

Light Commercial & Commercial, Residential

CONTROL SYSTEM & OPTIONAL PARTS

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A wide product lineup to meet a variety of needs

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

CONTROL SYSTEM

INDIVIDUAL CONTROL

- C-010 Wired remote controller (Design type)
- C-012 Wired remote controller (with touch panel)
- C-014 Wired remote controller / Compact wired remote controller
- C-015 Wired remote controller
- C-016 Simple remote controller
- C-017 Wireless remote controller
- C-019 IR receiver unit

CONVERTERS/ADAPTERS

- C-022 WLAN adapter
- C-025 Multiple protocol WLAN adapter

CENTRALIZED CONTROL





- C-026 Home central remote controller
- C-028 Central remote controller
- C-030 Touch panel controller
- C-034 System controller **Software** / System controller lite **Software**

CONVERTERS/ADAPTERS

- C-038 MODBUS® converter for indoor unit
- C-039 MODBUS® interface
- C-040 MODBUS® converter for VRF
- C-041 BACnet® interface
- C-042 BACnet® gateway **Software**
- C-043 BACnet® gateway **Hardware**
- C-044 BACnet®/MODBUS® router
- C-045 BACnet®/MODBUS® cloud device
- C-046 KNX® converter for indoor unit / KNX® converter for VRF
- C-047 KNX® interface
- C-048 Network converter for single-split type
- C-049 Network converter for LONWORKS™
- C-050 External switch controller / Signal amplifier

OPTIONAL PARTS

- C-070 Silver ion filter
- C-071 Auto louver grille kit
- C-072 Pressure sensor kit
- C-073 External power supply unit
AIR BEAM radiation air outlet unit
- C-074 Gas sensor kit
- C-092 Separation tube and other piping products

-  SPLIT
-  MULTI-SPLIT
-  VRF J series
-  VRF V series

Control System Overview

for Split & Multi-split

All indoor units* are equipped with a wireless or wired remote controller as standard. Additional options are available, such as individual remote controllers and central remote controllers. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.

* Except for some products

Air Conditioning Individual Control



Wired remote controller

A built-in thermo sensor monitors and controls room temperature accurately.



Wireless remote controller

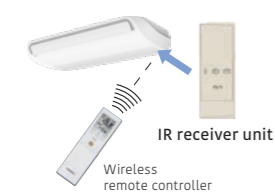
Simple and versatile operations with a choice of 4 different types of timers



Simple remote controller

Compact remote controller with basic functionality

For Ceiling type



For Duct type



For Cassette type



IR receiver unit

This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.

Air Conditioning Centralized Control



Home central remote controller for 5 & 6-unit Multi-split type

Enables individual and central control.



Converters / Adapters

For external control via BMS/Home Automation Systems

MODBUS® converter for indoor units
UTY-VMSX



MODBUS® interface for indoor units



KNX® converter for indoor units
UTY-VK SX



KNX® interface for indoor units



WLAN adapter



Network converter

DC power supply type
UTY-VTGX



AC power supply type
UTY-VTGXV



Online Control (Wireless Control via Smartphone/Tablet)

With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.

WLAN adapter

The dedicated WLAN adapter enables the air conditioner to be operated by smartphone or tablet computer.



AIRSTAGE Mobile

Download Free
Download on the App Store
GET IT ON Google play

Simple, user-friendly interface design

The designed screen display makes it easier than ever to operate.



Control System Overview

for VRF

To meet the diverse needs of customers, we offer a variety of control options for our VRF systems, such as individual control, centralized control, and building management system (BMS) options.

Air Conditioning

Individual Control

Wired remote controller
(Design type)
UTY-RVRG

Wired remote controller
(with touch panel)
UTY-RNRGZ5

Wired remote controller
UTY-RLRG

Compact wired remote controller
UTY-RCRGZ1

Simple remote controller
UTY-RSRG
UTY-RHRG
Without operation mode

Wireless remote controller
UTY-LNVG
UTY-LNHG

IR receiver unit

For Duct type

For 1-way Flow cassette Series/
3D-flow cassette Series/duct type

for Circular flow cassette Series

UTB-YWC
for duct type

UTY-TRHX
for 1-way Flow cassette Series/
3D flow cassette Series/
duct type

UTY-LBHDX
for Circular flow cassette Series

Air Conditioning

Centralized Control

Internet or landline

USB adapter*1
(Locally available)

Remote/
Monitoring side

System controller **Software**

UTY-APGXZ1/UTY-ALGXZ1 (Lite version)

Up to **1600**^{*2}
Indoor units

*1: Echelon® U10 USB Network Interface

*2: The Lite version controls up to 400 indoor units.

Internet or landline

Remote/
Monitoring side

Touch panel controller

UTY-DTGGZ1

Up to **400**
Indoor units

Central remote controller

UTY-DCGGZ3

Up to **100**
Indoor units

Converters / Adapters

For external control via BMS/Home Automation Systems

BACnet® gateway

UTY-ABGXZ1 **Software**

VTY-VBGX **Hardware**

BACnet® interface for Indoor units

FG-IR-BMG1Z1

Network converter (For LonWorks™)

UTY-VLGX

MODBUS® converter for Indoor units

UTY-VMSX

for VRF

UTY-VMGX

KNX® converter for Indoor units

UTY-VKX

for VRF

UTY-VKGX

WLAN adapter

UTY-TFSXJ3 / UTY-TFSXZ1

External switch controller

UTY-TERX

BMS/BAS^{*3}

BMS^{*3}, Home automation system

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

Converters / Adapters

for system expansion

Network converter DC power supply type

UTY-VTGX

Network converter AC power supply type

UTY-VTGXV

Signal amplifier

UTY-VSGXZ1

Card-key
(Locally available)

Internet device

C-004

C-005

Best Control Solution for Each Building Structure

Fujitsu General provides the best control solutions suitable for various building structures.

SHOP

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	Network converter for LONWORKS™	MODBUS® Converter	KNX® converter
	UTY-RVRG UTY-RNRGZ5 UTY-RLRG UTY-RVNGM UTY-RCRGZ1	UTY-DCGGZ3	UTY-DTGGZ1	UTY-APGXZ1 UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX		
Automatic control of air conditioning (Schedule timer, Weekly timer, etc.)	•	•	•	•					
Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc.		•	•	•	•	•	•		•
Group control		•	•	•					
Advanced energy saving: Peak cut, Operation of indoor unit lead lag etc.				•					
Remote monitoring management		•	•	•					
Manage multiple sites		•	•	•					
Monitor energy consumption				•					
Control third-party products				•					
Integrate Fujitsu General air conditioning 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	Network converter for LONWORKS™	MODBUS® converter	KNX® converter	External switch controller
	UTY-RVRG UTY-RNRGZ5 UTY-RLRG UTY-RCRGZ1	UTY-RSRG UTY-RHRG	UTY-LNVG UTY-LNHG UTY-LNTG	UTY-DCGGZ3	UTY-DTGGZ1	UTY-APGXZ1 UTY-ALGXZ1	UTY-ABGXZ1 UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guests	•	•	•								
Centralized air conditioning control for common areas				•	•	•	•	•	•	•	
Limited control for hotel guests				•	•	•	•	•	•	•	
Remote monitoring management				•	•	•					
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.						•	•				
Monitor energy consumption						•					
Control third-party products						•					
Integrate Fujitsu General air conditioning 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	Network converter for LONWORKS™	MODBUS® converter	KNX® converter	External switch controller
	UTY-RVRG UTY-RNRGZ5 UTY-RLRG UTY-RCRGZ1	UTY-RSRG UTY-RHRG	UTY-LNVG UTY-LNHG UTY-LNTG	UTY-DCGGZ3	UTY-DTGGZ1	UTY-APGXZ1 UTY-ALGXZ1	UTY-ABGXZ1 UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	•	•	•	•							
Automatic control of air conditioning (Schedule timer, Weekly timer, etc.)	•		•	•	•	•	•				
Centralized air conditioning control for management				•	•	•	•	•	•	•	
Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc.				•	•	•	•	•	•	•	
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.						•	•				
Remote monitoring management				•	•	•					
Electricity charge apportionment					•	•	•				
Monitor energy consumption						•					
Control third-party products						•					
Integrate Fujitsu General air conditioning into BMS							•	•	•	•	
Interlock with door contact											•
Interlock with Occupancy sensor for meeting room				•							•

Comparison Table of Controllers

Item																			
Model name		UTY-RVRG	UTY-RNRGZ5	UTY-RLRG	UTY-RVNGM	UTY-RCRGZ1	UTY-RSRG	UTY-RHRG			UTY-LNTG	UTY-LNVG	UTY-LNHG	UTY-LNWX	UTY-DMMGM	UTY-DCGGZ3	UTY-DTGGZ1	UTY-ALGXZ1	UTY-APGXZ1
Maximum number of controllable remote controller groups		1	1	1	1	1	1	1			1	1	1	1	1	100	400	400	1600
Maximum number of controllable indoor units		16	16	16	16	1	16	16			16	16	16	16	8	100	400	400	1600
Maximum number of controllable groups		—	—	—	—	—	—	—			—	—	—	—	—	50	400	400	1600
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	●	●	—	—	●	—	—			—	—	—	—	—	●	●*3	—	—
	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	●	●	—	●	●	●	●			—	—	—	—	—	●*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	●	●	—	—	—	—	—			—	—	—	—	—	—	—	—	—
	Logo Display	●	—	—	—	—	—	—			—	—	—	—	—	—	—	—	—
	Limited Visibility of Settings	●	—	—	—	—	—	—			—	—	—	—	—	—	—	—	—
Timer	Schedule timer	Period	Week	Week	Week	Week	—	—			—	—	—	—	Week	Year	Year	Year	Year
		ON/OFF, Temp, Low noise mode*5, Times per day	8	8	4	8	—	—			—	—	—	—	4	20	20	144	144
	ON/OFF timer	—	●	●	●	●(OFF only)	—	—			●	●	●	●	—	—	—	—	—
	Sleep timer	—	—	—	—	—	—	—			●	●	●	●	—	—	—	—	—
	Program timer	—	—	—	—	—	—	—			●	●	●	●	—	●	—	—	—
	Auto-off timer	●	●	●	●	—	—	—			—	—	—	—	—	●	●	—	—
	Day off	●	●	●	●	—	—	—			—	—	—	—	●	●	●	●	●
Control	Minimum unit of timer setting (minutes)		1 • 10	10 • 30	30	30	—	—			5	5	5	5	5	10	10	10	10
	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	● Child 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-DCGGZ3 only

●: Supported ○: Optional function —: Unsupported

Wired Remote Controller (Design type)

UTY-RVRG



Up to
16 indoor units
Up to
1 group



reddot winner 2024



Simple and stylish design that harmonizes with the space

- The stylish design controller, UTY-RVRG, enables intuitive operation with touch screen. It is compatible with many 2-wired indoor units.

Harmonizes with The Installation Space

When not in use, the controller is a part of the interior décor. This is achieved by using mirrors, glass, and clear panels, and it appears to be one with the wall. The sleek and stylish design won the 2022 Good Design Award and was selected as a finalist for the 2023 IDEA award.



Intuitive Operation

The touch screen is easily operated by swiping vertically and horizontally, and users can operate the controller without using manuals.

Temp. Setting



Operation Mode



Status Indicator Lamp Colors

When not in use, the operation mode is indicated through indicator lamp colors shown under the controller. The indicator lamp can be switched ON and OFF to avoid glare at night.



Blue: Cooling



Red: Heating



Green: Dry



Purple: Auto

Features: Wired Remote Controller (Design type)

Refrigerant Cycle Monitor

The controller will display specific sensor values of outdoor and indoor units for maintenance and service support.

* Display screen example

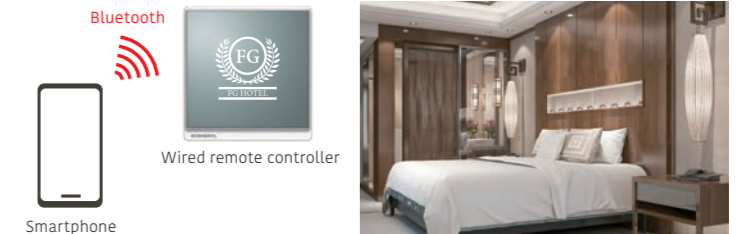
* This function is only supported by split units, using the H-Serial communication protocol. Example: ASH30KMTB



Logo Display

The controller can display hotel logos when not in use. Images are sent via Bluetooth® connection where data is saved in the flash memory built into each controller.

* Color display available

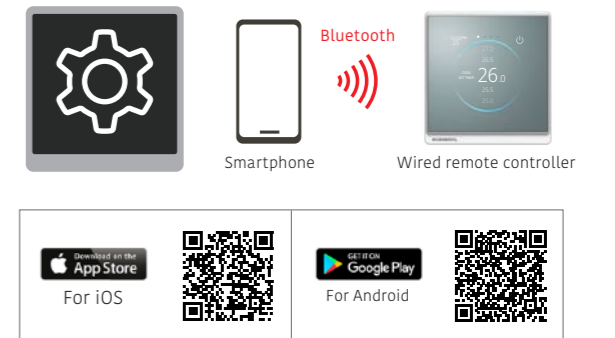


AIRSTAGE Remo Set Application (free download)

Set up your wired remote controller via Bluetooth from your smartphone (or directly at the controller).

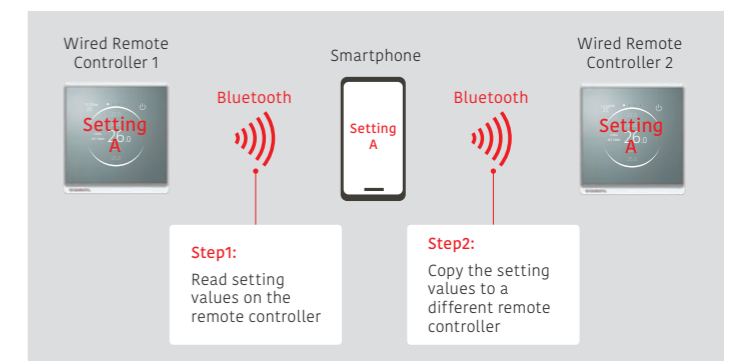
Features:

- Initial configuration
- Function setting
- Custom logo import
- Copy settings between controllers



Initial Settings / Indoor Unit Function

The initial controller settings and indoor unit function settings can be sent from a smartphone by pairing with the controller via Bluetooth. It also can read the setting values of a paired controller, and send a copy of them to one or more additional controllers, significantly reducing installation time.



*Smartphone : Wired Remote Controller = 1 : 1

Specifications

Model name	UTY-RVRG
Power Source	DC12V
Dimensions (H × W × D) (mm)	121.5 × 116 × 26
Weight (g)	225

Wired Remote Controller (with touch panel)

UTY-RNRGZ5



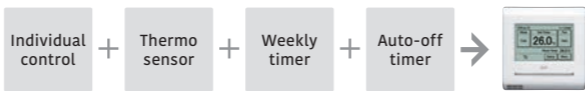
Up to
16 indoor units
Up to
1 group

Easy Operation Due to Large High-Resolution STN-LCD Touch Panel Screen

- Touch screen LCD
- Built-in daily/weekly timer (ON/OFF, temperature, modes)
- Backlit screen for easy operation in the dark.
- Room temperature display
- Controls up to 16 indoor units
- Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish
- Nonpolar 2-core type

High Performance and Compact Size

A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.



Accurate Control for Comfort

A thermo sensor built into the remote controller monitors room temperature accurately.



Energy Saving Controls

Custom Auto

- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models

Auto-off timer

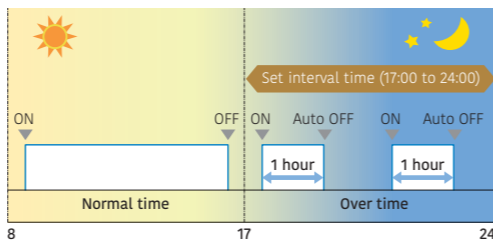
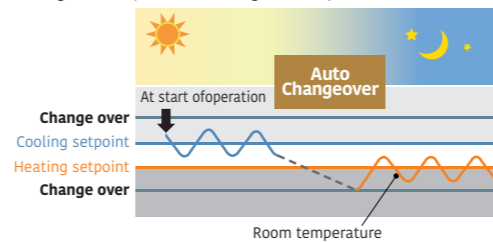
- While the Auto-off timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
- A desired time frame can be specified for the Auto-off timer.
- The off-time can be set from 30 to 240 minutes.

2-setting weekly timer

Set temperature auto return

Setting temperature range limitation

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



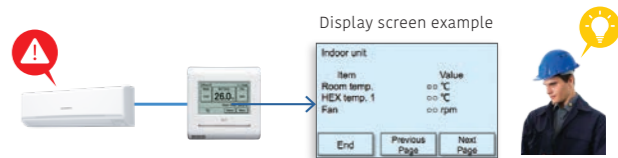
e.g.) Between 17:00 and 24:00 (over time hours), when the 1 hour set off time has elapsed, the system will automatically turn off the indoor unit as it has been judged to be "forgotten to turn off." Set off time for over time hours: 1 hour

Features: Wired Remote Controller (Touch Panel)

Refrigerant Cycle Monitor (option)

Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

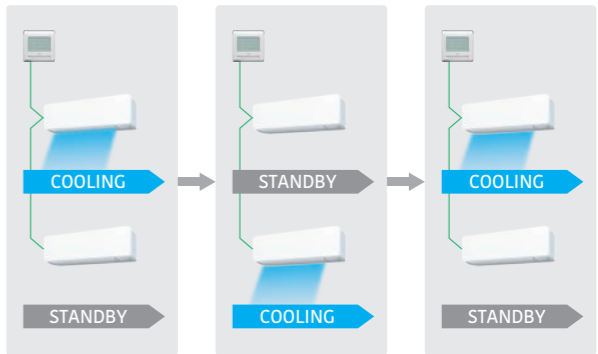
* This function is only supported by split units, using the H-Serial communication protocol. Example: ASHH30KMTB



Multi System Control*1

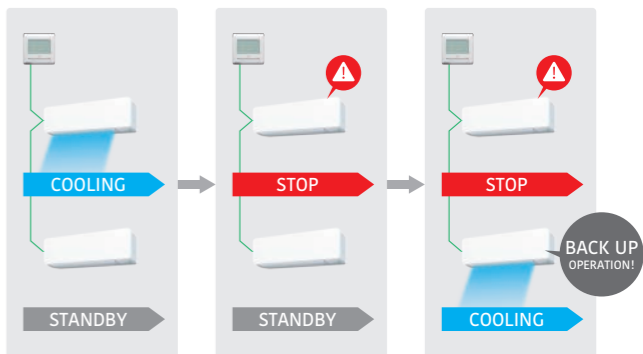
1) Lead Lag Operation

Standby Indoor Unit can be selected in lead lag operation. By this, the Indoor units will last longer than operating by nonstop.



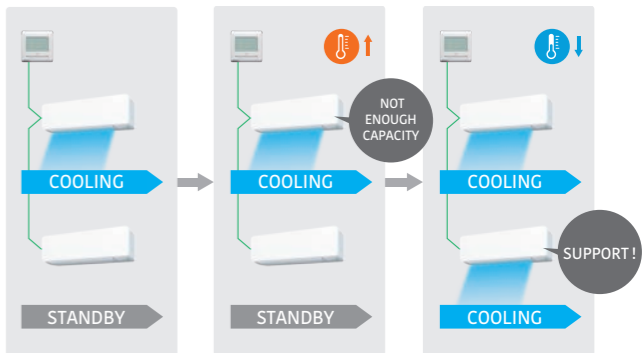
2) Back Up Operation

In case of unexpected Indoor unit error, other Indoor units will start providing back up operation.



3) Lag Operation

In case of unexpected room temperature rise, other Indoor Units will start providing lag operation.



*1: "Lead Lag Setting" is an easy-to-use function for room temperature control when using multiple indoor units, while reducing the burden placed on each indoor unit. If you wish to make use of this function, ensure you use indoor units equipped with a "Special Cooling" function. For Split products with "Special Cooling" function, refer to S-068 to S-071. If you use indoor units that do not have a "Special Cooling" function, under certain conditions, there is a chance that "Backup operation" may not operate correctly, and the "Lead Lag Setting" function will not give the expected results. Additionally, for rooms that require strict conditions, such as server rooms, please consider other appropriate measures. Please note that we will not provide compensation for any damages suffered to your appliances or data as a result of using this function. For more details, please confirm with your nearest retail store.

Specifications

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

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRG

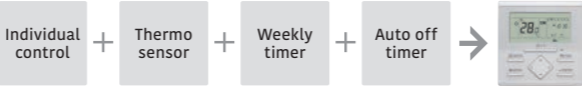


- ON/OFF/Weekly timer settings
- A built-in thermo sensor monitors and controls room temperature accurately.
- When something goes wrong, an error code is displayed.
- 16 error codes from the most recent one will be kept in the history. (Last 16 error codes can be accessed)
- Nonpolar 2-core type

Up to
16 indoor units
Up to
1 group

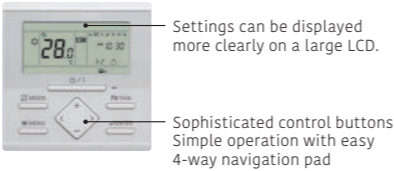
High Performance and Compact Size

A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.



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.



Compact Wired Remote Controller

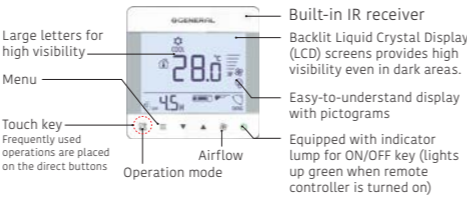
UTY-RCRGZ1



- Simple design that matches stylish interiors
- The body of the controller, which is easy to install, is designed to conform to the European standard junction box.
- Can be operated both by wireless and wired remote controller.
- Nonpolar 2-core type

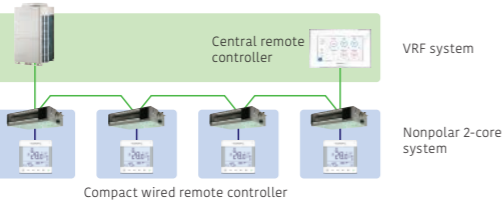
Large Screen and Simple Display

- Large screen but compact size
- Large, easy-to-read letters are used.
- The controls are simple and easy to understand.

