

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

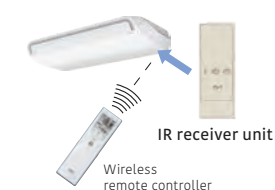
Simple and versatile operations with a choice of 4 different types of timers



Simple remote controller

Compact remote controller with basic functionality

For Ceiling type



For Duct type



For Cassette type



IR receiver unit

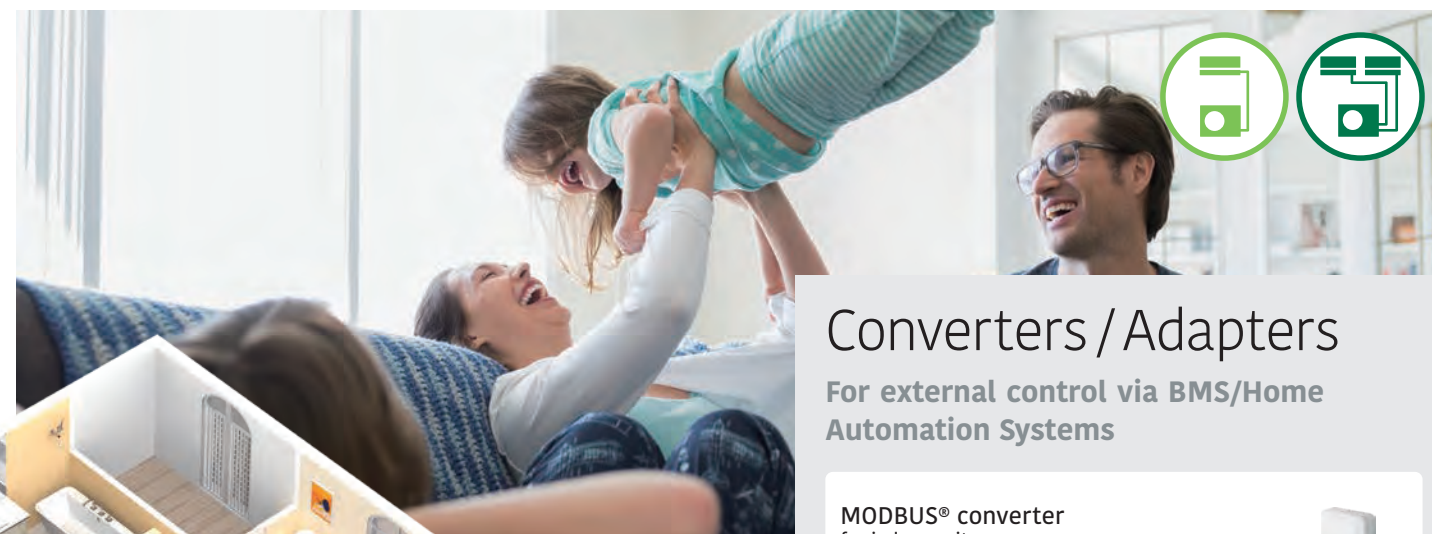
This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.

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.

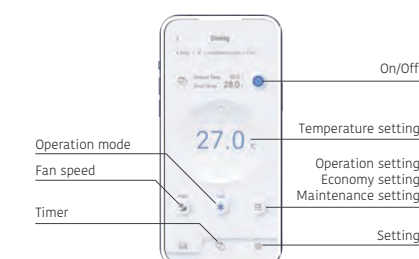


AIRSTAGE Mobile

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-RVRY



Wired remote controller
(with touch panel)
UTY-RNRYZ5



Wired remote controller
UTY-RLRY



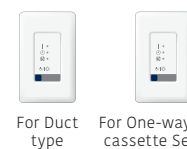
Compact wired remote controller
UTY-RCRYZ1



Simple remote controller
UTY-RSRY
UTY-RHRY
Without operation mode



Wireless Remote Controller
UTY-LNVY
UTY-LNHY



For Duct type



For One-way flow cassette Series/3D-flow cassette Series/duct type



for Circular flow cassette Series

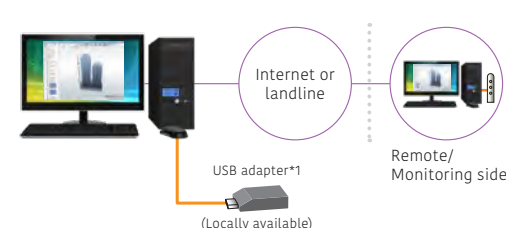
IR receiver unit

UTB-YWC
for duct type

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

UTY-LBHDX
for Circular flow cassette Series

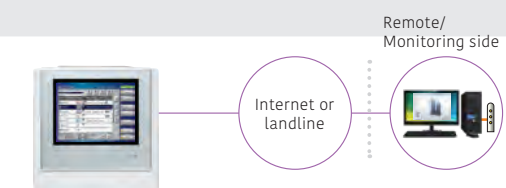
Air Conditioning Centralized control



System controller **Software**
UTY-APGXZ1/UTY-ALGXZ1 (Lite version)

Up to
1600
Indoor units^{*2}

*1: Echelon® U10 USB Network Interface
*2: The Lite version controls up to 400 indoor units.



Touch panel controller
UTY-DTGYZ1

Up to
400
Indoor units



Central remote controller
UTY-DCGYZ3

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



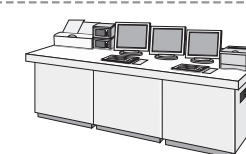
Card-key
(Locally available)



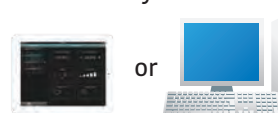
Internet device



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



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 UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RVNYM UTY-RCRYZ1	Central remote controller UTY-DCGYZ3	Touch panel controller UTY-DTGYZ1	System controller UTY-APGXZ1 UTY-ALGXZ1	Network converter for LonWorks™ UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® converter 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 rotation, 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 UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RCRYZ1	Simple remote controller UTY-RSRY UTY-RHRY	Wireless remote controller UTY-LNVY UTY-LNHV UTY-LNTY	Central remote controller UTY-DCGYZ3	Touch panel controller UTY-DTGYZ1	System controller UTY-APGXZ1 UTY-ALGXZ1	BACnet® gateway UTY-ABGXZ1 UTY-VBGX	Network converter for LonWorks™ UTY-VLGX	MODBUS® converter UTY-VMGX	KNX® converter UTY-VKGX	External switch controller 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 UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RCRYZ1	Simple remote controller UTY-RSRY UTY-RHRY	Wireless remote controller UTY-LNVY UTY-LNHV UTY-LNTY	Central remote controller UTY-DCGYZ3	Touch panel controller UTY-DTGYZ1	System controller UTY-APGXZ1 UTY-ALGXZ1	BACnet® gateway UTY-ABGXZ1 UTY-VBGX	Network converter for LonWorks™ UTY-VLGX	MODBUS® converter UTY-VMGX	KNX® converter UTY-VKGX	External switch controller 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 Human sensor for meeting room				●							●

Comparison table of controllers

Item																			
Model name		UTY-RVRY	UTY-RNRYZ5	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSRY	UTY-RHRY			UTY-LNTY	UTY-LNVY	UTY-LNHY	UTY-LNWX	UTY-DMMYM	UTY-DCGYZ3	UTY-DTGYZ1	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	●	●	●	●	●	—	—			●	●	●	●	●	●	●	●	●
	Human 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 detector	—	—	—	—	—	—	—			—	—	—	—	—	●	●	●	●
	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-DCGYZ3 only

●: Supported ○: Optional function —: Unsupported

Wired remote controller (Design type)

UTY-RVRY



Up to
16 indoor units
Up to
1 group



reddot winner 2024



Simple and stylish design that harmonizes with the space

- The new 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 LED Colors

When not in use, the operation mode is indicated through LED lamp colors shown under the controller. The LED 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

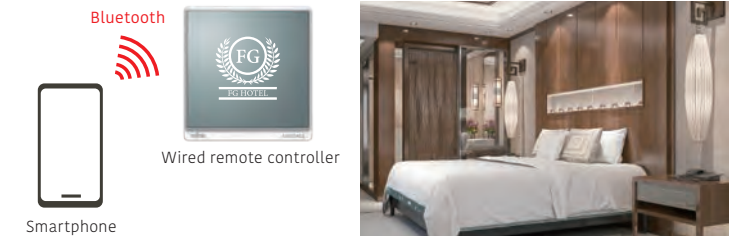
* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



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

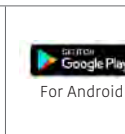
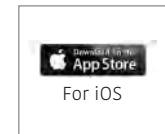
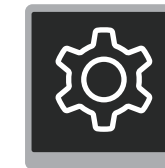


AIRSTAGE Remo Set application (free download)

Set up your new Wired Remote Controller via Bluetooth from your smartphone (or directly at the controller).

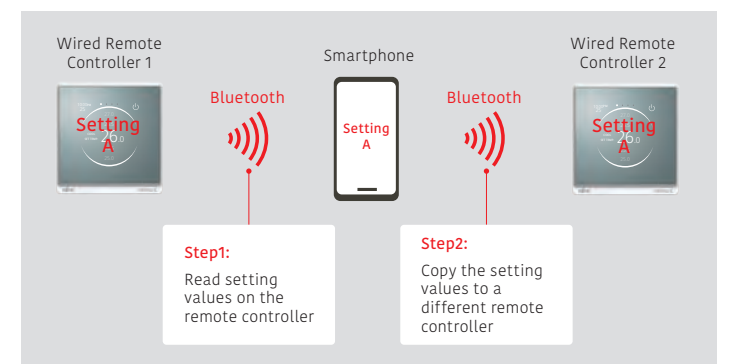
Features:

- 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-RVRY
Power Source	DC12V
Dimensions (H × W × D) (mm)	121.5 × 116 × 26
Weight (g)	225

Wired remote controller (with touch panel)

UTY-RNRYZ5



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.



Room temperature display
Room temperature sensor

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

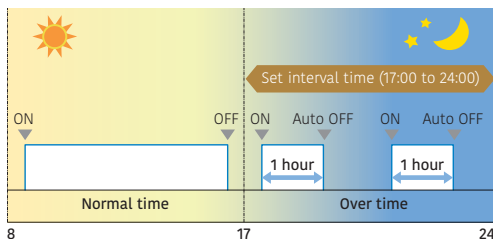
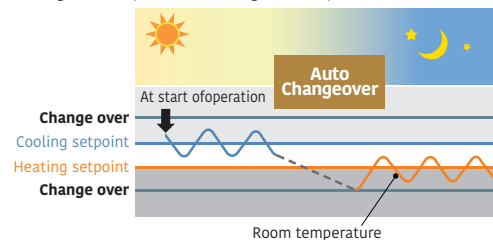
- While the Auto-off timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
- A desired time frame can be specified for the Auto-off timer.
- The off-time can be set from 30 to 240 minutes.

2-setting weekly timer

Set temperature auto return

Setting temperature range limitation

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



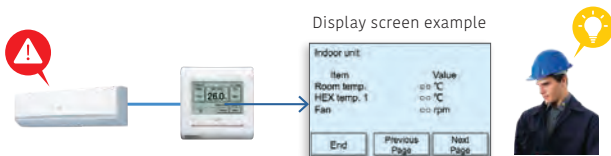
e.g.) Between 17:00 and 24:00 (over time hours), when the 1 hour set off time has elapsed, the system will automatically turn off the indoor unit as it has been judged to be "forgotten to turn off." Set off time for over time hours: 1 hour

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.

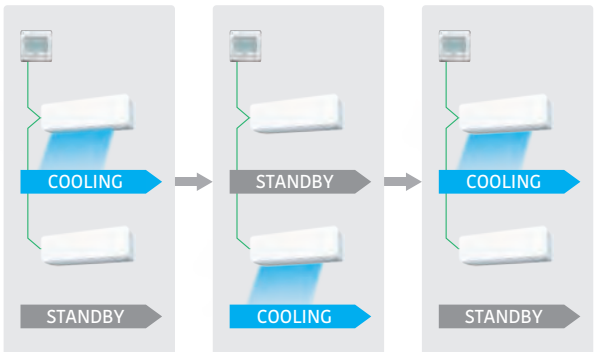
* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



Multi System Control*1

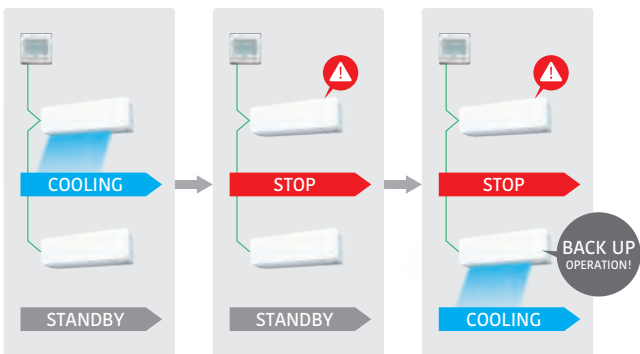
1) Lead Lag Operation

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



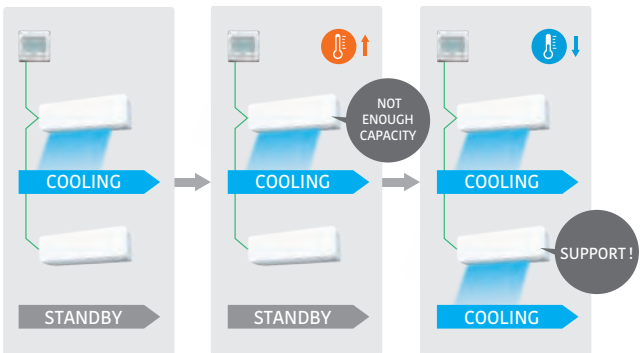
2) Back up operation

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-RNRYZ5
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-RLRY



Up to
16 indoor units
Up to
1 group

- 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

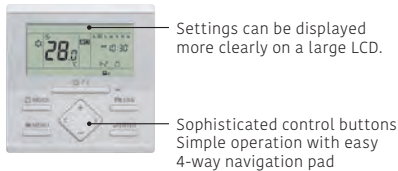
High performance and compact size

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



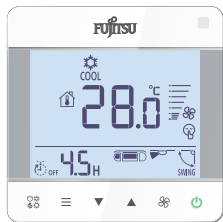
Visually intuitive operation

- 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-RCRYZ1

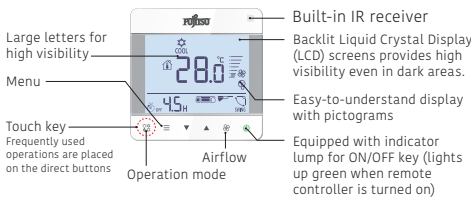


Up to
1 indoor units
Up to
1 group

- 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

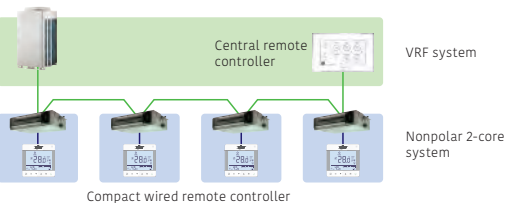
Large screen and simple display

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

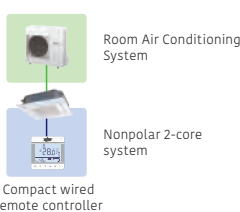


System overview

VRF connection



RAC connection



Specifications

Model name	UTY-RLRY	UTY-RCRYZ1
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-RVNYM



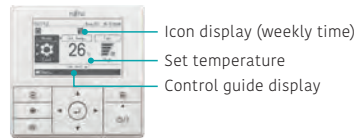
Up to
16 indoor units
Up to
1 group

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-RNNYM



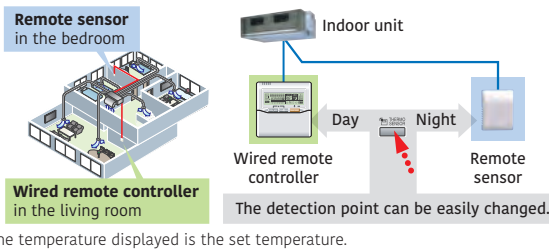
Up to
16 indoor units
Up to
1 group

- Simple operation with Built-in Weekly/Daily Timer.
- Control up to 16 indoor units.
- Up to 2 Wired remote controllers can be connected to a single indoor unit.

