

Light Commercial & Commercial, Residential CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
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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-018 IR receiver unit

CONVERTERS/ADAPTERS

- C-020 WLAN adapter
- C-024 Multiple protocol WLAN adapter

CENTRALIZED CONTROL





- C-025 Home central remote controller
- C-026 Central remote controller
- C-028 Touch panel controller
- C-032 System controller Software / System controller lite Software

CONVERTERS/ADAPTERS

- C-036 MODBUS® converter for indoor unit
- C-037 MODBUS® interface
- C-038 MODBUS® converter for VRF
- C-039 BACnet® interface
- C-040 BACnet® gateway Software
- C-041 BACnet® gateway Hardware
- C-042 BACnet®/MODBUS® router
- C-043 BACnet®/MODBUS® cloud device
- C-044 KNX® converter for indoor unit / KNX® converter for VRF
- C-045 KNX® interface
- C-046 Network converter for single-split type
- C-047 Network converter for LONWORKS™
- C-048 External switch controller / Signal amplifier

Optional parts

- C-060 Silver ion filter
- C-061 Auto louver grille kit
- C-062 Pressure sensor kit
- C-063 External power supply unit
AIR BEAM radiation air outlet unit
- C-064 Gas sensor kit
- C-074 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

NEW

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

IR receiver unit

For Duct type

IR receiver unit

For Cassette type

IR receiver unit

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



Converters/Adapters

For external control via BMS/Home Automation Systems

- MODBUS® converter for indoor units**
UTY-VMSX
- MODBUS® interface for indoor units**
Intesis
- KNX® converter for indoor units**
UTY-VK SX
- KNX® interface for indoor units**
Intesis
- WLAN adapter**
Intesis
- Network converter**
DC power supply type UTY-VTGX AC power supply type UTY-VTGXV

Air Conditioning Centralized control

Home central remote controller for 5 & 6-unit Multi-split type
Enables individual and central control.

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**
Available on the App Store and Google Play.

Simple, user-friendly interface design

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

On/Off
Temperature setting
Operation mode
Fan speed
Timer
Operation setting
Economy setting
Maintenance setting
Setting

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

- NEW** **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
- NEW** **Wireless Remote Controller**
UTY-LNVY
UTY-LNHY
- 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^{*2} Indoor units**

Touch panel controller
UTY-DTGYZ1 **Up to 400 Indoor units**

Central remote controller
UTY-DCGYZ3 **Up to 100 Indoor units**

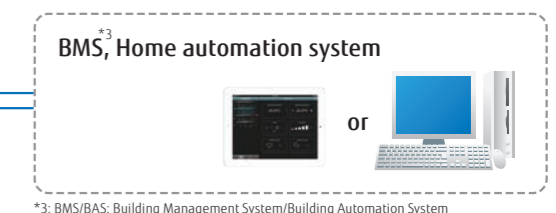
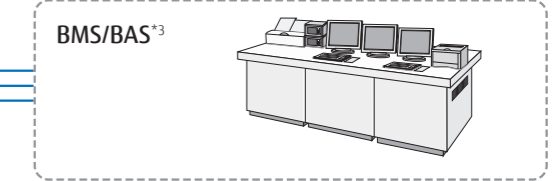
*1: Echelon® U10 USB Network Interface
*2: The Lite version controls up to 400 indoor units.



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-VKSX
- for VRF**
UTY-VKGX
- WLAN adapter**
UTY-TFSXJ3 / UTY-TFSXZ1
- External switch controller**
UTY-TERX



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

Converters/Adapters for system expansion

- Network converter DC power supply type**
UTY-VTGX **Single split**
- Network converter AC power supply type**
UTY-VTGXV **Single split**
- 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 | Simple remote controller | Wireless remote controller | Central remote controller | Touch panel controller | System controller | Network converter for LONWORKS™ | MODBUS® Converter | KNX® converter | External switch controller |
| | UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RVNYM UTY-RCRYZ1 | UTY-RSRY UTY-RHRY | UTY-LNVY UTY-LNHY UTY-LNTY | UTY-DCGYZ3 | UTY-DTGYZ1 | UTY-APGXZ1 UTY-ALGXZ1 | UTY-VLGX | UTY-VMGX | UTY-VKGX | UTY-TERX |
| 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 | Simple remote controller | Wireless remote controller | Central remote controller | Touch panel controller | System controller | BACnet® gateway | Network converter for LONWORKS™ | MODBUS® converter | KNX® converter | External switch controller |
| | UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RCRYZ1 | UTY-RSRY UTY-RHRY | UTY-LNVY UTY-LNHY UTY-LNTY | UTY-DCGYZ3 | UTY-DTGYZ1 | UTY-APGXZ1 UTY-ALGXZ1 | UTY-ABGXZ1 UTY-VBGX | UTY-VLGX | UTY-VMGX | UTY-VKGX | UTY-TERX |
| Local control for hotel guests | • | • | • | | | | | | | | |
| Centralized air conditioning control for common areas | | | | • | • | • | • | • | • | • | |
| Limited control for hotel guests | | | | • | • | • | • | • | • | • | |
| Remote monitoring management | | | | • | • | • | | | | | |
| Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc. | | | | | | • | • | | | | |
| Monitor energy consumption | | | | | | • | | | | | |
| Control third-party products | | | | | | • | | | | | |
| Integrate Fujitsu General air conditioning into BMS | | | | | | | • | • | • | • | |
| Interlock with window contact | | | | | | | | | | | • |
| Interlock with key card | | | | | | | | | | | • |

OFFICE

| Type | Individual control | | | Centralized control | | | Integrating control (Interface) | | | | |
|--|--|--------------------------|----------------------------------|---------------------------|------------------------|--------------------------|---------------------------------|---------------------------------|-------------------|----------------|----------------------------|
| | | | | | | | | | | | |
| | Wired remote controller | Simple remote controller | Wireless remote controller | Central remote controller | Touch panel controller | System controller | BACnet® gateway | Network converter for LONWORKS™ | MODBUS® converter | KNX® converter | External switch controller |
| | UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RCRYZ1 | UTY-RSRY UTY-RHRY | UTY-LNVY UTY-LNHY UTY-LNTY | UTY-DCGYZ3 | UTY-DTGYZ1 | UTY-APGXZ1 UTY-ALGXZ1 | UTY-ABGXZ1 UTY-VBGX | UTY-VLGX | UTY-VMGX | UTY-VKGX | UTY-TERX |
| Local control for office staff | • | • | • | • | | | | | | | |
| Automatic control of air conditioning (Schedule timer, Weekly timer, etc.) | • | | • | • | • | • | • | | | | |
| Centralized air conditioning control for management | | | | • | • | • | • | • | • | • | |
| Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc. | | | | • | • | • | • | • | • | • | |
| Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc. | | | | | | • | • | | | | |
| Remote monitoring management | | | | • | • | • | | | | | |
| Electricity charge apportionment | | | | | • | • | • | | | | |
| Monitor energy consumption | | | | | | • | | | | | |
| Control third-party products | | | | | | • | | | | | |
| Integrate Fujitsu General air conditioning into BMS | | | | | | | • | • | • | • | |
| Interlock with door contact | | | | | | | | | | | • |
| Interlock with 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-DMMYM | UTY-DCGYZ3 | UTY-DTGVZ1 | UTY-ALGXZ1 | UTY-APGXZ1 |
| Maximum number of controllable remote controller groups | 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 | 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 | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 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 |
| | ON/OFF timer | - | ● | ● | ● | ●(OFF only) | | - | ● | ● | ● | - | - | - | - | - |
| | Sleep timer | - | - | - | - | - | | - | ● | ● | ● | - | - | - | - | - |
| | Program timer | - | - | - | - | - | | - | ● | ● | ● | - | - | - | - | - |
| | Auto-off timer | ● | ● | ● | ● | - | | - | - | - | - | - | ● | ● | - | - |
| Day off | ● | ● | ● | ● | - | | - | - | - | - | ● | ● | ● | ● | ● | |
| Minimum unit of timer setting (minutes) | 1 • 10 | 10 • 30 | 30 | 30 | - | | - | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 | |
| Control | Remote monitoring management system | - | - | - | - | - | | - | - | - | - | - | ● | ● | ● | ● |
| | Electricity charge apportionment | - | - | - | - | - | | - | - | - | - | - | - | ○ | ○ | ● |
| | Error history | ● | ● | ● | ● | - | | - | - | - | - | - | ● | ● | ● | ● |
| | Emergency stop | - | - | - | - | - | | - | - | - | - | - | ●*2 | ●*2 | - | - |
| | Remote monitoring management | - | - | - | - | - | | - | - | - | - | - | ● | ● | ○ | ● |
| | Energy-saving management | - | - | - | - | - | | - | - | - | - | - | - | - | ○ | ○ |
| | E-mail notification in case of failure | - | - | - | - | - | | - | - | - | - | - | ● | ● | ● | ● |
| | Key lock | ● Child lock | ● Child lock | ● Child lock | ● Child lock | - | | - | - | - | - | - | ● Child lock | ● 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



NEW



Up to 16 indoor units
Up to 1 group



GOOD DESIGN AWARD 2022

Simple and stylish design that harmonizes with the space

- The new stylish design controller, UTY-RVRY, 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.



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.



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.

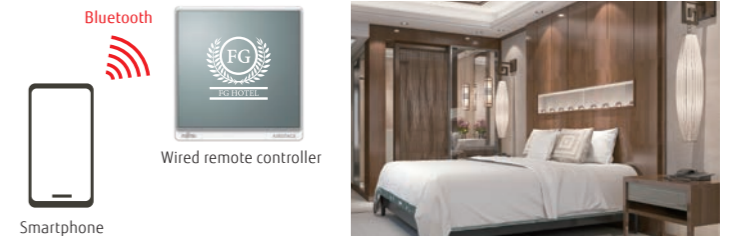
- * Display screen example
- * This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



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.

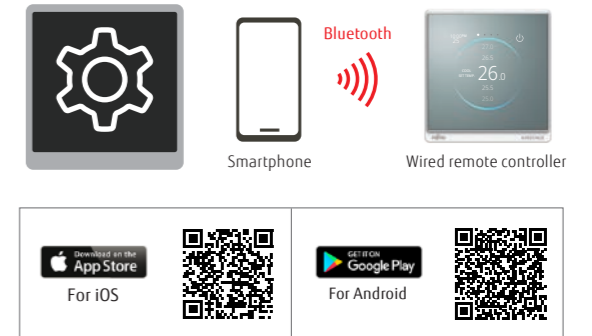
* Color display available



AIRSTAGE Remo Set application (free download)

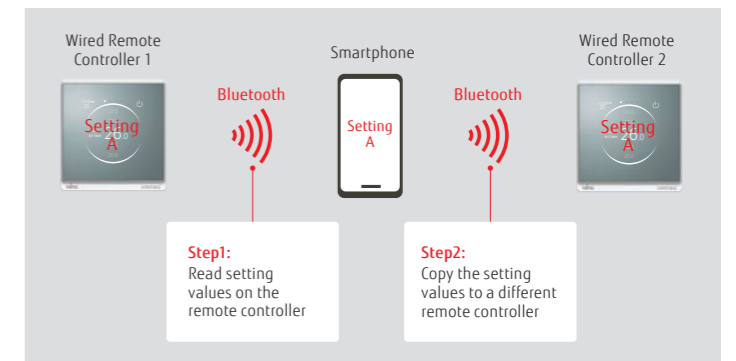
Set up your new Wired Remote Controller via Bluetooth from your smartphone (or directly at the controller).

- 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

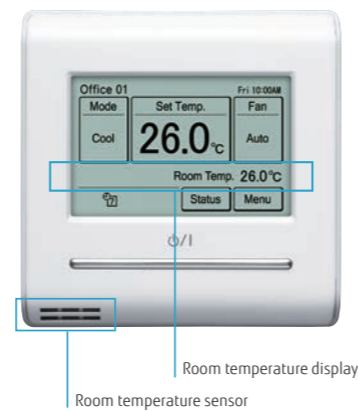
High performance and compact size

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.



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

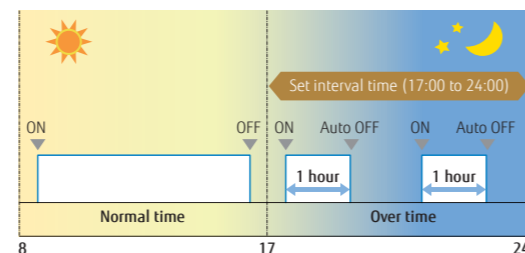
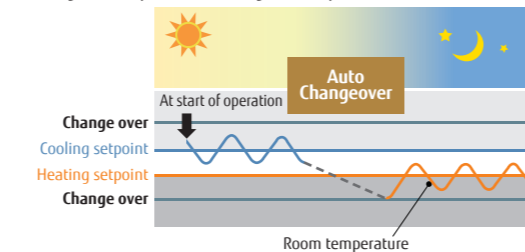
- While the Auto-off timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
- A desired time frame can be specified for the Auto-off timer.
- The off-time can be set from 30 to 240 minutes.