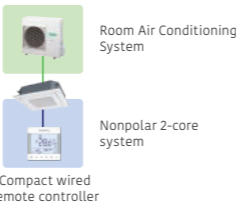


System Overview

VRF connection



RAC connection



Specifications

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

12 V DC supplied by an indoor unit

Wired Remote Controller

UTY-RVNGM



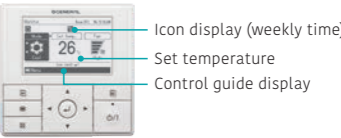
Up to
16 indoor units
Up to
1 group

Hi-Grade Individual Control with a Wide Range of Functions

- 3.7-inch backlit LCD screen.
- Supports energy-saving functions with simple operation.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish

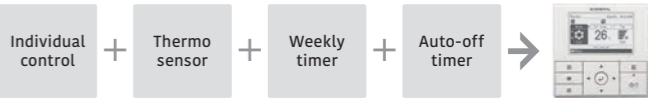
Visually Intuitive Operation

- Each function is displayed as an icon.
- Main functions are indicated by large icons: “Mode,” “Set Temp,” and “Fan”
- Easy operation with control guide display
- Simple operation with easy 4-way navigation pad



High Performance and Compact Size

- A single remote controller controls each connected indoor unit and provides a variety of energy-saving options.



Wired Remote Controller

UTY-RNNGM

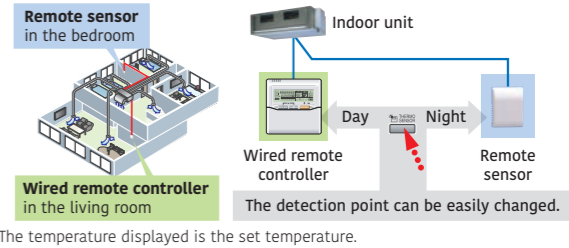


Up to
16 indoor units
Up to
1 group

Accurate Control for Comfort

A thermo sensor built into the remote controller monitors room temperature accurately. The wired remote controller and an optional Remote sensor can be installed in any location to meet any requirement.

Examples of sensor changes



Built-in Timer

Weekly timer: ON/OFF time can be set to operate twice for each day of the week.
Temperature setback timer: Sets the time to change the temperature setting and the time to hold the setting for each day of the week.
 At “Weekly timer” + “Temperature setback timer” setup

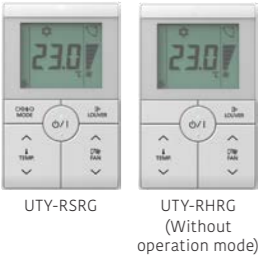
Specifications

Model name	UTY-RVNGM	UTY-RNNGM
Power source	12 V DC	12 V DC
Dimensions (H × W × D) (mm)	120 × 120 × 21.3	120 × 120 × 18
Weight (g)	220	160

12 V DC supplied by an indoor unit

Simple Remote Controller

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



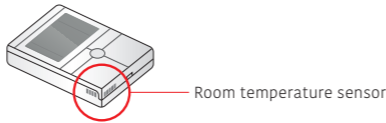
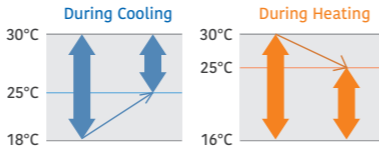
Compact Remote Controller with Basic Functionality

- 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.
- Simple design that matches stylish interiors
- Large LCD screen and easy-to-use control buttons
- Backlight: White backlight makes it easy to operate in the dark.
- Nonpolar 2-core type

Up to
16 indoor units
Up to
1 group

Supports a Variety of Applications

- **Vertical louver control:** Adjusts the vertical airflow direction of a duct-type indoor unit with an auto louver or a cassette type installed in a hotel room or a conference room.
- **Setting temperature range limitation:** Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.
- **Built-in room temperature sensor:** Monitors and controls room temperature accuracy.



Specifications

Model name	UTY-RSRG	UTY-RHRG
Power source	12 V DC	12 V DC
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4
Weight (g)	120	120

12 V DC supplied by an indoor unit

Wireless Remote Controller

UTY-LNTG



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

Simple and Versatile Operations with a Choice of 4 Different Types of Timers

Built-in Timer

4 timer programs: ON/OFF/Program/Sleep
Program timer: Sets ON/OFF time once for every 24 hours.
Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy Installation and Operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.
Wide and precise transmitting range

Wireless Remote Controller

UTY-LNWX



NEW

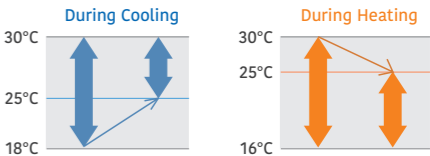


Up to
16 indoor units
Up to
1 group
Up to
4 different daily timers

Simple and Comfort Control

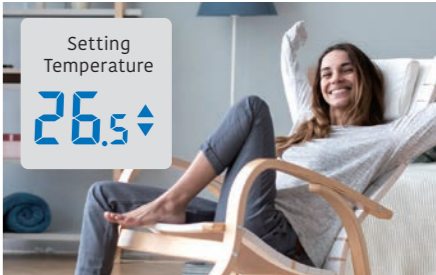
Setting Temperature Range Limitation

Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.



Precise Control

The setting temperature can be adjusted precisely depending on the environment as the controller can set the temperature via 0.5°C*.
*Depends on the indoor unit



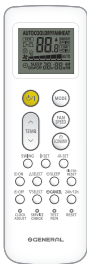
Specifications

Model name	UTY-LNTG	UTY-LNWX
Power source	3.0V (1.5V R03/LR03/AAA x 2)	3.0V (1.5V R03/LR03/AAA x 2)
Dimensions (H × W × D) (mm)	205 × 61 × 17	162 × 45 × 17.5
Weight (g)	125	66

12 V DC supplied by an indoor unit

Wireless Remote Controller

UTY-LNVG



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

Stylish Design with Backlight

- It has adopted a simple and stylish design.
- The built-in backlight allows the screen to be seen even in dark rooms.

Built-in Timer

4 timer programs: ON/OFF/Program/Sleep
Program timer: Sets ON/OFF time once for every 24 hours.
Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Error Diagnosis

It can detect the reason for system errors easily.
When an error is detected, the error code number can be checked using the remote controller display.

Precise Control

The setting temperature can be adjusted precisely depending on the environment as the controller can set the temperature via 0.5 °C*.
*Depends on the indoor unit

Wireless Remote Controller

UTY-LNHG



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

Simple and Versatile Operations with a Choice of 4 Different Types of Timers

Built-in Timer

4 timer programs: ON/OFF/Program/Sleep
Program timer: Sets ON/OFF time once for every 24 hours.
Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy Installation and operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.
Wide and precise transmitting range

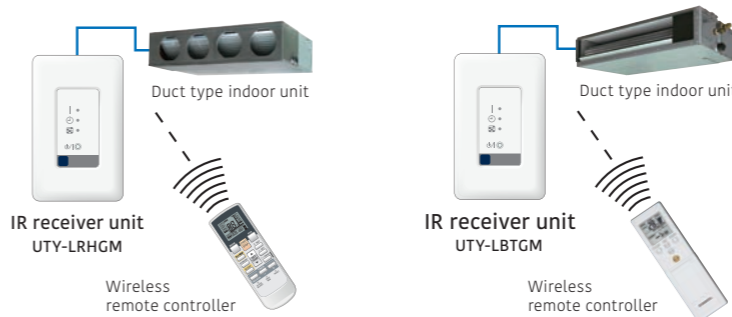
Specifications

Model name	UTY-LNVG	UTY-LNHG
Battery	3.0V (1.5V R03/LR03/AAA x 2)	3.0V (1.5V R03/LR03/AAA x 2)
Dimensions (H x W x D) (mm)	181 x 58 x 17	170 x 56 x 19
Weight (g)	116	85

12 V DC supplied by an indoor unit

IR Receiver Unit for Duct type

UTY-LRHGM / UTY-LBTGM



The wireless remote controller controls duct type indoor units.

IR Receiver Unit for Cassette

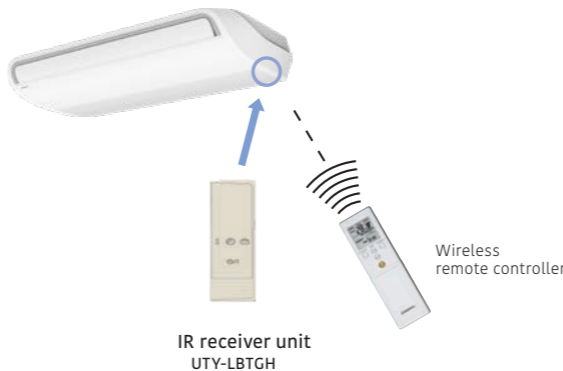
UTY-LBTGC



Cassette type indoor unit can be controlled with a wireless remote controller.

IR Receiver Unit for ceiling type

UTY-LBTGH



The wireless remote controller controls ceiling type indoor units.

Specifications

< Wireless Remote Controller >

Model name	UTY-LRHGM	UTY-LBTGM	UTY-LBTGC	UTY-LBTGH
Battery	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H x W x D) (mm)	170 x 56 x 19	205 x 61 x 17	205 x 61 x 17	205 x 61 x 17
Weight (g)	85	125	125	125

< IR Reciver Unit>

Model name	UTY-LRHGM	UTY-LBTGM	UTY-LBTGC	UTY-LBTGH
Battery	DC5V	DC5V	DC5V	DC5V
Dimensions (H x W x D) (mm)	145 x 90 x 30	145 x 90 x 30	—*	—*
Weight (g)	150	150	140	100

DC 5 V is supplied the indoor unit.
*It will replace the parts of the indoor unit to be connected.

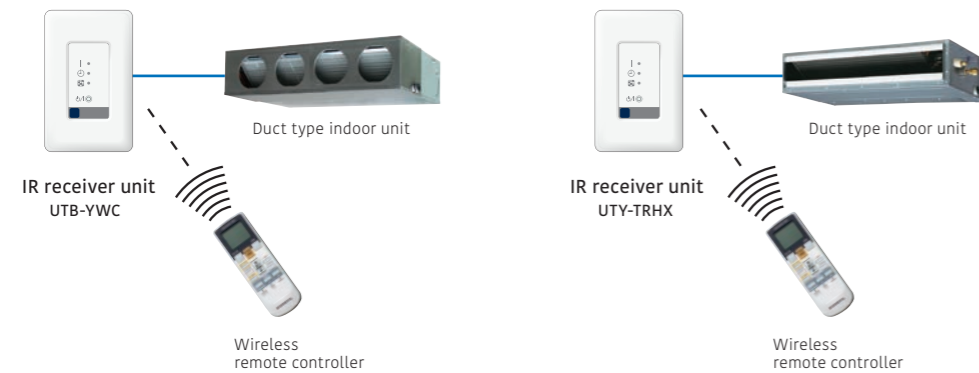


IR Receiver Unit for Duct type

UTB-YWC / UTY-TRHX

The wireless remote controller controls duct type* indoor units.

*Large airflow duct types do not work with this IR receiver unit.



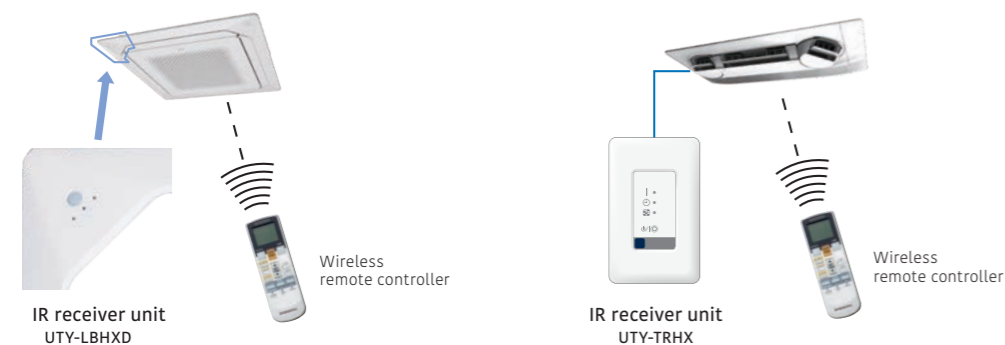
*A separate wireless remote control (model: UTY-LNHG) is required.

IR Receiver Unit for cassette

UTY-LBHxD / UTY-TRHX



Cassette type indoor unit can be controlled with a wireless remote controller.



*A separate wireless remote control (model: UTY-LNVG or UTY-LNHG) is required.

Specifications

< Wireless Remote Controller >

Model name	UTB-YWC	UTY-LBHxD	UTY-TRHX
Battery	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H × W × D) (mm)	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19
Weight (g)	85	85	85

< IR Receiver Unit >

Battery	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	-*	145 × 90 × 30
Weight (g)	150	140	150

DC 5 V is supplied the indoor unit.

*It will replace the parts of the indoor unit to be connected.



WLAN Adapter

UTY-TFSXH3 / UTY-TFSXJ3



USB type for single split models
UTY-TFSXH3



UTY-TFSXJ3
(CN connector type)

Up to
1 indoor unit



AIRSTAGE Mobile

“AIRSTAGE Mobile” is an application software that enables you to manage the Fujitsu General’s air conditioner(s) with a mobile device from anywhere.

- Maximum 5 accounts per 1 indoor unit
- Room / Outdoor temperature display
- Can be used for a Single / Multi and VRF indoor units.
- No separate external power supply required



For iOS



For Android

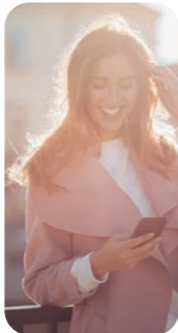


User Friendly for Everyone

Enjoy easy-to-use centralized operation of air conditioners via a smartphone anytime, anywhere



Image*



House Owner



Shop Owner



Commercial
Building Owner

Main Functions

- ON/OFF
- Operation mode
- Fan speed
- Louver position
- Set temperature control
- Weekly timer
- Room temperature display
- Outdoor temperature display
- Error display

*Contents of display differ depending on the type of indoor unit.

Ease of Use is Pursued to Achieve a Stylish Design

The more legible and accessible timer UI enables effortless schedule management.



Mode change



Fan speed change



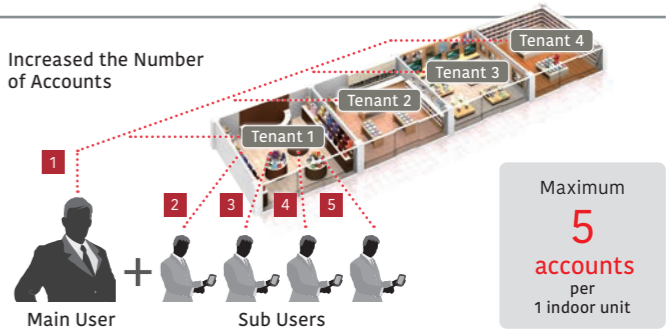
Weekly timer



Features: AIRSTAGE Mobile

Centralized Operation for Flexible Remote Management of All Air Conditioners

AIRSTAGE Mobile is ideal for a wide range of applications, from large residential buildings to smaller commercial spaces such as offices and stores. Anyone who has a smartphone and an adapter can access to manage the system at a low cost.



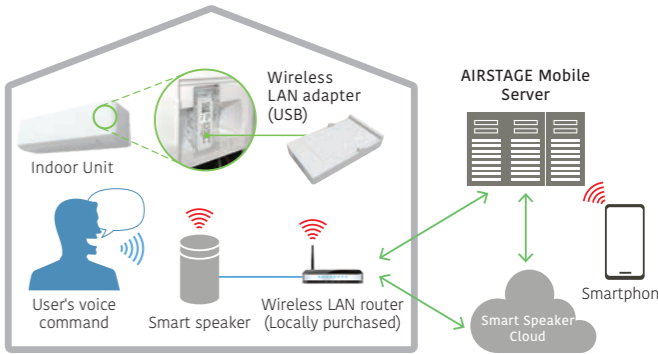
Hierarchical Group Management

Multiple air conditioners can be combined into a single group for centralized operation. Several groups can also be organized at once. Grouping the air conditioners by building, floor, or room makes it easy for users to monitor their operation status and operate them quickly.



Operate Air Conditioner and Check Its Operation Status Just by Talking to It

Connecting with a smart speaker allows the user to operate the air conditioner and check its operation status just by talking to it.



Specifications

Model name	UTY-TFSXJ3(CN connector type)	UTY-TFSXH3
Dimensions (H × W × D) (mm)	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	30

WLAN Adapter

FG-RC-WIF1Z2 / FG-IR-WIF1Z1 / FG-AC-WIF1Z1



FG-RC-WIF1Z2
(3-wire RC-line type)



FG-AC-WIF1Z1
(CN connector type)



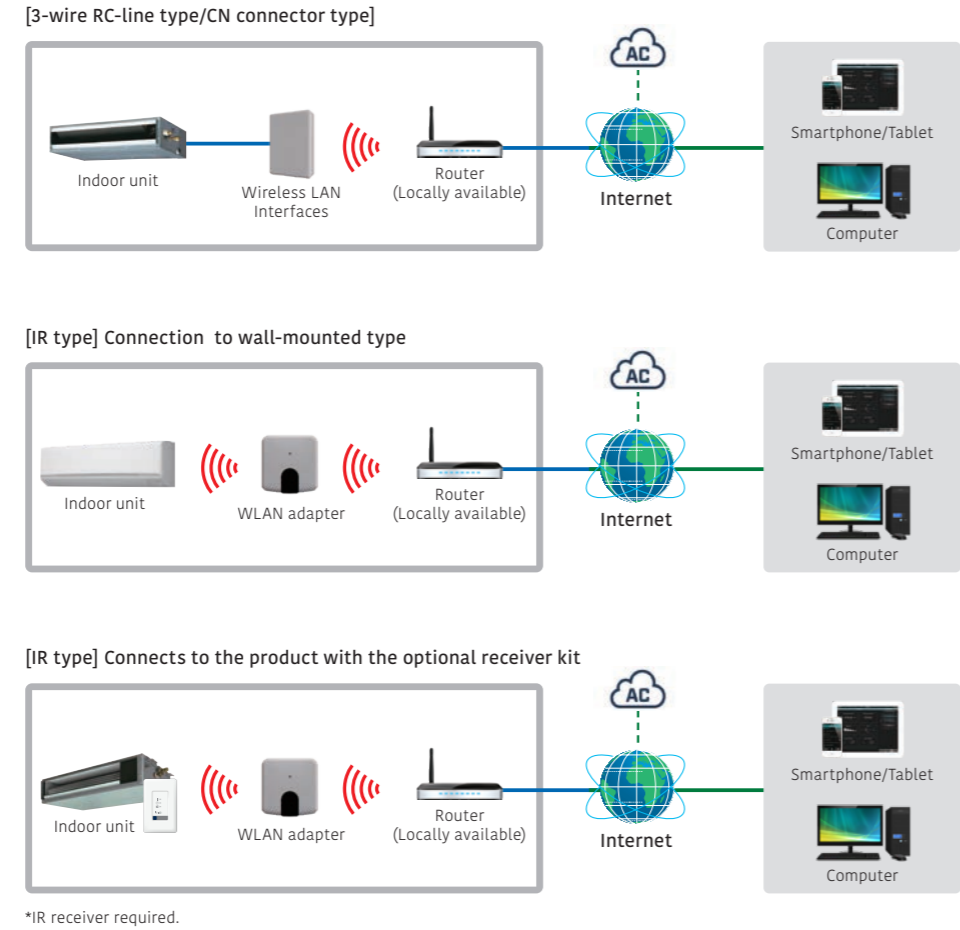
FG-IR-WIF1Z1
(IR type)

Up to
1 indoor unit

AC Cloud Control

- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

Installation Example



Basic Control

- Turning air conditioner on and off
- Mode select (Heat, Cool, Dry, Auto, Fan)
- Louver position (airflow direction setting)
- Fan speed control
- Room temperature display
- Setting temperature
- Multiple language support
- One single scene is created.

Advanced Control (optional functions)

- Climate-based operation modes (ECO, Comfort, and Powerful) (to be available in the future)
- Schedule functions (ON/OFF, modes, set temperature, fan speed, louver position)
- Setting temperature range limitation
- Multiple Scenes and Calendars are created.
- Smart Speaker compatibility
- Advanced internet service connections

Notification and Operation History

- E-mail notification alerts
- Air conditioning malfunction alert
- Connectivity monitoring and alert
- Operation history (to be available in the future)

Specifications

Model name	FG-RC-WIF1Z2 (3-wire RC-line type)	FG-AC-WIF1Z1 (CN connector type)	FG-IR-WIF1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	108 × 70 × 28	81 × 78 × 28	127 × 50 × 17
Weight (g)	80	76	80

Multiple Protocol WLAN Adapter

FG-RC-WMP1Z1 / FG-IR-WMP1Z1 / FG-AC-WMP1Z1



FG-RC-WMP1Z1
(3-wire RC-line type)



FG-AC-WMP1Z1
(CN connector type)



FG-IR-WMP1Z1
(IR type)

Up to
1 indoor unit

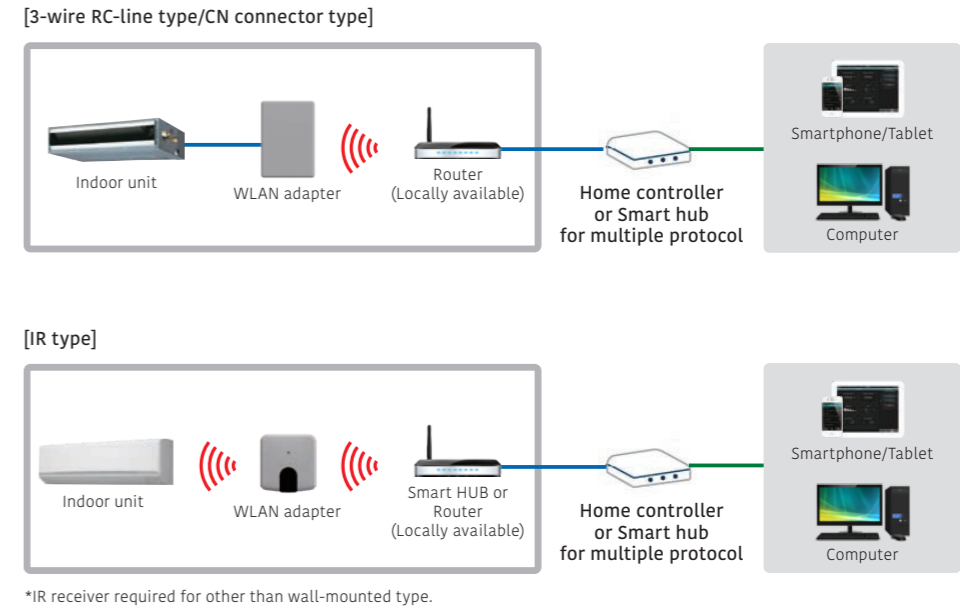
Specifications

Model name	FG-RC-WMP1Z1 (3-wire RC-line type)	FG-AC-WMP1Z1 (CN connector type)	FG-IR-WMP1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	70 × 100 × 28	127 × 50 × 17	81 × 78 × 28
Weight (g)	98	80	76

AC Cloud Control

- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

Installation Example



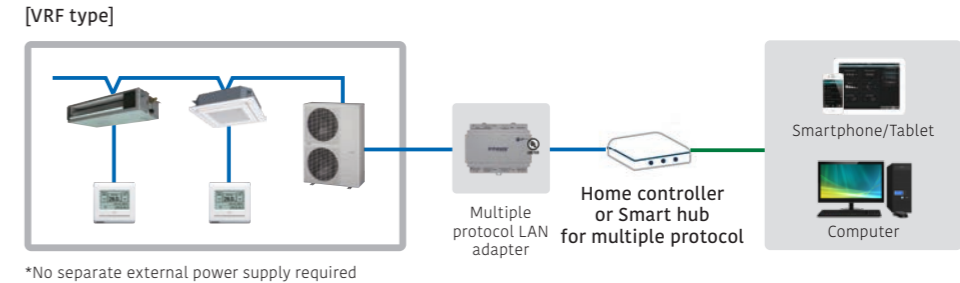
Multiple Protocol LAN Adapter

FG-TL-BMKM16Z1



Up to
16 indoor units

Installation Example



Specifications

Model name	FG-TL-BMKM16Z1 (VRF type)
Power supply	12 to 36 VDC, Max: 250 mA or 24 VAC 50-60 Hz, Max: 127 mA*
Dimensions (H × W × D) (mm)	90 × 106 × 58
Weight (g)	375

*24 V DC power supply is recommended.