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

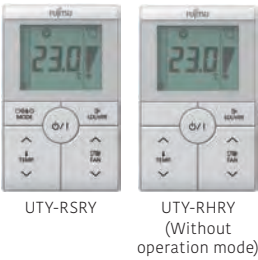
Specifications

Model name	UTY-RVNYM	UTY-RNNYM
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-RSRY / UTY-RHRY (without operation mode)



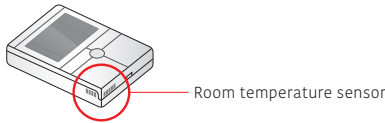
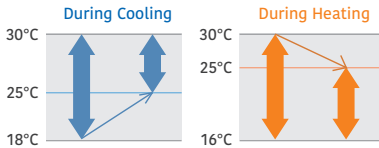
Compact remote controller with basic functionality

- 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-RSRY	UTY-RHRY
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-LNTY



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

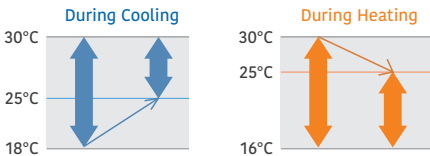


Up to
16 indoor units
Up to
1 group
Up to
4 different daily timers

Simple and comfort controll

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-LNTY	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 × 19
Weight (g)	125	66

12 V DC supplied by an indoor unit

Wireless remote controller

UTY-LNVY



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-LNHY



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

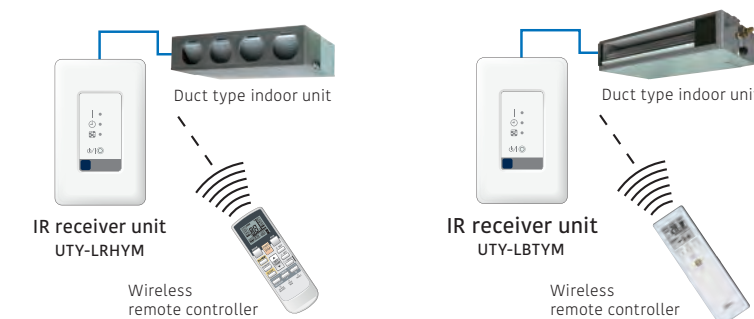
Specifications

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

12 V DC supplied by an indoor unit

IR receiver unit for duct type

UTY-LRHYM / UTY-LBTYM



The wireless remote controller controls duct type indoor units.

IR receiver unit for cassette

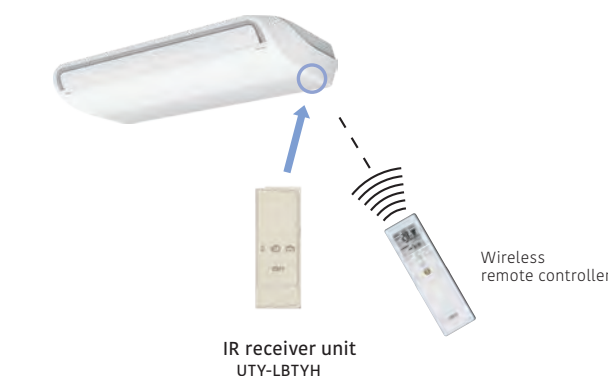
UTY-LBTYC



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

IR receiver unit for ceiling type

UTY-LBTYH



The wireless remote controller controls ceiling type indoor units.

Specifications

< Wireless Remote Controller >

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LBTYC	UTY-LBTYH
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 × W × D) (mm)	170 × 56 × 19	205 × 61 × 17	205 × 61 × 17	205 × 61 × 17
Weight (g)	85	125	125	125

< IR Reciver Unit>

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LBTYC	UTY-LBTYH
Battery	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 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.

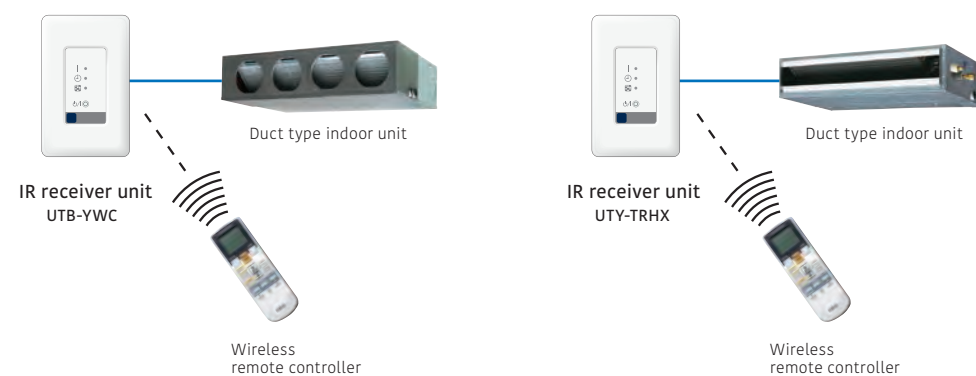
IR receiver unit for duct type

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.



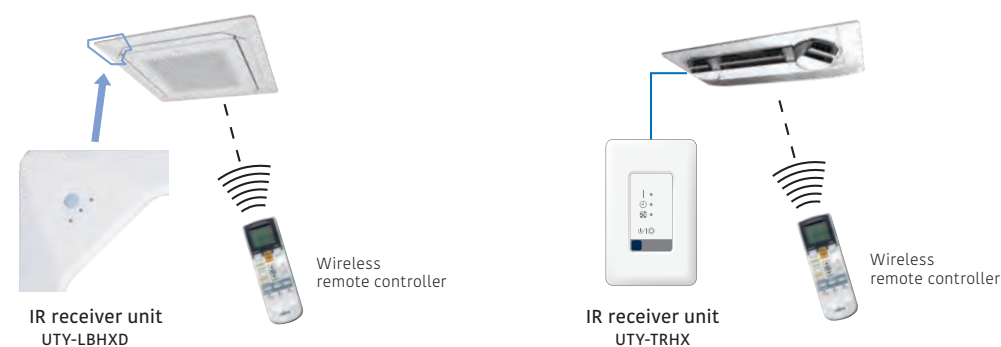
*A separate wireless remote control (model: UTY-LNHY) is required.

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-LNVY or UTY-LNHY) 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 >

Model name	UTB-YWC	UTY-LBHxD	UTY-TRHX
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



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.

New Design!

Ease of use is pursued to achieve a stylish design.

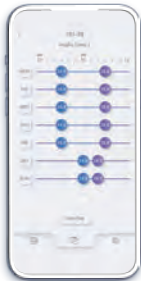
The more legible and accessible timer UI enables effortless schedule management.



Mode change



Fan speed change



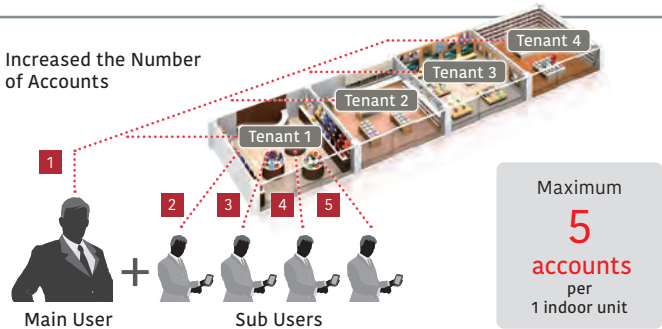
Weekly timer



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.



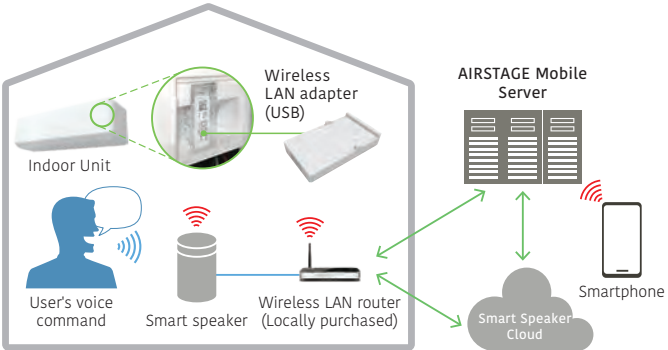
Hierarchical group management

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



Intesis®
BY HNS NETWORKS



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

Intesis®
BY HNS NETWORKS



FG-AC-WIF1Z1
(CN connector type)

Intesis®
BY HNS NETWORKS



FG-IR-WIF1Z1
(IR type)

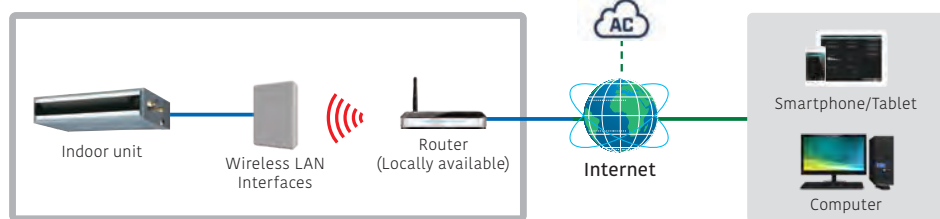
Up to
1 indoor unit

AC Cloud Control

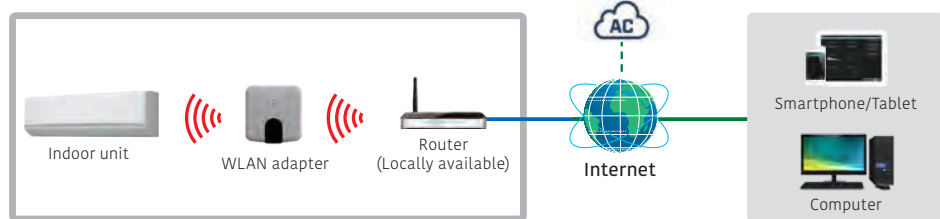
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

Installation example

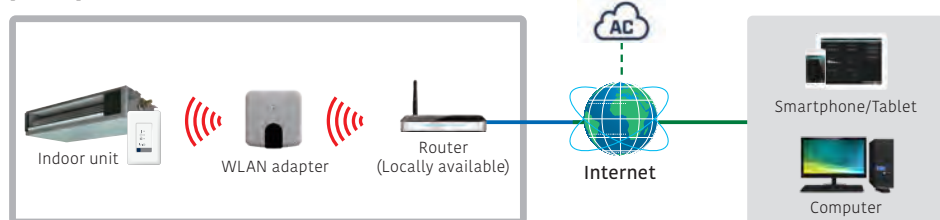
[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



[IR type] Connects to the product with the optional receiver kit



*IR receiver required.

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



Intesis®
BY HNS NETWORKS



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

Intesis®
BY HNS NETWORKS



FG-AC-WMP1Z1
(CN connector type)

Intesis®
BY HNS NETWORKS



FG-IR-WMP1Z1
(IR type)

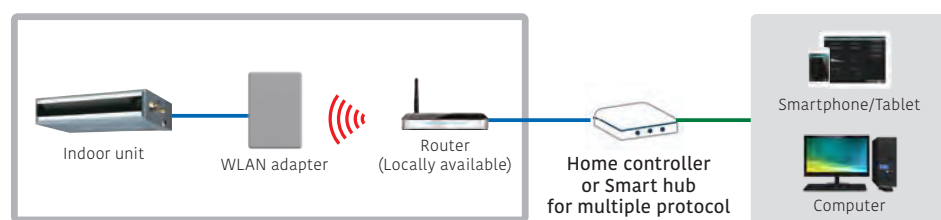
Up to
1 indoor unit

AC Cloud Control

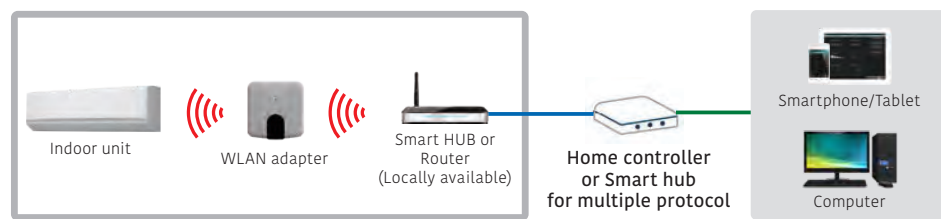
- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

Installation example

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



[IR type]



*IR receiver required for other than wall-mounted type.