2-setting weekly timer

Set temperature auto return

Setting temperature range limitation

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



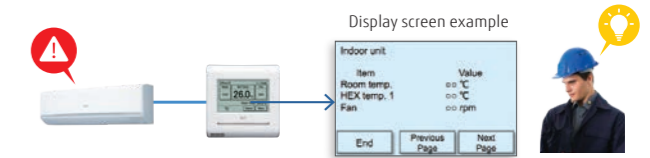
e.g.) Between 17:00 and 24:00 (over time hours), when the 1 hour set off time has elapsed, the system will automatically turn off the indoor unit as it

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.

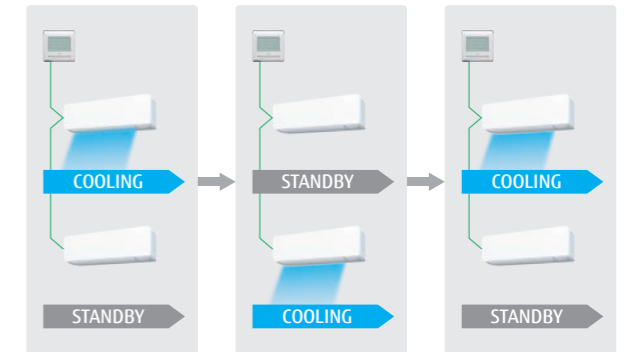
* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



Multi System Control*1

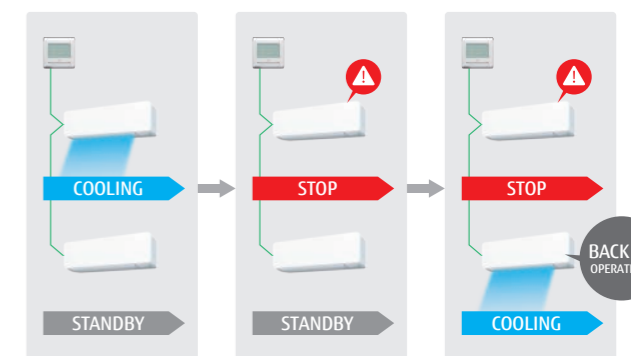
1) Lead Lag Operation

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



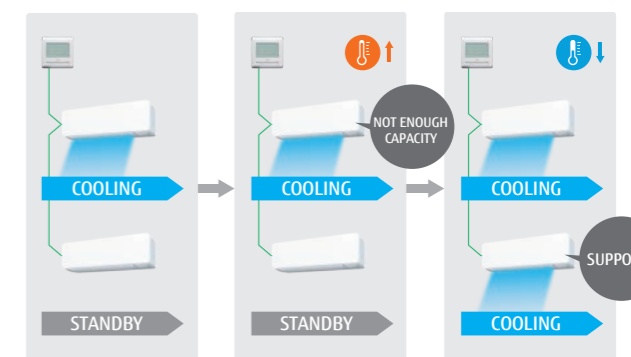
2) Back up operation

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



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

Up to
16 indoor units
Up to
1 group

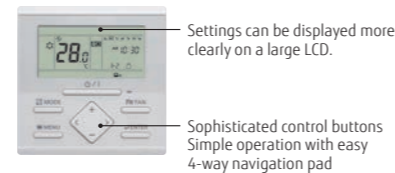
High performance and compact size

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



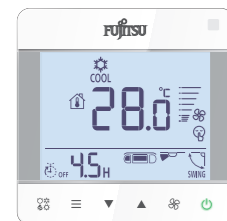
Visually intuitive operation

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



Compact wired remote controller

UTY-RCRYZ1

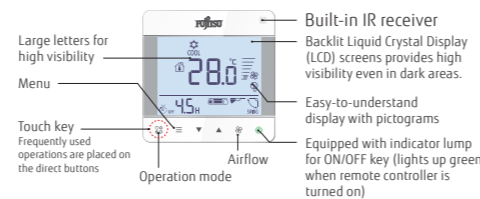


- Simple design that matches stylish interiors
- The body of the controller, which is easy to install, is designed to conform to the European standard junction box.
- Can be operated both by wireless and wired remote controller.
- Nonpolar 2-core type

Up to
1 indoor units
Up to
1 group

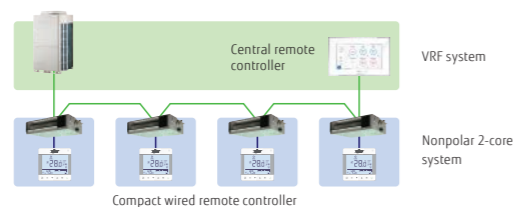
Large screen and simple display

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

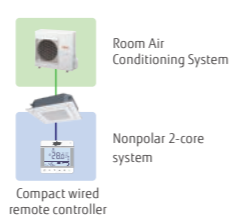


System overview

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



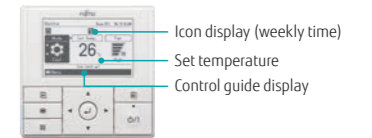
Up to
16 indoor units
Up to
1 group

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

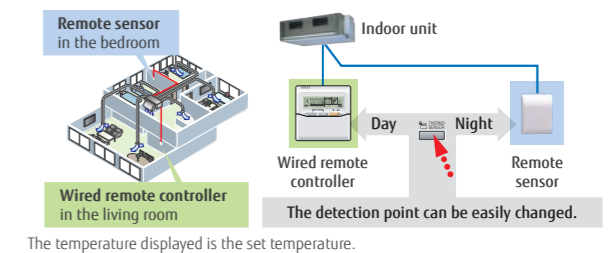


Up to
16 indoor units
Up to
1 group

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

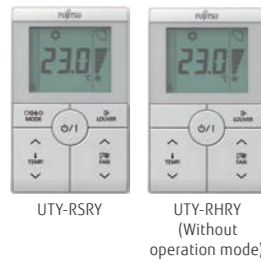
Specifications

| 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

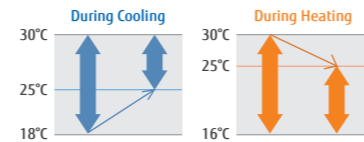
Up to
16 indoor units
Up to
1 group

Supports a variety of applications

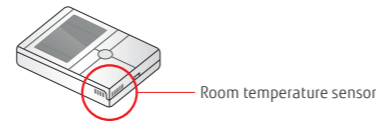
- **Vertical louver control:** Adjusts the vertical airflow direction of a duct-type indoor unit with an auto louver or a cassette type installed in a hotel room or a conference room.



- **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.



Wireless remote controller

UTY-LNTY



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

- Controls up to 16 indoor units.

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

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

Specifications

| Model name | UTY-RSRY | UTY-RHRY | UTY-LNTY |
|-----------------------------|-----------------|-----------------|------------------------------|
| Power source | 12 V DC | 12 V DC | 3.0V (1.5V R03/LR03/AAA x 2) |
| Dimensions (H × W × D) (mm) | 120 × 75 × 19.4 | 120 × 75 × 19.4 | 205 × 61 × 17 |
| Weight (g) | 120 | 120 | 125 |

12 V DC supplied by an indoor unit

Wireless remote controller

UTY-LNVY



NEW



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

New stylish design with backlight

- It has adopted a new 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

- Controls up to 16 indoor units.

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

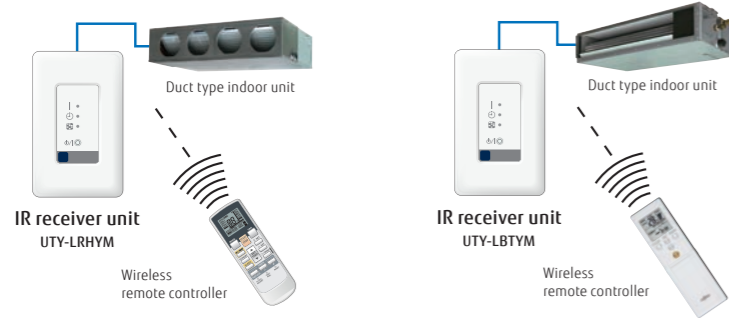
Different codes can be assigned to up to 4 indoor units to prevent a mix-up.
Wide and precise transmitting range

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 Receiver Unit >

| 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.

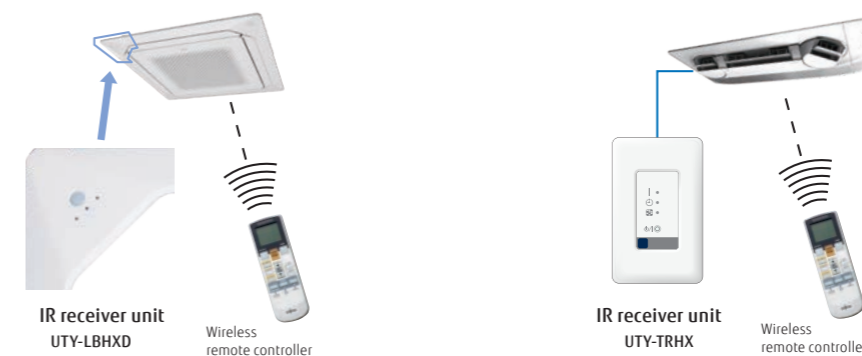


*A separate wireless remote control (model: UTY-LNHY) is required.

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 >

| 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)

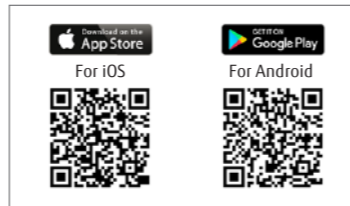
Up to
1 indoor units



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
- “AIRSTAGE Mobile” is an application software that enables you to operate the Fujitsu General’s air conditioners with a mobile device.



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



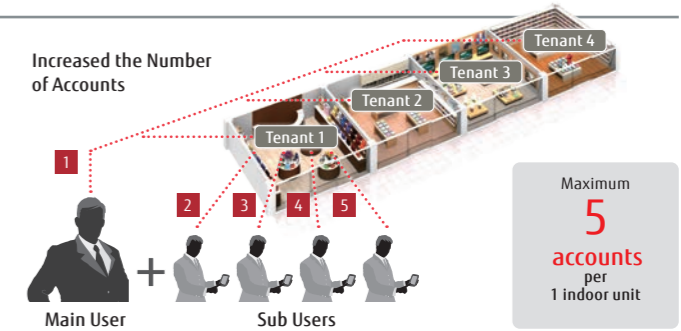
Weekly timer



Features: AIRSTAGE Mobile

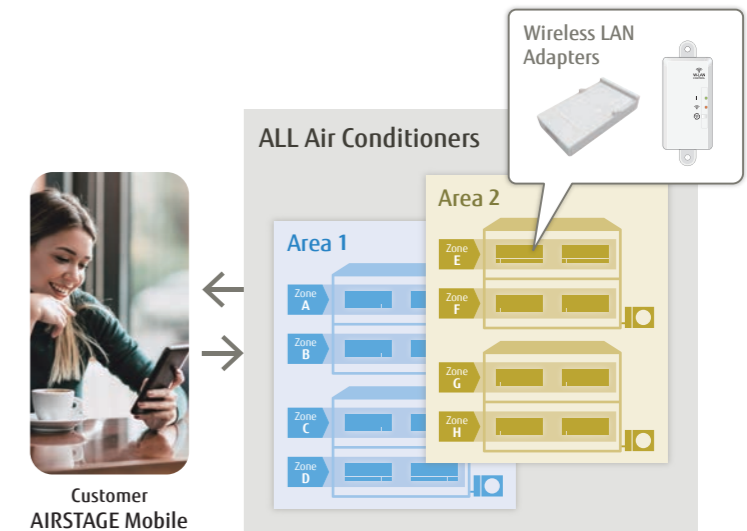
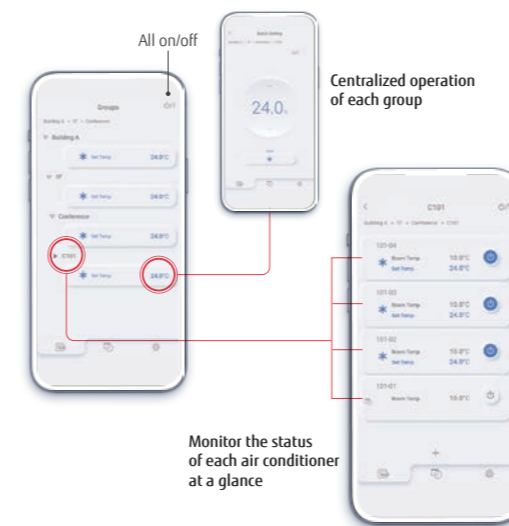
Centralized operation for flexible remote management of all air conditioners

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 easily manage the system at a low cost.