Home Central Remote Controller

UTY-DMMGM / UTY-DMMGM1

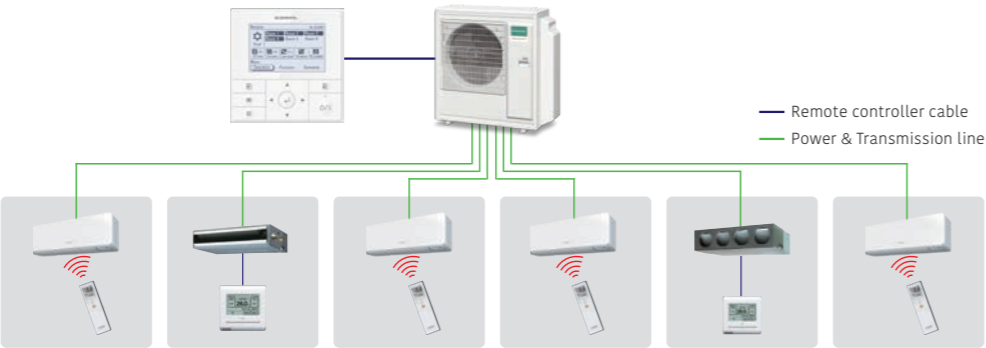


Up to
1 multi-split system
Up to
6 indoor units

For 5-Unit and 6-Unit Multi-Split type

- Batched control of up to 6 indoor units For all indoor units connected to the remote controllers, the Home central remote controller sets room temperature, airflow volume, and remote controller prohibition from other remote controllers at once.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish.
- Large backlit indicator lamp screen
- Large, easy-to-see operation panel

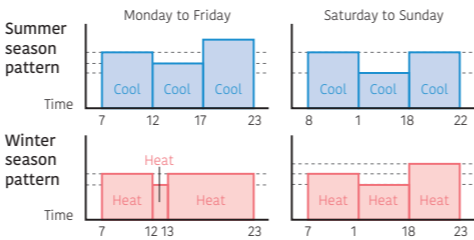
Example of system configuration



Home Central Remote Controller

Weekly timer

Up to 4 ON/OFF settings can be programmed per day. Two weekly patterns can be set, one for the cooling season and the other for the heating season.



Low noise operation

You can choose from 4 low noise levels depending on the installation environment. ON/OFF timing of low noise mode can be set with the timer.

10 °C heat operation

When you leave the house, the air conditioner runs a minimum heating operation to maintain the room temperature at 10°C.

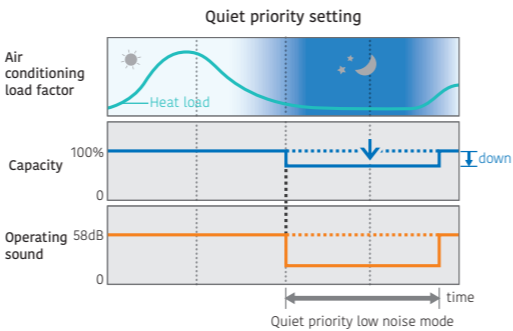
*Consult your dealer for conditions of use.

Economy operation

When you select energy-saving economy mode, the temperature setting for the indoor unit increases (during cooling operation) or decreases (during heating operation) by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibiting local control, including settings such as child lock

The Home central remote controller is equipped with a lock function to prevent unauthorized operation from the remote controllers of the indoor unit in each room. The Home central remote controller is equipped with a child lock to prevent children from accidentally turning the air conditioner on or off or changing its settings.



Specifications

Model name	UTY-DMMGM/UTY-DMMGM1
Power source	12 V DC
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

12 V DC supplied by an indoor unit



Central Remote Controller

UTY-DCGGZ3



Up to
100 indoor units
Up to
50 groups

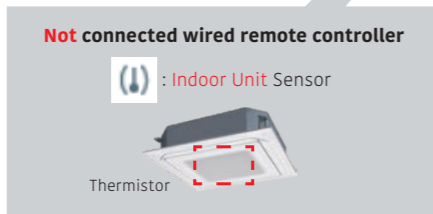
For Tenants in Small to Midsize Commercial Premises

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

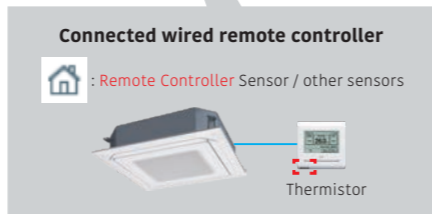
Easy Operation

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. This model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.



*Room temperature is displayed only when indoor unit operates.



50 Remote Controller Groups Display

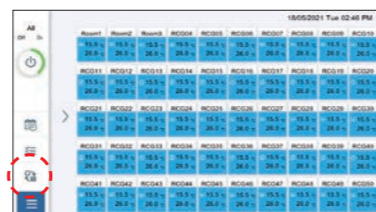
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor
by each Groups

50 Remote Controller Groups Display

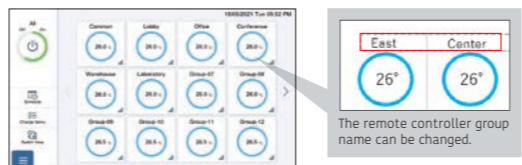


Manage & Monitor
by 50 Remote Controller Groups



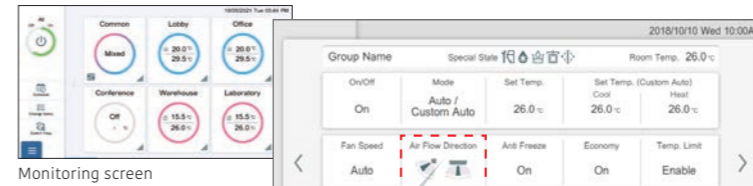
Remote Controller Groups Rename

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.



Monitoring screen

Individual setting



Added individual wind direction control

Individual wind direction control has been added.
Circular Flow cassette / 3D Flow cassette

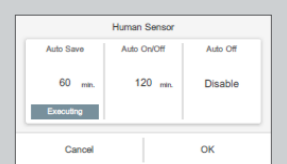


Circular flow cassette

Occupancy sensor Compatible

Occupancy sensor setting

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

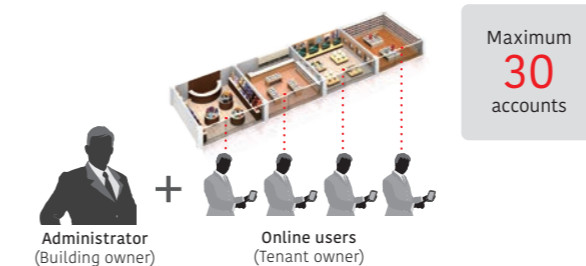


Remote Management

Remote monitoring / Remote operation

The 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 tenant can be managed separately online.

Increased the Number of Accounts



Administrator
(Building owner)

Online users
(Tenant owner)

Maximum
30
accounts

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-DCGGZ3
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800

Touch Panel Controller

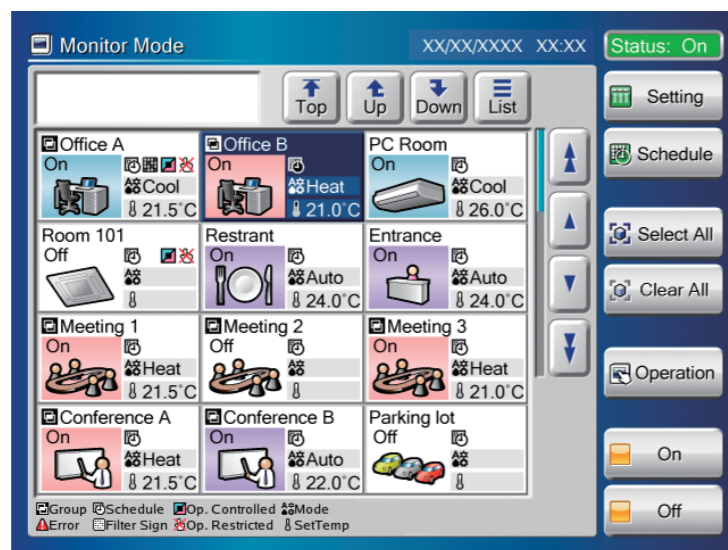
UTY-DTGGZ1



- Large 7.5-inch TFT color LCD screen
- Touch screen operation
- Stylish design to fit nicely into any room environment
- Controls up to 400 indoor units.
- Icon or list view can be selected in monitoring mode.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.
- Mounted with LAN adapter for remote control & operation, external input/output with emergency stop and batch ON/OFF

Easy Operation

- Wide range of simple-to-understand icons
- Operate by pressing the icons on the screen with your finger or a stylus.
- The color on the back identifies the current control operation; blue is for monitoring and green is for operational control.



Up to
400 indoor units

Up to
100 outdoor units

Up to
400 groups

Easy Maintenance

- The flat touch panel can be easily cleaned.
- Touch panel controller with non-glare coating to prevent finger marks
- Front cover for easy removal.

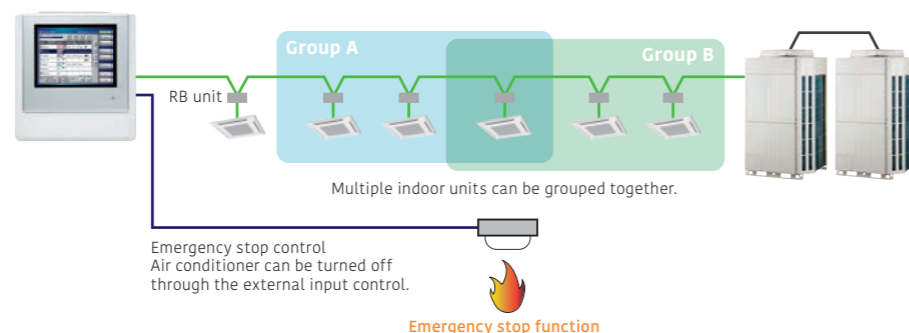


Easy Installation

- 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



Controls Up to 400 Indoor Units

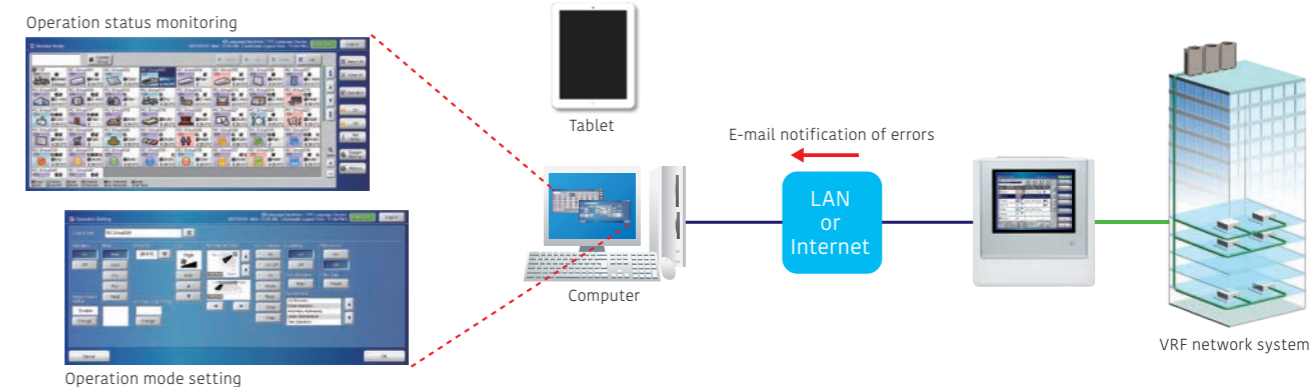


Emergency stop function

Features:

Control & Monitoring

- Control and monitor Fujitsu General air conditioners via LAN or internet.
- Users and tenants can manage their assigned equipment from anywhere by computer or tablet.
- When something goes wrong, an error notice is sent by e-mail for prompt troubleshooting.



Smartphone

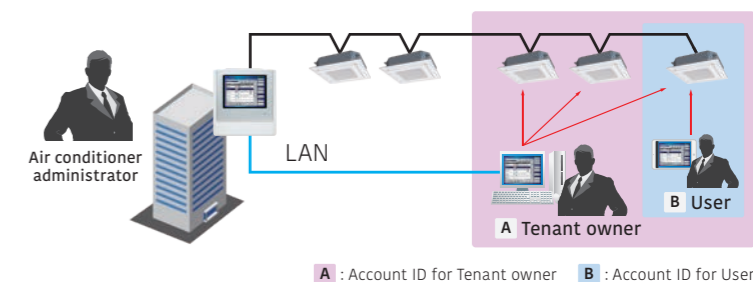
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

Tablet

Model name	Browser
iPad Pro 9.7 inch (iOS 10.2.1)	Safari 10

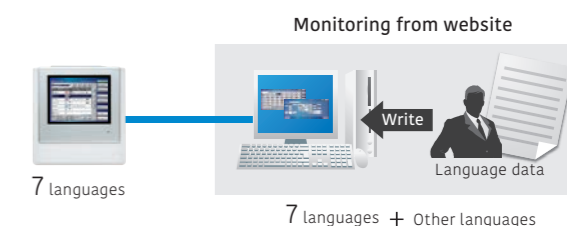
Flexible access permissions can be granted to users at each point level.

The administrator can register multiple users and permit them to access any indoor unit and any functions.



Additional Languages

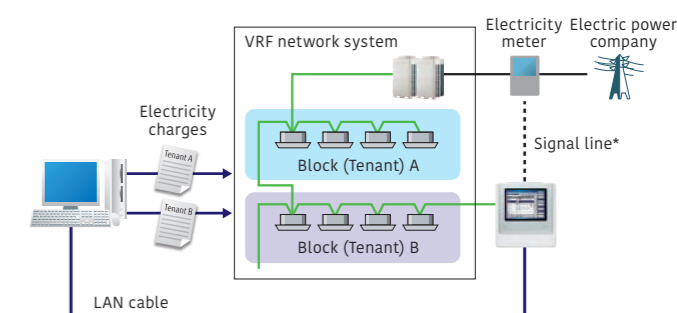
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



Electricity Charge Apportionment (Option: UTY-PTGXA)

- 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.

Features:

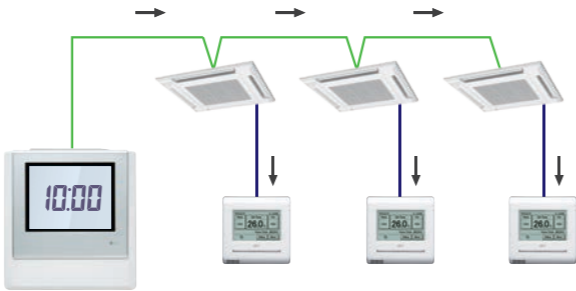
Automatic Setting for Daylight Saving Time

Functions provided

- 1) Schedule setting for daylight saving time
 - It prevents the user from forgetting to set daylight saving time. In addition, it saves time and effort for the user.

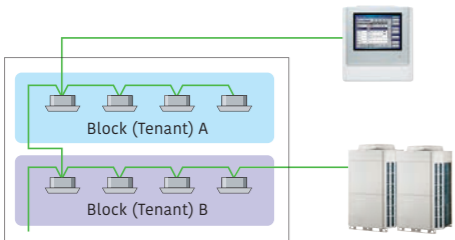
Automatic clock adjustment

- 2) Time can be set for all controllers in a batch automatically.

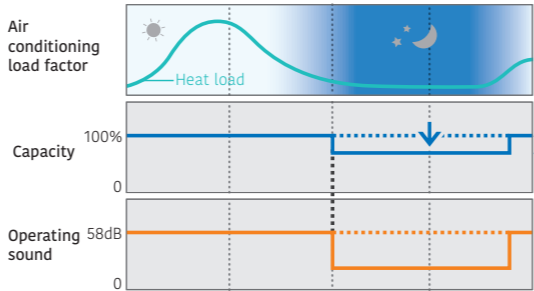


Outdoor Unit Low Noise Operation

You can choose from 4 low noise levels depending on the installation environment.
ON/OFF timing of low noise mode can be set with the timer.



Quiet priority setting



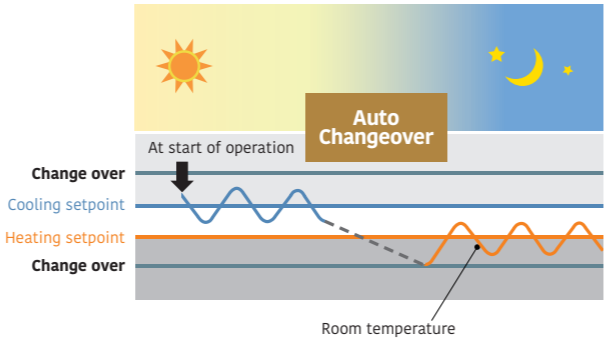
Energy-Saving Controls

Custom Auto

- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.
- * Not available for some models



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





Refrigerant Leak Detection

Refrigerant leakage status is indicated by the management equipment. A pop-up message is displayed to notify the user, and the refrigerant is shut off.



Pop-up highlighting



FUNCTIONS SUMMARY

		
	UTY-DTGGZ1	Monitoring side
Air conditioning control functions		
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	●*1	●
Group setting	●	●
Remote controller prohibition	●	●
Anti-freeze setting	●	●
Set temperature auto return	—	●
Energy-saving controls	—	●
Economy mode setting	●	●
Occupancy sensor control	—	●
Displayed items		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
Remote controller prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temperature	●*3	●*3
Multiple language support	●	●
Setting for daylight saving time	●	●
Time zone setting	●	●
Name registration	●	●
Backlighting	●	●
Language setting	7	7+other
Filter sign reset	●	●
Memory operations	●	●
Refrigerant leak detection	●	●

●: Supported ○: Optional function —: Not supported
*1 Only setting cancellation can be operated.
*2 Only available for external input control.
*3 Available only when using a Wired remote controller.

Specifications

Model name	UTY-DTGGZ1
Power supply	Single phase ~100 to 240 V 50/60 Hz
Dimensions (H × W × D) (mm)	260 × 246 × 54
Weight (g)	2,150
Interfaces	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW

			
		UTY-DTGGZ1	Monitoring side
Timer			
Schedule timer	Period	Year	Year
	ON/OFF, Temp, Mode, Times per day	20	20
ON/OFF timer		—	—
Sleep timer		—	—
Program timer		—	—
Auto-off timer		—	●
Day off		●	●
Minimum unit of timer setting (minutes)		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		● Password setting	—
Low noise mode		●	●

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 system
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.

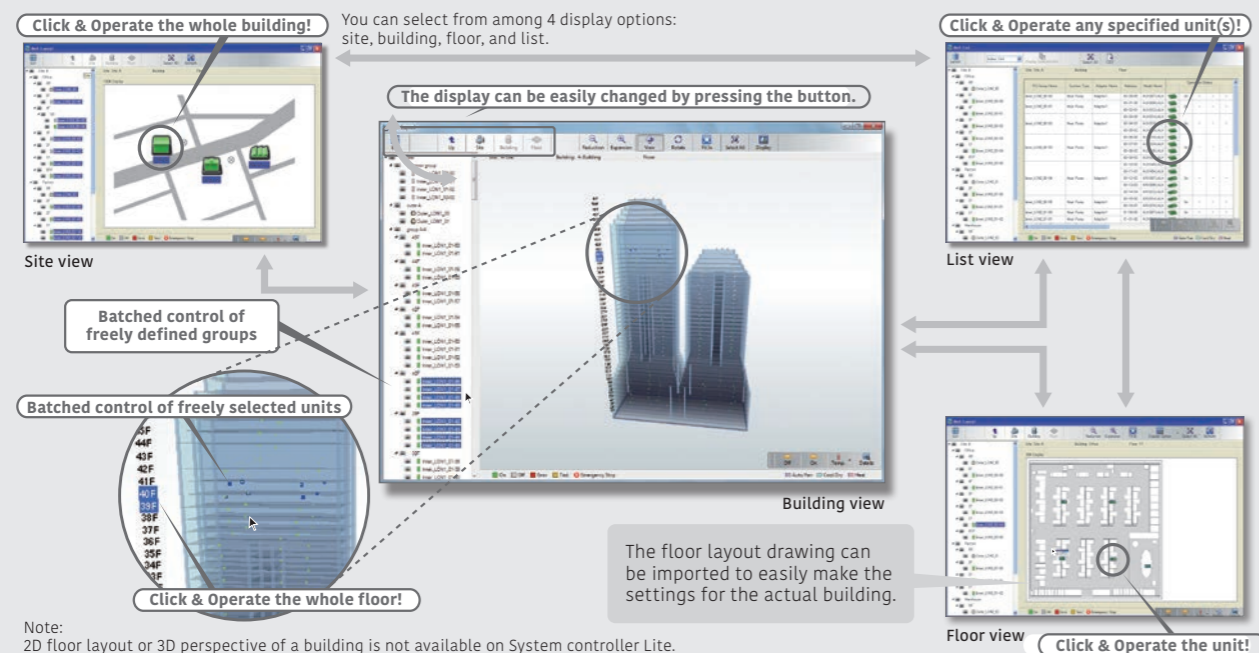
- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian,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



Visually Intuitive Operation

Click & Operate: The visual representation of the property is shown on the screen from the perspective most suitable for operation (Click & Operate) You can select from among 4 display options: site, building, floor, and list.

Freely define groups for batched control: Indoor units can be grouped for simplified batch control from the tree menu. They can be grouped by organizational hierarchy, such as by division, department, and section.