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

Multiple protocol LAN adapter

FG-TL-BMKM16Z1



Intesis®
BY HNS NETWORKS

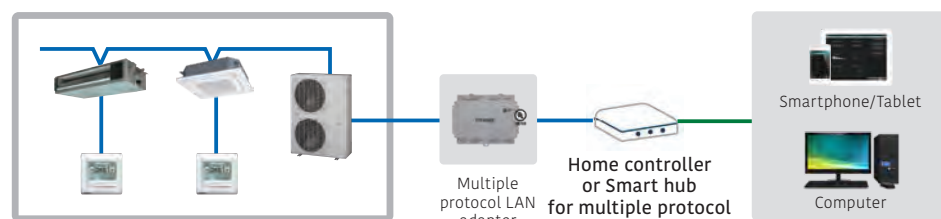


FG-TL-BMKM16Z1
(VRF type)

Up to
16 indoor units

Installation example

[VRF type]



*No separate external power supply required

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-DMMYM / UTY-DMMYM1

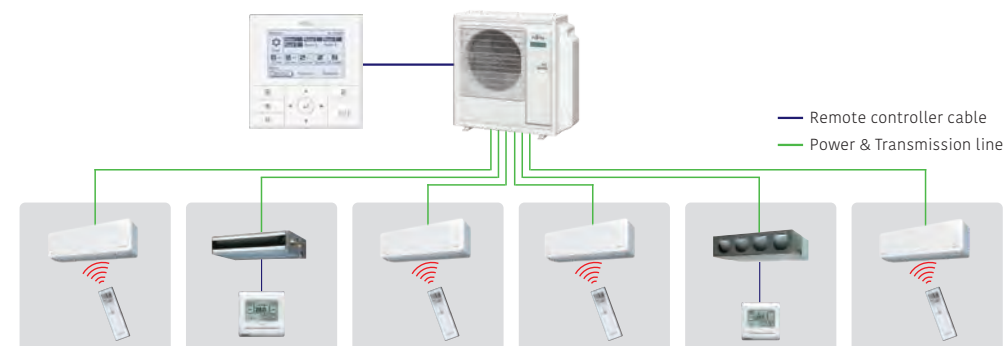


Up to
1 multi-split system
Up to
6 indoor units

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 LED screen
- Large, easy-to-see operation panel

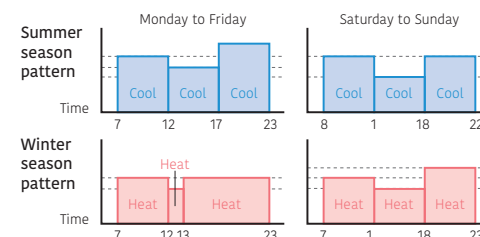
Example of system configuration



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.

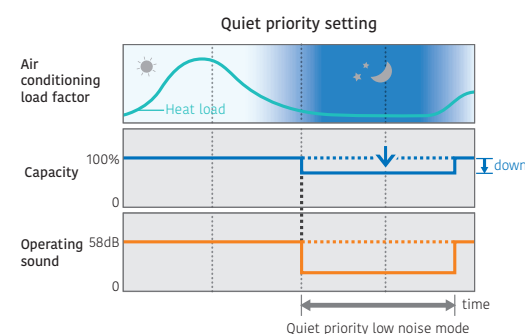
*Consult your dealer for conditions of use.

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-DMMYM/UTY-DMMYM1
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-DCGYZ3



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)

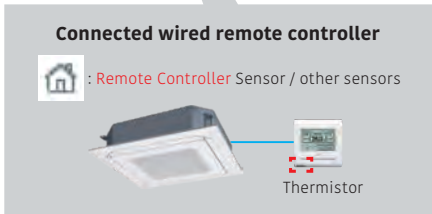
Easy operation

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



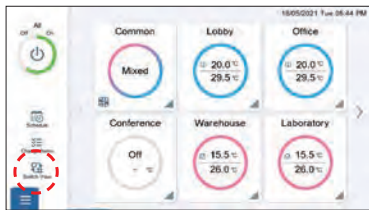
*Room temperature is displayed only when indoor unit operates.



50 Remote Controller Groups Display

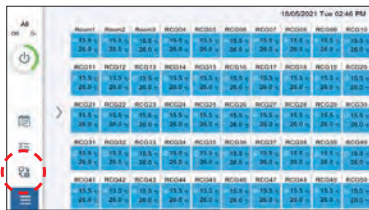
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor
by each Groups

50 Remote Controller Groups Display



Manage & Monitor
by 50 Remote Controller Groups

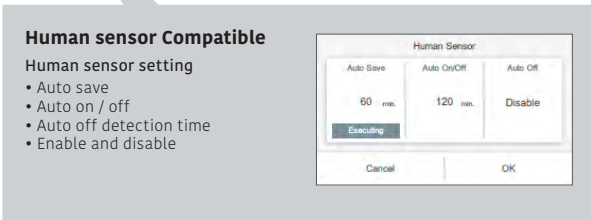
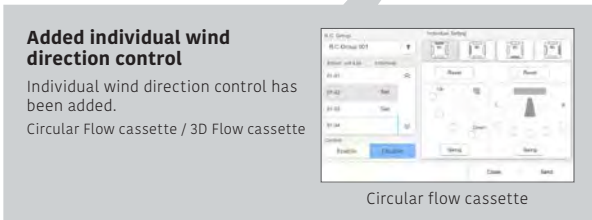
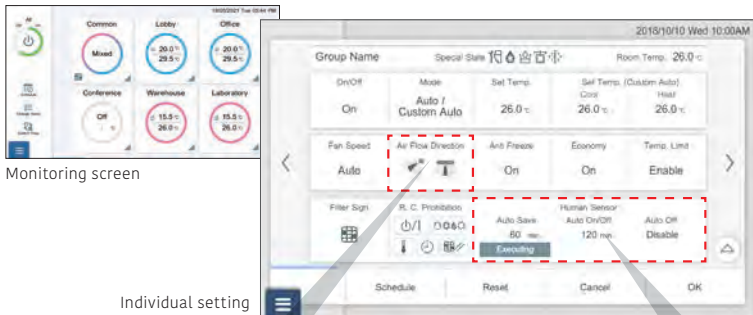
Remote Controller Groups Rename

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.

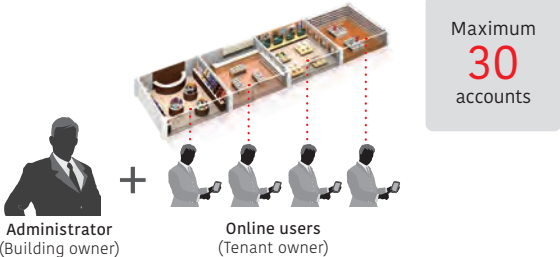


Remote Management

Remote monitoring / Remote operation

New central remote controller can control your tenant's air conditioner anytime and anywhere. When the central remote controller manages the indoor units of some tenants, air conditioning of each tenant can be managed separately online.

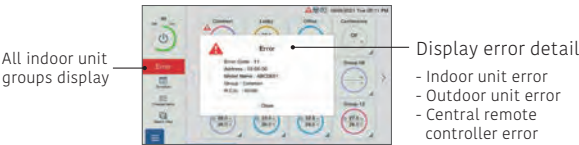
Increased the Number of Accounts



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*

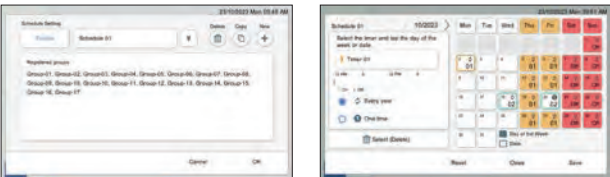
Notify by e-mail when the temperature around the air conditioner is too high or too low

*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-DCGYZ3
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

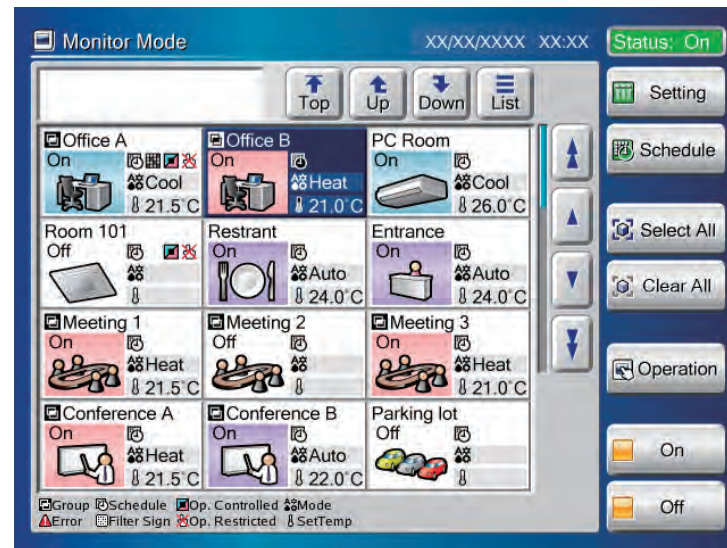
UTY-DTGYZ1



- 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.

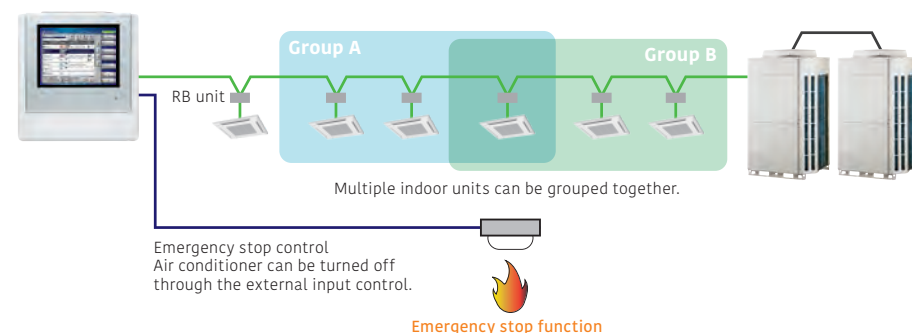


Easy installation

- 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



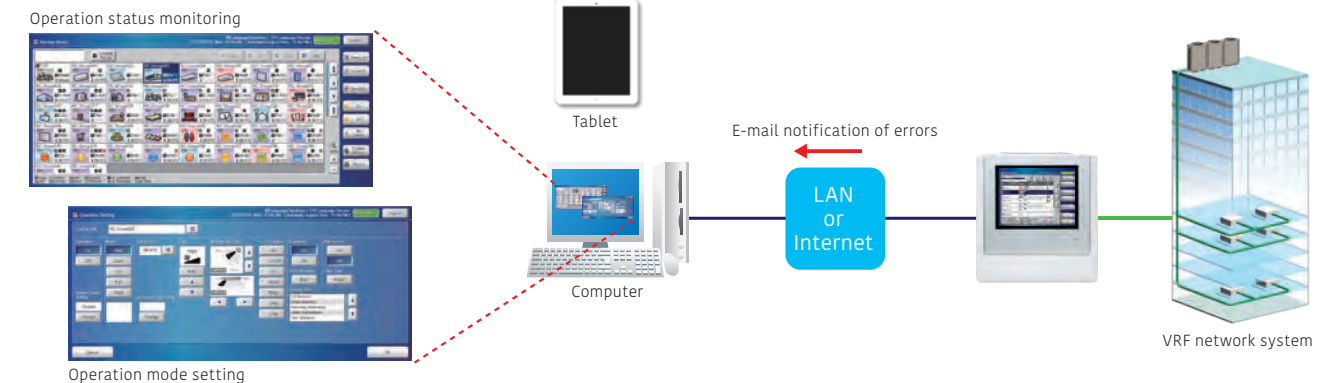
Controls up to 400 indoor units.



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

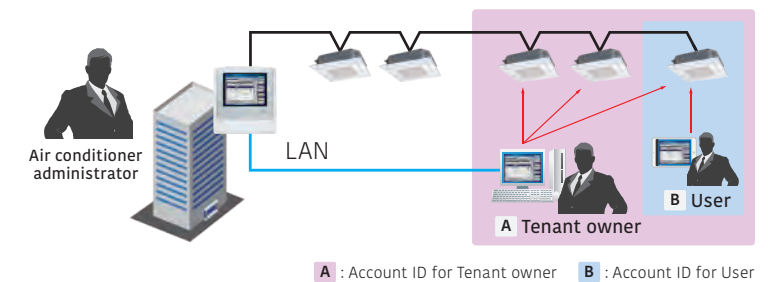
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

Tablet

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

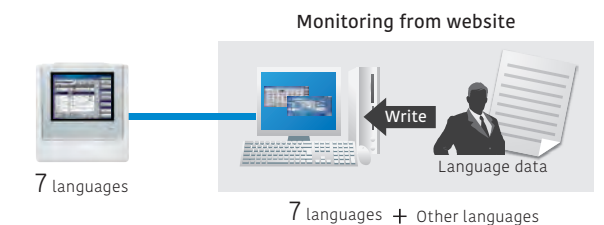
Flexible access permissions can be granted to users at each point level.

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



Additional languages

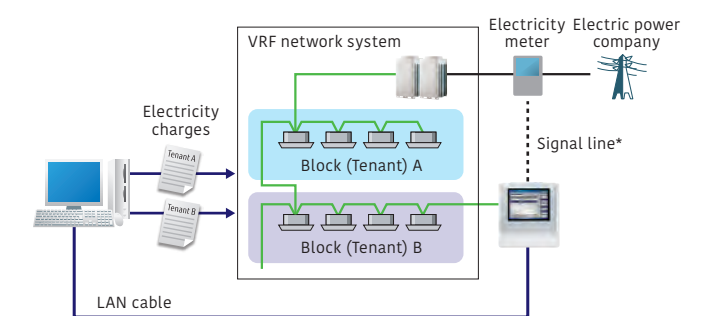
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



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



Features:

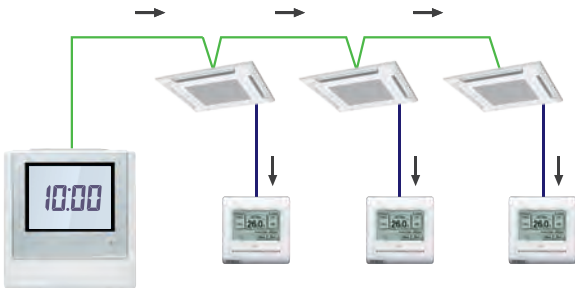
Automatic setting for daylight saving time

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.

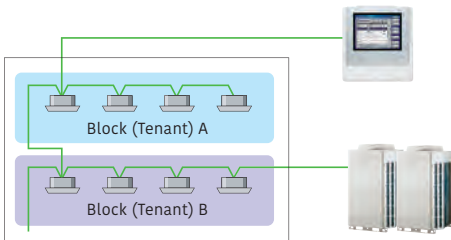
Automatic clock adjustment

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

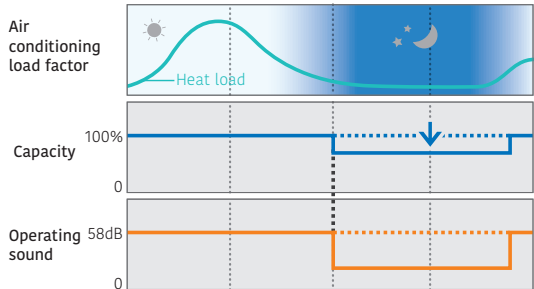


Outdoor unit low noise operation

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



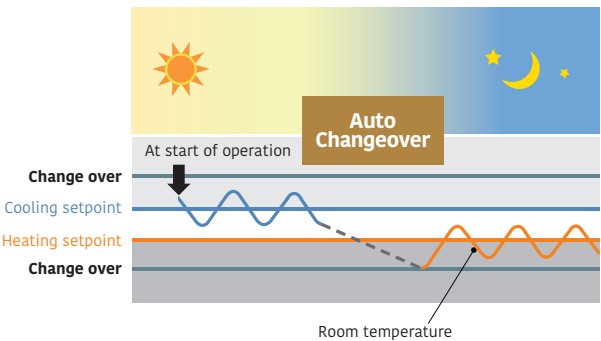
Energy-saving controls

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 detector

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-DTGYZ1	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	●	●
Human 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 detector	●	●

●: 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-DTGYZ1
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-DTGYZ1	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.

