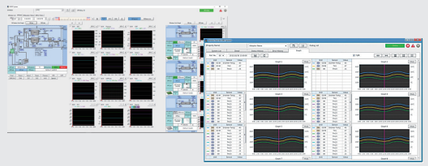
Remote Technical Support and Maintenance

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 10 Pro (64-bit) • Microsoft Windows 11 Pro (64-bit)
CPU	Intel® Core™ processor 1 GHz or higher
Memory	4 GB or more
HDD	40 GB or more of free space
Screen resolution	1,366 × 768 or higher resolution
Interface	• 2 USB ports – 1 USB port is required for WHITE-USB-KEY connection – 1 USB port is required for Echelon U10 USB/U60-FT DIN Network Interface
Software	Adobe Reader 9.0 or later
Internet transmission rate (in remote access)	Internet environment capable for communication speed of 3 Mbps or more (for uploading) all the time (including when accessing to oversea website)

• Transmission adapter (Required for each VRF network):
– Echelon U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R)
– Echelon U60-FT DIN Network Interface (Model number: 75060R-40)

Packing list

Name	Quantity	UTY-ASGXZ1
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

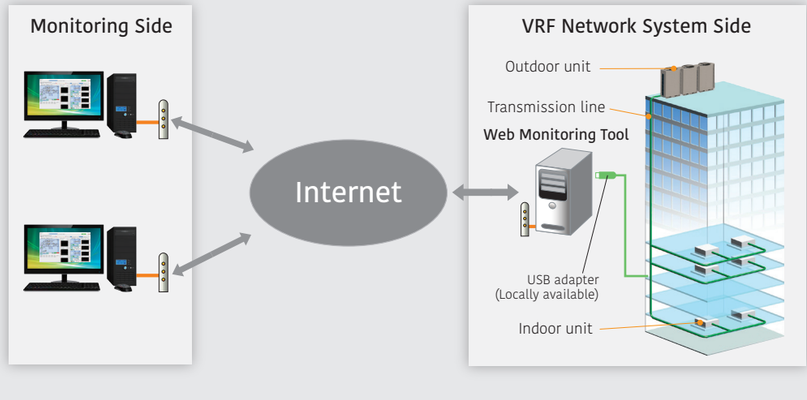
UTY-AMGXZ1

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.
- 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 mode.
- Can be viewed on the monitoring computer's Web browser without installing any special software.

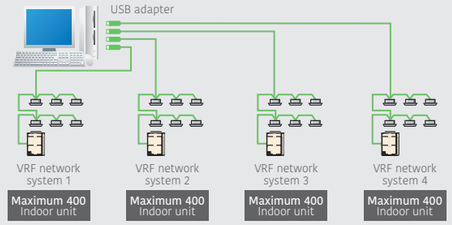
*1: Internet e-mail access required.

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

	UTY-AMGXZ1
Operating system	• Microsoft Windows 10 Pro (64-bit) • Microsoft Windows 11 Pro (64-bit)
CPU	Intel® Core™ processor 1 GHz or higher
Memory	4 GB or more
HDD	40 GB or more of free space
Screen resolution	1,366 × 768 or higher resolution
Interface	• USB port (for Echelon U10 USB/U60-FT DIN Network Interface, Max. 4, software protection key) • Either of the following interface is required for remote connection: – Internet using LAN: Ethernet port is required.
Software	Adobe Reader 9.0 or later
Internet transmission rate (in remote access)	Internet environment capable for communication speed of 3 Mbps or more (for uploading) all the time (including when accessing to oversea website)

• Transmission adapter (Required for each VRF network):
– Echelon U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R)
– Echelon U60-FT DIN Network Interface (Model number: 75060R-40)

Packing list

Name	Quantity	UTY-ASGXZ1
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)