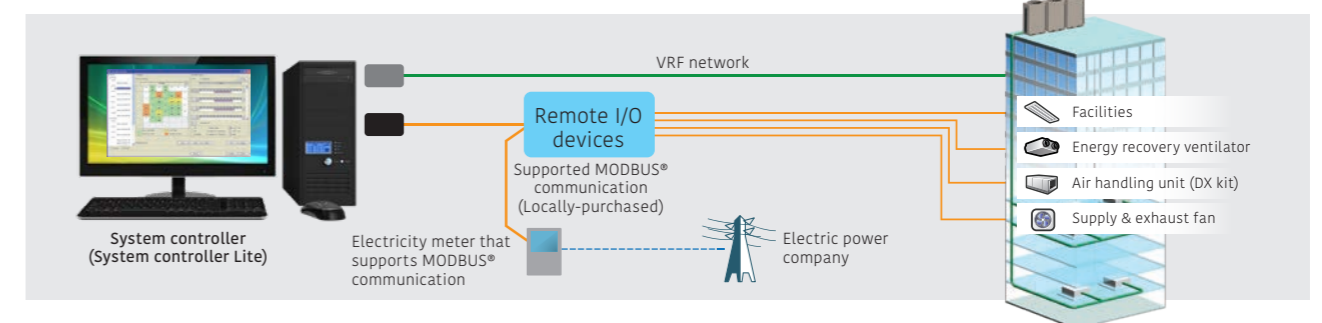


Features:

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.

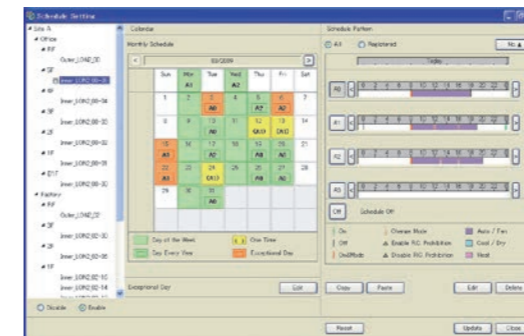


Wide-Ranging Operation and Data Management

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.

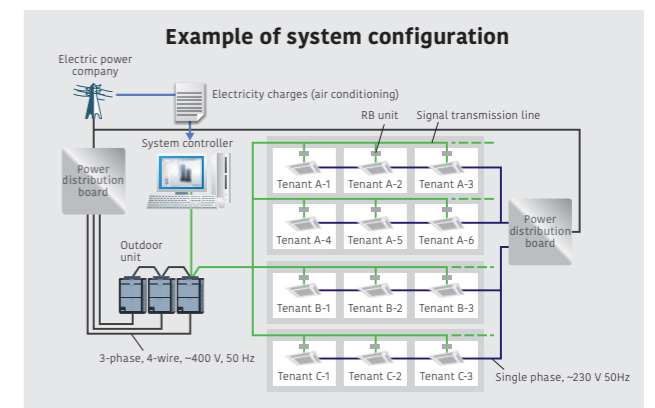
Electricity Charge Apportionment

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.





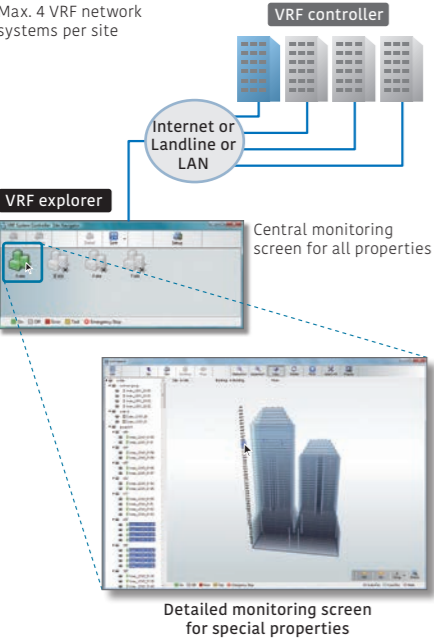
Features:

Remote Monitoring Management

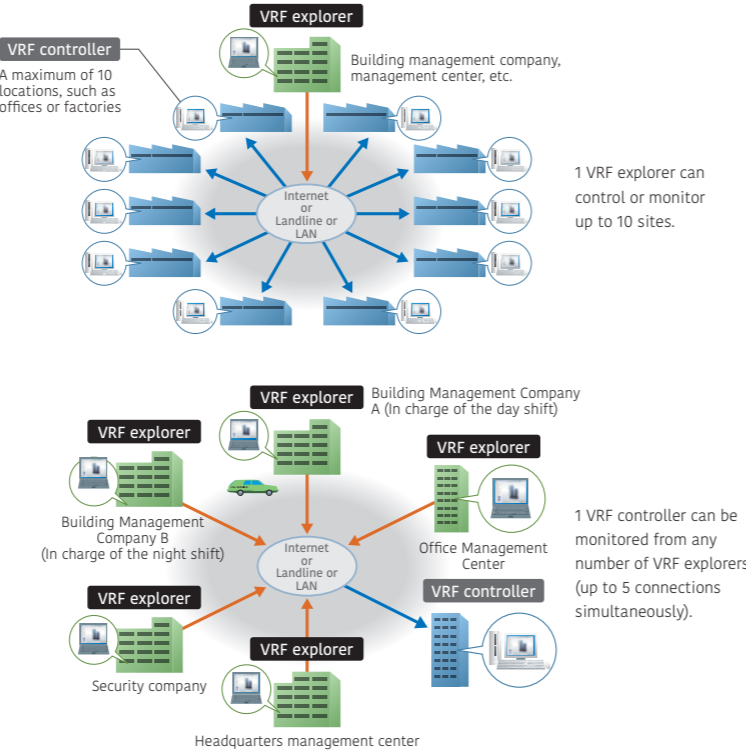
- Standard** on System controller
- Option** System controller Lite UTY-PLGXR2

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



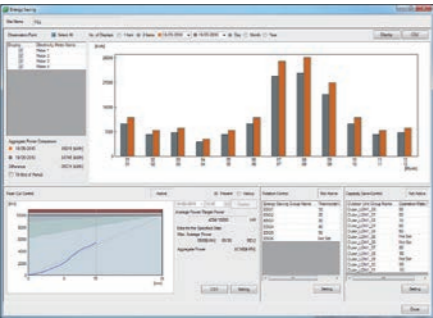
Remote central control



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, climate, 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	●	—	●	—	—	—	—
Error management	Group display	●	—	●	—	—	—	—
	Error notification	●	—	●	—	—	—	—
	Audible alarm	●	—	●	—	—	—	—
	E-mail notification of errors	●	—	●	—	—	—	—
History	Error history	●	—	●	—	—	—	—
	Operation history	●	—	●	—	—	—	—
Operation control	Control history	●	—	●	—	—	—	—
	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	●	—	●	—	—	—	—
	Remote controller prohibition	●	—	●	—	—	—	—
	Setting temperature range limitation	●	—	●	—	—	—	—
	Filter sign reset	●	—	●	—	—	—	—
	memory operations	●	—	●	—	—	—	—
Schedule	Pattern operations	●	—	●	—	—	—	—
	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	—	●	—	—	—	—	—
Energy-saving management	Electricity meter supported	—	●	—	—	●	—	—
	Indoor unit lead lag	—	●	—	—	—	●	—
	Peak cut control	—	●	—	—	—	●	—
	Capacity saving for outdoor unit	—	●	—	—	—	●	—
	Record of energy-saving operation	—	●	—	—	—	●	—
	Information on energy saving	—	●	—	—	—	●	—
	Power consumption monitor	—	●	—	—	—	●	—
Control of external devices	Electricity meter supported	—	●	—	—	—	●	—
	Monitor	●	—	—	—	—	—	●
Others	Control	●	—	—	—	—	—	●
	Importing and exporting databases	●	—	●	—	—	—	—
	Automatic clock adjustment	●	—	●	—	—	—	—
	Multiple language support	7 languages	—	7 languages	—	—	—	—
	Refrigerant leak detection	●	—	●	—	—	—	—
	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	Remote access	Option Electricity charge apportionment	Option Energy saving
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2
White-USB-key	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.

MODBUS® Converter

for indoor unit

UTY-VMSX

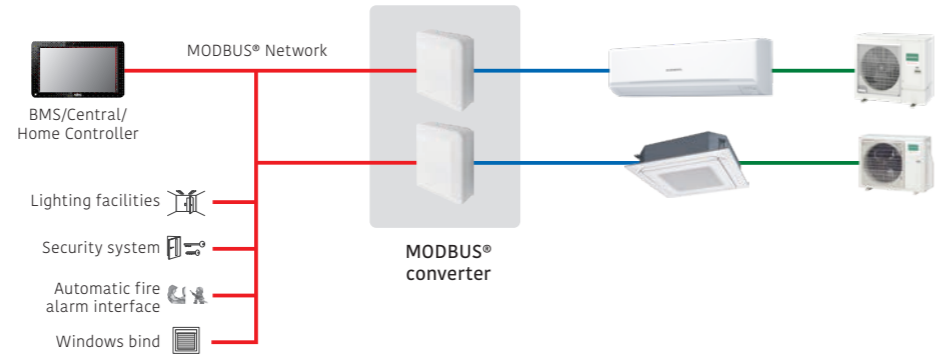


Up to

1 indoor unit

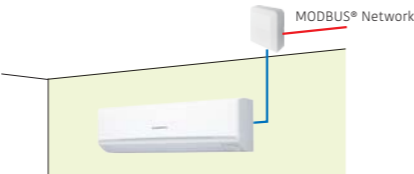
MODBUS® Converter Enables Air Conditioners to be Fully Integrated into a MODBUS® Network.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS® converter must be connected to an indoor unit on a one-to-one basis.
- The MODBUS® converter enables central monitoring and control of air conditioners from BMS, central, or home controller.



Easy Installation

Easy to install with minimal wiring and without the need for a power supply cable to the converter



Basic Control

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

Specifications

Model name	UTY-VMSX
Power supply	12 V DC
Input power (W)	Max. 1.2 W
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200
Maximum number of connectable indoor units per MODBUS® converter	1

Modbus communication specifications

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

MODBUS® Interface

FG-RC-MBS1Z1 / FG-AC-MBS1Z1 / FG-IR-BMG1Z1



FG-RC-MBS1Z1
(3-wire RC-line type)



FG-AC-MBS1Z1
(CN connector type)



FG-IR-BMG1Z1
(IR type)

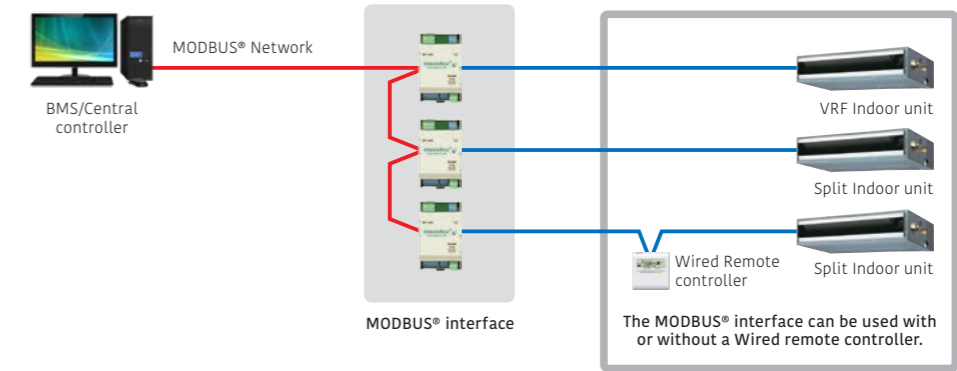
Up to

1 indoor unit

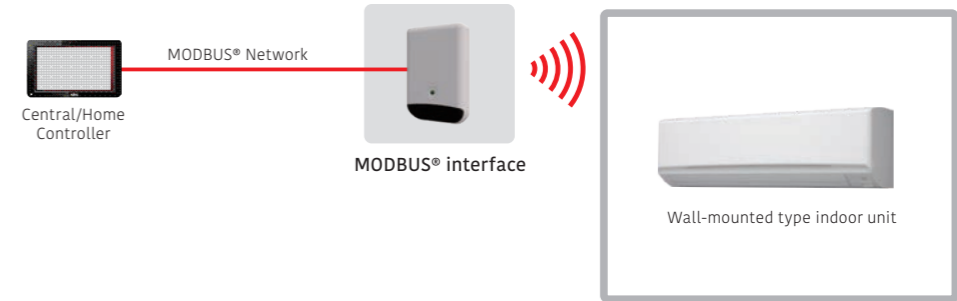
MODBUS® Interface Enables Air Conditioners to be Fully Integrated into a MODBUS® Network.

- Small, compact, and easy to install on DIN rails.
- No separate external power supply required.
- MODBUS® interface enables central monitoring and control of air conditioners from BMS.

Installation Example



[IR type] Connection to wall-mounted type

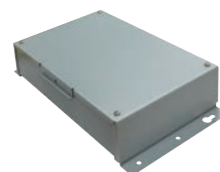


Specifications

Model name	FG-RC-MBS1Z1 (3-wire RC-line type)	FG-AC-MBS1Z1 (CN connector type)	FG-IR-BMG1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58	93 × 60 × 21
Weight (g)	85	85	55

MODBUS® Converter for VRF

UTY-VMGX / FG-TL-BMKM16Z1



UTY-VMGX

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

MODBUS® Converter Enables Air Conditioners to be Fully Integrated into a MODBUS® Network.

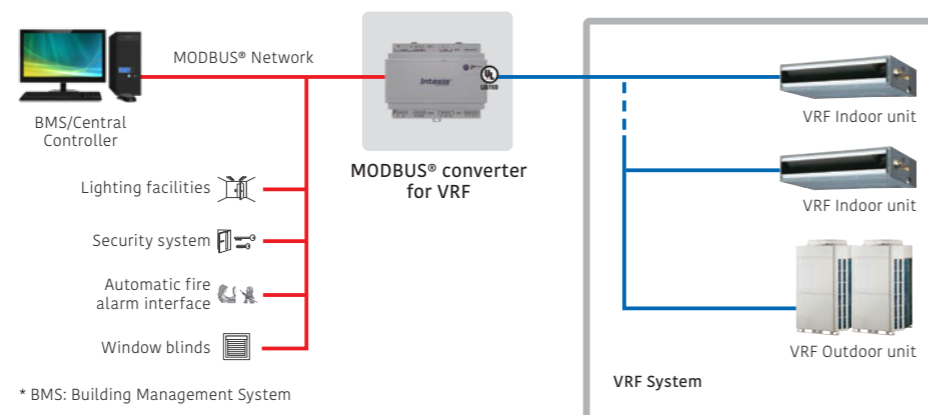
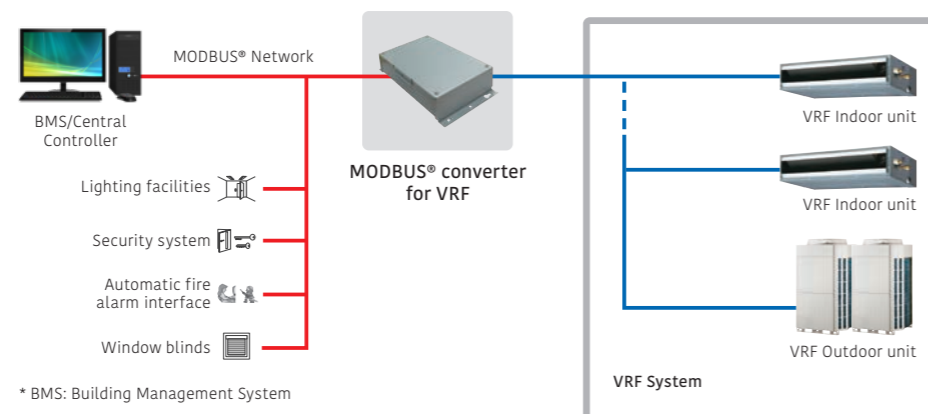
- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® converter enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

Installation Example



FG-TL-BMKM16Z1

Up to
16 indoor units
Up to
16 outdoor units
Up to
128 indoor units



Specifications

Model name	UTY-VMGX	FG-TL-BMKM16Z1
Power supply	Single phase ~220 to 240 V 50/60 Hz	12 to 36 VDC, Max: 250 mA or 24 VAC 50-60 Hz, Max: 127 mA*
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 106 × 58
Weight (g)	1,100	375

*24 V DC power supply is recommended.

BACnet® Interface

FG-AC-BAC1Z1 / FG-IR-BMG1Z1



FG-AC-BAC1Z1
(CN connector type)

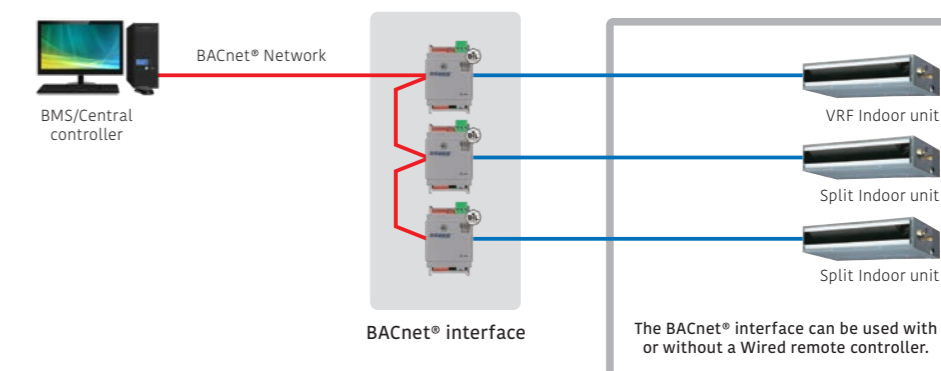


FG-IR-BMG1Z1
(IR type)

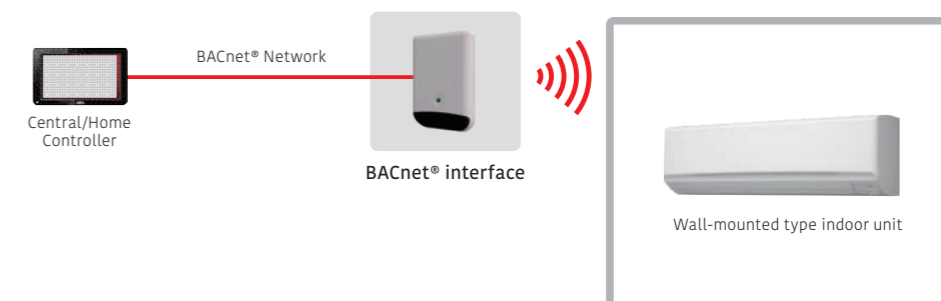
Up to
1 indoor unit

- BACnet® interface connects BMS and a Fujitsu General split/multi-split/VRF system.
- Compatible with BACnet® (ANSI/ASHRAE-135-2012) application-specific controller (B-ASC)
- Compatible with BACnet®/IP over Ethernet.

Installation Example



[IR type] Connection to wall-mounted type



Specifications

Model name	FG-AC-BAC1Z1 (CN connector type)	FG-IR-BMG1Z1 (IR type)
Number of controllable groups	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 60 × 21
Weight (g)	85	55

12 V DC supplied by an indoor unit

BACnet® Gateway

UTY-ABGXZ1 **Software**



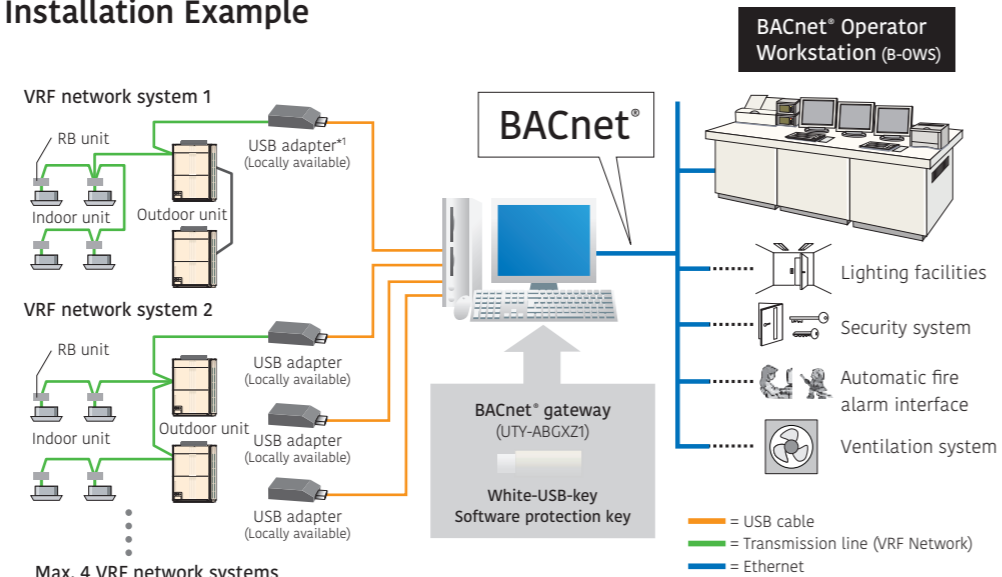
White-USB-key
(Software Protection Key)



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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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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)<ul style="list-style-type: none">– 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

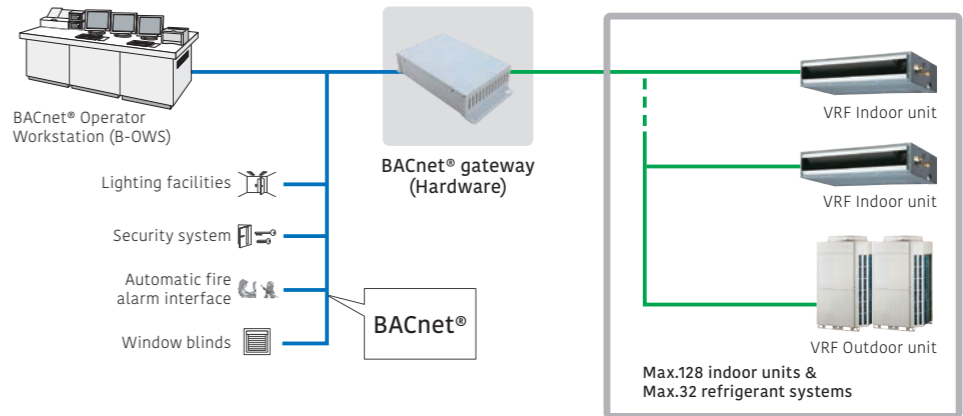
UTY-VBGX **Hardware**



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

Installation Example



Specifications

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant systems	32
Number of controllable VRF networks	1
Number of connectable units / one VRF network	4
Power supply	Single phase, 100-240 V, 50/60 Hz
Power consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1200

BACnet®/MODBUS® Router

FG-RTR-BAC32Z1 / FG-RTR-MBS32Z1



FG-RTR-BAC32Z1
(BACnet)