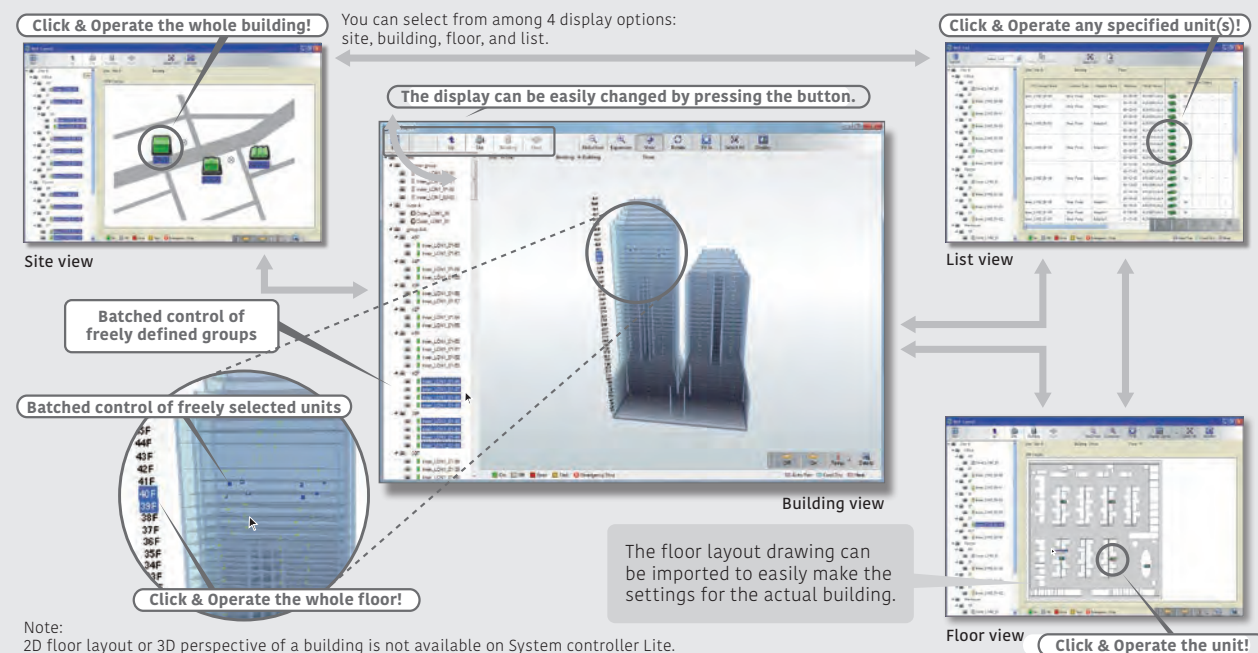
- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian,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

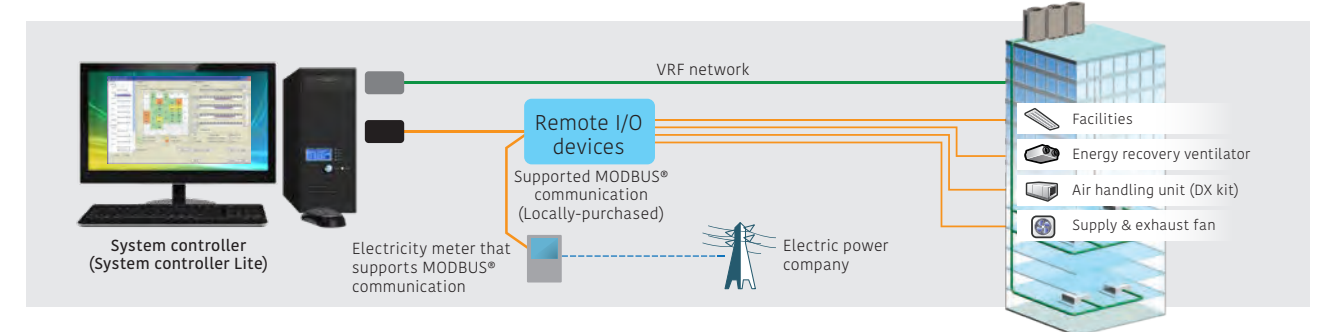


Features:

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.

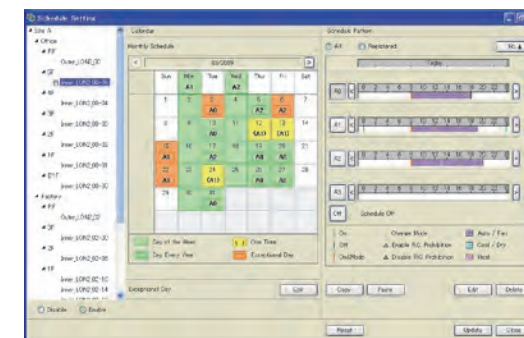


Wide-ranging operation and data management

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.

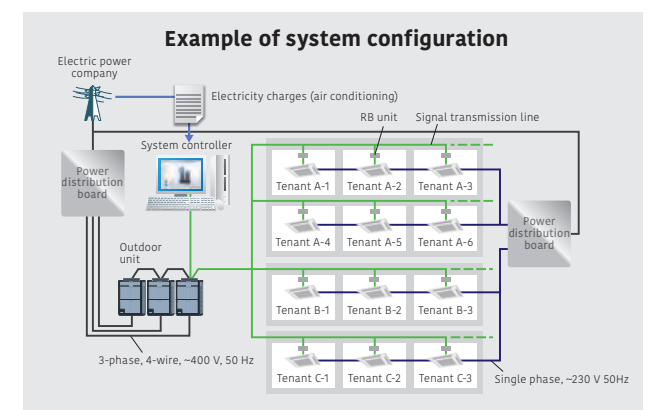
Electricity charge apportionment

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.





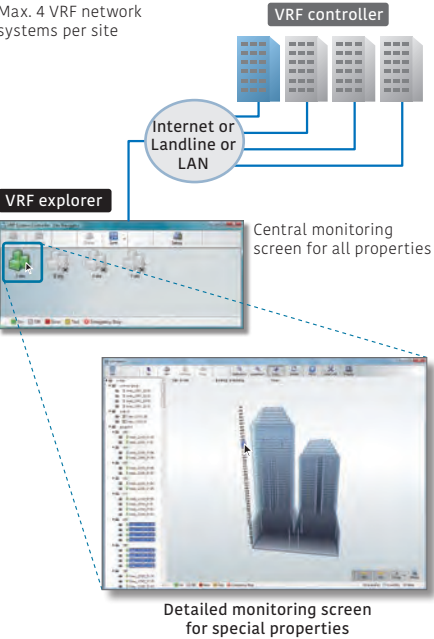
Features:

Remote monitoring management

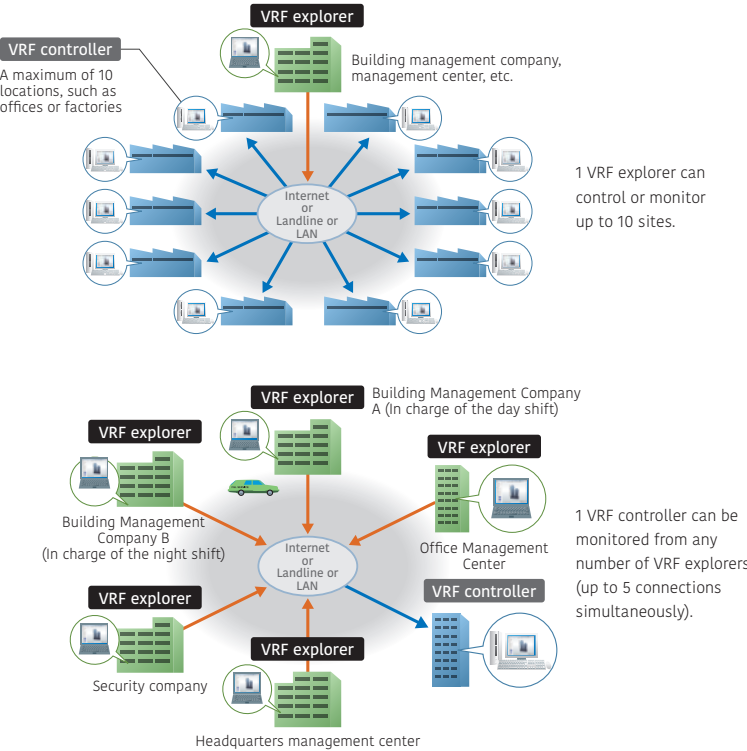
- Standard on System controller
- Option System controller Lite UTY-PLGXR2

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, weather, and time of day. Excellent energy-saving operation is performed while keeping users comfortable.



Main screen for energy-saving management

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

Indoor unit rotation

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

Peak-cut mode

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

Capacity saving for outdoor unit

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

Summary of functions

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

●: Available - : Not available

Computer requirements

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

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

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

Packing list

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

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

MODBUS® converter

for indoor unit

UTY-VMSX

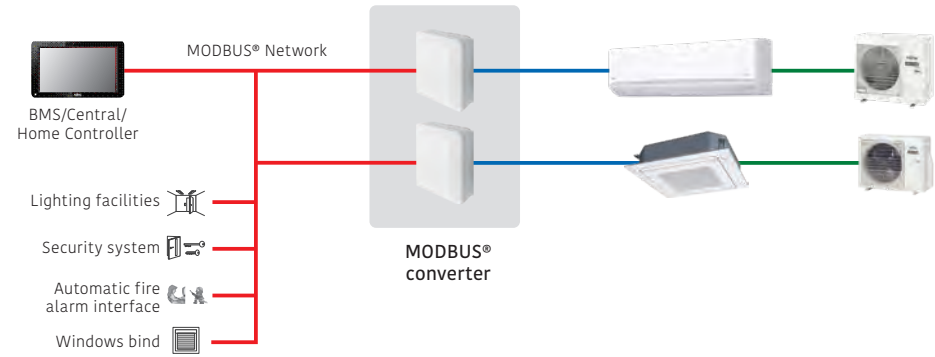


Up to

1 indoor unit

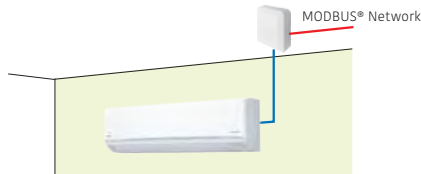
MODBUS® converter enables air conditioners to be fully integrated into a MODBUS® network.

- 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

Intesis®

BY HBS NETWORKS



FG-RC-MBS1Z1

(3-wire RC-line type)

Intesis®

BY HBS NETWORKS



FG-AC-MBS1Z1

(CN connector type)

Intesis®

BY HBS NETWORKS



FG-IR-BMG1Z1

(IR type)

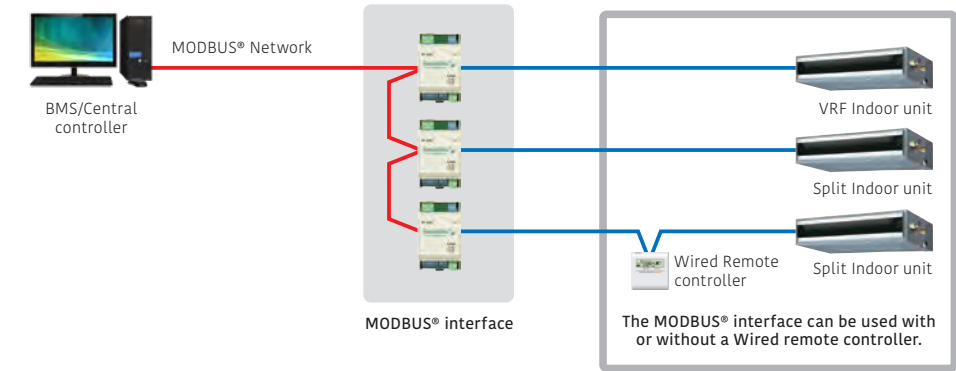
Up to

1 indoor unit

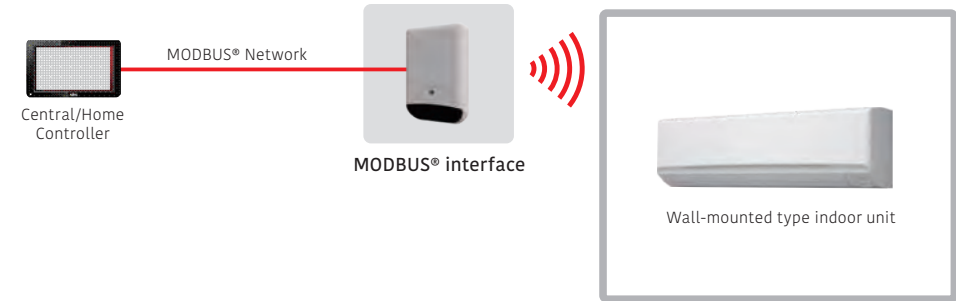
MODBUS® interface enables air conditioners to be fully integrated into a MODBUS® network.

- 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

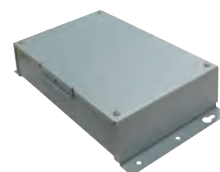


Specifications

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® convertor 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® convertor enables air conditioners to be fully integrated into a MODBUS® network.