Hierarchical group management

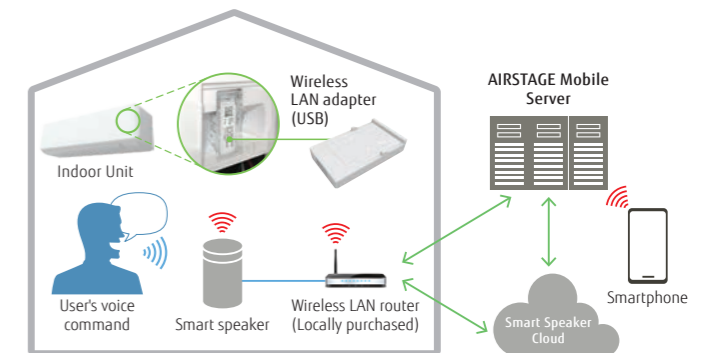
Multiple air conditioners can be combined into a single group for centralized operation. Several groups can also be organized at once. Grouping the air conditioners by building, floor, or room makes it easy for users to monitor their operation status and operate them quickly.



*One wireless LAN adapter is required per indoor unit.

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.



* The new WLAN adapters for AIRSTAGE Mobile are upper compatible for the indoor units that can connect the following WLAN adapters for FGLair.

| | CN connector type | USB type |
|---------------------|-------------------|------------|
| for FGLair | UTY-TFSXZ1 | UTY-TFSXF2 |
| for AIRSTAGE Mobile | UTY-TFSXJ3 | UTY-TFSXH3 |

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

UTY-TFNXZ1 / UTY-TFSXZ1 / UTY-TFSXF2



USB type for single-split models
UTY-TFSXF2

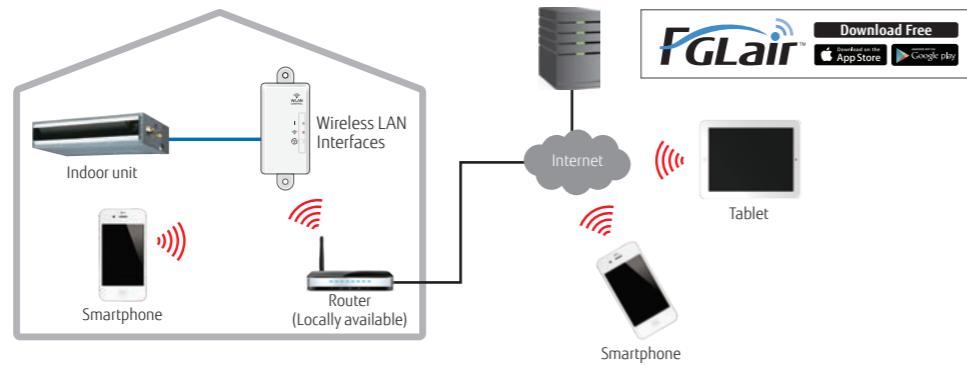


UTY-TFNXZ1
(3-wire RC-line type)
UTY-TFSXZ1
(CN connector type)

Up to
1 indoor units

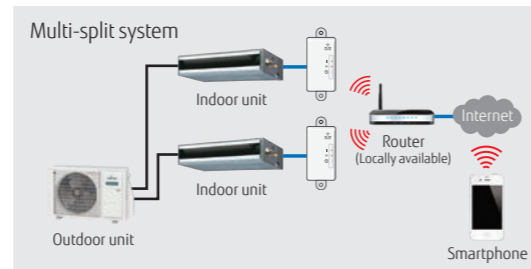


- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required
- Can be used for a Single / Multi and VRF indoor units.



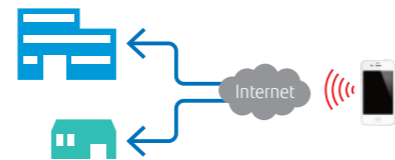
Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed control
- Louver position (airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting



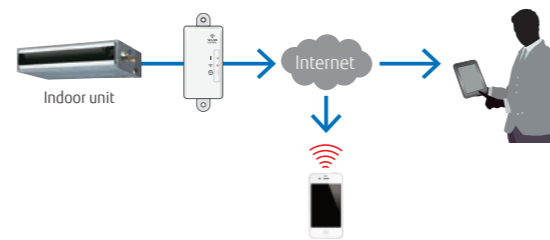
Multiple air conditioning management

- Manage multiple air conditioning systems in different locations.



Error alert and e-mail notice

- E-mail notification alerts
- Air conditioning malfunction alert
- Enables quick service response when errors occur.



WLAN adapter (USB type) UTY-TFSXF2

A compact USB type is available. No need for specialized installation. Easily installed on the indoor unit.



Specifications

| Model name | UTY-TFNXZ1 (3-wire RC-line type) | UTY-TFSXZ1 (CN connector type) | UTY-TFSXF2 |
|-----------------------------|----------------------------------|--------------------------------|------------------|
| Dimensions (H × W × D) (mm) | 71 × 38 × 15 | 71 × 38 × 15 | 56.7 × 34 × 9.72 |
| Weight (g) | 35 | 35 | 30 |

WLAN adapter

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



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



FG-AC-WIF1Z1
(CN connector type)



FG-IR-WIF1Z1
(IR type)

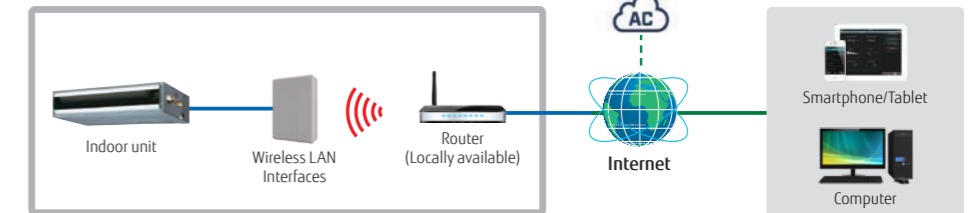
Up to
1 indoor units

AC Cloud Control

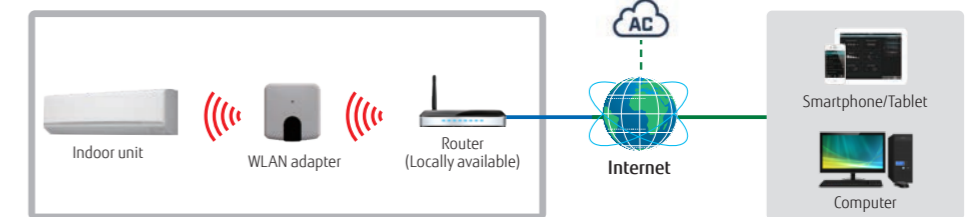
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

Installation example

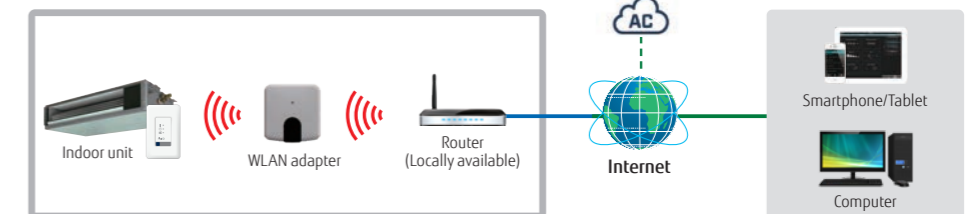
[3-wire RC-line type/CN connector type]



[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 HBS NETWORKS



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

Intesis
BY HBS NETWORKS



FG-AC-WMP1Z1
(CN connector type)

Intesis
BY HBS NETWORKS



FG-IR-WMP1Z1
(IR type)

Up to
1 indoor units

Specifications

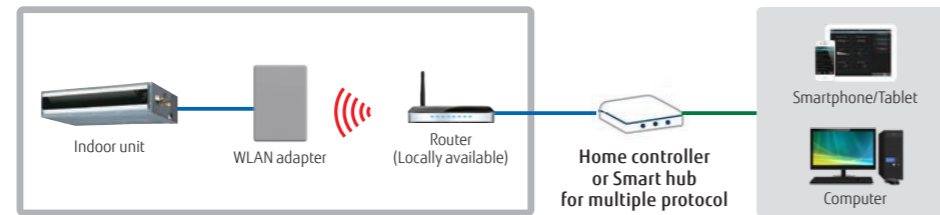
| Model name | FG-RC-WMP1Z1 (3-wire RC-line type) | FG-AC-WMP1Z1 (CN connector type) | FG-IR-WMP1Z1 (IR type) |
|-------------------------------|------------------------------------|----------------------------------|------------------------|
| Number of controllable groups | 1 | 1 | 1 |
| Dimensions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

AC Cloud Control

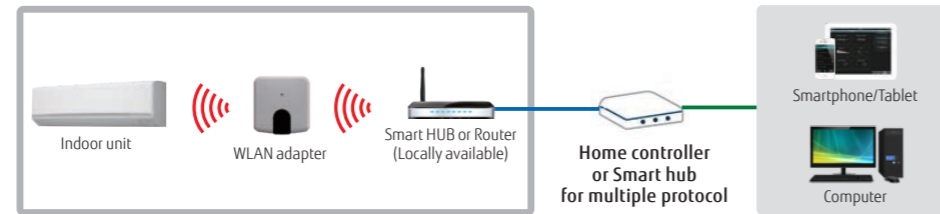
- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

Installation example

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



[IR type]



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

Multiple protocol LAN adapter

FG-TL-MBS16Z1



Intesis
BY HBS NETWORKS



FG-TL-MBS16Z1
(VRF type)

Up to
16 indoor units

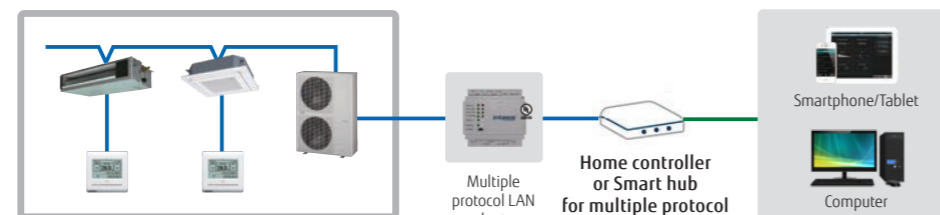
Specifications

| Model name | FG-TL-MBS16Z1 (VRF type) |
|-----------------------------|--|
| Power supply | 9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA.* |
| Input power (W) | 1.7 |
| Dimensions (H × W × D) (mm) | 90 × 88 × 56 |
| Weight (g) | 330 |

*24 V DC power supply is recommended.

Installation example

[VRF type]



*No separate external power supply required

Home central remote controller

UTY-DMMYM / UTY-DMMYM1

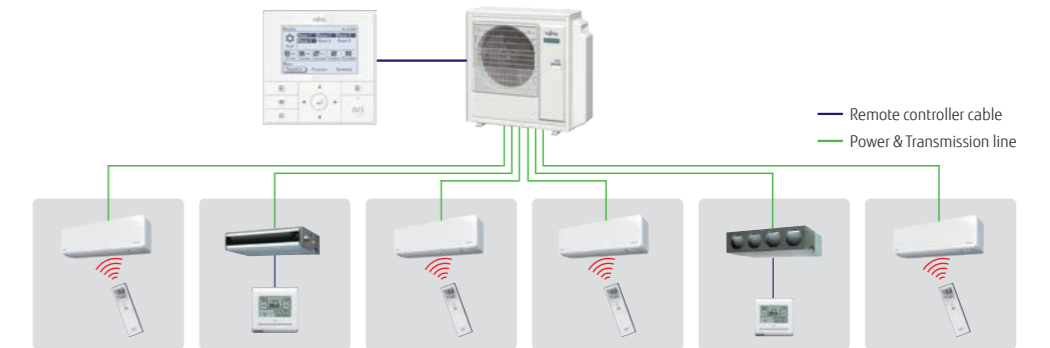


Up to
1 multi-split system
Up to
6 indoor units

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

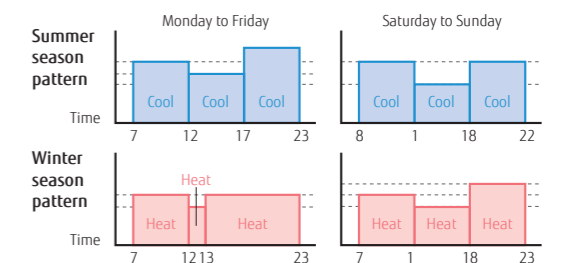
Example of system configuration



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.

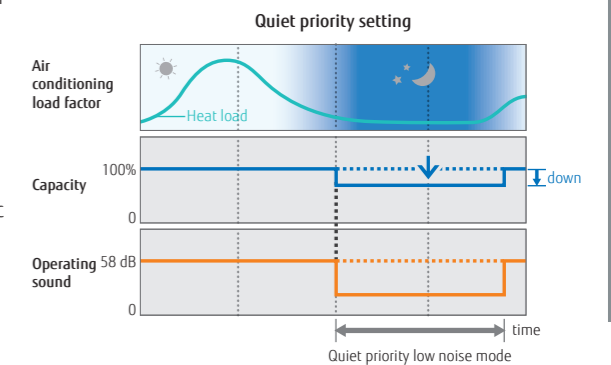
*Consult your dealer for conditions of use.