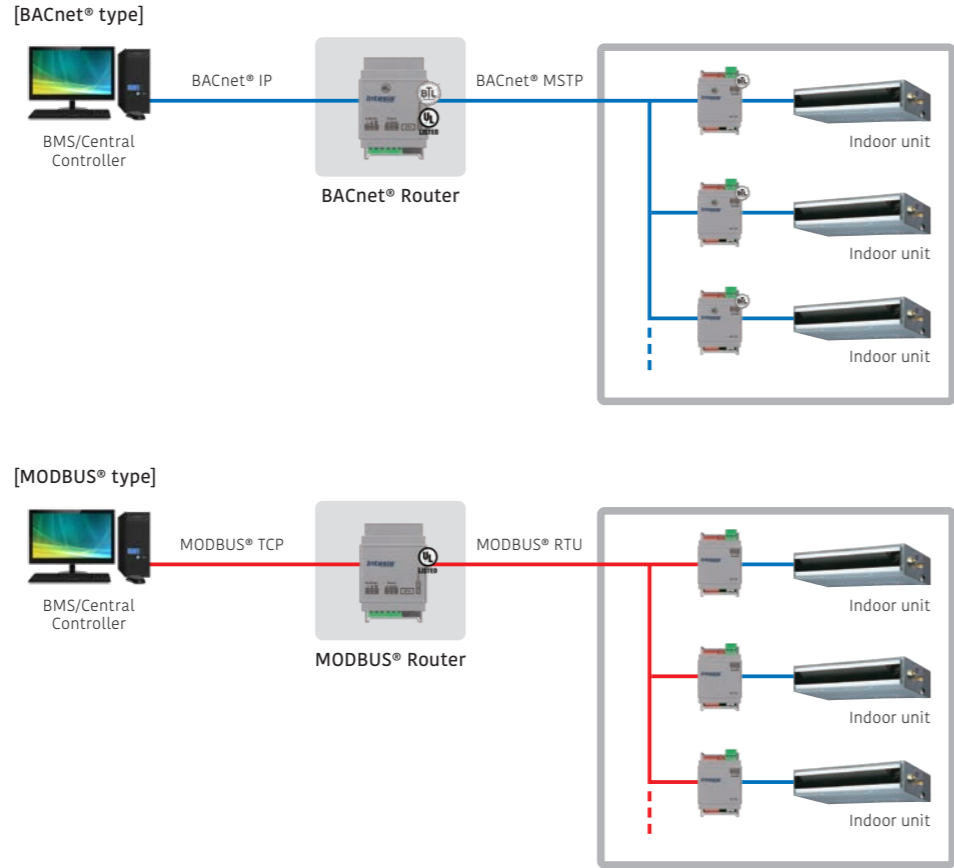


FG-RTR-MBS32Z1
(MODBUS®)

Routing Between BACnet® MS/TP and BACnet® IP Networks

- Routing between BACnet® MS/TP and BACnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

Installation Example



BACnet®/MODBUS® Cloud Device

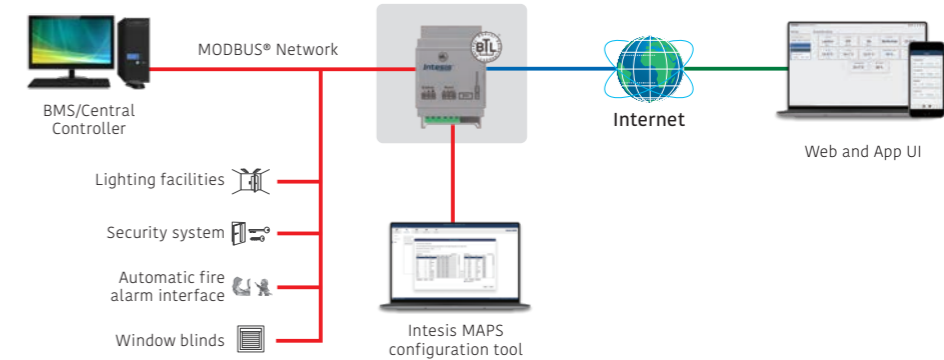
FG-CLD-BMG4Z1 / FG-CLD-BMG8Z1 / FG-CLD-BMG16Z1 / FG-CLD-BMG32Z1



FG-CLD-BMG4/8/16/32Z1

- The most powerful configuration tool common to all BACnet® gateways provides the system integrators with the power to configure and monitor their systems in an easy and reliable manner.
- A simple, easy-to-use description for the ST Cloud Web and App User Interface, with all widgets customizable to the user's needs, enabling system integrators to easily offer the best user experience to customers who are in control of their BACnet® or MODBUS® devices.

Installation example



*BMS: Building Management System

Gateway Features

- BACnet® IP/MSTP or MODBUS® TCP/RTU connectivity
- Up to 32 devices can be connected to each gateway.
- Up to 12 widgets per device
- Easy device configuration with Intesis MAPS

Next-Generation Services

- Industrial-grade connectivity now for building automation
- Fast and scalable real-time edge connectivity over HMS HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

System Features

- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices
- Calendar that shows the daily planned installation commands
- Notifications keep you updated about system status
- Device sharing and usage permissions management
- Multiple site management from a common dashboard

Specifications

Model name	FG-RTR-BAC32Z1 (MS/TP to IP)	FG-RTR-MBS32Z1 (RTU to TCP)
Number of routable devices (max.)	32	32
Power supply	9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA	9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA
Power consumption (W)	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150

Specifications

Model name	FG-CLD-BMG4Z1	FG-CLD-BMG8Z1	FG-CLD-BMG16Z1	FG-CLD-BMG32Z1
Number of connectable BACnet® (IP/MSTP) or MODBUS® (TCP/RTU) devices	4	8	16	32
Power supply	9 to 24 V DC, 50/60Hz	9 to 24 V DC, 50/60Hz	9 to 24 V DC, 50/60Hz	9 to 24 V DC, 50/60Hz
Power consumption (W)	1.7	1.7	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150	150	150

KNX® Converter for indoor unit

UTY-VKSX

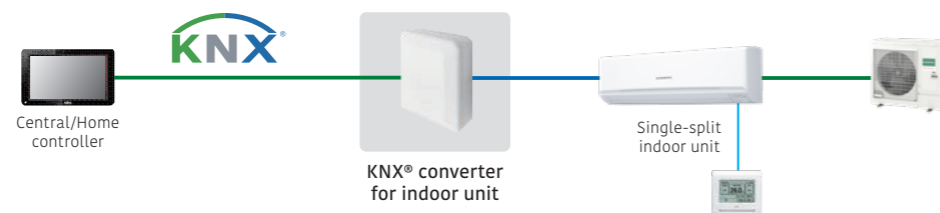


Up to
1 indoor unit

KNX® converter Enables Individual Control of an Indoor Unit.

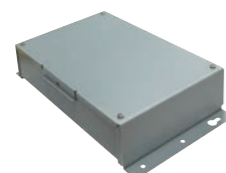
- The KNX® converter connects a central or home controller and a Fujitsu General indoor unit.
- Compact and lightweight design

Installation example



KNX® Converter for VRF

UTY-VKGX / FG-TL-BMKM16Z1



UTY-VKGX

Up to
100 outdoor units
Up to
128 indoor units



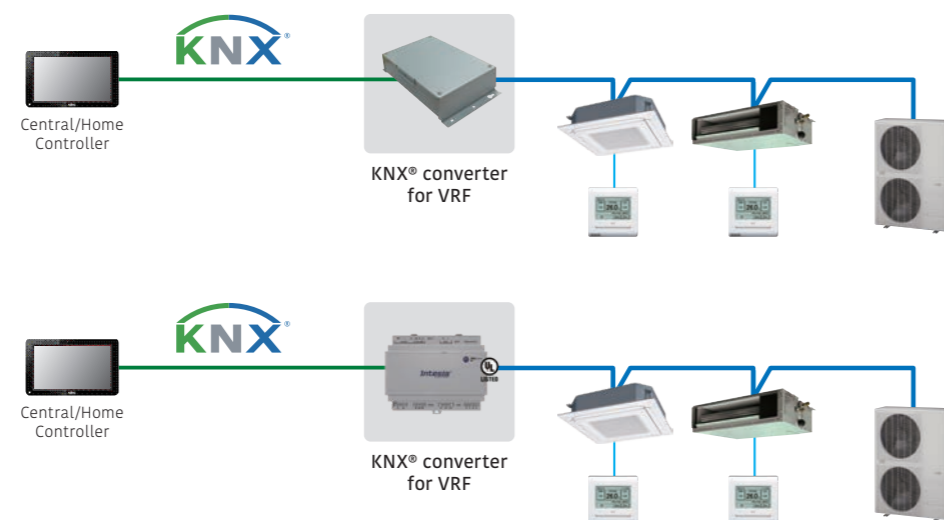
FG-TL-BMKM16Z1

Up to
16 outdoor units
Up to
16 indoor units

KNX® converter Enables Centralized Control of a System.

- KNX® converter connects a central or home controller and a Fujitsu General VRF system.
- Up to 128 indoor units and 100 outdoor units can be connected to a single KNX® converter. (UTY-VKGX)

Installation Example



Specifications

Model name	UTY-VKSX	UTY-VKGX	FG-TL-BMKM16Z1
Power supply	12 V DC	Single phase ~220 to 240 V 50/60 Hz	12 to 36 VDC, Max: 250 mA or 24 VAC 50-60 Hz, Max: 127 mA*
Dimensions (H × W × D) (mm)	140 × 117 × 43	54 × 260 × 150	90 × 106 × 58
Weight (g)	215	1,200	375

*24 V DC power supply is recommended.

KNX® Interface

FG-RC-KNX1Z1 / FG-AC-KNX1Z1 / FG-IR-KNX1Z1



Intesis®



FG-RC-KNX1Z1
(3-wire RC-line type)

Intesis®



FG-AC-KNX1Z1
(CN connector type)

Intesis®



FG-IR-KNX1Z1
(IR type)

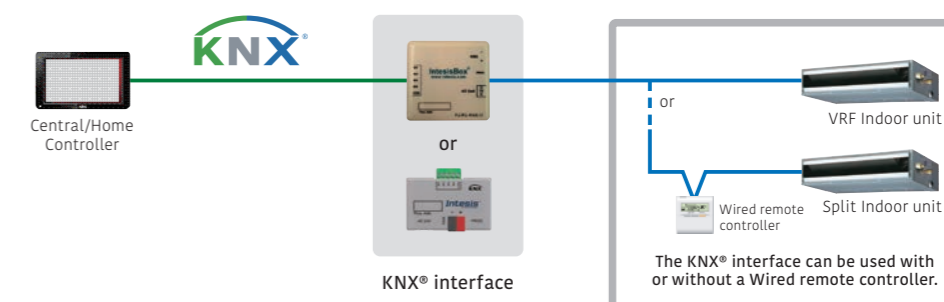
Up to
1 indoor unit

The KNX® Interface Enables Air Conditioners to be Fully Integrated into a KNX® Network System.

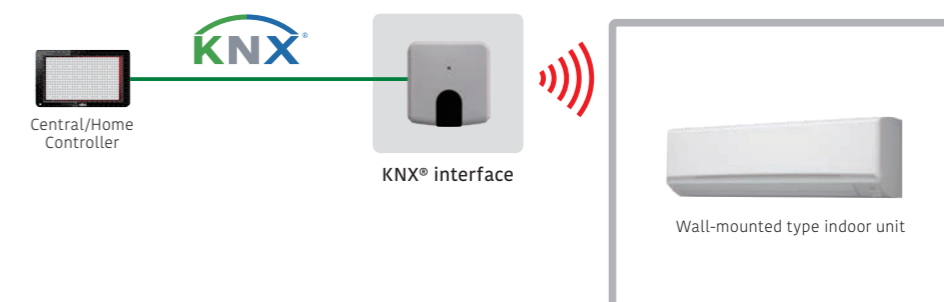
- Simple installation due to small and compact size.
- No separate external power supply required (only KNX® bus power required)

Installation Example

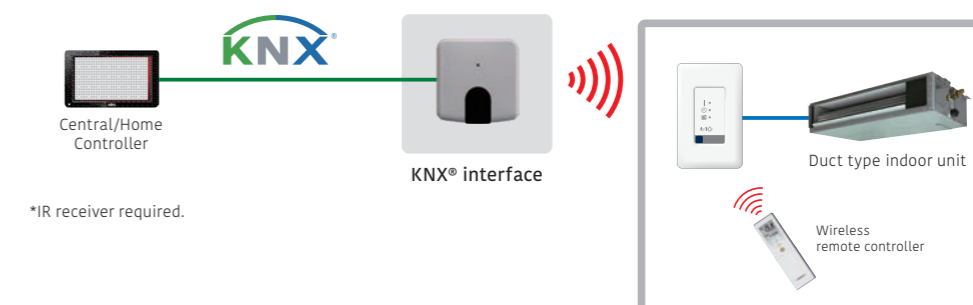
[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



[IR type] Connection to a product other than wall-mounted type



*IR receiver required.

Specifications

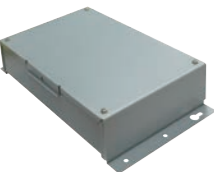
Model name	FG-RC-KNX1Z1 (3-wire RC-line type)	FG-AC-KNX1Z1 (CN connector type)	FG-IR-KNX1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	70 × 70 × 28	45 × 59 × 21	81 × 78 × 28
Weight (g)	70	35	76

Network Converter for single-split type

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type



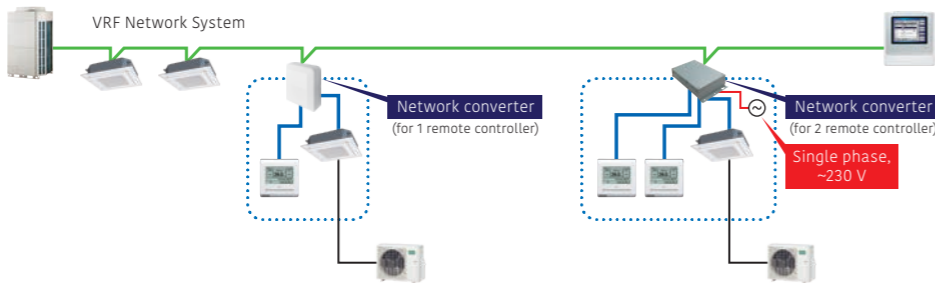
UTY-VTGXV
AC power supply type

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

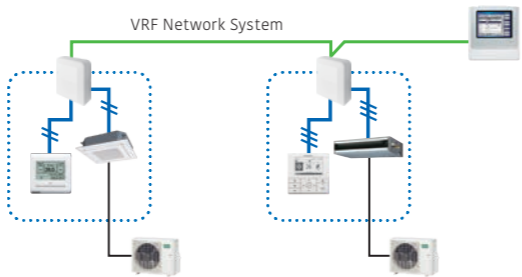
- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation Example

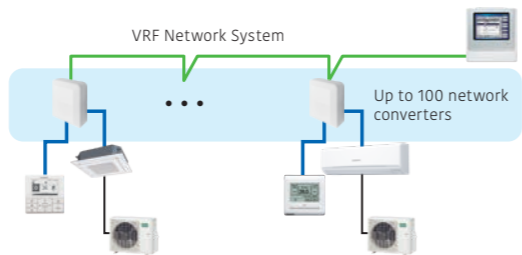
- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50/60 Hz) is required for the 2-remote-controllers type.



- Both nonpolar 2-core and polar 3-core type Wired remote controllers can be connected.



- Central control can be provided for single-split systems. (Up to 100 network converters can be connected in a VRF network system)

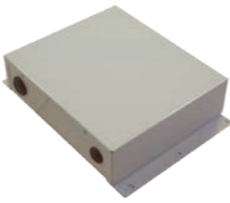


Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power supply	Polar 3-core 12 V DC	Nonpolar 2-core DC 12 V	Single phase ~220 to 240 V 50/60 Hz
Input power (W)	Max. 1.2 W		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Network Converter for LONWORKS™

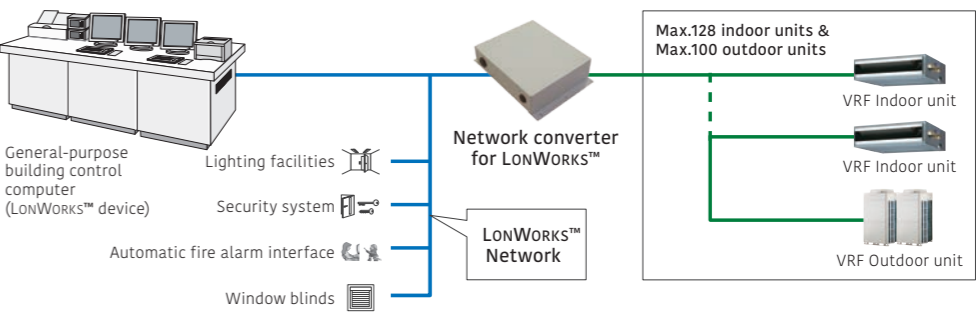
UTY-VLGX



Up to
4 units to BMS
Up to
100 outdoor units
Up to
128 indoor units

- Connects the VRF network system to a LONWORKS™ open network to manage small and mid-sized BMS and VRF network system.
- The UTY-VLGX enables centralized monitoring and control of VRF network system from a BMS via a LONWORKS™ interface.
- Up to 128 Indoor units can be connected to one network converter for LONWORKS™

Installation Example



Specifications

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

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (available from Echelon® Corporation)
Transmission line form	Free topology
Terminal resistor	None (converter to be attached at the terminal of a network)

External Switch Controller

UTY-TERX



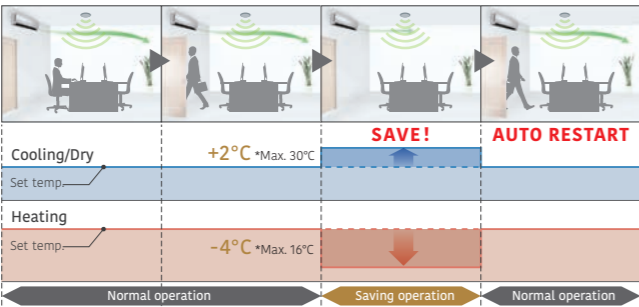
Up to
1 group

Air Conditioner Switching can be Controlled by Connecting This External Switch Controller to Other Sensor Switches.

- In combination with a commercially available card-key switch or other sensors, this External switch controller enables the control of ON/OFF, room temperature, and fan speed of connected air conditioners as well as master control functions. This makes this product an ideal choice for use in hotel rooms.
- Card key or other sensor switches are locally available.
- The set temperature can be specified at two points each for cooling and heating operations (4 points in total).

Installation Example

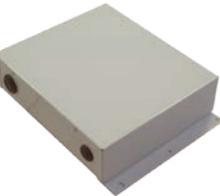
Occupancy sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.



Occupancy sensor equipment needs to be purchased separately. Occupancy sensor is not mounted on an External switch controller.

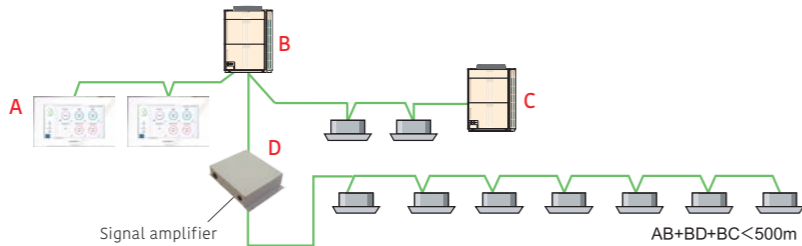
Signal Amplifier

UTY-VSGXZ1



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

Installation Example



Specifications

Model name	UTY-VSGXZ1	UTY-TERX
Power supply	Single phase ~208 to 240 V 50/60 Hz	6.5 to 16 V DC
Power consumption (W)	4.5	-
Dimensions (H × W × D) (mm)	67 × 288 × 211	140 × 117 × 43
Weight (g)	1,500	250














12 V DC supplied by an indoor unit



Controller System List (available) for Split/Multi-Split

Controller Options/Accessories:


















Type	Refrigerant	Indoor unit										
		Wall-mounted					Wall-mounted				Cassette	
		Designer Range			Standard Range		Standard Range	ECO Range			Compact 4-way flow Range	Circular flow Range
			ASHH07/09/12/14KGTG, ASHG07/09/12/14KGTG, ASHG07/09/12/14KGTE	ASHH07/09/12/14 KJCAL, KJCALB ASHH07/09/12/14 KJCA, KJCA-B	ASHG 07/09/12/14 KETF, KETF-B KETE, KETE-B	ASHH07/09/12/14KMCG, KMCG-B, ASHG07/09/12/14KMCF, ASHG07/09/12/14KMCE	ASHG18/24KMTE	ASHH30/36KMTB	ASHH07/09/12KNCA	ASHG07/09/12KPCE	ASHH07/09/12KLTA	AUXG 09/12/14/18/22/24 KVLA
												
Controllers	Wired remote controller		● UTY-RVRG+ UTY-TWRXZ2				● UTY-RVRG+ UTY-TWRXZ2				● UTY-RVRG	
			● UTY-RNRGZ5+ UTY-TWRXZ2				● UTY-RNRGZ5+ UTY-TWRXZ2				● UTY-RNRGZ5	
			● UTY-RLRG+ UTY-TWRXZ2				● UTY-RLRG+ UTY-TWRXZ2				● UTY-RLRG	
			● UTY-RCRGZ1+ UTY-TWRXZ2				● UTY-RCRGZ1+ UTY-TWRXZ2				● UTY-RCRGZ1	
											● UTY-RVNGM	
											● UTY-RNNGM	
	Simple remote controller	 Nonpolar 2-core type	● UTY-RSRG UTY-RHRG+ UTY-TWRXZ2				● UTY-RSRG UTY-RHRG+ UTY-TWRXZ2				● UTY-RSRG UTY-RHRG	
	Home central remote controller											
	Wireless remote controller		● UTY-LNWX			● UTY-LNWX				● UTY-LNWX	● UTY-LNTG	
	IR receiver unit with Wireless remote controller	 For Duct type										
 For Duct type For Cassette type For Ceiling type											● UTY-LBTGC	

*1: Available only when the WLAN adapter (UTY-TFSXH3) is removed. *2 Available only when the WLAN adapter (UTY-TFSXJ3) is removed.
*3 Consult your dealer for conditions of use.