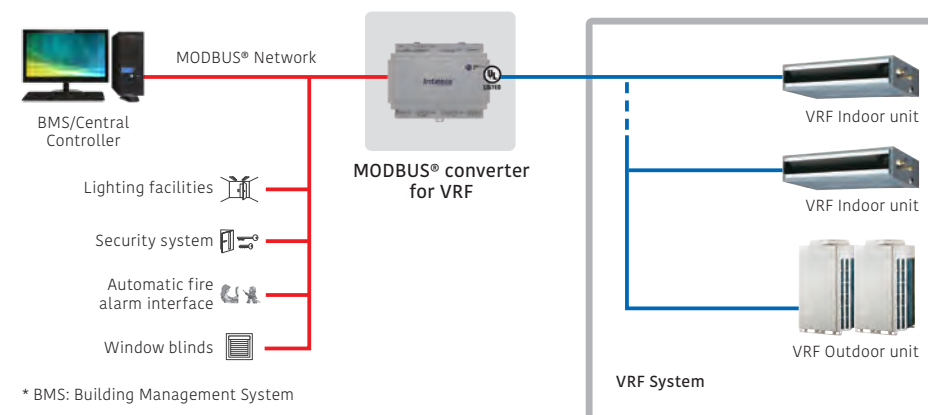
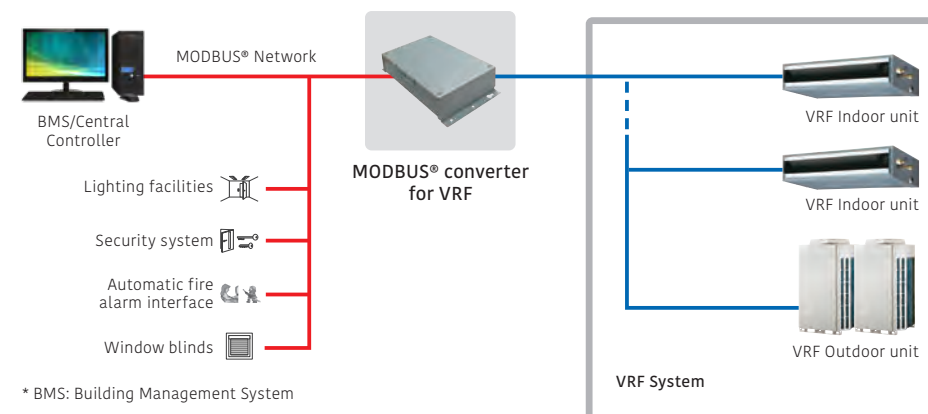
- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® convertor enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature 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)

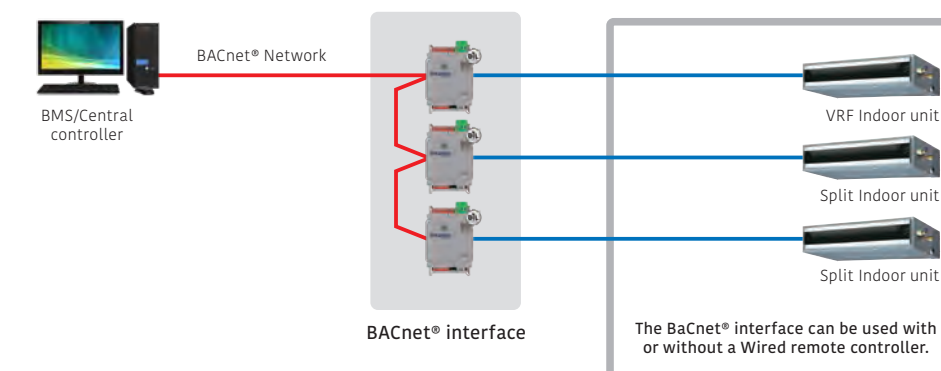


FG-IR-BMG1Z1 (IR type)

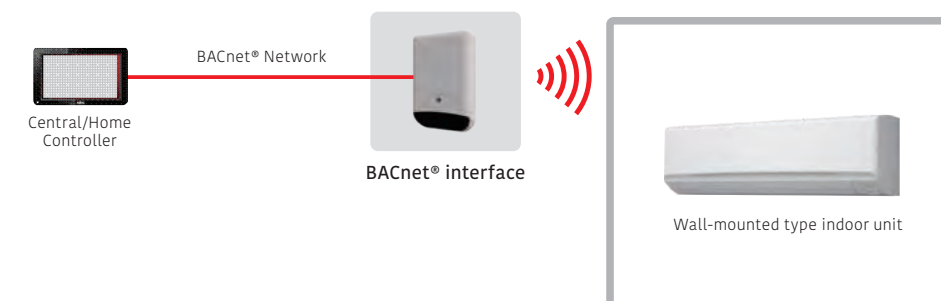
Up to
1 indoor unit

- 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

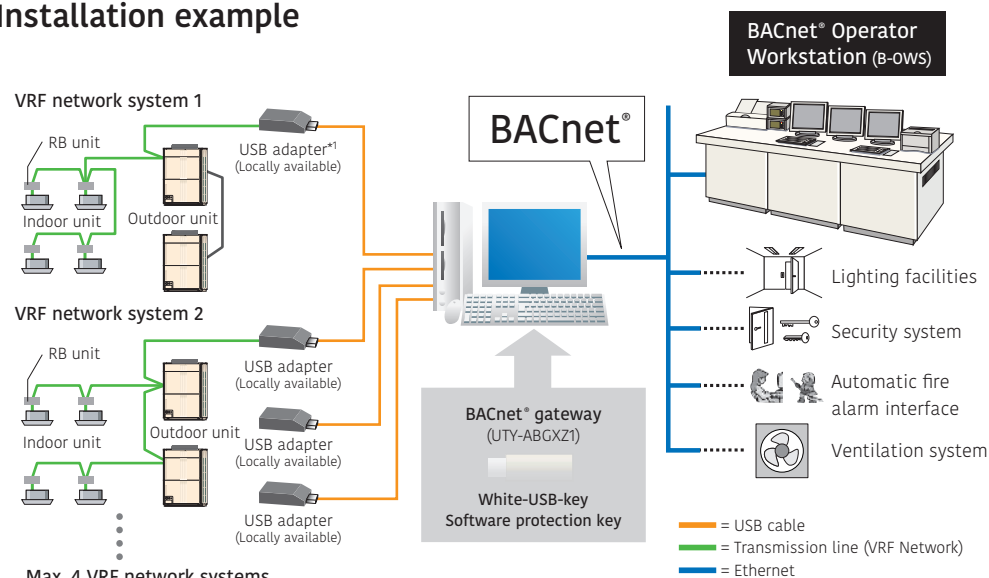
UTY-ABGXZ1 **Software**

 White-USB-key
(Software Protection Key)


BACnet® is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.

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

Installation example



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

Computer requirements

	UTY-ABGXZ1
Operating system	- Microsoft Windows 10 Home (64-bit) - Microsoft Windows 10 Pro (64-bit) - Microsoft Windows 11 Home (64-bit) - Microsoft Windows 11 Pro (64-bit) Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel Core i3 2 GHz or higher
Memory	4 GB or more (for Windows 10) 8 GB or more (for Windows 11)
HDD	40 GB or more of free space
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.
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.

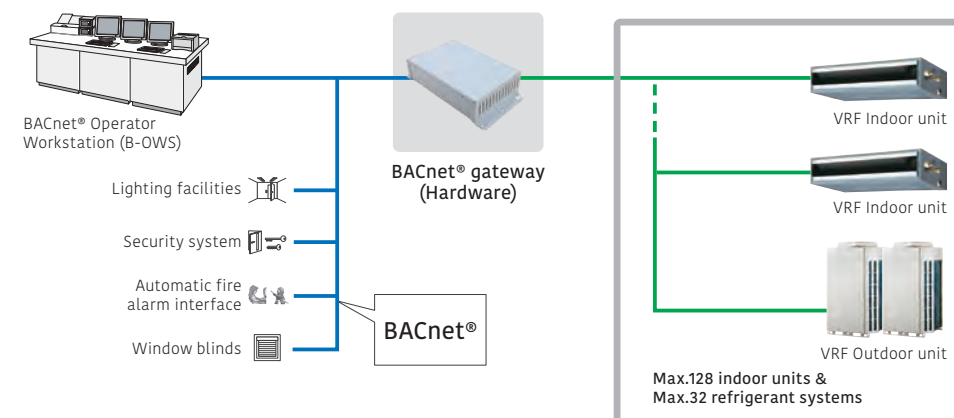
BACnet® gateway

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



Intesis®
BY HMS NETWORKS



FG-RTR-BAC32Z1
(BAC net)

Intesis®
BY HMS NETWORKS



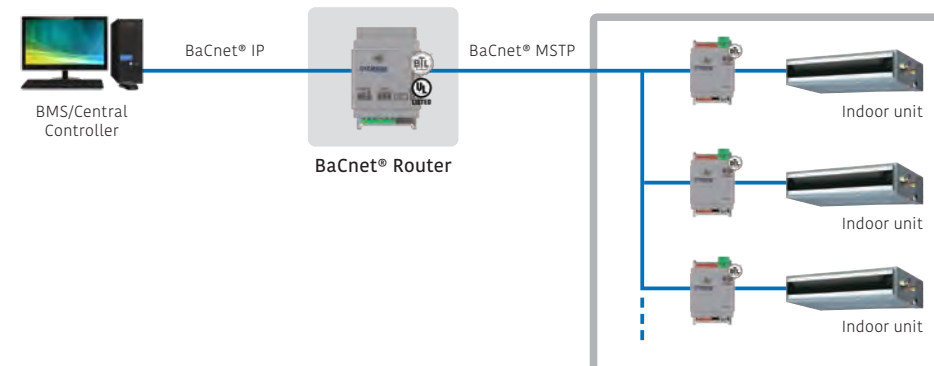
FG-RTR-MBS32Z1
(MODBUS®)

Routing between BaCnet® MS/TP and BaCnet® IP networks

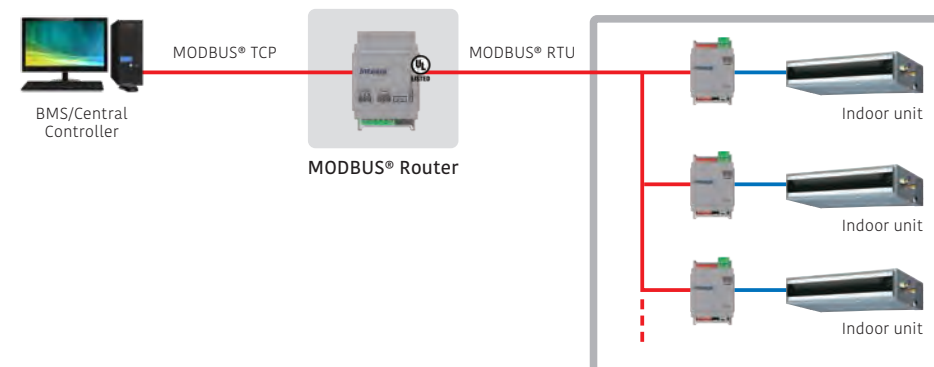
- Routing between BaCnet® MS/TP and BaCnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

Installation example

[BaCnet® type]



[MODBUS® type]



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

BACnet®/MODBUS® cloud device

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



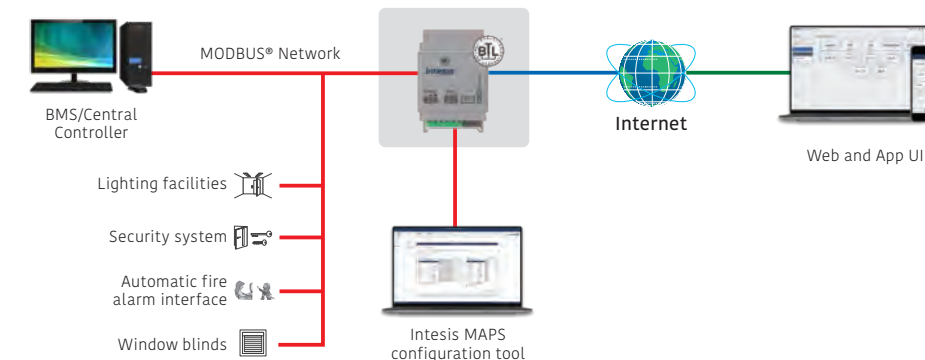
Intesis®
BY HMS NETWORKS



FG-CLD-BMG4Z1/8/16/32Z1

- 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-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

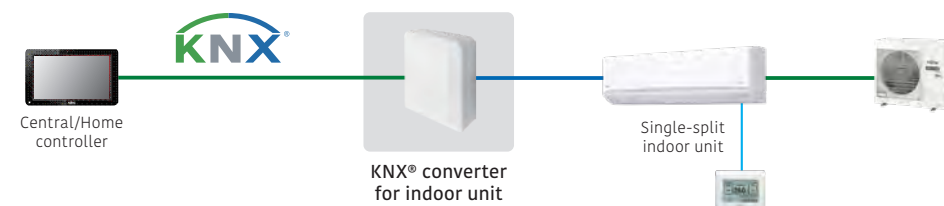


Up to
1 indoor unit

KNX® Converter enables individual control of an indoor unit.

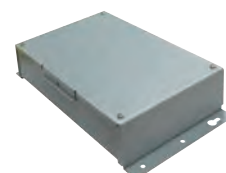
- The new KNX® converter connects a central or home controller and a Fujitsu General indoor unit.
- Compact and lightweight design

Installation example



KNX® converter for VRF

UTY-VKGX / FG-TL-BMKM16Z1



UTY-VKGX

Up to
100 outdoor units
Up to
128 indoor units



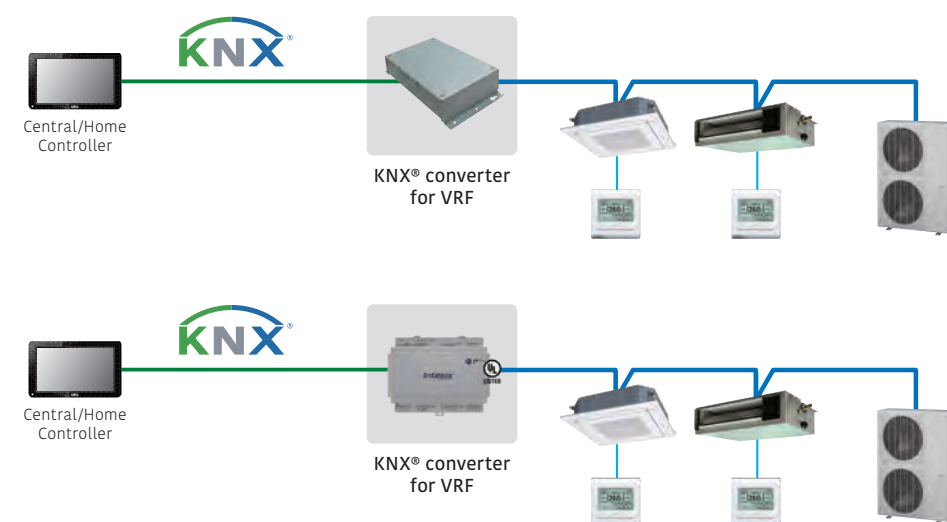
FG-TL-BMKM16Z1

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)

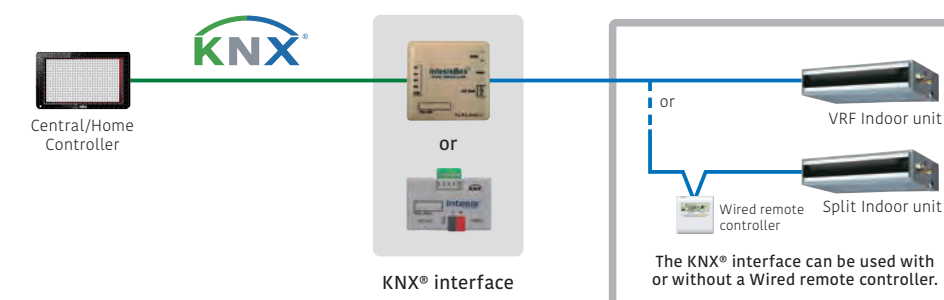
Up to
1 indoor unit

The KNX® interface enables air conditioners to be fully integrated into a KNX® network system.