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



NEW



Up to **100** indoor units
Up to **50** groups

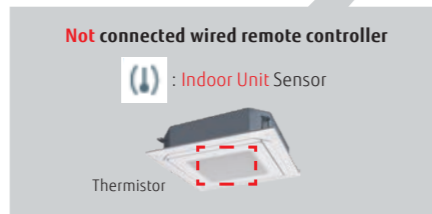
For tenants in small to midsize commercial premises

- 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)

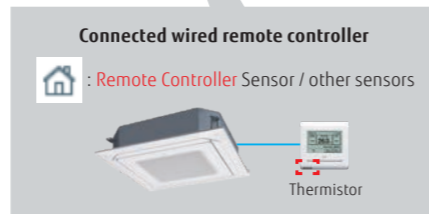
Easy operation

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

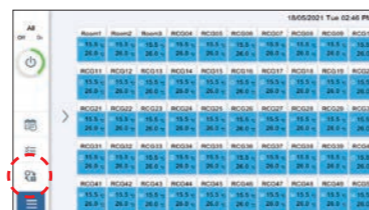
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor by each Groups

50 Remote Controller Groups Display



Manage & Monitor by 50 Remote Controller Groups



Remote Controller Groups Rename

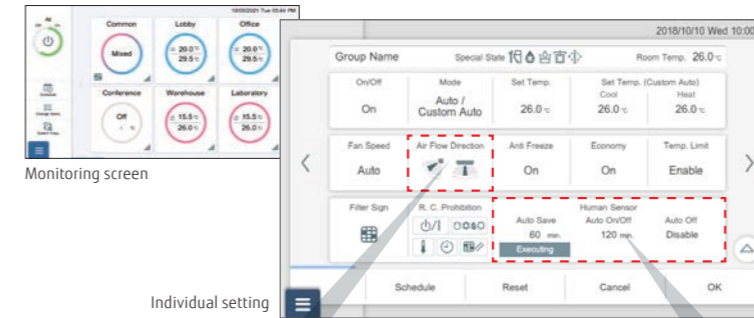
The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.



The remote controller group name can be changed.

Features: Central Remote Controller

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



Added individual wind direction control

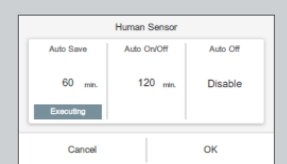
Individual wind direction control has been added.
Circular Flow cassette / 3D Flow cassette



Circular flow cassette

Human sensor Compatible

Human sensor setting
• Auto save
• Auto on / off
• Auto off detection time
• Enable and disable



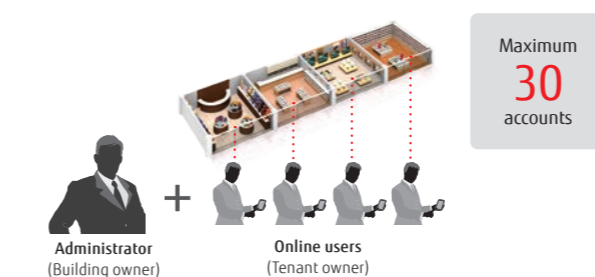
Remote Management

Remote monitoring / Remote operation

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*

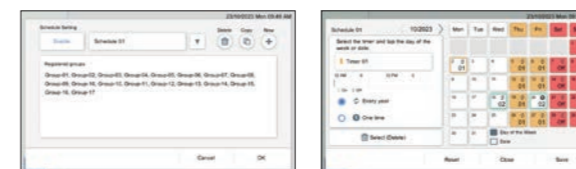
Notify by e-mail when the temperature around the air conditioner is too high or too low

*: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

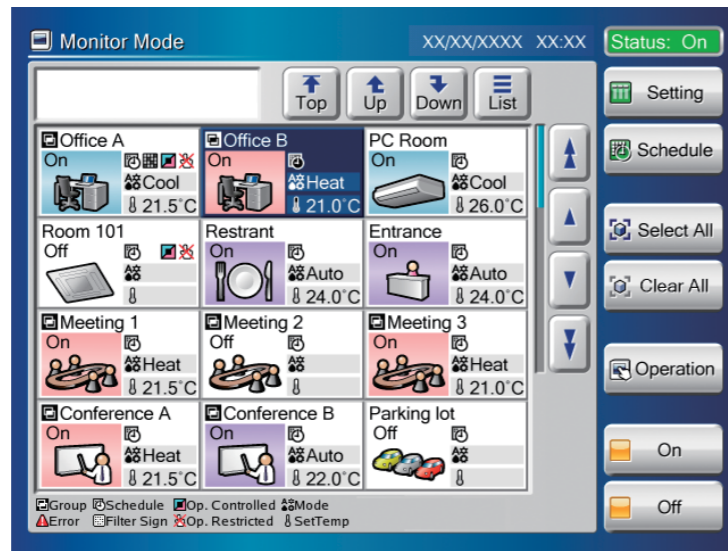


- Large 7.5-inch TFT color LCD screen
- Touch screen operation
- Stylish design to fit nicely into any room environment
- Controls up to 400 indoor units.
- Icon or list view can be selected in monitoring mode.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.
-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

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

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.



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.

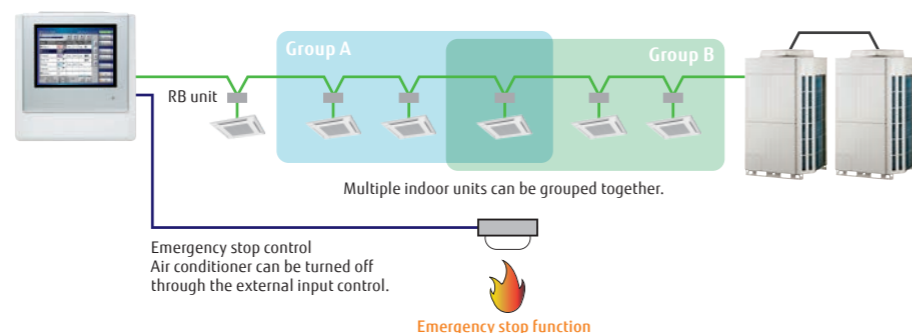


Easy installation

- 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



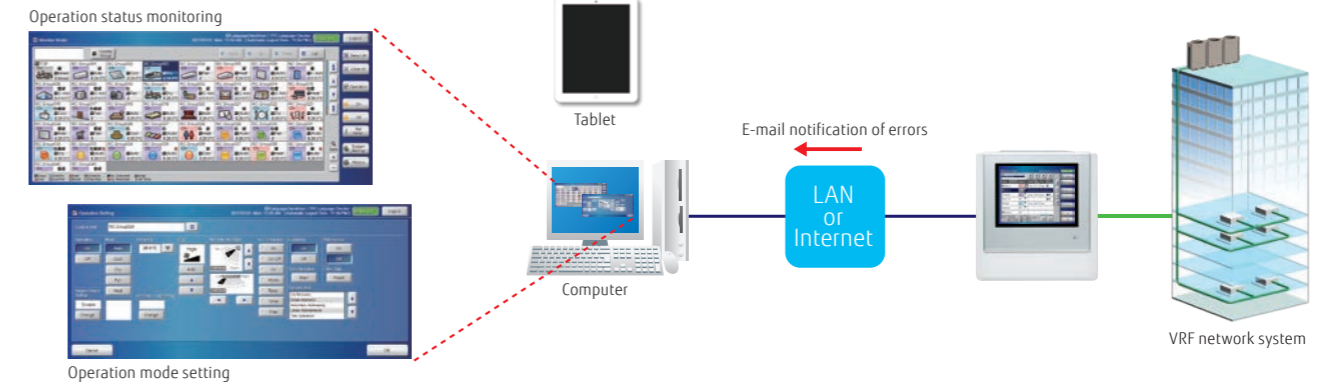
Controls up to 400 indoor units.



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

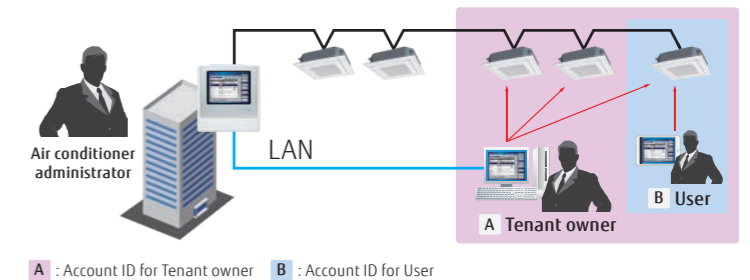
| Model name | Browser |
|--------------------------|-------------------|
| Nexus 6P (Android 7.1.1) | Google Chrome 5.5 |
| iPhone 7 (iOS 10.1) | Safari 10 |

Tablet

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

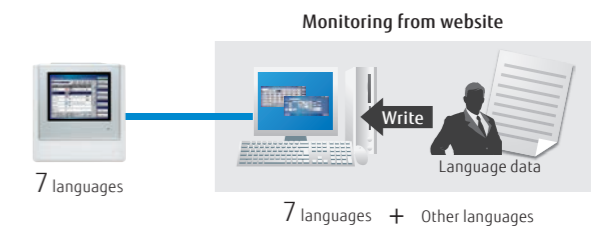
Flexible access permissions can be granted to users at each point level.

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



Additional languages

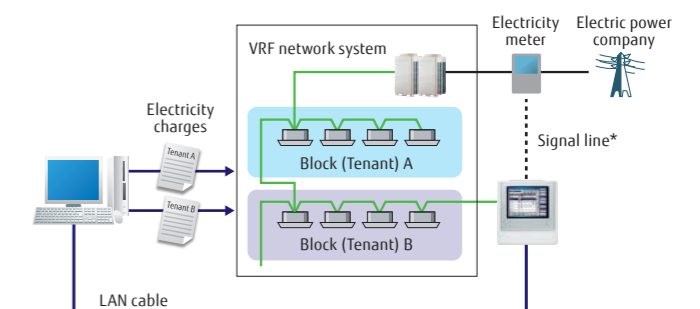
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



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



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

Features:

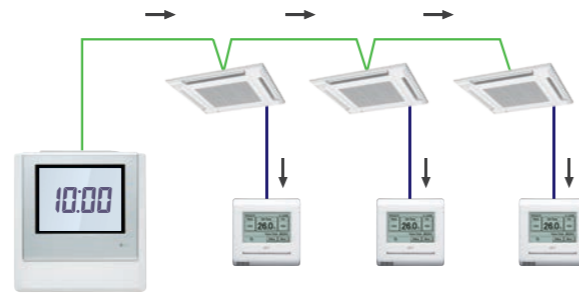
Automatic setting for daylight saving time

Functions provided

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

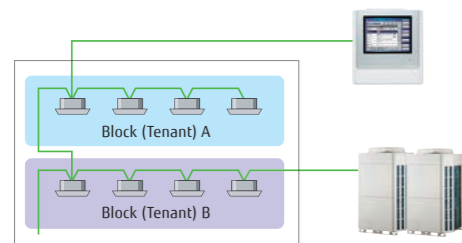
Automatic clock adjustment

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

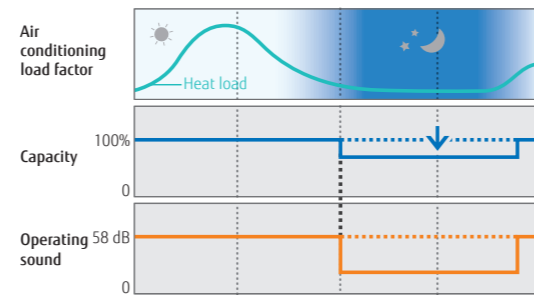


Outdoor unit low noise operation

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



Quiet priority setting



Energy-saving controls

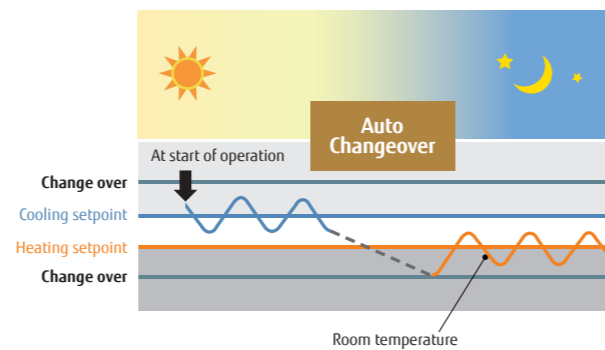
Custom Auto

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

* Not available for some models



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



Refrigerant leak 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

| | UTY-DTGYZ1 |
|-----------------------------|--|
| 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 | | |
| | Period | Year |
| Schedule timer | ON/OFF, Temp, Mode, Times per day | 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 systems
Up to
100 outdoor units
Up to
400 indoor units