Controller System List (available) for Split/Multi-Split

Controller Options/Accessories:

























Type	Refrigerant	Indoor unit							Indoor unit								Outdoor unit	
		Duct							Floor	Ceiling	Multi-split						Single phase	
		Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		BIG			Wall-mounted			Compact cassette	Mini duct	Slim duct	5/6-unit multi-split	
		ARXG 09/12/14/18 KLLAP	ARXH 12/14/18/22/24/ 30/36/45/54 KMTAP	ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG45/54KHTB			AGHG 09/12/14 KVCA	ABHG 18/22/24/30/ 36/45/54 KRTA	ASHH05 KJCAL,KJCALB ASHH05 KJCA,KJCA-B	ASHH05KNCA	ASHG22KMTE	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	AOHG36KBTAS	
							ARHG60LHTA	ARHG72/90LHTA									AOHG45LBLA6	
Controllers	Wired remote controller		● UTY-RVRG						● UTY-RVRG		● UTY-RVRG+ UTY-TWRXZ3	● UTY-RVRG	● UTY-RVRG+ UTY-TWRXZ2		● UTY-RVRG+ UTY-TWRXZ2	● UTY-RVRG		
			● UTY-RNRGZ5						● UTY-RNRGZ5		● UTY-RNRGZ5+ UTY-TWRXZ3	● UTY-RNRGZ5	● UTY-RNRGZ5+ UTY-TWRXZ2		● UTY-RNRGZ5+ UTY-TWRXZ2	● UTY-RNRGZ5		
			● UTY-RLRG						● UTY-RLRG		● UTY-RLRG+ UTY-TWRXZ3	● UTY-RLRG	● UTY-RLRG+ UTY-TWRXZ2		● UTY-RLRG+ UTY-TWRXZ2	● UTY-RLRG		
			● UTY-RCRGZ1						● UTY-RCRGZ1		● UTY-RCRGZ1+ UTY-TWRXZ3	● UTY-RCRGZ1	● UTY-RCRGZ1+ UTY-TWRXZ2		● UTY-RCRGZ1+ UTY-TWRXZ2	● UTY-RCRGZ1		
			● UTY-RVNGM		● UTY-RVNGM			● UTY-RVNGM								● UTY-RVNGM		
			● UTY-RNNGM		● UTY-RNNGM			● UTY-RNNGM								● UTY-RNNGM		
Simple remote controller	 Nonpolar 2-core type	● UTY-RSRG UTY-RHRG						● UTY-RSRG UTY-RHRG		● UTY-RSRG UTY-RHRG+ UTY-TWRXZ3	● UTY-RSRG UTY-RHRG	● UTY-RSRG UTY-RHRG+ UTY-TWRXZ2		● UTY-RSRG UTY-RHRG+ UTY-TWRXZ2	● UTY-RSRG UTY-RHRG			
Home central remote controller																	● UTY-DMMGM1* (KBTAS) UTY-DMMGM*3 (LBLA6)	
Wireless remote controller												● UTY-LNWX		● UTY-LNTG				
IR receiver unit with Wireless remote controller	 For Duct type						● UTY-LRHGM											
	 For Duct type  For Cassette type  For Ceiling type	● UTY-LBTGM						● UTY-LBTGM				● UTY-LBTGH				● UTY-LBTGM		

*1: Available only when the WLAN adapter (UTY-TFSXH3) is removed. *2: Available only when the WLAN adapter (UTY-TFSXJ3) is removed.
*3: Consult your dealer for conditions of use.

Controller System List (available) for Split/Multi-Split

Controller Options/Accessories:



















Type	Refrigerant	Indoor unit					Indoor unit						
		Wall-mounted					Wall-mounted			Cassette			
		Designer Range			Standard Range		Standard Range	ECO Range			Compact 4-way flow Range	Circular flow Range	
		ASHH07/09/12/14KGTG, ASHG07/09/12/14KGTG, ASHG07/09/12/14KGTE	ASHH07/09/12/14 KJCAL, KJCALB, ASHH07/09/12/14 KJCA, KJCA-B	ASHG07/09/12/14 KETF, KETF-B, KETE, KETE-B	ASHH07/09/12/14KMCG, KMCG-B, ASHG07/09/12/14KMCF, ASHG07/09/12/14KMCE	ASHG18/24KMTE	ASHH30/36KMTB	ASHH07/09/12KNCA	ASHG07/09/12KPCE	ASHH07/09/12KLTA	AUXG 09/12/14/18/22/24 KVL A	AUXG 18/22/24/30/36/45/54 KRLB	
													
Interfaces	MODBUS® Converter		● UTY-VMSX					● UTY-VMSX					● UTY-VMSX
	MODBUS® interface	 	● FG-AC-MBS1Z1					● FG-AC-MBS1Z1					● FG-RC-MBS1Z1 FG-AC-MBS1Z1
			● FG-IR-BMG1Z1					● FG-IR-BMG1Z1					
	KNX® converter		● UTY-VKSX					● UTY-VKSX					● UTY-VKSX
	KNX® interface	 	● FG-AC-KNX1Z1					● FG-AC-KNX1Z1					● FG-RC-KNX1Z1 FG-AC-KNX1Z1
			● FG-IR-KNX1Z1					● FG-IR-KNX1Z1					
	WLAN adapter	 											● UTY-TFSXJ3
			● Accessory (KGTG, KGTG , KJCAL , KJCALB , KETF, KETF-B, KMCG, KMCF) UTY-TFSXH3 (KGTE, KJCA, KJCA-B , KETE, KETE-B, KMCE)					● UTY-TFSXH3	● Accessory	● UTY-TFSXH3			
		 	● FG-AC-WIF1Z1					● FG-AC-WIF1Z1					● FG-RC-WIF1Z2 FG-AC-WIF1Z1
			● FG-IR-WIF1Z1					● FG-IR-WIF1Z1					
		 	● FG-AC-WMP1Z1					● FG-AC-WMP1Z1					● FG-RC-WMP1Z1 FG-AC-WMP1Z1
			● FG-IR-WMP1Z1					● FG-IR-WMP1Z1					
	External switch controller		● UTY-TERX+UTY-TWRXZ2					● UTY-TERX+UTY-TWRXZ2					● UTY-TERX
	Network converter for single-split type	 	● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2					● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2					● UTY-VTGX UTY-VTGXV

*There are no optional parts for the KL Series.
*1: Available only when the WLAN adapter (UTY-TFSXH3) is removed. *2: Available only when the WLAN adapter (UTY-TFSXJ3) is removed.
*3: Consult your dealer for conditions of use.

Controller System List (available) for Split/Multi-Split

Controller Options/Accessories:



Type	Refrigerant	Indoor unit							Indoor unit								Outdoor unit	
		Duct							Floor	Ceiling	Multi-split					Single phase		
		Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		BIG			Wall-mounted			Compact cassette	Mini duct	Slim duct	5/6-unit multi-split	
		ARXG 09/12/14/18 KLLAP	ARXH 12/14/1822/24/ 30/36/45/54 KMTAP	ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG45/54KHTB			AGHG 09/12/14 KVCA	ABHG 18/22/24/30/ 36/45/54 KRTA	ASHH05 KJCAL,KJCALB ASHH05 KJCA,KJCA-B	ASHH05KNCA	ASHG22KMTE	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	AOHG36KBTAS	
								ARHG60LHTA	ARHG72/90LHTA									AOHG45LBLA6
Interfaces	MODBUS® Converter		● UTY-VMSX							● UTY-VMSX	● UTY-VMSX*2	● UTY-VMSX			● UTY-VMSX*1	● UTY-VMSX		
	MODBUS® interface	 3-wire RC-line type	● FG-RC-MBS1Z1 FG-AC-MBS1Z1					● FG-AC-MBS1Z1	● FG-RC-MBS1Z1	● FG-RC-MBS1Z1 FG-AC-MBS1Z1	● FG-AC-MBS1Z1				● FG-AC-MBS1Z1	● FG-RC-MBS1Z1 FG-AC-MBS1Z1		
		 IR type	● FG-IR-BMG1Z1+ UTY-LBTGC	● FG-IR-BMG1Z1+ UTY-LBTGM					● FG-IR-BMG1Z1+ UTY-LRHGM	● FG-IR-BMG1Z1+ UTY-LRHGM	● FG-IR-BMG1Z1					● FG-IR-BMG1Z1+ UTY-LBTGM		
	KNX® converter		● UTY-VKSX							● UTY-VKSX	● UTY-VKSX*2	● UTY-VKSX			● UTY-VKSX*1	● UTY-VKSX		
	KNX® interface	 3-wire RC-line type	● FG-RC-KNX1Z1 FG-AC-KNX1Z1					● FG-AC-KNX1Z1	● FG-RC-KNX1Z1	● FG-RC-KNX1Z1 FG-AC-KNX1Z1	● FG-AC-KNX1Z1				● FG-AC-KNX1Z1	● FG-RC-KNX1Z1 FG-AC-KNX1Z1		
		 IR type	● FG-IR-KNX1Z1+ UTY-LBTGC	● FG-IR-KNX1Z1+ UTY-LBTGM					● FG-AC-KNX1Z1+ UTY-LBTGM	● FG-IR-KNX1Z1+ UTY-LRHGM	● FG-IR-KNX1Z1+ UTY-LRHGM	● FG-IR-KNX1Z1					● FG-IR-KNX1Z1+ UTY-LBTGM	
	WLAN adapter	 3-wire RC-line type ¹⁾	● UTY-TFSXJ3							● UTY-TFSXJ3						● UTY-TFSXJ3		
		 USB type ²⁾									● Accessory (KJCAL , KJCALB) UTY-TFSXH3 (KJCA, KJCA-B)	● Accessory	● UTY-TFSXH3					
		 3-wire RC-line type	● FG-RC-WIF1Z2 FG-AC-WIF1Z1					● FG-AC-WIF1Z1	● FG-RC-WIF1Z2	● FG-RC-WIF1Z2 FG-AC-WIF1Z1	● FG-AC-WIF1Z1				● FG-AC-WIF1Z1	● FG-RC-WIF1Z2 FG-AC-WIF1Z1		
		 IR type	● FG-IR-WIF1Z1+ UTY-LBTGC	● FG-IR-WIF1Z1+ UTY-LBTGM					● FG-IR-WIF1Z1+ UTY-LRHGM	● FG-IR-WIF1Z1+ UTY-LRHGM	● FG-IR-WIF1Z1					● FG-IR-WIF1Z1+ UTY-LBTGM		
		 3-wire RC-line type	● FG-RC-WMP1Z1 FG-AC-WMP1Z1					● FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● FG-RC-WMP1Z1 FG-AC-WMP1Z1	● FG-AC-WMP1Z1				● FG-AC-WMP1Z1	● FG-RC-WMP1Z1 FG-AC-WMP1Z1		
		 IR type	● FG-IR-WMP1Z1+ UTY-LBTGC	● FG-IR-WMP1Z1+ UTY-LBTGM					● FG-IR-WMP1Z1+ UTY-LRHGM	● FG-IR-WMP1Z1+ UTY-LRHGM	● FG-IR-WMP1Z1					● FG-IR-WMP1Z1+ UTY-LBTGM		
	External switch controller		● UTY-TERX							● UTY-TERX	● UTY-TERX+ UTY-TWRXZ3	● UTY-TERX+ UTY-TWRXZ2			● UTY-TERX+ UTY-TWRXZ2	● UTY-TERX		
	Network converter for single-split type	 DC power supply type	● UTY-VTGX UTY-VTGXV							● UTY-TERX	● UTY-VTGX+ UTY-TWRXZ3 UTY-VTGXV+ UTY-TWRXZ3	● UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2			● UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2	● UTY-VTGX UTY-VTGXV		

*There are no optional parts for the KL Series.













*1: Available only when the WLAN adapter (UTY-TFSXH3) is removed. *2: Available only when the WLAN adapter (UTY-TFSXJ3) is removed.

*3: Consult your dealer for conditions of use.

Controller System List (available) for VRF

Controller Options:















Type	Refrigerant	Indoor unit							Indoor unit						
		Cassette							Duct						
		1-way Flow	3D flow	Compact type AUXB 004/005/007/009/ 012/014/018 HLAH	High Efficiency AUXN 009/012/014 HLAH	Circular Flow Range			Compact type (45cm Duct)	Slim Duct		Low static pressure		Medium static pressure Normal	High static pressure Normal
						Slim type	Large type					High Efficiency	High Efficiency		
	AUXV 004/007/009/012/ 014/018/024 GLEH	AUXS018/024GLEH	AUXB 004/007/009/012/ 014/018/024 GLEH		AUXM 018/024/030 GLEH	AUXK 018/024/030/034/ 036/045/054 GLEH	ARXK 004/007/009/012/ 014/018/024 GLGH	ARXD04GALH	ARXD 004/005/007/009/012/ 014/018/024 HLAH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/014 HLAH	ARXP018/030GLFH	ARXA 024/030/036/045 GLEH	ARXC 036/045/060/ 072/090/096 GTEH	
Controllers	Wired remote controller		● UTY-RVRG												
			● UTY-RNRGZ5												
			● UTY-RLRG												
			● UTY-RCRGZ1												
	Simple remote controller	 Nonpolar 2-core type	● UTY-RSRG UTY-RHRG												
	Wireless remote controller	 UTY-LNVG UTY-LNHG	● UTY-LNVG UTY-LNHG												
	IR receiver unit		● UTY-TRHX			● UTY-LBHXD		● UTY-TRHX	● UTB-YWC	● UTY-TRHX					
Central remote controller		● UTY-DCGGZ3													
Touch panel controller		● UTY-DTGGZ1													
System controller, System controller Lite		● UTY-APGXZ1, UTY-ALGXZ1													

Controller System List (available) for VRF

Controller Options:



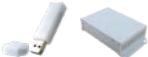























Type	Refrigerant	Indoor unit				Indoor unit					
		Floor		Ceiling/ Floor	Ceiling	Wall-mounted					
		EEV Internal	EEV External			EEV Internal	EEV External	EEV Internal	EEV External	EEV Internal	EEV Internal
						ASHA 004/005/007/009/012/014 HCAH	ASHE 004/005/007/009/012/014 HCAH				
		AGHA 004/007/009/012/014 GCGH	AGHE 004/007/009/012/014 GCEH	ABHA 012/014/018/024 GTEH	ABHA 030/036/045/054 GTEH	ASHA 004/007/009 GCGH	ASHE 004/007/009 GCEH	ASHA012/014GCGH	ASHE012/014GCEH	ASHA18/24GBCH	ASHA030/034GTEH
Controllers	Wired remote controller		● UTY-RVRG				● UTY-RVRG				
			● UTY-RNRGZ5				● UTY-RNRGZ5				
			● UTY-RLRG				● UTY-RLRG				
			● UTY-RCRGZ1				● UTY-RCRGZ1				
	Simple remote controller	 Nonpolar 2-core type	● UTY-RSRG UTY-RHRG				● UTY-RSRG UTY-RHRG				
	Wireless remote controller	 UTY-LNVG UTY-LNHG	● UTY-LNVG UTY-LNHG				● UTY-LNVG UTY-LNHG				
	IR receiver unit										
	Central remote controller		● UTY-DCGGZ3				● UTY-DCGGZ3				
	Touch panel controller		● UTY-DTGGZ1				● UTY-DTGGZ1				
	System controller, System controller Lite		● UTY-APGXZ1, UTY-ALGXZ1				● UTY-APGXZ1, UTY-ALGXZ1				

Controller System List (available) for VRF

Controller Options:



Type	Refrigerant	Indoor unit						Indoor unit							
		Cassette						Duct							
		1-way Flow	3D flow	Compact type	High Efficiency	Circular Flow Range		Compact type (45cm Duct)	Slim Duct		Low static pressure		Medium static pressure	High static pressure	
						Slim type	Large type				High Efficiency	High Efficiency			Normal
				AUXB 004/005/007/009/ 012/014/018 HLAH	AUXN 009/012/014 HLAH					ARXD 004/005/007/009/ 012/014/018/024 HLAH	ARXP 009/012/014 HLAH				
		AUXV 004/007/009/012/ 014/018/024 GLEH	AUXS018/024GLEH	AUXB 004/007/009/012/ 014/018/024 GLEH		AUXM 018/024/030 GLEH	AUXK 018/024/030/034/ 36/045/054 GLEH	ARXK 004/007/009/012/ 014/018/024 GLGH	ARXD04GALH	ARXD 007/009/012/ 014/018/024 GLEH		ARXP018/030GLFH	ARXA 024/030/036/045 GLEH	ARXC 036/045/060/ 072/090/096 GTEH	
Interfaces	BACnet® gateway		● UTY-ABGXZ1, UTY-VBGX												
			● FG-AC-BAC1Z1						● FG-AC-BAC1Z1		● FG-AC-BAC1Z1				
			● FG-IR-BMG1Z1+UTY-TRHX		● FG-IR-BMG1Z1		● FG-IR-BMG1Z1+UTY-LBHXD			● FG-IR-BMG1Z1+ UTY-TRHX	● FG-IR-BMG1Z1+ UTB-YWC	● FG-IR-BMG1Z1+UTY-TRHX			
	Network converter for LonWorks™		● UTY-VLGX												
	MODBUS® Converter		● UTY-VMSX												
			● UTY-VMGX FG-TL-MBS16Z1												
	MODBUS® interface	 	● FG-AC-MBS1Z1												
			● FG-IR-BMG1Z1+UTY-TRHX		● FG-IR-BMG1Z1		● FG-IR-BMG1Z1+UTY-LBHXD			● FG-IR-BMG1Z1+ UTY-TRHX	● FG-IR-BMG1Z1+ UTB-YWC	● FG-IR-BMG1Z1+UTY-TRHX			
	KNX® converter		● UTY-VKSX												
			● UTY-VKGX FG-TL-KNX16Z1												
	KNX® interface	 	● FG-AC-KNX1Z1												
			● FG-IR-KNX1Z1+UTY-TRHX		● FG-IR-KNX1Z1		● FG-IR-KNX1Z1+UTY-LBHXD			● FG-IR-KNX1Z1+ UTY-TRHX	● FG-IR-KNX1Z1+ UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX			
	WLAN adapter		● UTY-TFSXJ3							● UTY-TFSXJ3 (007-024)		● UTY-TFSXJ3			
		 	● FG-AC-WIF1Z1												
			● FG-IR-WIF1Z1+UTY-TRHX		● FG-IR-WIF1Z1		● FG-IR-WIF1Z1+UTY-LBHXD			● FG-IR-WIF1Z1+ UTY-TRHX	● FG-IR-WIF1Z1+ UTB-YWC	● FG-IR-WIF1Z1+UTY-TRHX			
		 	● FG-AC-WMP1Z1												
			● FG-IR-WMP1Z1+UTY-TRHX		● FG-IR-WMP1Z1		● FG-IR-WMP1Z1+UTY-LBHXD			● FG-IR-WMP1Z1+ UTY-TRHX	● FG-IR-WMP1Z1+ UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX			
	External switch controller		● UTY-TERX												

Controller System List (available) for VRF

Controller Options:



Type	Refrigerant	Indoor unit				Indoor unit					
		Floor		Ceiling/ Floor	Ceiling	Wall-mounted					
		EEV Internal	EEV External			EEV Internal		EEV External	EEV Internal	EEV External	EEV Internal
						ASHA 004/005/007/009/012/014 HCAH		ASHE 004/005/007/009/012/014 HCAH			
		AGHA 004/007/009/012/014 GCGH	AGHE 004/007/009/012/014 GCEH	ABHA 012/014/018/024 GTEH	ABHA 030/036/045/054 GTEH	ASHA 004/007/009 GCGH		ASHE 004/007/009 GCEH	ASHA012/014GCGH	ASHE012/014GCEH	ASHA18/24GBCH ASHA030/034GTEH
Interfaces	BACnet® gateway		● UTY-ABGXZ1, UTY-VBGX				● UTY-ABGXZ1, UTY-VBGX				
			● FG-AC-BAC1Z1				● FG-AC-BAC1Z1				● FG-AC-BAC1Z1
			● FG-IR-BMG1Z1				● FG-IR-BMG1Z1				
	Network converter for LonWorks™		● UTY-VLGX				● UTY-VLGX				
			● UTY-VMSX				● UTY-VMSX				● UTY-VMSX
	MODBUS® interface		● FG-AC-MBS1Z1				● FG-AC-MBS1Z1			● FG-RC-MBS1Z1	● FG-AC-MBS1Z1
			● FG-IR-BMG1Z1				● FG-IR-BMG1Z1				
			● UTY-VKSX				● UTY-VKSX				● UTY-VKSX
	KNX® interface		● FG-AC-KNX1Z1				● FG-AC-KNX1Z1			● FG-RC-KNX1Z1	● FG-AC-KNX1Z1
			● FG-IR-KNX1Z1				● FG-IR-KNX1Z1				
	WLAN adapter		● UTY-TFSXJ3				● UTY-TFSXJ3				● UTY-TFSXJ3
			● FG-AC-WIF1Z1				● FG-AC-WIF1Z1			● FG-RC-WIF1Z2	● FG-AC-WIF1Z1
			● FG-IR-WIF1Z1				● FG-IR-WIF1Z1				
			● FG-AC-WMP1Z1				● FG-AC-WMP1Z1			● FG-AC-WMP1Z1	● FG-AC-WMP1Z1
			● FG-IR-WMP1Z1				● FG-IR-WMP1Z1				
	External switch controller		● UTY-TERX				● UTY-TERX				

Optional Parts Overview

For Split & Multi-split, VRF

A variety of optional parts are available to enable installation of the selected indoor unit properly according to the environment.

Optional Parts For Cassette



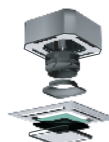
Occupancy sensor kit

A built-in thermo sensor monitors and controls room temperature accurately.



Cassette grille

A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.



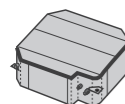
Silver ion filter

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



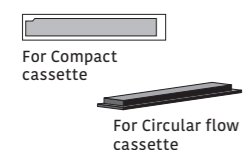
Fresh air intake kit

Fresh air can be taken in by a fan connected to an external control unit.



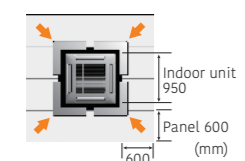
Insulation kit for high humidity

Insulation kit for high humidity is used when the installation location is in a high humidity environment.



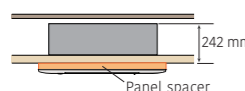
Air outlet shutter plate

Airflow directions can be changed to 3 directions using the Air outlet shutter plate depending on the installation location.



Wide Panel

When a cassette type is installed in a narrow space in the ceiling, the wide panel fills in that space.



Panel spacer

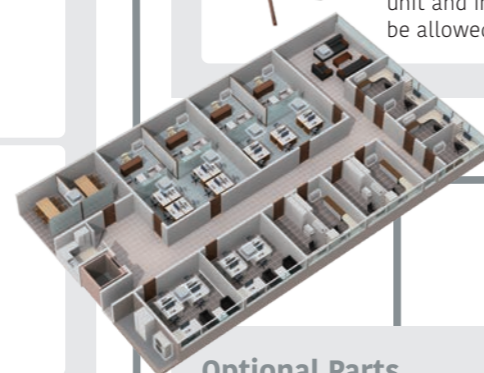
If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

Optional Parts For V-IV



Pressure sensor kit

When installed, the height difference between the outdoor unit and indoor unit can be allowed up to 110 m.



Optional Parts For R32 VRF products



Gas Sensor kit

Used to ensure standards compliance and safety when R32 VRF products are installed.