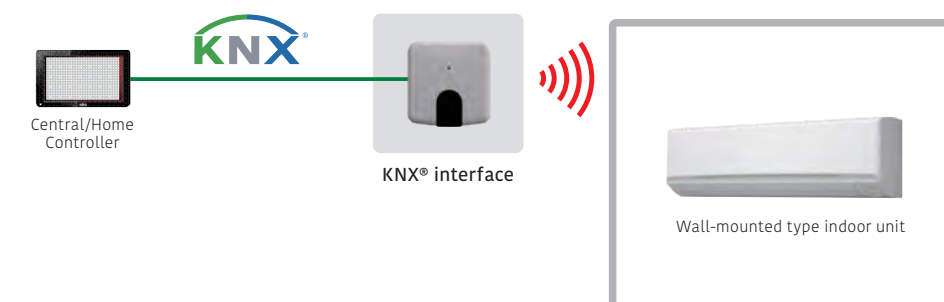
- Simple installation due to small and compact size.
- No separate external power supply required (only KNX® bus power required)

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



Specifications

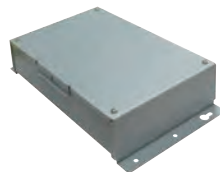
Model name	FG-RC-KNX1Z1 (3-wire RC-line type)	FG-AC-KNX1Z1 (CN connector type)	FG-IR-KNX1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	70 × 70 × 28	45 × 59 × 21	81 × 78 × 28
Weight (g)	70	35	76

Network converter for single-split type

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type



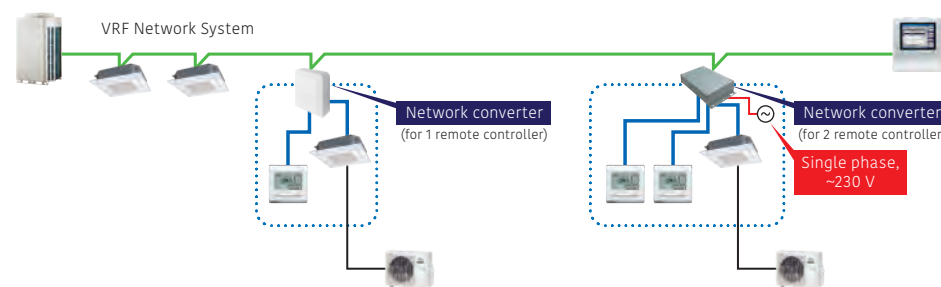
UTY-VTGXV
AC power supply type

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

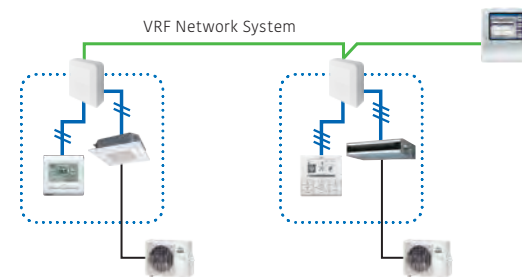
- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation example

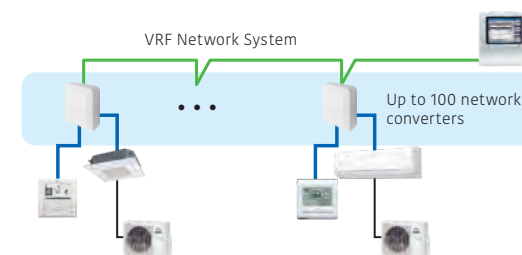
- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50/60 Hz) is required for the 2-remote-controllers type.



- 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)

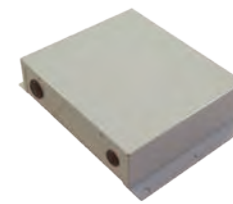


Specifications

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™

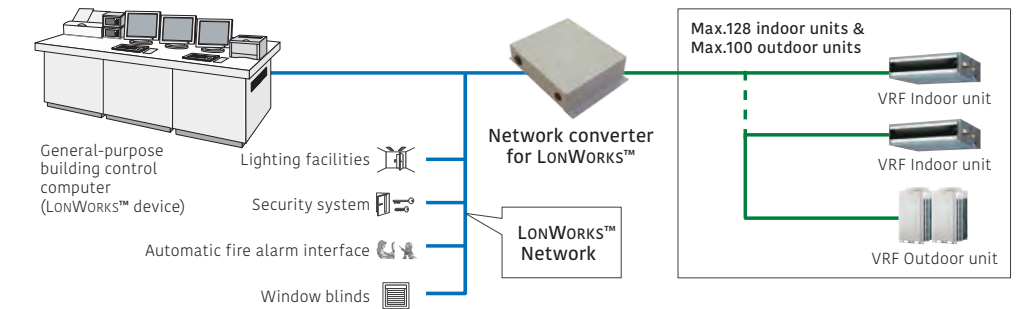
UTY-VLGX



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



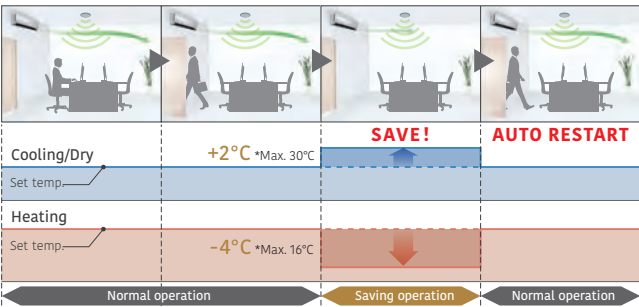
Up to
1 group

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

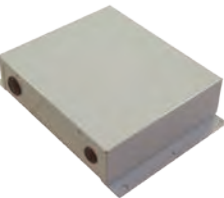
Human sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.



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

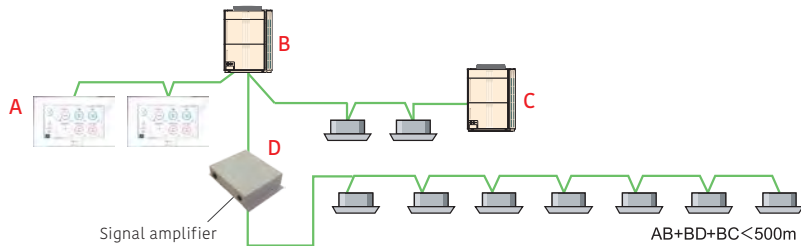
Signal amplifier

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						Cassette				
	Designer Range		Standard Range				ECO Range		Compact 4-way flow Range	Circular flow Range		
		ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASYG07/09/12/14KGTE	ASEG07/09/12/14 KETF, KETF-B, ASYG07/09/12/14 KETE, KETE-B	ASEH07/09/12/14KMCG, KMCG-B, ASYG07/09/12/14KMCF, ASYG07/09/12/14KMCE	ASEG18/24KMTE	ASEH30/36KMTB		ASEH07/09/12KNCA	ASEG07/09/12KPCE	ASEH07/09/12KLTA	AUXG 09/12/14/18/22/24 KVL A	AUXG 18/22/24/30/36/45/54 KRLB
												
Controllers	Wired remote controller		● UTY-RVRY+ UTY-TWRXZ2							● UTY-RVRY		
			● UTY-RNRYZ5+ UTY-TWRXZ2							● UTY-RNRYZ5		
			● UTY-RLRY+ UTY-TWRXZ2							● UTY-RLRY		
			● UTY-RCRYZ1+ UTY-TWRXZ2							● UTY-RCRYZ1		
										● UTY-RVNYM		
										● UTY-RNNYM		
	Simple remote controller	 Nonpolar 2-core type	● UTY-RSRY UTY-RHRY+ UTY-TWRXZ2							● UTY-RSRY UTY-RHRY		
	Home central remote controller											
	Wireless remote controller				● UTY-LNWX				● UTY-LNWX		● UTY-LNTY	
	IR receiver unit with Wireless remote controller	 For Duct type										
 For Duct type  For Cassette type  For Ceiling type											● UTY-LBXYC	

*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							Multi-split							Single phase
		Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		BIG	Floor	Ceiling	Wall-mounted		Compact cassette	Mini duct	Slim duct	5/6-unit multi-split
		R32	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		AGEG09/12/14KVCA	ABEG 18/22/24/30/ 36/45/54 KRTA	ASEH05KNCA	ASEG22KMTE	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	AOEG36KBTA5
R410A							ARYG60LHTA	ARYG72/90LHTA							AOYG45LBLA	
Controllers	Wired remote controller		● UTY-RVRY						● UTY-RVRY	● UTY-RVRY+ UTY-TWRXZ3	● UTY-RVRY		● UTY-RVRY+ UTY-TWRXZ2	● UTY-RVRY		
			● UTY-RNRYZ5						● UTY-RNRYZ5	● UTY-RNRYZ5+ UTY-TWRXZ3	● UTY-RNRYZ5		● UTY-RNRYZ5+ UTY-TWRXZ2	● UTY-RNRYZ5		
			● UTY-RLRY						● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ3	● UTY-RLRY		● UTY-RLRY+ UTY-TWRXZ2	● UTY-RLRY		
			● UTY-RCRYZ1						● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ3	● UTY-RCRYZ1		● UTY-RCRYZ1+ UTY-TWRXZ2	● UTY-RCRYZ1		
			● UTY-RVNYM		● UTY-RVNYM			● UTY-RVNYM						● UTY-RVNYM		
			● UTY-RNNYM		● UTY-RNNYM			● UTY-RNNYM						● UTY-RNNYM		
Simple remote controller	 Nonpolar 2-core type	● UTY-RSRY UTY-RHRY						● UTY-RSRY UTY-RHRY	● UTY-RSRY UTY-RHRY+ UTY-TWRXZ3	● UTY-RSRY UTY-RHRY		● UTY-RSRY UTY-RHRY+ UTY-TWRXZ2	● UTY-RSRY UTY-RHRY			
Home central remote controller															● UTY-DMMYM1*3 (KBTA5) UTY-DMMYM*3 (LBLA6)	
Wireless remote controller												● UTY-LNTY				
IR receiver unit with Wireless remote controller	 For Duct type						● UTY-LRHYM									
	 For Duct type For Cassette type For Ceiling type	● UTY-LBTYM						● UTY-LBTYM		● UTY-LBTYH				● UTY-LBTYM		

*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								
		Wall-mounted							Cassette	
		Designer Range	Standard Range				ECO Range		Compact 4-way flow Range	Circular flow Range
		ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASYG07/09/12/14KGTG	ASEG07/09/12/14 KETF, KETF-B, ASYG07/09/12/14 KETE, KETE-B	ASEH07/09/12/14 KMCG, KMCG-B, ASYG07/09/12/14 KMCF, ASYG07/09/12/14 KMCE	ASEG18/24KMTE	ASEH30/36KMTB	ASEH07/09/12KNCA	ASEG07/09/12KPCE	ASEH07/09/12KLTA	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
	MODBUS® interface	 	● FG-AC-MBS1Z1							● FG-RC-MBS1Z1 FG-AC-MBS1Z1
			● FG-IR-BMG1Z1					● FG-IR-BMG1Z1		
	KNX® converter		● UTY-VKSX							● UTY-VKSX
	KNX® interface	 	● FG-AC-KNX1Z1							● FG-RC-KNX1Z1 FG-AC-KNX1Z1
			● FG-IR-KNX1Z1					● FG-IR-KNX1Z1		
	WLAN adapter	 								● UTY-TFSXJ3
			● Accessory (KGTG, KGTG, KETF, KETF-B, KMCG, KMCF) UTY-TFSXH3 (KGTE, KETE, KETE-B, KMCE)				● Accessory	● UTY-TFSXH3		
		 	● FG-AC-WIF1Z1							● FG-RC-WIF1Z2 FG-AC-WIF1Z1
			● FG-IR-WIF1Z1					● FG-IR-WIF1Z1		
		 	● FG-AC-WMP1Z1							● FG-RC-WMP1Z1 FG-AC-WMP1Z1
			● FG-IR-WMP1Z1					● FG-IR-WMP1Z1		
	External switch controller		● UTY-TERX+UTY-TWRXZ2							● UTY-TERX
	Network converter for single-split type	 	● 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.

Controller system list (available) for Split/Multi-split

Controller Options/Accessories:



Type		Refrigerant	Indoor unit							Indoor unit					Outdoor unit				
			Duct							Multi-split					Single phase				
			Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		BIG	Floor	Ceiling	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		AGEG09/12/14KVCA		ABEG 18/22/24/30/ 36/45/54 KRTA	ASEH05KNCA	ASEG22KMTE	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	AOEG36KBTA5	
									ARYG60LHTA	ARYG72/90LHTA									AOYG45LBLA6
Interfaces	MODBUS® Converter		● UTY-VMSX								● UTY-VMSX	● UTY-VMSX*2	● UTY-VMSX		● UTY-VMSX*1	● UTY-VMSX			
	MODBUS® interface	 	● 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		
			● FG-IR-BMG1Z1+ UTY-LBTYC	● FG-IR-BMG1Z1+ UTY-LBTYM					● FG-IR-BMG1Z1+ UTY-LRHYM	● FG-IR-BMG1Z1+ UTY-LRHYM	● FG-IR-BMG1Z1	● FG-IR-BMG1Z1+ UTY-LBTYH	● FG-IR-BMG1Z1			● FG-IR-BMG1Z1+ UTY-LBTYM			
	KNX® converter		● UTY-VKSX								● UTY-VKSX	● UTY-VKSX*2	● UTY-VKSX		● UTY-VKSX*1	● UTY-VKSX			
	KNX® interface	 	● 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		
			● FG-IR-KNX1Z1+ UTY-LBTYC	● FG-IR-KNX1Z1+ UTY-LBTYM					● FG-AC-KNX1Z1+ UTY-LBTGM	● FG-IR-KNX1Z1+ UTY-LRHYM	● FG-IR-KNX1Z1+ UTY-LRHYM	● FG-IR-KNX1Z1	● FG-IR-KNX1Z1+ UTY-LBTYH	● FG-IR-KNX1Z1			● FG-IR-KNX1Z1+ UTY-LBTYM		
	WLAN adapter	  	● UTY-TFSXJ3									● UTY-TFSXJ3				● UTY-TFSXJ3			
														● Accessory	● UTY-TFSXH3				
		 	● 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		
			● FG-IR-WIF1Z1+ UTY-LBTYC	● FG-IR-WIF1Z1+ UTY-LBTYM					● FG-IR-WIF1Z1+ UTY-LRHYM	● FG-IR-WIF1Z1+ UTY-LRHYM	● FG-IR-WIF1Z1	● FG-IR-WIF1Z1+ UTY-LBTYH	● FG-IR-WIF1Z1			● FG-IR-WIF1Z1+ UTY-LBTYM			
		 	● 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		
			● FG-IR-WMP1Z1+ UTY-LBTYC	● FG-IR-WMP1Z1+ UTY-LBTYM					● FG-IR-WMP1Z1+ UTY-LRHYM	● FG-IR-WMP1Z1+ UTY-LRHYM	● FG-IR-WMP1Z1	● FG-IR-WMP1Z1+ UTY-LBTYH	● FG-IR-WMP1Z1			● FG-IR-WMP1Z1+ UTY-LBTYM			
	External switch controller		● UTY-TERX									● UTY-TERX	● UTY-TERX+ UTY-TWRXZ3	● UTY-TERX		● UTY-TERX+ UTY-TWRXZ2	● UTY-TERX		
	Network converter for single-split type	 	● UTY-VTGX UTY-VTGXV									● UTY-VTGX UTY-VTGXV	● UTY-VTGX+ UTY-TWRXZ3 UTY-VTGXV+ UTY-TWRXZ3	● UTY-VTGX UTY-VTGXV		● 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.