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

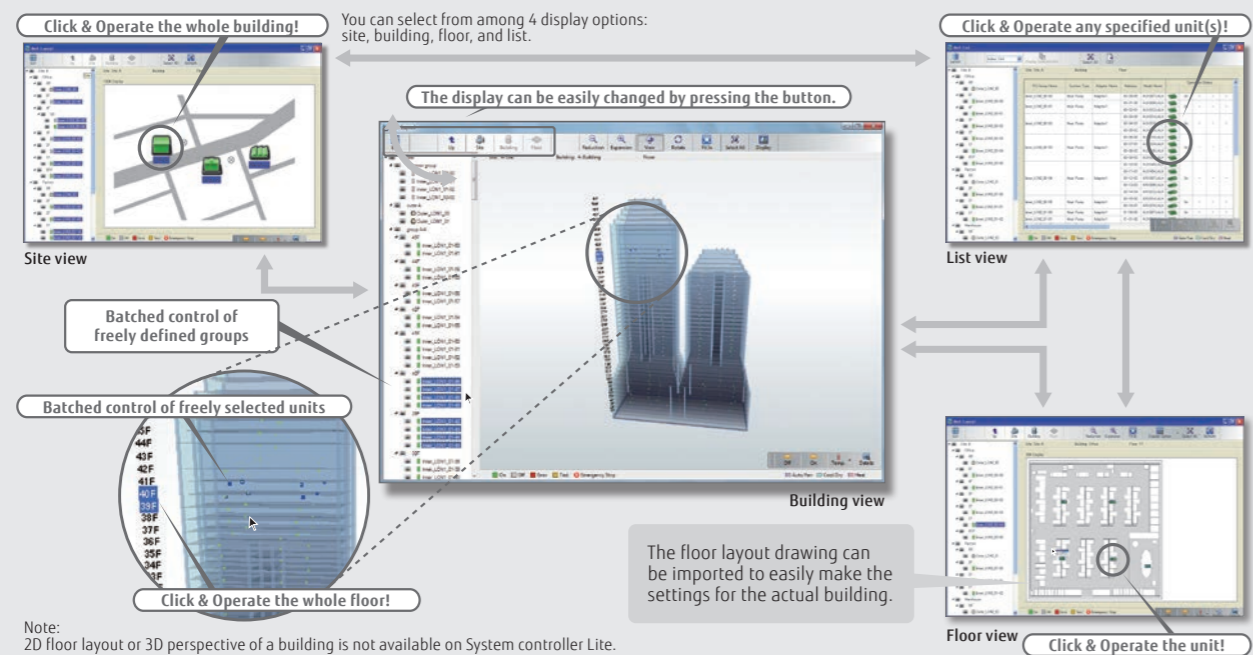
- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian,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



Visually intuitive operation

Click & Operate: The 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.



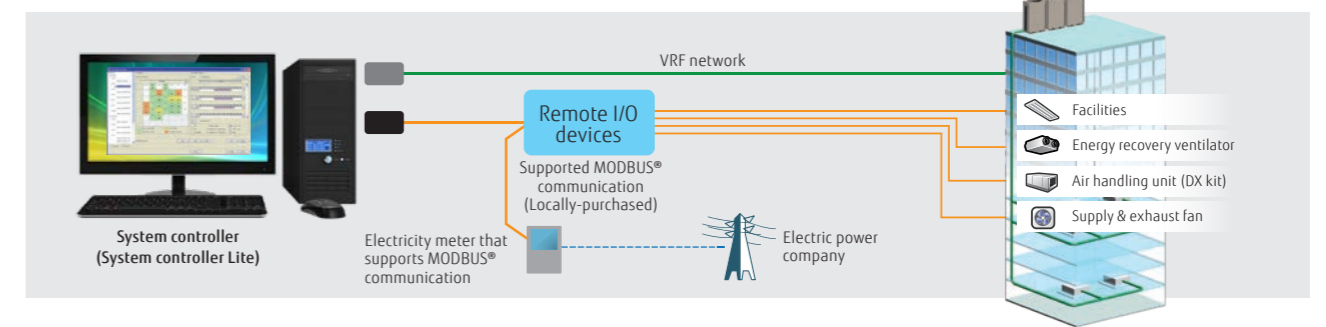
Note: 2D floor layout or 3D perspective of a building is not available on System controller Lite.

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.

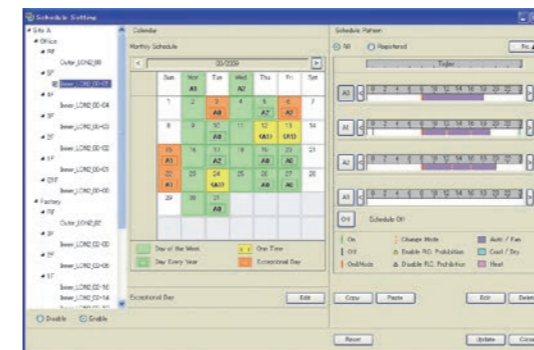


Wide-ranging operation and data management

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

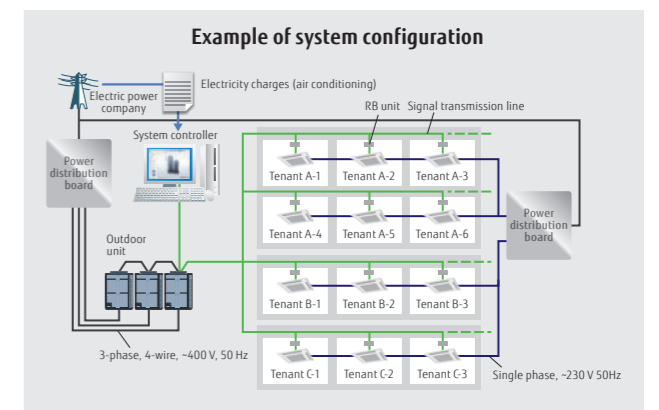
Time can be set for all controllers in batch automatically.

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.



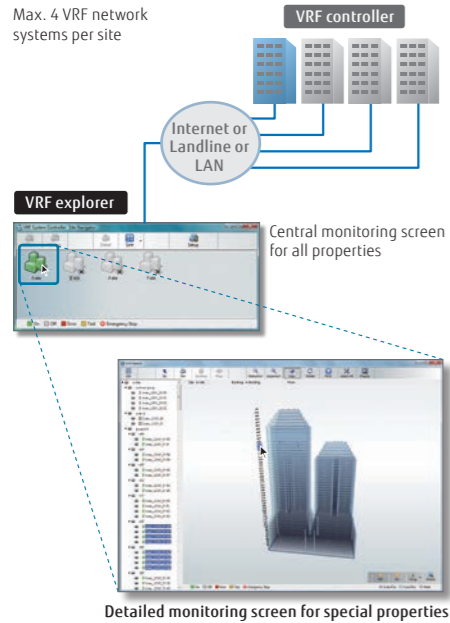
Features:

Remote monitoring management

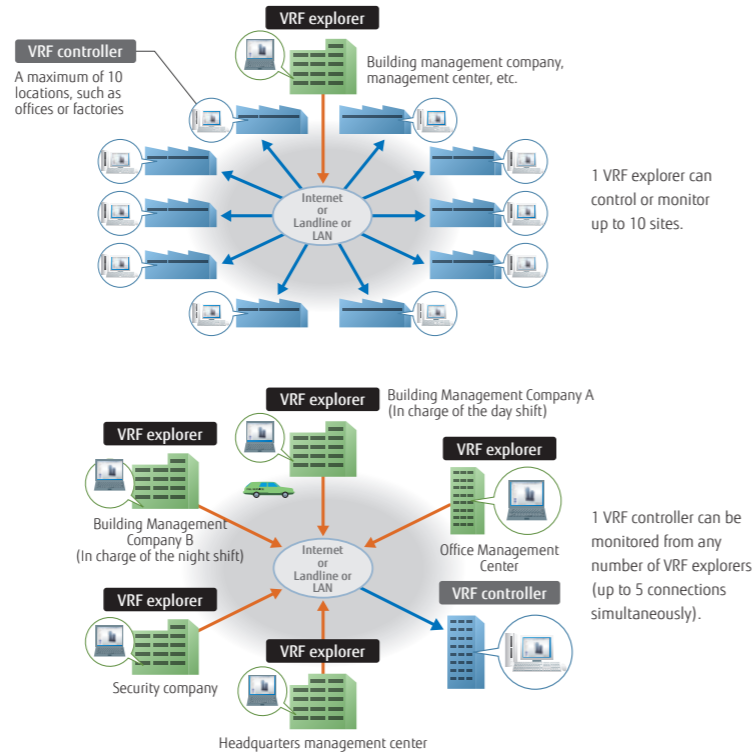
- Standard** on System controller
- Option** System controller Lite UTY-PLGXR2

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



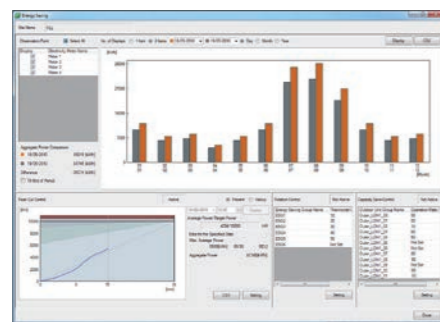
Remote central control



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 | — | — | — | — |
| 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 | ● | — | ● | — | — | — | — |
| 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 | ● | — | ● | — | — | — |
| | Individual management | Setting temperature range limitation | ● | — | ● | — | — | — |
| | | Anti-freeze | ● | — | ● | — | — | — |
| | | Low noise setting of outdoor units | ● | — | ● | — | — | — |
| | Other | Remote controller prohibition | ● | — | ● | — | — | — |
| | | Setting temperature range limitation | ● | — | ● | — | — | — |
| | | Filter sign reset | ● | — | ● | — | — | — |
| | | memory operations | ● | — | ● | — | — | — |
| Schedule | Annual Schedule | Pattern operations | ● | — | ● | — | — | |
| | | Annual Schedule | ● | — | ● | — | — | |
| | Setting for a specific date | ● | — | ● | — | — | — | |
| | ON/OFF per day | 72 | — | 72 | — | — | — | |
| | ON/OFF per week | 504 | — | 504 | — | — | — | |
| | Day off | ● | — | ● | — | — | — | |
| | Minimum unit of timer setting (minutes) | 10 | — | 10 | — | — | — | |
| 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 | ● | — | ● | — | — | — | |
| Importing and exporting databases | 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 | <ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish | <ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish |
| CPU | Intel® Core™ i3 2 GHz or higher | Intel® Core™ i3 2 GHz or higher |
| Memory | <ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) | <ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) |
| HDD | 40 GB or more of free space | 40 GB or more of free space |
| Displayed items | 1024 × 768 or higher resolution | 1024 × 768 or higher resolution |
| Interfaces | <ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) - Maximum of 2 USB ports are required to connect to a White-USB-key/WibuKey - Up to 4 USB ports required to connect to an Echelon® U10 USB network interface * Maximum number of required USB ports depends on the applicable system configuration. | <ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) - Maximum of 4 USB ports are required to connect to a White-USB-key/WibuKey - 1 USB port is required for an Echelon® U10 USB Network interface * The maximum number of required USB ports depends on the applicable system configuration. |
| Graphic accelerator | Microsoft® DirectX® 9.0c compatible | Microsoft® DirectX® 9.0c compatible |
| Software | Adobe® Acrobat Reader® 9.0 or later | Adobe® Acrobat Reader® 9.0 or later |

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

Packing list

| Type | For System controller | | | For System controller Lite | | | |
|---------------|-----------------------|-----------------------|------------------------|----------------------------|----------------------------------|---------------|---------------------|
| | System controller | Option Energy manager | System controller Lite | Remote access | 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

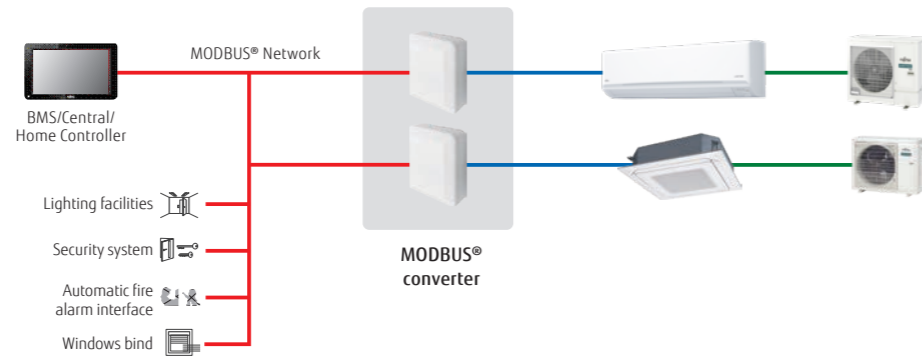
UTY-VMSX



Up to
1 indoor unit

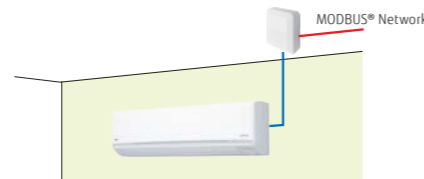
MODBUS® converter enables air conditioners to be fully integrated into a MODBUS® network.