Expansion kit

Connect to indoor units to expand the number of inputs and outputs when using multiple safety devices or external input / output functions.

Optional Parts For Floor



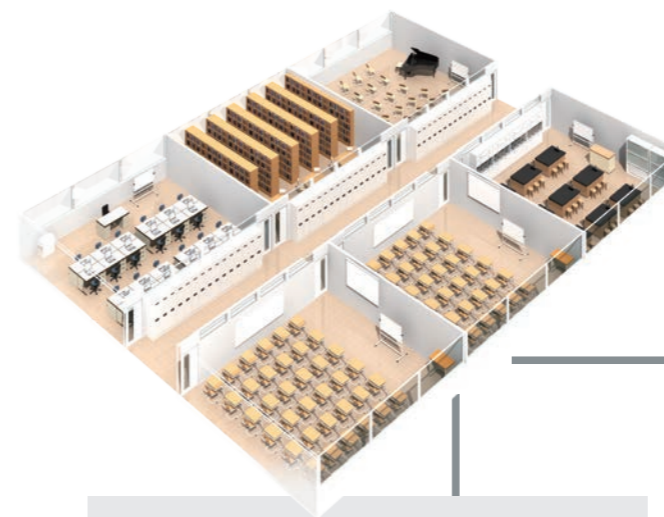
Half concealed kit

Used to half conceal a floor type indoor unit in the wall.



Silver ion filter

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*

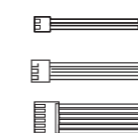


Optional Parts For Common



Remote sensor unit

Detects the room temperature around the sensor. Used to construct systems that improve comfort. (See the options list for compatible devices.)



External connect kit & set

Connect the printed circuit board (PCB) to external devices.



Connection Units

Connection units are available to separate the pipes when connecting multiple indoor units in a Multi-split type or VRF system.



External power supply unit

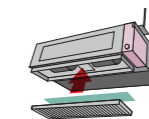
The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

Optional Parts For Duct & Ceiling



Auto louver grille kit

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



Silver ion filter

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



Long-life filter

Captures grit and dust. Long-life design with consideration of running costs.



Flange

Flanges are used when connecting a medium static pressure duct type and a ceiling type with air intake and exhaust ducts.



Drain pump unit

Drains water that has accumulated during operation.

Connection Parts



Communication kit

Required for a wall-mounted type when the External connect kit set or a Wired remote controller is connected to the indoor unit.



External input and output PCB

For Wall-mounted, Duct, or Cassette type, these parts are required when the external input and output function is used.



External input and output PCB box & bracket

Box and bracket for installing the External input and output PCB.

*Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganism, but do not prevent infection.



Silver Ion Filter

UTR-FA16-5 / UTR-FA13-3 / UTR-FA03-5 / UTD-HFAA / UTD-HFRA / UTD-HFTA / UTD-HFTB / UTD-HFTC / UTD-HFNC / UTD-HFNB / UTD-HFNA / UTD-HFND / UTD-HFKB / UTD-HFKA



For Wall-mounted / Floor
UTR-FA16-5 / UTR-FA13-3
UTR-FA03-5

For Cassette
UTD-HFAA / UTD-HFRA

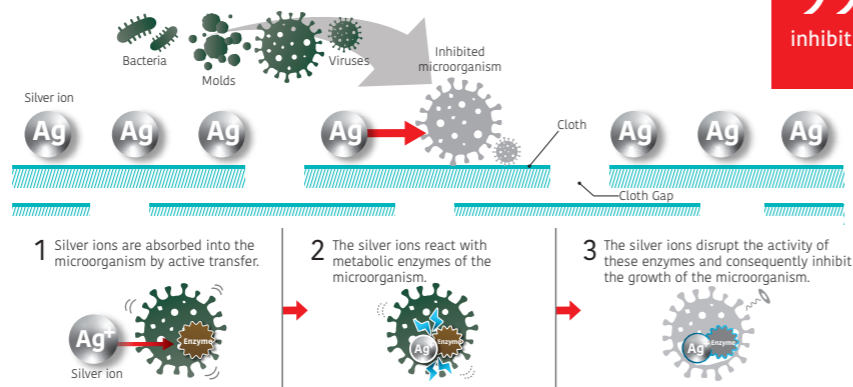
For Duct
UTD-HFTA / UTD-HFTB
UTD-HFTC / UTD-HFNC
UTD-HFNB / UTD-HFNA
UTD-HFND / UTD-HFKB
UTD-HFKA

The Silver Ion Filter Helps to Keep Indoor Air Free from Viruses, Bacteria and Molds.

(Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganism, but do not prevent infection.)

The Silver Ion Filter Inhibits The Activities of Viruses*¹, Bacteria*² and Molds*³ Trapped on the Filter.

(Only effective when the microorganism is trapped on the filter with dust or droplet)



*¹ [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0408 [Test virus] Escherichia coli phage Qbeta NBRC 20012 (1 type) [Test Method] Based on the antiviral test method for textile products (JIS L 1922) [Test results] Inhibited by at least 99% in 24 hours. Not tested to prevent transmission of SARS-CoV-2.

*² [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0409 [Test bacteria] Escherichia coli NBRC 3972 (1 type) [Test Method] Based on the determination of antibacterial activity and efficacy of textile products (JIS L 1902) [Test results] The growth of the test bacteria was inhibited by 24 hours testing

*³ [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0410 [Test fungi] Aspergillus Niger NBRC 105649 and other fungi (3 types) [Test Method] Based on the test for fungus resistance (JIS Z 2911) [Test results] The growth of the fungus was inhibited by 28 days testing

The Filter is Easily Removable* and Hand-Washable.

(*Wall-mounted and floor models only)



*⁴ Hand-washing or vacuuming by 3 months is recommended. Cleaning frequency varies depending on the environment of use.

Specifications

Model name		For Wall-mounted / Floor			for Cassette	
		UTR-FA16-5	UTR-FA13-3	UTR-FA03-5	UTD-HFAA	UTD-HFRA
Net Dimension (H × W × D)	mm	35 × 210 × 6	50 × 364 × 6	43 × 272 × 6	350 × 125 × 6	550 × 136 × 6
Weight	g	2	2	2	7	23
Quantity		2	2	2	1	1

Model name		for Duct								
		UTD-HFTA	UTD-HFTB	UTD-HFTC	UTD-HFNC	UTD-HFNB	UTD-HFNA	UTD-HFND	UTD-HFKB	UTD-HFKA
Net Dimension (H × W × D)	mm	290 × 70 × 6	390 × 70 × 6	290 × 70 × 6 390 × 70 × 6	620 × 88 × 6	420 × 88 × 6	620 × 88 × 6	500 × 79 × 6	420 × 125 × 6	620 × 108 × 6
Weight	g	6	8	10	8	10	16	12	16	20
Quantity		2	2	3	1	2	2	2	2	2

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.



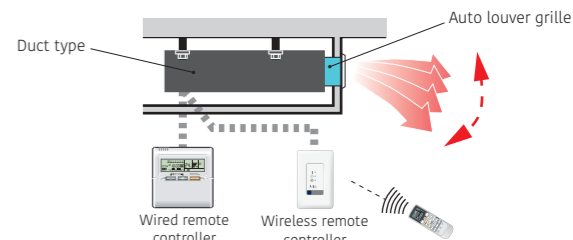
Closed louver



Open louver

Flexible Control

- The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.
- Vertical auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- Auto-closing louver**
The louvers will automatically close when the indoor unit stops operating.



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	Split & Multi-split		ARHG07/09LLTA ARXG07/09/12/14KSLAP ARXG07/09/12/14KLLAP ARHG07/09LSLAP	ARXG18KSLAP ARXG18KLLAP	
	VRF		ARXD007/009/012/014GLEH ARXK004/007/009/012/014GLGH ARXD04GALH ARXD004/005/007/009/012/014HLAH ARXP009/012/014HLAH	ARXD018GLEH ARXD018HLAH ARXK018GLGH	ARXD024GLEH ARXD024HLAH ARXK024GLGH
Power supply			Connecting with Control box of indoor unit		
Fixing Auto louver grille			Screwed to Flange or Square duct		
Extension Square duct limit			1.0 m (Max. duct length between indoor unit and Auto louver grille)		
Net Dimensions (H × W × D)		mm	180 × 683 × (84 + 9)	180 × 883 × (84 + 9)	180 × 1,083 × (84 + 9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
Accessories			Fitting Flame, etc.		
Operating range	Cooling	°C	18 to 32		
		% RH	80 % or less		
	Heating	°C	16 to 30		

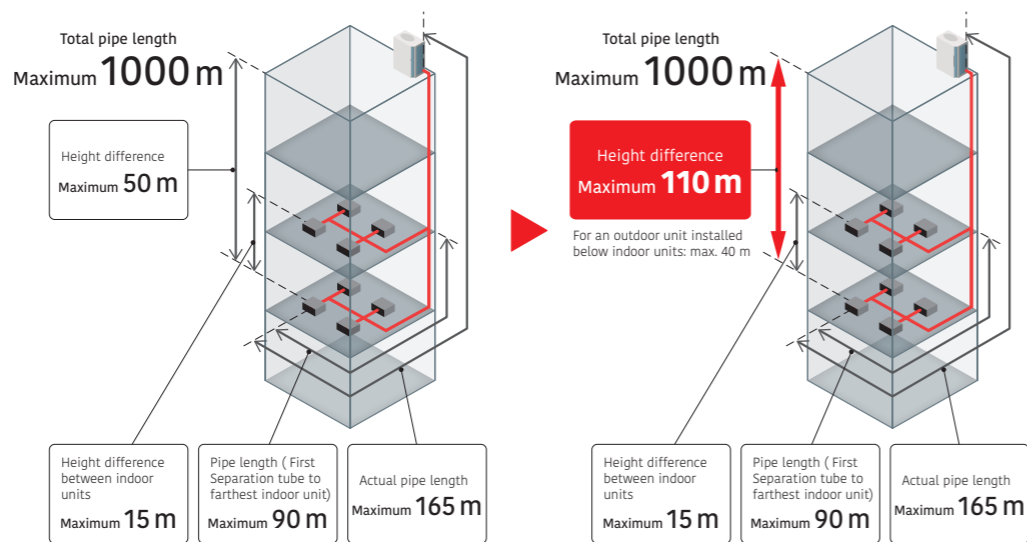
Pressure Sensor Kit

UTY-SPWX

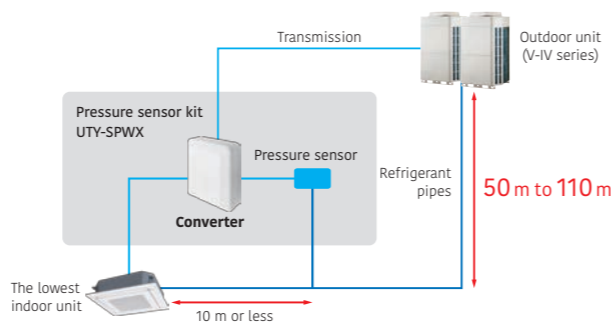


Design Flexibility

The height difference between the outdoor unit and the indoor unit is normally 50 m for the V-IV series, but can be extended to 110 m by installing the Pressure sensor kit. (Can only be connected to the V-IV series. Also, it can only be connected to outdoor units using outdoor unit software compatible with the product.)



System Overview



Pressure Sensor Kit

Pressure sensor kit (Converter)	Refrigerant pressure sensor	Joint pipe

Specifications

Model name	UTY-SPWX
Power supply	9 to 16 V DC
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200

External Power Supply Unit

UTZ-GXXA / UTZ-GXXC

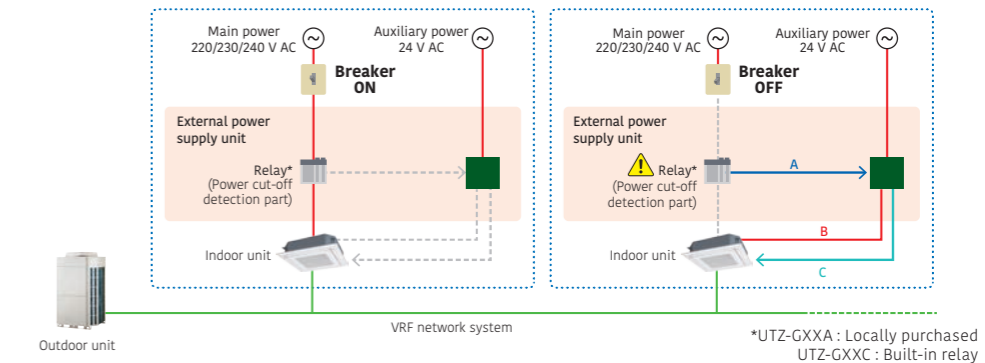


The External Power Supply Unit Protects The Increment in The System Even If The Power Supply for Some of The Indoor Units is Shut Down.

Connects to the External power supply unit to supply power to the indoor unit from the auxiliary power supply. This allows for continuous operation without system errors. Built-in relays reduce installation time and cost. The UTZ-GXXC have a built-in relay, which reduces installation time and cost.

High Reliability

- A: Interruption of the main power supply is detected by the power cut-off detection part.
- B: Supplies power for driving the expansion valve of the indoor unit. (12 V or 5 V DC)
- C: Gives notification of the power supply from the External power supply unit.



Note

- When changing the power supply voltage to 24 V AC, use a power transformer with an insulated structure that complies with the regulations* of the installation region.
- A powered-off indoor unit driven by the External power supply unit is treated in the same way as an operation-off unit in the electricity charge appointment function. If standby power is generated, the result of the electricity charge appointment may not be zero.

* UL Class II or IEC 61558 Class III, for example.

Specifications

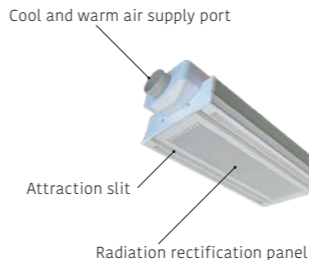
Model name	UTZ-GXXA	UTZ-GXXC
Power supply	24 V AC 50/60 Hz	
Dimensions (H × W × D) (mm)	97 × 200 × 178	
Weight (g)	800	

AIR BEAM Radiation Air Outlet Unit

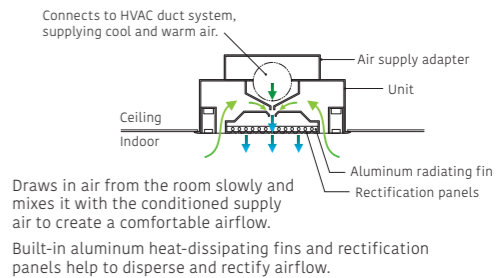
*Production by order
Contact us for more details.



Key component



Cross-section view



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

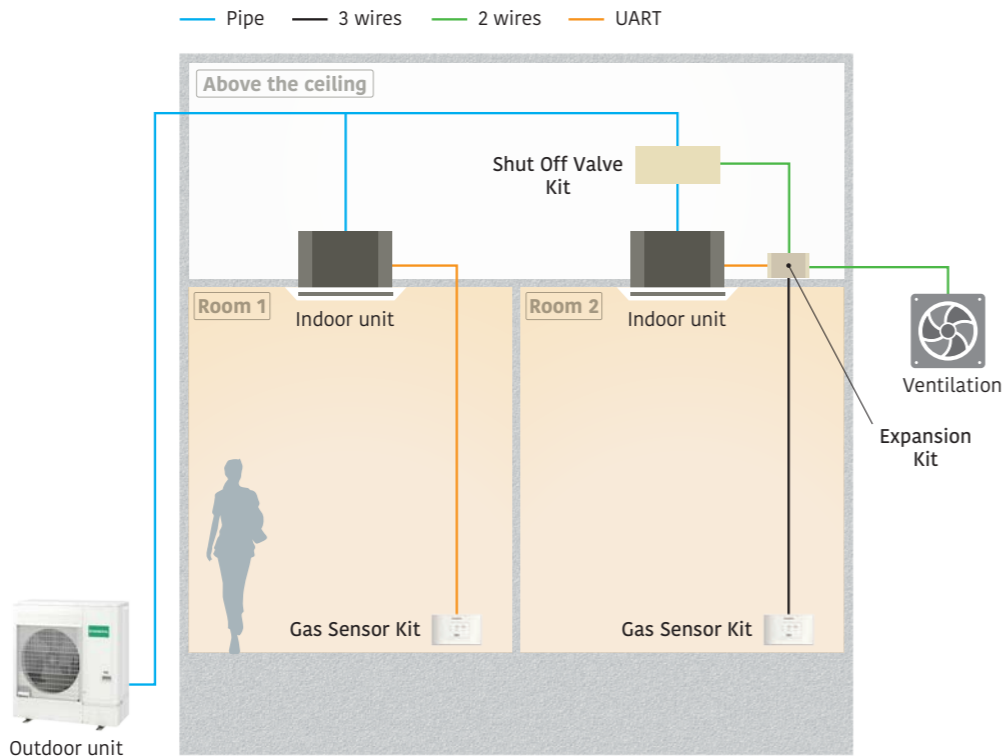
Gas Sensor kit

UTY-SGZH



Enhanced Safety measures for R32

The system is designed to meet the environmental safety requirements specified in the IEC 603352-40 standard for the use of R32 refrigerant. The environment requiring safety measures is determined by the size of the room in relation to the amount of refrigerant required.



Shut off valve kit
UTP-GX027A, UTP-GX060A

Block the path to prevent refrigerant flow in the event of a refrigerant leakage.

Expansion kit
UTZ-JXXA

Used to ensure standards compliance and safety when R32 VRF products are installed.

Gas sensor kit
UTY-SGZH*

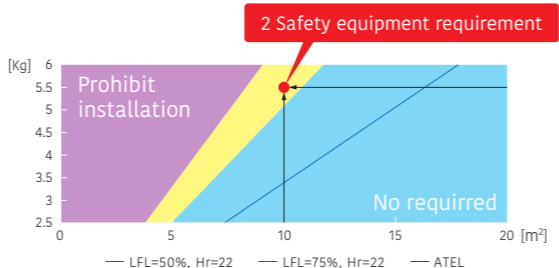
Used to ensure standards compliance and safety when R32 VRF products are installed.
*Direct connection of the gas sensor kit to the indoor unit requires the UTY-XWZXZL connection cable.

Conditions Requiring Safety Measures

When installing R32 VRF products, it is necessary to determine whether safety design is required. Conditions include the amount of refrigerant filled in the product and floor area. For details on how to confirm whether safety design is required, refer to the Design & Technical Manual.

Except lowest underground floor

For example, if a product with a total refrigerant charge of 5.5 kg is installed in a small room of 10 m², two safety devices are required as it falls within the yellow area of the graph.



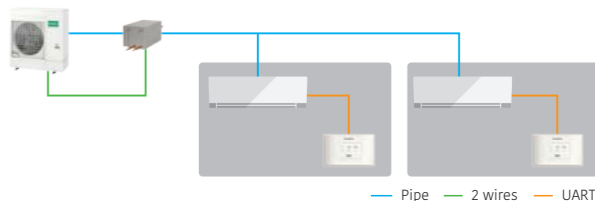
Features: Gas sensor kit

Connection pattern

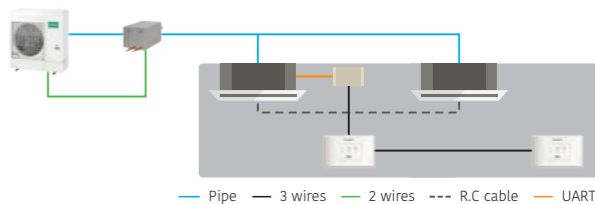
1) Corresponds to the case where the classification of air conditioner installation differs from property to property.