Controller system list (available) for VRF

Controller Options:



Type		Refrigerant	Indoor unit										Indoor unit			
			Cassette										Duct			
			One-way flow	3D flow	Compact		Slim type	Large type		Low static pressure			Low static pressure	Medium static pressure	High static pressure	
					Grid type/Standard type	High Efficiency	Circular flow		Mini (With drain pump)	Slim (With drain pump)						
										High Efficiency						
					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/ 072/090/096 GTEH	
Controllers	Wired remote controller		● UTY-RVRY										● UTY-RVRY			
			● UTY-RNRYZ5										● UTY-RNRYZ5			
			● UTY-RLRY										● UTY-RLRY			
			● UTY-RCRYZ1										● UTY-RCRYZ1			
	Simple remote controller	 Nonpolar 2-core type	● UTY-RSRY UTY-RHRY										● UTY-RSRY UTY-RHRY			
	Wireless remote controller	 UTY-LNVY UTY-LNHY	● UTY-LNVY UTY-LNHY										● UTY-LNVY UTY-LNHY			
	IR receiver unit		● UTY-TRHX				● UTY-LBHXD		● UTY-TRHX	● UTB-YWC		● UTY-TRHX				
	Central remote controller		● UTY-DCGYZ3										● UTY-DCGYZ3			
	Touch panel controller		● UTY-DTGYZ1										● UTY-DTGYZ1			
	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				
		Floor		Ceiling/ Floor	Ceiling		Wall-mounted		External EEV	-	-
		-	External EEV		-	External EEV	-	External EEV			
						ASYA 004/005/007/009/012/014 HCAH		ASYE 004/005/007/009/012/014 HCAH			
		AGYA 004/007/009/012/014 GCGH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASYA 004/007/009 GCGH		ASYE 004/007/009 GCEH	ASYA012/014GCGH	ASYE012/014GCEH	ASYA18/24GBCH ASYA030/034GTEH
Controllers	Wired remote controller		● UTY-RVRY					● UTY-RVRY			
			● UTY-RNRYZ5					● UTY-RNRYZ5			
			● UTY-RLRY					● UTY-RLRY			
			● UTY-RCRYZ1					● UTY-RCRYZ1			
	Simple remote controller	 Nonpolar 2-core type	● UTY-RSRY UTY-RHRY					● UTY-RSRY UTY-RHRY			
	Wireless remote controller	 UTY-LNVY UTY-LNHY	● UTY-LNVY UTY-LNHY					● UTY-LNVY UTY-LNHY			
	IR receiver unit										
	Central remote controller		● UTY-DCGYZ3					● UTY-DCGYZ3			
	Touch panel controller		● UTY-DTGYZ1					● UTY-DTGYZ1			
	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												
				Cassette						Duct						
				One-way flow	3D flow	Compact Grid type/Standard type		Slim type	Large type	Mini (With drain pump)	Low static pressure		Low static pressure	Medium static pressure	High static pressure	
							High Efficiency	Circular flow			Slim (With drain pump)					High Efficiency
				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	3-wire RC-line type CN connector type	● FG-AC-MBS1Z1							● FG-AC-MBS1Z1	● FG-RC-MBS1Z1	● 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	3-wire RC-line type CN connector type	● FG-AC-KNX1Z1							● FG-AC-KNX1Z1	● FG-RC-KNX1Z1	● 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					
		3-wire RC-line type CN connector type	● FG-AC-WIF1Z1							● FG-AC-WIF1Z1	● FG-RC-WIF1Z2	● 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				
		3-wire RC-line type CN connector type	● FG-AC-WMP1Z1							● FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● 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		external EEV	external EEV	external EEV
		—	external EEV		—	external EEV	—	external EEV			
						ASYA 004/005/007/009/012/014 HCAH		ASYE 004/005/007/009/012/014 HCAH			
		AGYA 004/007/009/012/014 GCGH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASYA 004/007/009 GCGH		ASYE 004/007/009 GCEH	ASYA012/014GCGH	ASYE012/014GCEH	ASYA18/24GBCH ASYA030/034GTEH
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			
	MODBUS® Converter		● UTY-VMSX					● UTY-VMSX			● UTY-VMSX
			● UTY-VMGX FG-TL-MBS16Z1					● UTY-VMGX FG-TL-MBS16Z1			
	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
			● UTY-VKGX FG-TL-KNX16Z1					● UTY-VKGX FG-TL-KNX16Z1			
	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



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



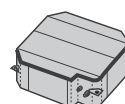
Cassette grille
A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.



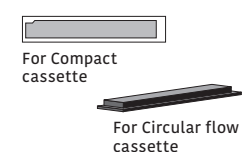
Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



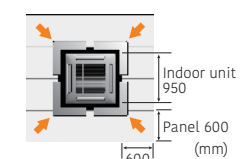
Fresh air intake kit
Fresh air can be taken in by a fan connected to an external control unit.



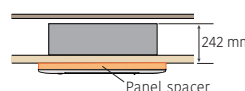
Insulation kit for high humidity
Insulation kit for high humidity is used when the installation location is in a high humidity environment.



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.

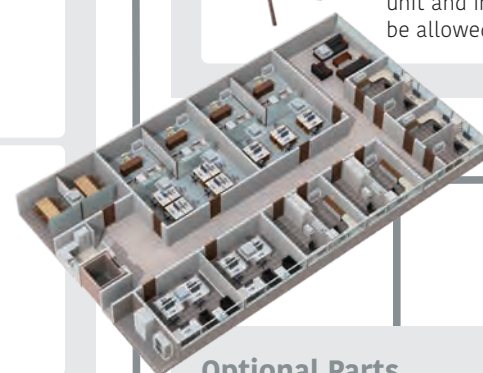


Panel spacer
If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

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.

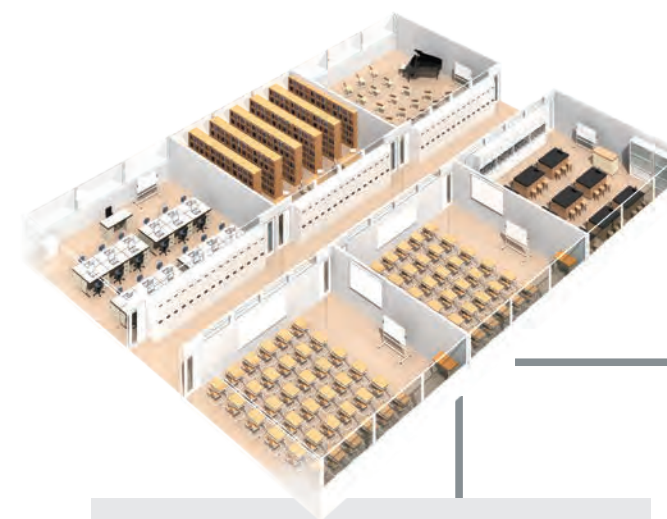
Optional Parts For Floor



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



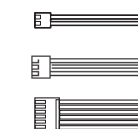
Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



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.

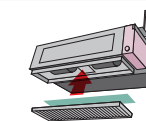


External power supply unit
The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

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

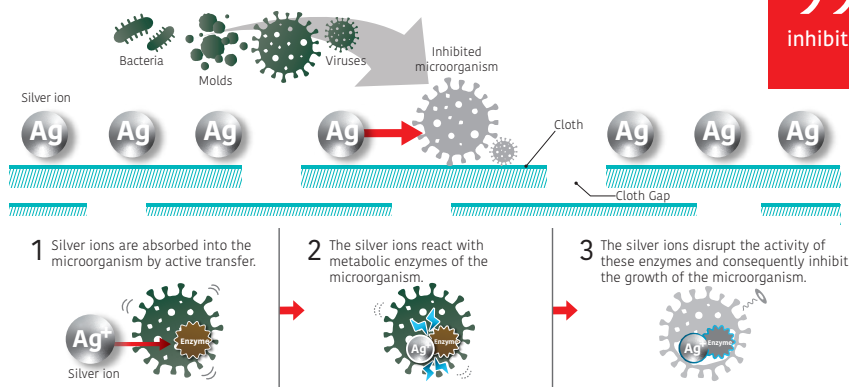
For Duct
UTD-HFTA / UTD-HFTB
UTD-HFTC / UTD-HFNC
UTD-HFNB / UTD-HFNA
UTD-HFND / UTD-HFKB
UTD-HFKA

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 with dust or droplet)

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



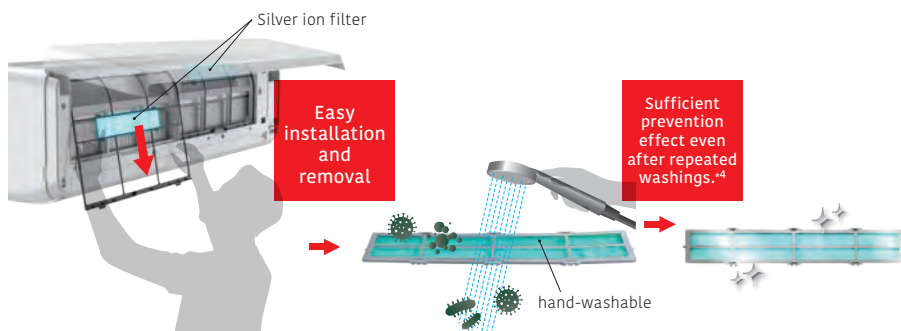
*1 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0408 [Test virus] Escherichia coli phage Qbeta NBRC 20012 (1 type) [Test Method] Based on the antiviral test method for textile products (JIS L 1922) [Test results] Inhibited by at least 99% in 24 hours. 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.



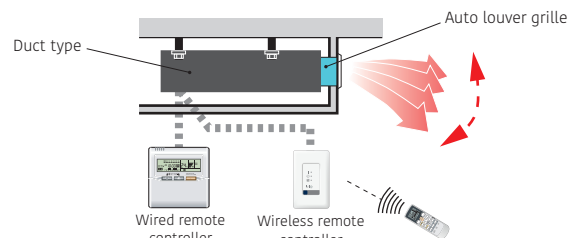
Closed louver



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		ARYG07/09LLTA ARXG07/09/12/14KSLAP ARXG07/09/12/14KLLAP ARYG07/09LSLAP	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		

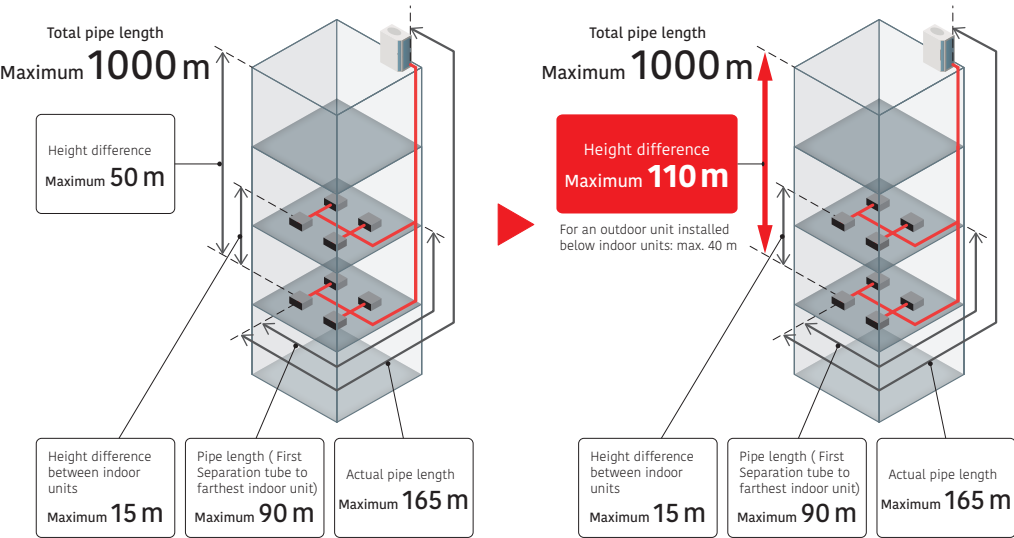
Pressure sensor kit

UTY-SPWX

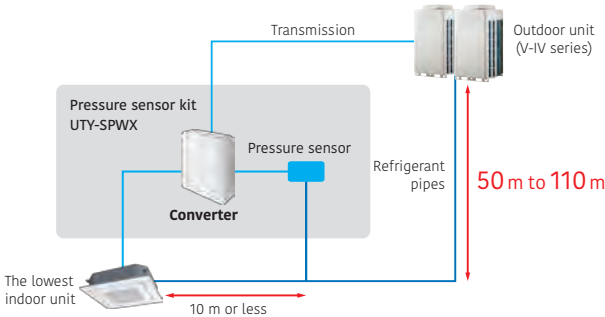


Design flexibility

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

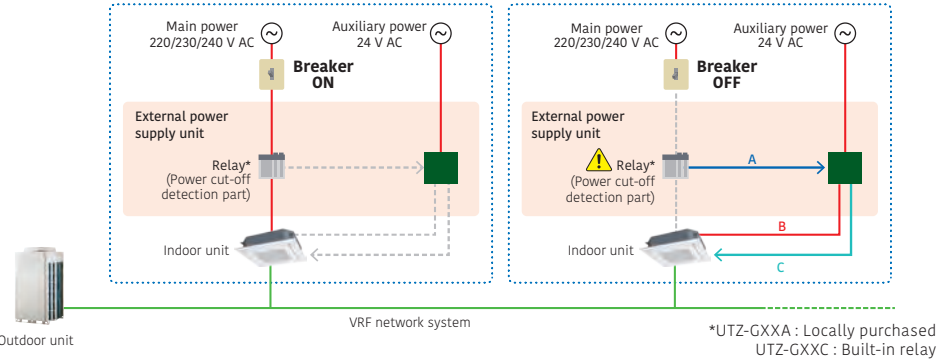


The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

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	

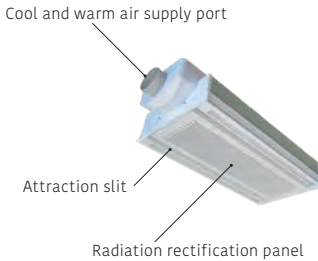
AIR BEAM

Radiation air outlet unit

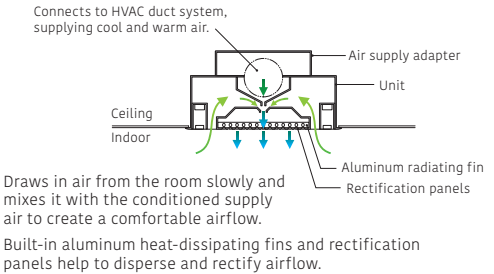
*Production by order
Contact us for more details.