- 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



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



FG-AC-MBS1Z1
(CN connector type)



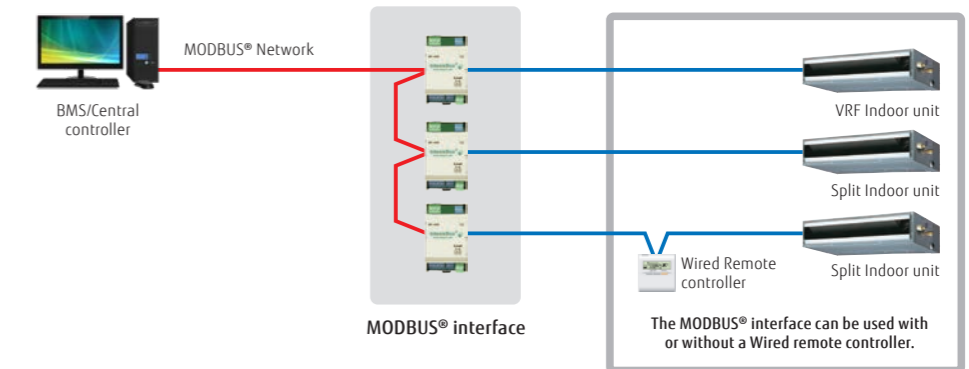
FG-IR-BMG1Z1
(IR type)

Up to
1 indoor unit

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

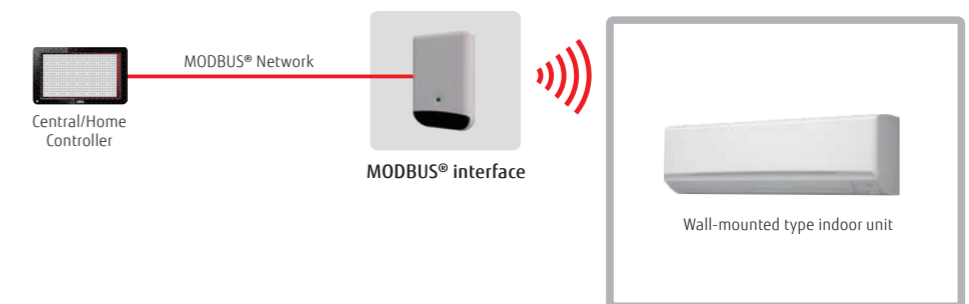
- Small, compact, and easy to install on DIN rails.
- No separate external power supply required.
- MODBUS® interface enables central monitoring and control of air conditioners from BMS.

Installation example



The MODBUS® interface can be used with or without a Wired remote controller.

[IR type] Connection to wall-mounted type

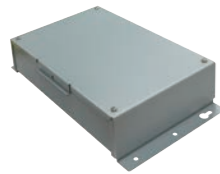


Specifications

| 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-MBS16Z1



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.

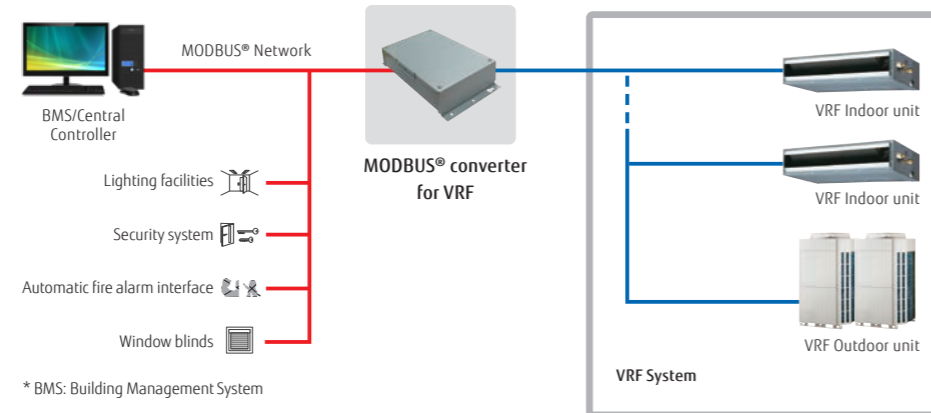
- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® convertor enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/ OFF and temperature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

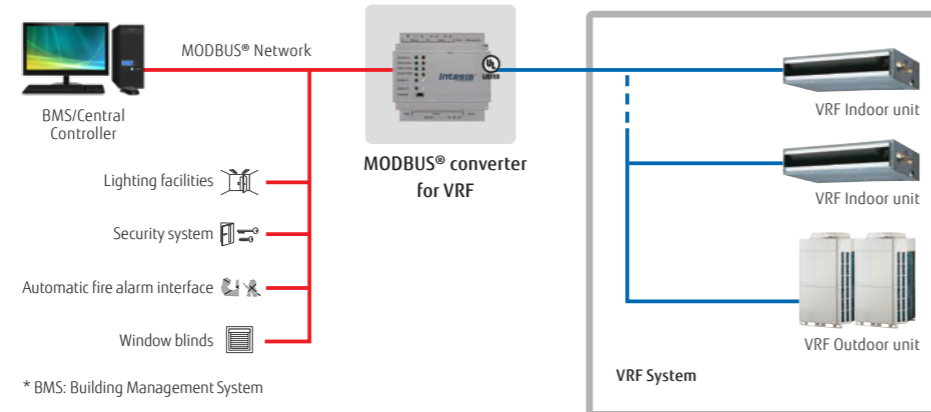


FG-TL-MBS16Z1

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



* BMS: Building Management System



* BMS: Building Management System

Specifications

| Model name | UTY-VMGX | FG-TL-MBS16Z1 |
|-----------------------------|-------------------------------------|--|
| Power supply | Single phase ~220 to 240 V 50/60 Hz | 9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA.* |
| Input power (W) | Max. 2 | 1.7 |
| Dimensions (H × W × D) (mm) | 54 × 260 × 150 | 90 × 88 × 56 |
| Weight (g) | 1,100 | 330 |

*24 V DC power supply is recommended.

BACnet® interface

FG-AC-BAC1Z1 / FG-IR-BMG1Z1



FG-AC-BAC1Z1 (CN connector type)

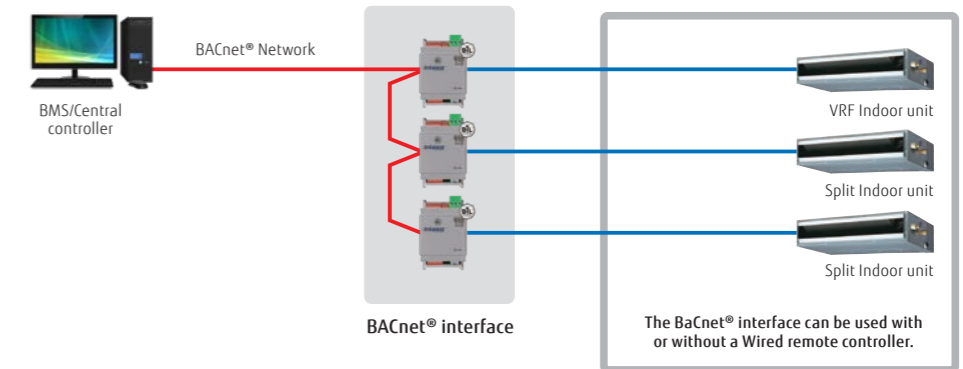


FG-IR-BMG1Z1 (IR type)

Up to
1 indoor units

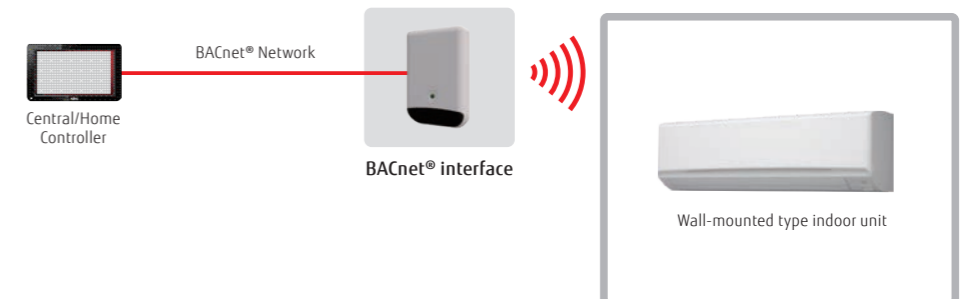
- BACnet® interface connects BMS and a Fujitsu General split/multi-split/VRF system.
- Compatible with BACnet® (ANSI/ASHRAE-135-2012) application-specific controller (B-ASC)
- Compatible with BACnet®/IP over Ethernet.

Installation example



The BACnet® interface can be used with or without a Wired remote controller.

[IR type] Connection to wall-mounted type



Specifications

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

12 V DC supplied by an indoor unit

BACnet® gateway

UTY-ABGXZ1 (Software)



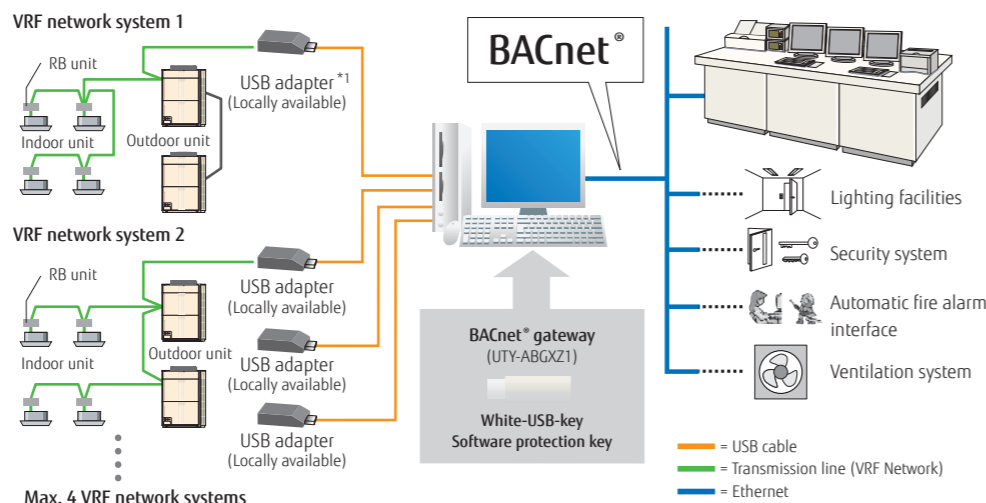
White-USB-key
(Software Protection Key)



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

Installation example



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

Computer requirements

| | UTY-ABGXZ1 |
|------------------|---|
| Operating system | <ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) Supported languages: Chinese, English, French, German, Polish, Russian, and Spanish |
| CPU | Intel® Core™ i3 2 GHz or higher |
| Memory | <ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) |
| HDD | 40 GB or more of free space |
| Displayed items | 1024 × 768 or higher resolution |
| Interfaces | <ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) Up to 5 USB ports - 1 USB port required to connect to a White-USB-key/WibuKey - Up to 4 USB ports required to connect to an Echelon® U10 USB network interface *The maximum number of required USB ports varies depending on the applicable system configuration. |
| Software | Adobe® Acrobat Reader® 9.0 or later |

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

Packing list

| Name and shape | Quantity | Application |
|----------------|----------|--|
| White-USB-key | 1 | Includes the software, user's manual, and license for BACnet® gateway. |

BACnet® gateway

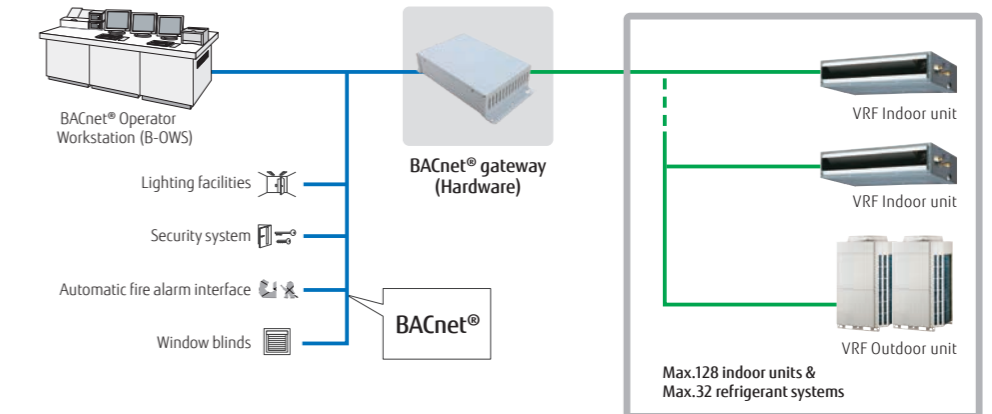
UTY-VBGX (Hardware)



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

Installation example



Max.128 indoor units &
Max.32 refrigerant systems

Specifications

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

BACnet®/MODBUS® router

FG-RTR-BAC32Z1 / FG-RTR-MBS32Z1



FG-RTR-BAC32Z1 (BAC net)



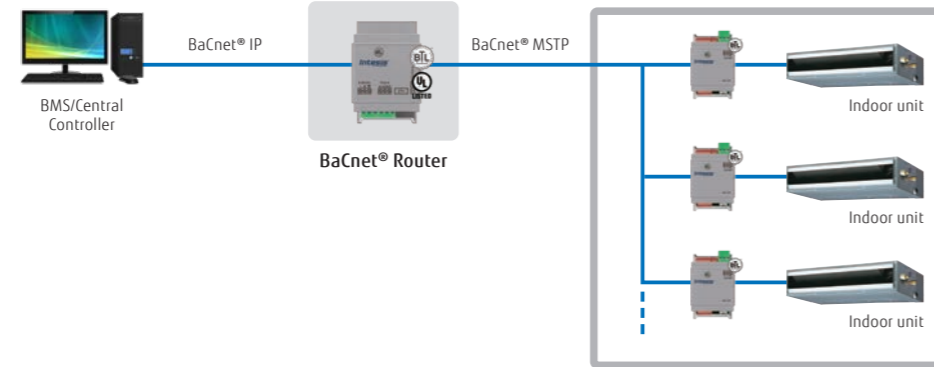
FG-RTR-MBS32Z1 (MODBUS®)