Installation position of “Shut off valve kit”

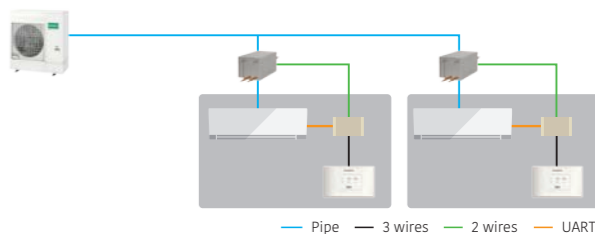
For all system shut-off



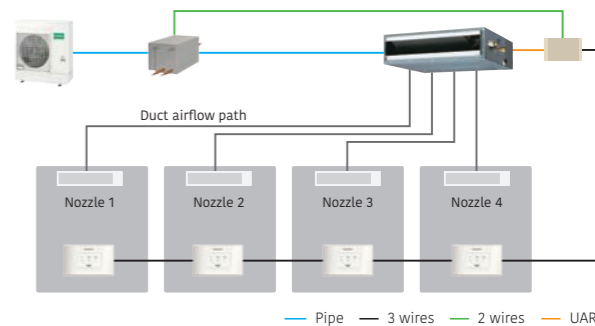
For R.C group shut-off



For several room shut-off



2) Multiple rooms or areas are air conditioned using ducted airflow paths





















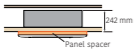














Specifications

Model name	UTY-SGZH
Dimensions (H × W × D) (mm)	80 × 130 × 35
Weight (g)	200











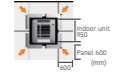
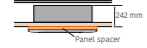






Optional Parts List for Split/Multi-split



Type	Refrigerant	Indoor unit											
		Wall-mounted					Wall-mounted				Cassette		
	Designer Range			Standard Range		Standard Range		ECO Range				Compact 4-way flow range	Circular Flow Range
		ASHH07/09/12/14KGTG, ASHG07/09/12/14KGTG, ASHG07/09/12/14KGTE	ASHH07/09/12/14 KJCAL, KJCALB, XXXX07/09/12/14 KJCA, KJCA-B	ASHG07/09/12/14 KETF, KETF-B, KETE, KETE-B	ASHH07/09/12/14 KMCG, KMCG-B, ASHG07/09/12/14KMCF, ASHG07/09/12/14KMCE	ASHG18/24KMTE	ASHH30/36KMTB	ASHH05/07/09/12KNCA	ASHG07/09/12KPCE	ASHH07/09/12KLTA	ASHG18/24KLCA	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB
													
Occupancy sensor kit												 UTY-SHZXC	
Remote sensor unit	 The remote sensor provides additional convenience.												
Cassette grille	 UTG-UFGF-W UTG-UKGA-W UTG-UFGD-W UTG-UKGC-W UTG-UKGA-B										 UTG-UFGF-W	 UTG-UKGA-W, UTG-UKGC-W, UTG-UKGA-B	
Auto louver grille kit													
Silver ion filter		 UTR-FA16-5					 UTR-FA13-3	 UTR-FA16-5				 UTD-HFAA	 UTD-HFRA
Long-life filter													
Flange													
Drain pump unit													
Wide Panel	 Indoor unit 600 Panel 600 (mm)											 UTG-AKXA-W	
Panel spacer	 142 mm 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 Circular flow cassette										 UTR-YDZB	 UTR-YDZK	
Insulation kit for high humidity											 UTZ-KXGC	 UTZ-KXRA	
Half concealed kit	 Used to half conceal a floor type indoor unit in the wall.												
L-type piping kit													






















Optional Parts List for Split/Multi-split



Type	Refrigerant	Indoor unit						Floor	Ceiling	Indoor unit		
		Duct					Duct			4-way flow Compact cassette	Multi-split	
	Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure	Big	Mini duct	Slim duct				
		ARXG 09/12/14/18 KLLAP	ARXH 12/14/18/22/24/ 30/36/45/54 KMTAP	ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG45/54KHTB		AGHG09/12/14KVCA	ABHG 18/22/24/30/36/45/54 KRTA	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP
					ARHG60LHTA	ARHG72/90LHTA			AUHG07/09LVLA	ARHG07/09LSLAP	ARHG07/09LLTA	
Occupancy sensor kit												
Remote sensor unit	 The remote sensor provides additional convenience.	● UTY-XSZXZ1									● UTY-XSZXZ1	
Cassette grille										● UTG-UFGF-W (KVLA), UTG-UFGD-W (LVLA)		
Auto louver grille kit		● UTD-GXTA-W (09/12/14) UTD-GXTB-W (18)									● UTD-GXTA-W (07/09/12/14), UTD-GXTB-W (18)	
Silver ion filter		● UTD-HFTA (09/12/14) UTD-HFTB (18)	● UTD-HFNC (12/14/18) UTD-HFNB (22/24), UTD-HFNA(30/36/45/54)	● UTD-HFNC (12/14) UTD-HFNB (18/22/24/30) UTD-HFNA (36/45/54)	● UTD-HFND	● UTD-HFKB (45/54)	● UTD-HFKA	● UTR-FA03-5		● UTD-HFAA	● UTD-HFTA (07/09/12/14) UTD-HFTB (18)	● UTD-HFTA
Long-life filter			● UTD-LFDC (12/14/18) UTD-LFDB (22/24), UTD-LFDA (30/36/45/54)	● UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14)	● UTD-LF25NA	● UTD-LF60KA (45/54)	● UTD-LFKA					
Flange					● UTD-SF045T UTD-RF204							
Drain pump unit					● UTZ-PX1NBA		● UTZ-PX1NAB		● UTR-DPB24T			
Wide Panel												
Panel spacer												
Fresh air intake kit	 For Compact cassette For Circular flow cassette									● UTZ-VXAA		
Air outlet shutter plate	 For Compact cassette  For Circular flow cassette									● UTR-YDZB		
Insulation kit for high humidity										● UTZ-KXGC		
Half concealed kit	 Used to half conceal a floor type indoor unit in the wall.						● UTR-STA					
L-type piping kit									● UTP-FX24A (18/22/24) UTP-FX35A (30/36/45/54)			

Optional Parts List for VRF



Type	Refrigerant	Indoor unit							Indoor unit								
		Cassette							Duct								
	1-way Flow	3D flow	Compact type	High Efficiency	Circular Flow Range			Mini Duct		Slim Duct		Low static pressure		Medium static pressure	High static pressure		
					Slim type	Large type						High Efficiency	High Efficiency		Normal	Normal	
				AUXB 004/005/007/009/ 012/014/018 HLAH	AUXN 009/012/014 HLAH						ARXD 004/005/007/009/ 012/014/018/024 HLAH	ARXP 009/012/014 HLAH					
		AUXV 004/007/009/012/ 014/018/024 GLEH	AUXS018/024GLEH	AUXB 004/007/009/012/ 014/018/024 GLEH		AUXM 018/024/030 GLEH	AUXK 018/024/030/034/ 036/045/054 GLEH			ARXK 004/007/009/012/ 014/018/024 GLGH	ARXD04GALH	ARXD 007/009/012/ 014/018/024 GLEH		ARXP018/030GLFH	ARXA 024/030/036/045 GLEH	ARXC 036/045/060 GTEH	ARXC 072/090/096 GTEH
Occupancy sensor kit						● UTY-SHZXC											
Remote sensor unit		● UTY-XSZXZ1															
Cassette grille		● UTG-UNGA-W (004-012) UTG-UNGB-W (014-024)	● UTG-USGA-W	● UTG-UFGE-W UTG-UFGC-W UTG-UFGB-W (for R32 models)	● UTG-UFGB-W	● UTG-UKGC-W UTG-UKGA-B											
Auto louver grille kit									● UTD-GXTA-W (4-14), UTD-GXTB-W (18), UTD-GXTC-W (24)								
Silver ion filter				● UTD-HFAA		● UTD-HFRA			● UTD-HFTA(004-014) UTD-HFTB (018) UTD-HFTC (024)	● UTD-HFTA	● UTD-HFTA(007-014) UTD-HFTB (018) UTD-HFTC (024)		● UTD-HFND		● UTD-HFKB		
Long-life filter													● UTD-LF25NA		● UTD-LF60KA		
Flange													● UTD-SF045T UTD-RF204				
Drain Pump Unit													● UTZ-PX1NBA				
Wide Panel						● UTG-AKXA-W											
Panel spacer						● UTG-BKXA-W											
Fresh air intake kit*1				● UTZ-VXAA		● UTZ-VXRA											
Air outlet shutter plate:				● UTR-YDZB		● UTR-YDZK											
Insulation kit for high humidity				● UTZ-KXGC		● UTZ-KXRA											
Half concealed kit																	
External power supply unit		● UTZ-GXXA UTZ-GXXC		● UTZ-GXXA UTZ-GXXC (for R410A models)		● UTZ-GXXA UTZ-GXXC		● UTZ-GXXA UTZ-GXXC				● UTZ-GXXA UTZ-GXXC (for R410A models)			● UTZ-GXXA UTZ-GXXC		
Pressure sensor kit																	
Gas sensor kit				● UTY-SGZH+ UTY-XWZXZL* (for R32 models)							● UTY-SGZH+ UTY-XWZXZL* (for R32 models)		● UTY-SGZH+ UTY-XWZXZL*				
Shut off valve kit				● UTP-GX027A UTP-GX060A (for R32 models)							● UTP-GX027A UTP-GX060A (for R32 models)						
Expansion kit				● UTZ-JXXA (for R32 models)							● UTZ-JXXA (for R32 models)						

*Directly connecting the gas sensor kit to the indoor unit requires the UTY-XWZXZL connection cable.

Optional Parts List for VRF





Type	Refrigerant	Indoor unit				Indoor unit Wall-mounted				Outdoor unit
		Floor		Floor/Ceiling	Ceiling	EEV Internal	EEV External	EEV Internal	EEV Internal	V-IV series
		EEV Internal	EEV External							
						ASHA 004/005/007/009/012/014 HCAH	ASHE 004/005/007/009/012/014 HCAH			
		AGHA 004/007/009/012/014 GCGH	AGHE 004/007/009/012/014 GCEH	ABHA 012/014/018/024 GTEH	ABHA 030/036/045/054 GTEH	ASHA 004/007/009012/014 GCGH	ASHE 004/007/009012/014 GCEH	ASHA18/24GBCH	ASHA030/034GTEH	AJH 072/090/108/126/144/162 LALDH
Occupancy sensor kit										
Remote sensor unit				● UTY-XSZXZ1		● UTY-XSZXZ1				
Cassette grille										
Auto louver grille kit										
Silver ion filter		● UTR-FA03-5				● UTR-FA16-5		● UTR-FA13-3		
Long-life filter										
Flange					● UTD-RF204					
Drain Pump Unit					● UTR-DPB24T					
Wide Panel										
Panel spacer										
Fresh air intake kit*1										
Air outlet shutter plate:										
Insulation kit for high humidity										
Half concealed kit		● UTR-STA								
External power supply unit		● UTZ-GXXA UTZ-GXXC				● UTZ-GXXA UTZ-GXXC (for R410A models)		● UTZ-GXXA UTZ-GXXC		
Pressure sensor kit										● UTY-SPWX
Gas sensor kit						● UTY-SGZH+ UTY-XWZXZL* (for R32 models)				
Shut off valve kit						● UTP-GX027A UTP-GX060A (for R32 models)				
Expansion kit						● UTZ-JXXA (for R32 models)				

*Directly connecting the gas sensor kit to the indoor unit requires the UTY-XWZXZL connection cable.

Function List for Split/Multi-Split







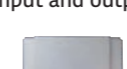


External input and output function/External connect kit/communication kit

Type		Refrigerant	Indoor unit										Indoor unit									
			Wall-mounted										Cassette		Duct			Duct				
			Designer Range			Standard Range			ECO Range				Compact 4-way flow Range	Circular flow Range	Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		Big	
		ASHH07/09/12/14KGTG, ASHG07/09/12/14KGTG, ASHG07/09/12/14KGTG	ASHH 07/09/12/14 KJCAL,KJCALB	ASHG 07/09/12/14 KETF, KETF-B	ASHH07/09/12/14KMCB, KMCB-B, ASHG07/09/12/14KMCB, ASHG07/09/12/14KMCB	ASHG 18/24 KMTE	ASHH 30/36 KMTB	ASHH 07/09/12 KNCA	ASHG 07/09/12 KPCE	ASHH 07/09/12 KLTA	ASHG 18/24 KLCA	AUXG 09/12/14/18/22/24 KVLB	AUXG 18/22/24/30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXH 12/14/18/22/24/30/36/45/54 KMTAP	ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG45/54KHTB				
																			ARHG60LHTA	ARHG72/90LHTA		
Input	Operation/Stop	● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5										● PCB Terminal or ○ UTY-XCSX+UTZ-GXRA		● PCB Terminal	● PCB Terminal or ○ UTY-XCSX+UTZ-GXDA	● PCB Terminal or ○ UTY-XCSX+UTZ-GXNA	● PCB Terminal	● PCB Terminal or ○ UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● PCB Terminal or ○ UTY-XCSX		
	Forced stop	● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5										● PCB Terminal				● PCB Terminal		● UTD-ECS5A	● PCB Terminal			
	Forced Thermostat off	●○ UTY-XCSXZ2+ UTY-XWZXZ5										●○ UTY-XCSX+UTZ-GXRA			●○ UTY-XCSX+UTZ-GXDA	●○ UTY-XCSX+UTZ-GXNA	●○ UTY-XCSX+UTZ-GXNA	● UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● UTY-XCSX		
	Low noise mode operation																					
	Outdoor unit operation peak control																					
Output	Operation status	● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5										● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA	● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	○ UTD-ECS5A	● UTY-XWZXZG or UTY-XCSX		
	Error status	● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5										● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA			● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA				
	Compressor status																					
	Indoor unit fan operation status	● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5										● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA	● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● UTY-XWZXZG or UTY-XCSX		
	Setpoint attainment status																					
	Auxiliary heater output												● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA		● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA	● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● UTY-XWZXZG or UTY-XCSX	

*1: Included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) *2: Functionality for installation in a server room

●: Dry Contact ○: Apply Voltage



For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

Communication kit		External input and output PCB		External input and output PCB box			External input and output PCB bracket	
								
UTY-TWRXZ3	UTY-TWRXZ2	UTY-XCSXZ1 (wire length 280 mm)	UTY-XCSXZ2 (wire length 80 mm) for Wall-mounted type	UTY-XCSX for Duct and Cassette types	UTZ-GXDA (for Duct)	UTZ-GXRA (for Cassette)	UTZ-GXEA (for Ceiling)	UTZ-GXNA

Function List for Split/Multi-Split



External input and output function/External connect kit/communication kit

Type		Indoor unit		Multi-split				Multi-split		Outdoor unit						
		Floor	Ceiling	Wall-mounted		Mini duct	Slim duct		Compact cassette		Single Split			Simultaneous multi-split		
		AGHG 09/12/14 KVCA	ABHG 18/22/24/30/ 36/45/54 KRTA	ASHH05 KJCAL,KJCALB ASHH05 KJCA,KJCA-B	ASHG22KMTE	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP		AUXG07KVLA	AOHG30/36/45/54KBTB, AOHG36/45/54KRTA			AOHG36/45/54KBTB, AOHG36/45/54KRTA			
					ARHG 07/09LSLAP		ARHG07/09LLTA	AUHG07/09LVLA		AOHG36/45/54/60LATT	AOHG45/54LBTA, AOHG72/90LRLA		AOHG36/45LBTB	AOHG36/45/54LATT		
Input	Operation/Stop	● UTY-XWZXZ5	● PCB Terminal or ○ UTY-XCSX+ UTZ-GXEA	● UTY-XWZX or ○ UTY-XCSXZ2+UTY-XWZXZ5		● PCB Terminal		● UTD-ECS5A		● PCB Terminal						
	Forced stop	● UTY-XWZXZ5	● PCB Terminal	● UTY-XWZX or ○ UTY-XCSXZ2+UTY-XWZXZ5		● PCB Terminal		● UTD-ECS5A		● PCB Terminal						
	Forced Thermostat off	● UTY-XWZXZ5	● UTY-XCSX+ UTZ-GXEA	●○ UTY-XCSXZ2+UTY-XWZXZ5												
	Low noise mode operation									● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3			○ UTY-XWZXZ2	
	Outdoor unit operation peak control									● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3			○ UTY-XWZXZ2	
Output	Operation status	● UTY-XWZXZ5	● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA	● UTY-XWZX or ○ UTY-XCSXZ2+UTY-XWZXZ5		● UTY-XWZXZG		● UTD-ECS5A		● UTY-XWZXZG						
	Error status	● UTY-XWZXZ5	● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA	● UTY-XWZX or ○ UTY-XCSXZ2+UTY-XWZXZ5						● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3			○ UTY-XWZXZ2	
	Compressor status									● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3			○ UTY-XWZXZ2	
	Indoor unit fan operation status	● UTY-XWZXZ5	● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA	● UTY-XWZX or ○ UTY-XCSXZ2+UTY-XWZXZ5		● UTY-XWZXZG		● UTD-ECS5A		● UTY-XWZXZG						
	Setpoint attainment status															
	Auxiliary heater output		● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA			● UTY-XWZXZG										

*1: Included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) *2: Functionality for installation in a server room ●: Dry Contact ○: Apply Voltage

Communication system

External connect kit						External control set					
For indoor unit			For outdoor unit			For indoor unit					
											
UTY-XWZX	UTY-XWZXZ5	UTY-XWZXZG	UTY-XWZXZ2	UTY-XWZXZ3		UTD-ECS5A					

Function List for VRF



External input and output function/External connect kit

Type	Refrigerant	Indoor unit						Indoor unit									
		Cassette						Duct						Floor		Floor/Ceiling	
		One-way flow	3D flow	Compact type	High Efficiency	Circular Flow Range		Mini Duct	Slim Duct	Low static pressure		Medium static pressure	High static pressure	EEV Internal	EEV External		
						Slim type	Large type			High Efficiency	High Efficiency	Normal	Normal				
				AUXB 004/005/007/ 009/012/014/ 018HLAH	AUXN 009/012/014 HLAH				ARXD 004/005/007/ 009/012/014/ 018/024 HLAH	ARXP 009/012/014 HLAH							
		AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH		AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLGH	ARXD 007/009/012/ 014/018/024 GLEH, ARXD04GALH		ARXP 018/030 GLFH	ARXA 024/030/ 036/045 GLEH	ARXC 036/045/060 072/090/096 GTEH	AGHA 004/007/ 009/012/014 GCGH	AGHE 004/007/ 009/012/014 GCEH	ABHA 012/014/018/ 024GTEH	ABHA 030/036/045/ 054GTEH
Input	Operation/Stop	● UTY-XWZXZD ○ UTY-XWZXZB															
	All On/All Off																
	Group stop																
	Forced stop	● UTY-XWZXZD ○ UTY-XWZXZB															
	Emergency stop	● UTY-XWZXZD ○ UTY-XWZXZB															
	Forced thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7															
	Low noise mode operation																
	Cooling/Heating priority																
	Outdoor unit operation peak control																
	Power usage information from electricity meter																
Output	Operation status	● UTY-XWZXZC															
	Error status	● UTY-XWZXZC															
	Indoor unit fan operation status	● UTY-XWZXZC															
	Auxiliary heater output							● UTY-XWZXZC									
	Base pan heater																
Safety measure	Ventilation Fan (IN/OUT)			●UTZ-JXXA+UTY-SGZH (for R32 models)				●UTZ-JXXA+UTY-SGZH (for R32 models)									
	Alarm out			●UTZ-JXXA+UTY-SGZH (for R32 models)				●UTZ-JXXA+UTY-SGZH (for R32 models)									

*2: The Touch panel controller has the functions of dry contact and voltage application, but the external connection kit described above is not necessary because the touch panel controller has an external input terminal block.

●: Dry Contact ○: Apply Voltage

For VRF

Expansion kit		Connection Cable	
UTZ-JXXA		UTY-XWZXZL	

Type	Refrigerant	Indoor unit				Outdoor unit						controller	Other	
		Wall-mounted				J-VS AJH 040/045/054 KCTAH, AJH 040/045/054 KFTAH	J-IVL	J-IV	J-IVS	V-IV	VR-IV	Central remote controller	RB unit	
	EEV Internal	EEV External	-											
		ASHA 004/005/007/009/012/014 HCAH	ASHE 004/005/007/009/012/014 HCAH											
	ASHA 004/007/009012/014 GCGH	ASHE 004/007/009012/014 GCEH	ASHA18/24GBCH	ASHA030/034GTEH		AJH 072/090/108/ 126/144/162 LELDH	AJH 040/045/054 LBLDH, AJH 040/045/054 LELDH	AJH 040/045/054 LCLDH	AJH 072/090/108/ 126/144/162 LALDH	AJH 072/090/108/ 126/144 GALDH	UTY-DCGGZ3	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH		
Input	Operation/Stop	● UTY-XWZXZD ○ UTY-XWZXZB												
	All On/All Off											● UTY-XWZXZ7 ○ UTY-XWZXZ8		
	Group stop					● UTY-XWZXZ6								
	Forced stop	● UTY-XWZXZD ○ UTY-XWZXZB												
	Emergency stop	● UTY-XWZXZD ○ UTY-XWZXZB					● UTY-XWZXZ6						● UTY-XWZXZ7 ○ UTY-XWZXZ8	
	Forced thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7												
	Low noise mode operation					● UTY-XWZXZ6								
	Cooling/Heating priority					● UTY-XWZXZ6							● UTY-XWZXZ6 ○ UTY-XWZXZB	
	Outdoor unit operation peak control					● UTY-XWZXZ6								
	Power usage information from electricity meter					● UTY-XWZXZF								
Output	Operation status	● UTY-XWZXZC					○ UTY-XWZXZ6						○ UTY-XWZXZA	
	Error status	● UTY-XWZXZC					○ UTY-XWZXZ6						○ UTY-XWZXZA	
	Indoor unit fan operation status	● UTY-XWZXZC												
	Auxiliary heater output													
	Base pan heater					● UTY-XWZXZ9				● UTY-XWZXZ9				
safety measure	Ventilation Fan (IN/OUT)	●UTZ-JXXA+UTY-SGZH (for R32 models)												
	Alarm out	●UTZ-JXXA+UTY-SGZH (for R32 models)												

●: Dry Contact ○: Apply Voltage

External connect kit				
For indoor unit UTY-XWZXZ7  UTY-XWZXZD  UTY-XWZXZB  UTY-XWZXZE  UTY-XWZXZC 	For outdoor unit UTY-XWZXZ6  UTY-XWZXZ9  UTY-XWZXZF 	For RB unit UTY-XWZXZ6  UTY-XWZXZB 	Central remote controller UTY-XWZXZ7  UTY-XWZXZ8  UTY-XWZXZA 	For Touch panel controller UTY-XWZXZA 

Separation Tube



For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

Separation tube	
UTP-SX236A / UTP-SX254A For 3-phase simultaneous multi-split UTP-SX272A For Simultaneous multi-split Twin / Triple / Double Twin	UTP-SX354A For 3-phase simultaneous multi-split UTP-SX372A For Simultaneous multi-split Twin / Triple / Double Twin



for VRF

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-BX090A Suction Gas pipe Discharge Gas pipe Liquid pipe	UTP-BX180A Suction Gas pipe Discharge Gas pipe Liquid pipe	UTP-BX567A Suction Gas pipe Discharge 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	UTP-J0906A / UTP-J1806A Suction gas pipe Discharge gas pipe Liquid pipe	UTP-J0908A / UTP-J1808A Suction gas pipe Discharge gas pipe Liquid pipe

Outdoor unit branch kit		Separation tube for RB unit	
UTP-CX567A Gas Pipe Liquid Pipe	UTP-DX567A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe	UTP-EX060A Gas Pipe Liquid Pipe	UTP-EX096A Gas Pipe Liquid Pipe



for VRF

EV kit		Shut off valve kit	
Model name \leq 09: UTR-EV09XB Model name \geq 12: UTR-EV14XB for compact wall-mounted type	Model name \leq 09: UTR-EV09XC Model name \leq 12: UTR-EV14XC for R32 VRF wall-mounted type	UTP-GX027A for R32 VRF indoor unit	UTP-GX060A for R32 VRF outdoor unit
RB unit			
UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type	UTP-RX04BH Multi-split type	UTP-RX08AH Multi-split type	UTP-RX12AH Multi-split 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-IV)		UTP-DX567A (for VR-IV)	
Number of outdoor units	2 outdoor units	1	2	
	3 outdoor units	2		

EV kit

Model name	UTR-EV09XB		UTR-EV14XB		UTR-EV09XC	UTR-EV14XC
Application model	ASHE004GCEH ASHE007GCEH ASHE009GCEH	AGHE004GCEH AGHE007GCEH AGHE009GCEH	ASHE012GCEH ASHE014GCEH	AGHE012GCEH AGHE014GCEH	ASHE004HCAH ASHE005HCAH ASHE007HCAH ASHE009HCAH	ASHE012HCAH ASHE014HCAH

RB unit

Type	Single type			Multi-split type		
Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	V/Ø/Hz					
Input power	W					
Number of branches	1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW					
Maximum capacity of connectable indoor units per branch (Q)	kW					
Maximum Connectable Indoor Units per Branch	3	8	8	8	7	7
Dimensions (H × W × D)	mm					
	198 × 298 × 268			260 × 658 × 428	298 × 660 × 618	298 × 990 × 618

*1: When two RB units are connected in series (8 branches in total), the maximum capacity of the connectable indoor units is up to 56.0 kW.

Shut off valve kit

Model name	UTP-GX027A		UTP-GX060A	
Power source	V/Ø/Hz		230/1/50	
Input power	W		24	
Number of branches	1		1	
Maximum number of connectable Expansion kit	kW		4	
Maximum capacity of connectable indoor units (Q)	kW		Q ≤ 18.0	
Maximum capacity of Connectable Indoor Units per Branch (Q)	kW		Q ≤ 18.0	
Dimensions (H × W × D)	mm		250 × 540 × 267	