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

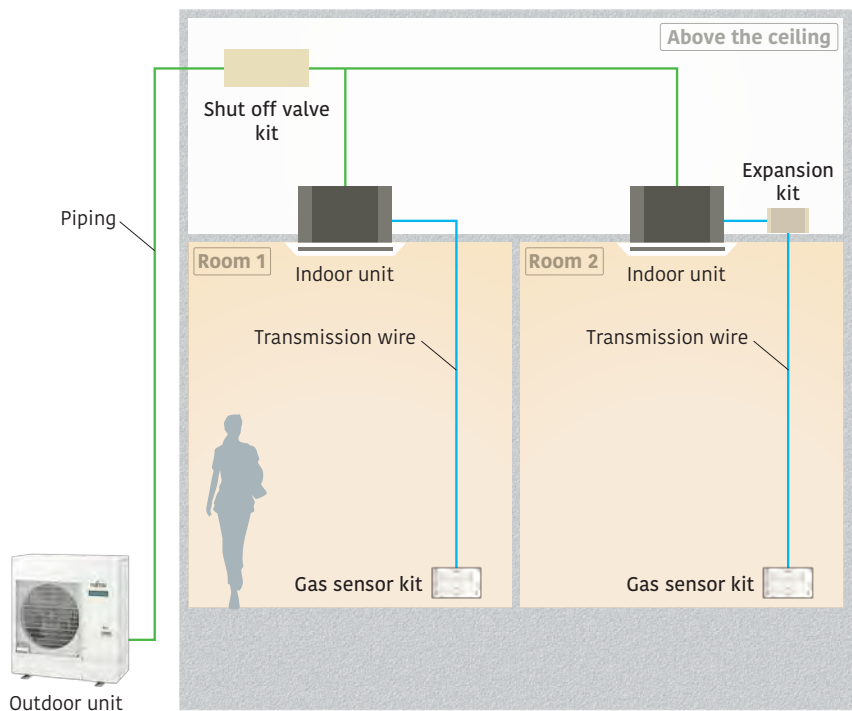
UTY-SGZY



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.

For Example: Total pipe length 120m



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.



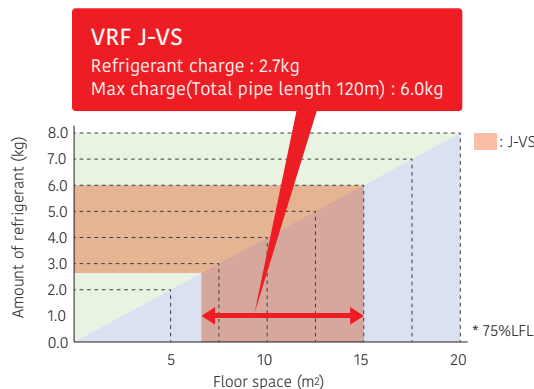
Gas sensor kit UTY-SGZY*

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

*Connection cable (UTY-XWZXZL) is required.

Conditions requiring safety measures

The graph below will help you determine if a safety design is required when installing R32 VRF products. The amount of refrigerant in a refrigerant system determines the floor area, and if the room to be conditioned by the system is less than that area, a “shut off valve kit” and a “gas sensor kit” must be installed.



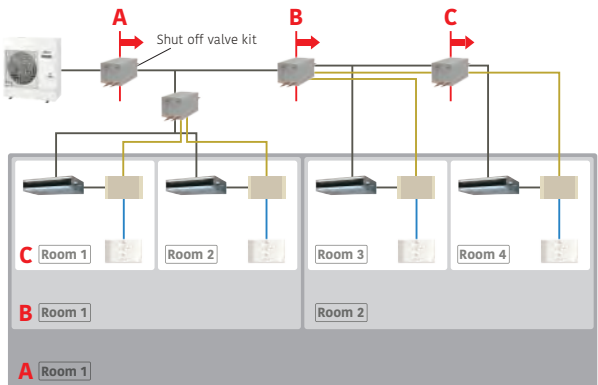
Features: Gas sensor kit

Refrigerant leak detector connection pattern

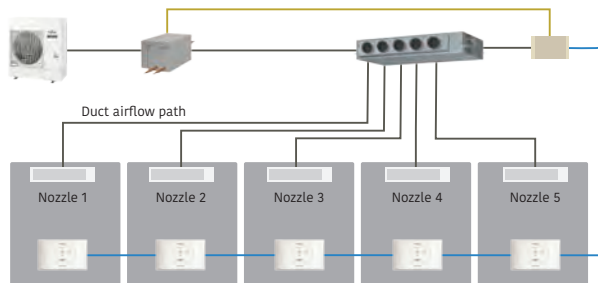
1) Corresponds to the case where the classification of air conditioner installation differs from property to property.

Installation position of “Shut off valve kit”

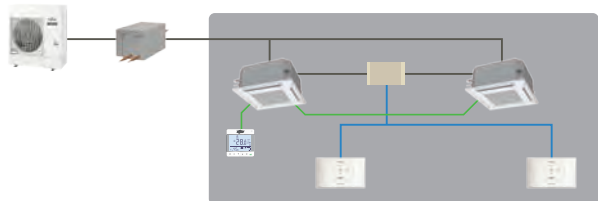
- A** Indoor unit 1~4 in one room
- B** Indoor units 1, 2 and 3, 4, if they are set up in two separate rooms.
- C** Indoor units 1~4 are installed in different rooms.



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



3) When operating multiple indoor units with a remote control group

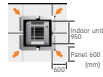
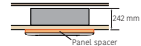
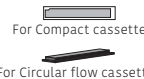


Specifications

Model name	UTY-SGZY
Dimensions (H × W × D) (mm)	80 × 130 × 35
Weight (g)	500

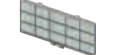
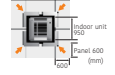
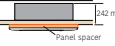
Optional parts list for Split/Multi-split



Type	Refrigerant	Indoor unit										
		Wall-mounted								Cassette		
	Designer Range		Standard Range		ECO Range				4-way flow Compact	Circular flow		
		ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASYG07/09/12/14KGTE	ASEG07/09/12/14 KETF, KETF-B, ASYG07/09/12/14 KETE, KETE-B	ASEH07/09/12/14KMCG, KMCG-B, ASYG07/09/12/14KMCF, ASYG07/09/12/14KMCE	ASEG18/24KMTE	ASEH30/36KMTB	ASEH05/07/09/12KNCA	ASEG07/09/12KPCE	ASEH07/09/12KLTA	ASEG18/24KLCA	AUXG 09/12/14/18/22/24 KVL A AUXG 18/22/24/30/36/45/54 KRLB	
												
Human sensor kit											 UTY-SHZXC	
Remote sensor unit	 The remote sensor provides additional convenience.											
Cassette grille	 UTG-UFYF-W UTG-UKYA-W UTG-UFYD-W UTG-UKYC-W UTG-UKYA-B									 UTG-UFYF-W	 UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-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 Panel 600 (mm) Panel 600 (mm)										 UTG-AKXA-W	
Panel spacer	 E42 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												

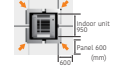
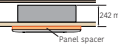
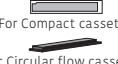
Optional parts list for split/Multi-split



Type	Refrigerant	Indoor unit						Indoor unit			
		Duct					Duct	Floor	Ceiling	Multi-split	
	Slim	Medium static pressure (High-Efficiency & Comfort)	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure	Big	4-way flow Compact cassette			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	AGEG09/12/14KVCA	ABEG 18/22/24/30/36/45/54 KRTA	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP
					ARYG60LHTA	ARYG72/90LHTA			AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA
Human sensor kit											
Remote sensor unit	 The remote sensor provides additional convenience.	● UTY-XSZXZ1								● UTY-XSZXZ1	
Cassette grille	 UTG-UFYF-W UTG-UKYA-W UTG-UFYD-W UTG-UKYC-W UTG-UKYA-B								● UTG-UFYF-W (KVLA), UTG-UFYD-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	 Indoor unit 600 Panel 600 (mm)										
Panel spacer	 142 mm 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													
		Duct													
		Cassette													
	One-way flow	3D flow	Compact grid type/ Standard type		Slim type	Large type	Mini (With drain pump)	Low static pressure			Low static pressure	Medium static pressure	High static pressure		
			High Efficiency	Circular flow		Slim (With drain pump)			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	
Human sensor kit						● UTY-SHZXC									
Remote sensor unit		● UTY-XSZXZ1													
Cassette grille		● UTG-UNYA-W (004-012) UTG-UNYB-W (014-024)	● UTG-USYA-W	● UTG-UFYE-W UTG-UFYC-W UTG-UFYH-W (HLAH)	● UTG-UFYH-W	● UTG-UKYC-W UTG-UKYA-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 (HLAH)		● UTZ-GXXA UTZ-GXXC			● UTZ-GXXA UTZ-GXXC	● UTZ-GXXA UTZ-GXXC (HLAH)		● UTZ-GXXA UTZ-GXXC			
Pressure sensor kit															
Gas sensor kit				● UTY-SGZY+ UTY-XWZXZL (HLAH)						● UTY-SGZY+ UTY-XWZXZL (HLAH)	● UTY-SGZY+ UTY-XWZXZL				

Optional parts list for VRF



Type	Refrigerant	Indoor unit				Indoor unit				Outdoor unit
		Floor		Floor/Ceiling	Ceiling	Wall-mounted		-	-	V-IV series
		-	external EEV			-	external EEV			
						ASYA 004/005/007/009/012/014 HCAH	ASYE 004/005/007/009/012/014 HCAH			
		AGYA 004/007/009/012/014 GCGH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASYA 004/007/009012/014 GCGH	ASYE 004/007/009012/014 GCEH	ASYA18/24GBCH	ASYA030/034GTEH	AJY 072/090/108/126/144/162 LALDH
Human 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 (HCAH)		● UTZ-GXXA UTZ-GXXC		
Pressure sensor kit										● UTY-SPWX
Gas sensor kit						● UTY-SGZY+ UTY-XWZXZL (HCAH)				

Function list for Split/Multi-split



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

Type			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
		ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASYG07/09/12/14KGTG	ASEG 07/09/12/14 KETF, KETF-B ASYG 07/09/12/14 KETE, KETE-B	ASEH07/09/12/14KMCB, KMCB-B, ASYG07/09/12/14KMCB, ASYG07/09/12/14KMCB	ASEG 18/24KMTE	ASEH 30/36KMTB	ASEH 07/09/12 KNCA	ASEG 07/09/12 KPCE	ASEH 07/09/12 KLTA	ASEG 18/24KLCA	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		
																		ARYG60LHTA	ARYG72/90LHTA

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-XWZX or ○ 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	Refrigerant	Indoor unit		Multi-split					Outdoor unit					
		Floor	Ceiling	Wall-mounted	Mini duct	Slim duct		Compact cassette	Single Split			Simultaneous multi-split		
		AGEG09/12/14KVCA	ABEG 18/22/24/30/ 36/45/54 KRTA	ASEG22KMTE	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP		AUXG07KVLA	AOEG30/36/45/54KBTB, AOEG36/45/54KRTA			AOEG36/45/54KBTB, AOEG36/45/54KRTA		
					ARYG07/09LSLAP		ARYG07/09LLTA	AUYG07/09LVLA		AOYG36/45/54/60LATT	AOYG45/54LBTA, AOYG72/90LRLA		AOYG36/45LBTB	AOYG36/45/54LATT
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-XWZX or ○ 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																
		Cassette						Duct										
		One-way flow	3D flow	Compact grid type/ Standard type		Slim type	Large type		Low static pressure		Low static pressure	Medium static pressure	High static pressure	Floor		Floor/Ceiling		
				Circular flow		Mini (With drain pump)	Slim (With drain pump)		High Efficiency	High Efficiency				Normal	Normal			
								High Efficiency										
	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	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH		
Input	Operation/Stop		● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB	
	All On/All Off																	
	Group stop																	
	Forced stop		● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB	
	Emergency stop		● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB	
	Forced thermostat off		● UTY-XWZXZE ○ UTY-XWZXZ7														● 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														● UTY-XWZXZC	
	Error status		● UTY-XWZXZC														● UTY-XWZXZC	
	Indoor unit fan operation status		● UTY-XWZXZC														● UTY-XWZXZC	
	Auxiliary heater output								● UTY-XWZXZC									
	Base pan heater																	
Other	Expansion kit				●UTZ-JXXA (HLAH)				●UTZ-JXXA (HLAH)									

*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	

Function list for VRF



External input and output function/External connect kit

Type	Refrigerant	Indoor unit				Outdoor unit					controller	Other	
		Wall-mounted				J-VS	J-IVL	J-IV	J-IVS	V-IV	VR-IV	Central remote controller	RB unit
	—	EEV external	—		J-VS	J-IVL	J-IV	J-IVS	V-IV	VR-IV			
		ASYA 004/005/007/009/012/014 HCAH	ASYE 004/005/007/009/012/014 HCAH		AJY 040/045/054 KCTAH								
		ASYA 004/007/009012/014 GCGH	ASYE 004/007/009012/014 GCEH	ASYA18/24GBCH	ASYA030/034GTEH	AJY 072/090/108/ 126/144/162 LELDH	AJY 040/045/054 LBLDH, AJY 040/045/054 LELDH	AJY 040/045/054 LCLDH	AJY 072/090/108/ 126/144/162 LALDH	AJY 072/090/108/ 126/144 GALDH	UTY-DCGYZ3	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			
Other	Expansion kit		● UTZ-JXXA (HCAH)										

*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

Communication system

External connect kit					
For indoor unit		For outdoor unit		For RB unit	Central remote controller
UTY-XWZXZ7		UTY-XWZXZD		UTY-XWZXZ6	
UTY-XWZXZB		UTY-XWZXZE		UTY-XWZXZB	
UTY-XWZXZC					
					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 ≤ 09 : UTR-EV09XB Model name ≥ 12 : UTR-EV14XB for compact wall-mounted type	Model name ≤ 09 : UTR-EV09XC Model name ≤ 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		
	3 outdoor units	2		

EV kit

Model name	UTR-EV09XB		UTR-EV14XB		UTR-EV09XC	UTR-EV14XC
Application model	ASYE004GCEH ASYE007GCEH ASYE009GCEH	AGYE004GCEH AGYE007GCEH AGYE009GCEH	ASYE012GCEH AGYE014GCEH	AGYE012GCEH AGYE014GCEH	ASYE004HCAH ASYE005HCAH ASYE007HCAH ASYE009HCAH	ASYE012HCAH ASYE014HCAH

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
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