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

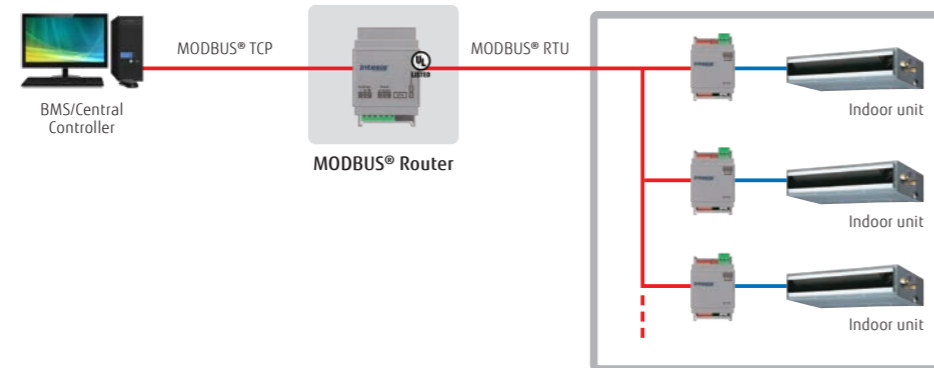
- Routing between BaCnet® MS/TP and BaCnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

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

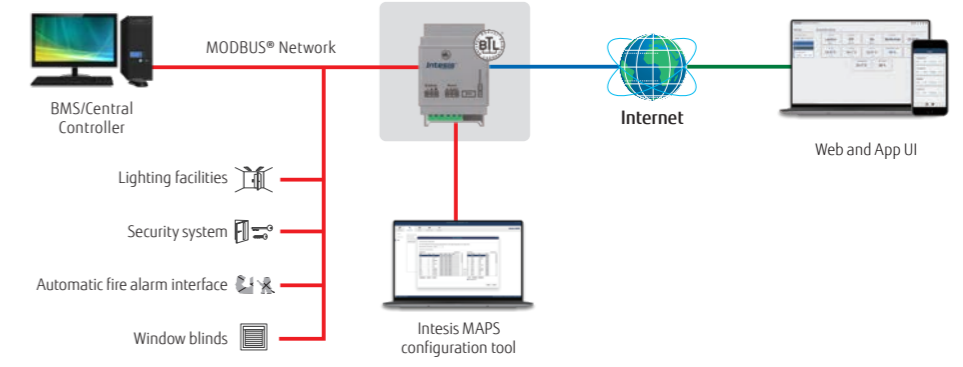
FG-CLD-BMG4Z1 / FG-CLD-BMG8Z1 / FG-CLD-BMG16Z1 / FG-CLD-BMG32Z1



FG-CLD-BMG4Z1

- 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

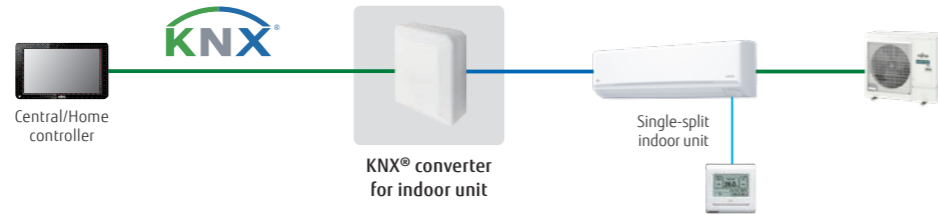
UTY-VKXSX



Up to
1 indoor unit

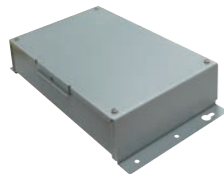
KNX® Converter enables individual control of an indoor unit.

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



KNX® converter for VRF

UTY-VKGX / FG-TL-KNX16Z1



UTY-VKGX

Up to
100 outdoor units
Up to
128 indoor units



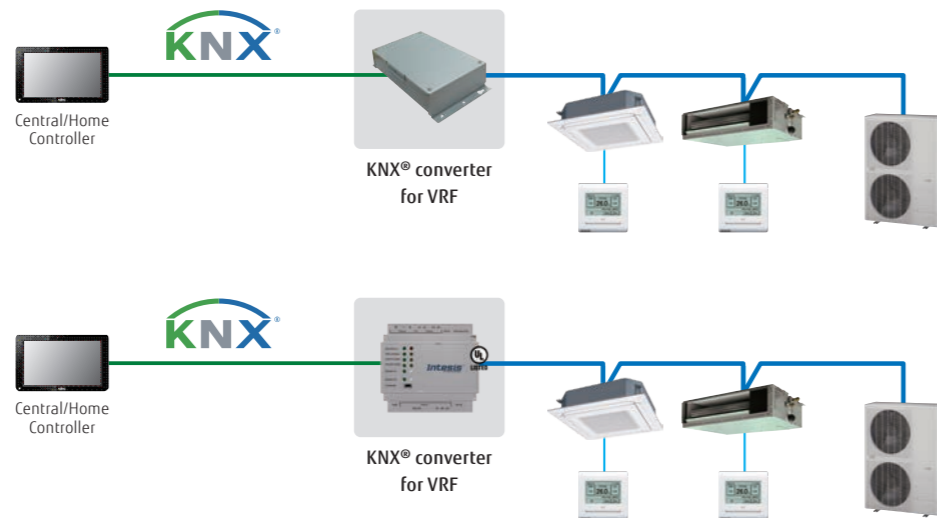
FG-TL-KNX16Z1

Up to
16 indoor units
Up to
16 outdoor 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-VKXSX | UTY-VKGX | FG-TL-KNX16Z1 |
|-----------------------------|----------------|-------------------------------------|--|
| Power supply | 12 V DC | Single phase ~220 to 240 V 50/60 Hz | 9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA.* |
| Input power (W) | 0.6 | 1.5 | 1.6 |
| Dimensions (H × W × D) (mm) | 140 × 117 × 43 | 54 × 260 × 150 | 90 × 88 × 56 |
| Weight (g) | 215 | 1,200 | 340 |

*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)

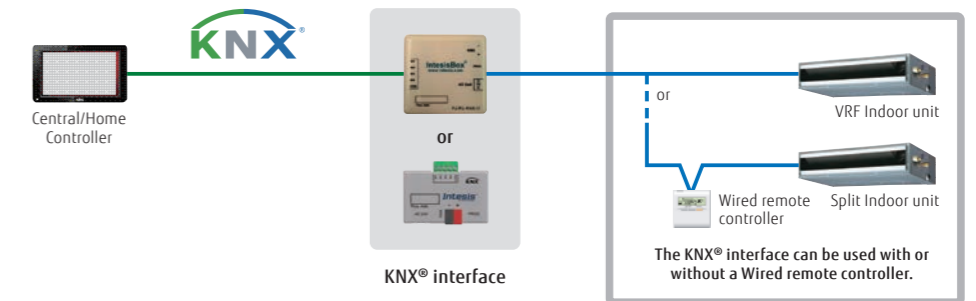
Up to
1 indoor unit

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

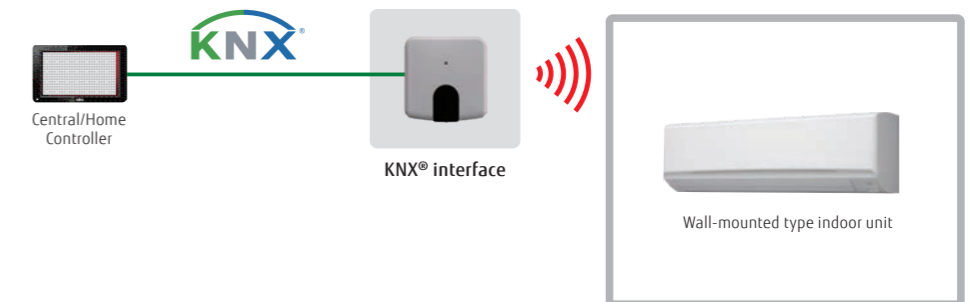
- Simple installation due to small and compact size.
- No separate external power supply required (only KNX® bus power required)

Installation example

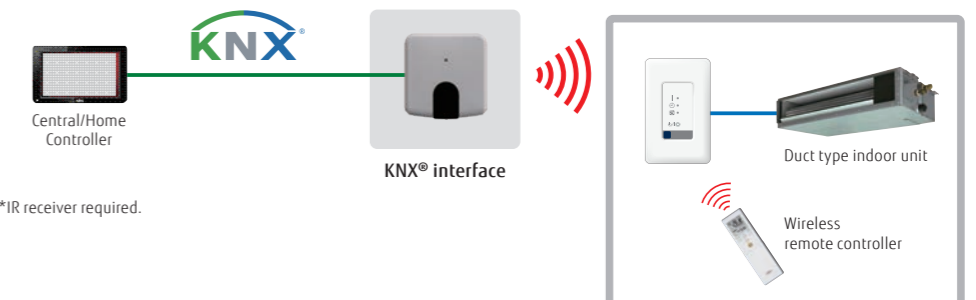
[3-wire RC-line type/CN connector type]



[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



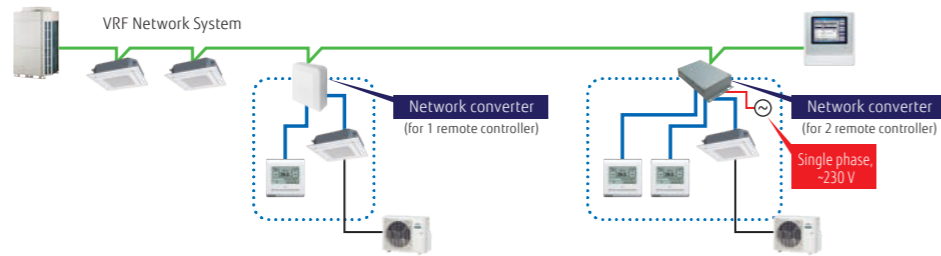
UTY-VTGXV
AC power supply type

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

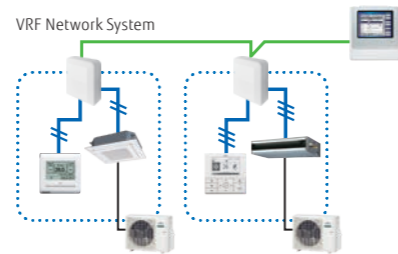
- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation example

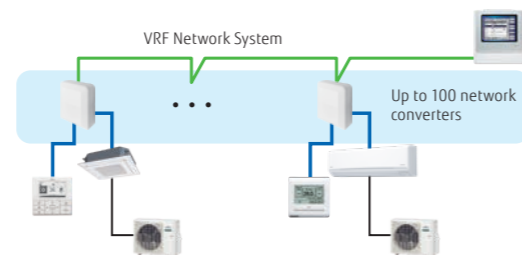
- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50/60 Hz) is required for the 2-remote-controllers type.



- 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)

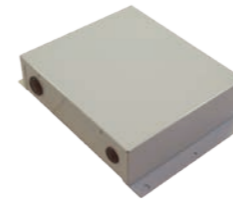


Specifications

| Model name | UTY-VTGX | | UTY-VTGXV |
|-----------------------------|----------------|----------------------|-------------------------|
| | Power supply | Polar 3-core 12 V DC | Nonpolar 2-core DC 12 V |
| 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™

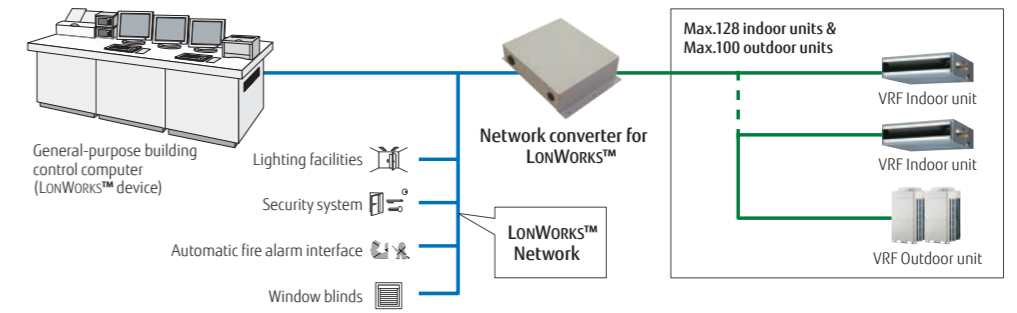
UTY-VLGX



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



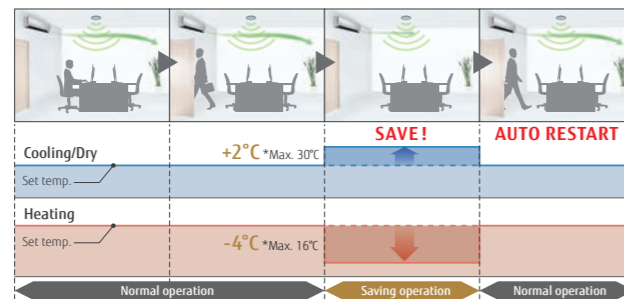
Up to
1 group

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

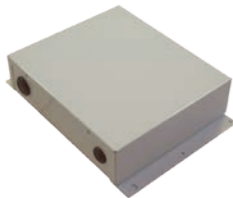
Human sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.



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

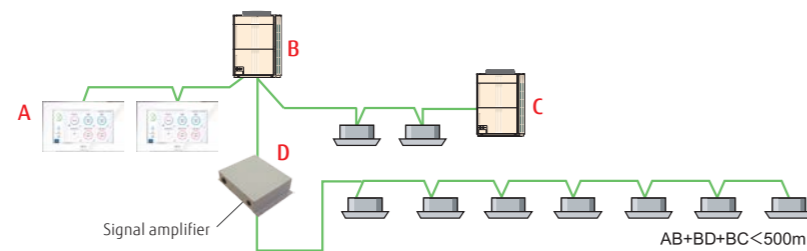
Signal amplifier

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 | | | | | | | | | | | | | | | | | | | | | | | Outdoor unit | | |
|--|--|--|--|----------------|----------------|--------------------|--------------------|--------------------|-----------------------------|--------------------------------|--------------------------|--------------------------------------|---------------------------------------|--|----------------------------------|-----------------------------------|----------------------|--------------------|--------------------------------|-------------|--------------|------------------|---------------------------------|--------------|----------------------|--------------|--|
| | | Wall-mounted | | | | | | | | | Cassette | | Duct | | | | | | | | | | Multi-split | | | | Single phase |
| | | Designer Range | | Standard Range | | | ECO Range | | | | Compact 4-way flow Range | Circular flow Range | Slim | Medium static pressure (High efficiency & EcoStar) | 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 | | |
| | ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASEH07/09/12/14KGTG, ASEG07/09/12/14KGTG, ASEG07/09/12/14KGTG, ASEG07/09/12/14KGTG, ASEG07/09/12/14KGTG, ASEG07/09/12/14KGTG, ASEG07/09/12/14KGTG, ASEG07/09/12/14KGTG | ASEG 07/09/12/14 KET, KET-B, ASYG 07/09/12/14 KET, KET-B | ASEH07/09/12/14KMG, ASYG07/09/12/14KMG, ASEH07/09/12/14KMG, ASEG07/09/12/14KMG, ASEG07/09/12/14KMG, ASEG07/09/12/14KMG, ASEG07/09/12/14KMG, ASEG07/09/12/14KMG, ASEG07/09/12/14KMG, ASEG07/09/12/14KMG | ASEG 18/24KMT | ASEH 30/36KMTB | ASEH 07/09/12 KNCA | ASEG 07/09/12 KPCE | ASEH 07/09/12 KLTA | AUXG 09/12/14/18/22/24 KVLA | 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 KMTP | ARXG 12/14/18/22/24/30/36/45/54 KHTAP | ARXG 24/30/36/45 KMLA | ARXG 45/54KHTB | ARYG 60LHTA | ARYG 72/90LHTA | AGEG 09/12/14 KVCA | ABEG 18/22/24/30/36/45/54 KRTA | ASEH 05KNCA | ASEG 22KMT | AUXG 07KVLA | ARXG 07/09/12/14/18 KSLAP | ARXG 07KLLAP | AOEG 36KBTA5 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | AOYG 45LBLA6 | |
| Controllers | | ● UTY-RVRY+ UTY-TWRXZ2 | | | | | | | | | ● UTY-RVRY | | ● UTY-RVRY | | | | | | | | | | ● UTY-RVRY+ UTY-TWRXZ2 | | | | ● UTY-RVRY |
| | | ● UTY-RNRYZ5+ UTY-TWRXZ2 | | | | | | | | | ● UTY-RNRYZ5 | | ● UTY-RNRYZ5 | | | | | | | | | | ● UTY-RNRYZ5+ UTY-TWRXZ2 | | | | ● UTY-RNRYZ5 |
| | | ● UTY-RLRY+ UTY-TWRXZ2 | | | | | | | | | ● UTY-RLRY | | ● UTY-RLRY | | | | | | | | | | ● UTY-RLRY+ UTY-TWRXZ2 | | | | ● UTY-RLRY |
| | | ● UTY-RCRYZ1+ UTY-TWRXZ2 | | | | | | | | | ● UTY-RCRYZ1 | | ● 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-TWRXZ2 | | | | | | | | | ● UTY-RSRY UTY-RHRY | | ● 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 | | | | | | | | | | | | ● UTY-LNTY | | | | |
| IR receiver unit with Wireless remote controller | For Duct type | | | | | | | | | | | | | | | | | | | | | | | | | | ● UTY-LRHYM |
| | For Duct type For Cassette type For Ceiling type | | | | | | | | | | ● UTY-LBTYC | | ● UTY-LBTYM | | | | | | | | | | ● UTY-LBTYM | | | | ● UTY-LBTYH |

*1: Available only when the WLAN adapter (UY-TFSXF2) is removed. *2 Available only when the WLAN adapter (UY-TFSXZ1) 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 | | Duct | | | | | | Floor | | Ceiling | | Multi-split | | | | | | | |
| | | Designer Range | | | Standard Range | | | ECO Range | | | Compact 4-way flow Range | Circular flow Range | Slim | Medium static pressure (High Efficiency & Ambient) | Medium static pressure (Compact) | Medium static pressure (Standard) | High static pressure | BIG | Floor | Ceiling | Wall-mounted | Compact cassette | Mini duct | Slim duct | | | | | | |
| 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 | ASEH07/09/12/14KMG, ASYG07/09/12/14KMG, ASYG07/09/12/14KMG | ASEG 18/24KMT | 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 KVLA | 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 | ARXG 24/30/36/45 KMLA | ARXG 45/54KHTB | | ARYG 60LHTA | ARYG 72/90LHTA | AGEG 09/12/14 KVCA | ABEG 18/22/24/30/36/45/54 KRTA | ASEH 05KNCA | ASEG 22KMT | AUXG 07KVLA | ARXG 07/09/12/14/18 KSLAP | ARXG 07KLLAP | | | | | |
| Interfaces | MODBUS® Converter | ● UTY-VMSX | | | | | | | | | ● UTY-VMSX | | ● UTY-VMSX | | | | | | ● UTY-VMSX*2 | | ● UTY-VMSX | | ● UTY-VMSX*1 | | | | ● UTY-VMSX | | | |
| | MODBUS® interface | ● FG-AC-MBS1Z1 | | | | | | | | | ● FG-RC-MBS1Z1 ● FG-AC-MBS1Z1 | | ● FG-RC-MBS1Z1 ● FG-AC-MBS1Z1 | | | | | | ● FG-AC-MBS1Z1 | | ● FG-RC-MBS1Z1 ● FG-AC-MBS1Z1 | | ● FG-AC-MBS1Z1 | | ● FG-AC-MBS1Z1 | | | | ● FG-RC-MBS1Z1 ● FG-AC-MBS1Z1 | |
| KNX® converter | IR type | ● FG-IR-BMG1Z1 | | | | | | | | | ● FG-IR-BMG1Z1+ ● UTY-LBTYC | | ● FG-IR-BMG1Z1+ ● UTY-LBTYM | | | | | | ● FG-IR-BMG1Z1+ ● UTY-LRHYM | | ● FG-IR-BMG1Z1 | | ● FG-IR-BMG1Z1+ ● UTY-LBTYH | | ● FG-IR-BMG1Z1 | | | | ● FG-IR-BMG1Z1+ ● UTY-LBTYM | |
| | KNX® interface | ● UTY-VKSX | | | | | | | | | ● UTY-VKSX | | ● UTY-VKSX | | | | | | ● UTY-VKSX | | ● UTY-VKSX*2 | | ● UTY-VKSX | | ● UTY-VKSX*1 | | | | ● UTY-VKSX | |
| WLAN adapter | 3-wire RC-line type CN connector type | ● FG-AC-KNX1Z1 | | | | | | | | | ● FG-RC-KNX1Z1 ● FG-AC-KNX1Z1 | | ● FG-RC-KNX1Z1 ● FG-AC-KNX1Z1 | | | | | | ● FG-AC-KNX1Z1 | | ● FG-RC-KNX1Z1 ● FG-AC-KNX1Z1 | | ● FG-AC-KNX1Z1 | | ● FG-AC-KNX1Z1 | | | | ● FG-RC-KNX1Z1 ● FG-AC-KNX1Z1 | |
| | IR type | ● FG-IR-KNX1Z1 | | | | | | | | | ● FG-IR-KNX1Z1+ ● UTY-LBTYC | | ● FG-IR-KNX1Z1+ ● UTY-LBTYM | | | | | | ● FG-AC-KNX1Z1+ ● UTY-LBTYM | | ● FG-IR-KNX1Z1+ ● UTY-LRHYM | | ● FG-IR-KNX1Z1 | | ● FG-IR-KNX1Z1+ ● UTY-LBTYH | | ● FG-IR-KNX1Z1 | | | |
| External switch controller | 3-wire RC-line type ¹ CN connector type | | | | | | | | | | ● UTY-TFSXJ3 ● UTY-TFSXZ1 | | ● UTY-TFSXJ3 ● UTY-TFSXZ1 | | | | | | ● UTY-TFNXZ1 | | ● UTY-TFSXJ3 ● UTY-TFSXZ1 | | | | | | ● UTY-TFSXJ3 ● UTY-TFSXZ1 | | | |
| | USB type ¹ | ● Accessory (KGTG, KGTG, KETF, KETF-B, KMCG, KMCF) ● UTY-TFSXH3, UTY-TFSXF2 (KGTG, KETE, KETE-B, KMCE) | | | | | | | | | ● UTY-TFSXH3 ● UTY-TFSXF2 | | ● Accessory | | | | | | ● UTY-TFSXH3 ● UTY-TFSXF2 | | | | ● Accessory | | | | ● UTY-TFSXH3 ● UTY-TFSXF2 | | | |
| | 3-wire RC-line type CN connector type | ● FG-AC-WIF1Z1 | | | | | | | | | ● FG-RC-WIF1Z2 ● FG-AC-WIF1Z1 | | ● FG-RC-WIF1Z2 ● FG-AC-WIF1Z1 | | | | | | ● FG-AC-WIF1Z1 | | ● FG-RC-WIF1Z2 ● FG-AC-WIF1Z1 | | ● FG-AC-WIF1Z1 | | ● FG-AC-WIF1Z1 | | | | ● FG-RC-WIF1Z2 ● FG-AC-WIF1Z1 | |
| | IR type | ● FG-IR-WIF1Z1 | | | | | | | | | ● FG-IR-WIF1Z1+ ● UTY-LBTYC | | ● FG-IR-WIF1Z1+ ● UTY-LBTYM | | | | | | ● FG-IR-WIF1Z1+ ● UTY-LRHYM | | ● FG-IR-WIF1Z1 | | ● FG-IR-WIF1Z1+ ● UTY-LBTYH | | ● FG-IR-WIF1Z1 | | | | ● FG-IR-WIF1Z1+ ● UTY-LBTYM | |
| | 3-wire RC-line type CN connector type | ● FG-AC-WMP1Z1 | | | | | | | | | ● FG-RC-WMP1Z1 ● FG-AC-WMP1Z1 | | ● FG-RC-WMP1Z1 ● FG-AC-WMP1Z1 | | | | | | ● FG-AC-WMP1Z1 | | ● FG-RC-WMP1Z1 ● FG-AC-WMP1Z1 | | ● FG-AC-WMP1Z1 | | ● FG-AC-WMP1Z1 | | | | ● FG-RC-WMP1Z1 ● FG-AC-WMP1Z1 | |
| | IR type | ● FG-IR-WMP1Z1 | | | | | | | | | ● FG-IR-WMP1Z1+ ● UTY-LBTYC | | ● FG-IR-WMP1Z1+ ● UTY-LBTYM | | | | | | ● FG-IR-WMP1Z1+ ● UTY-LRHYM | | ● FG-IR-WMP1Z1 | | ● FG-IR-WMP1Z1+ ● UTY-LBTYH | | ● FG-IR-WMP1Z1 | | | | ● FG-IR-WMP1Z1+ ● UTY-LBTYM | |
| Network converter for single-split type | DC power supply type | ● UTY-TERX+UTY-TWRXZ2 | | | | | | | | | ● UTY-TERX | | ● UTY-TERX | | | | | | ● UTY-TERX+ ● UTY-TWRXZ3 | | ● UTY-TERX | | ● UTY-TERX+ ● UTY-TWRXZ2 | | | | ● UTY-TERX | | | |
| | AC power supply type | ● UTY-VTGX+UTY-TWRXZ2 ● UTY-VTGXV+UTY-TWRXZ2 | | | | | | | | | ● UTY-VTGX ● UTY-VTGXV | | ● UTY-VTGX ● UTY-VTGXV | | | | | | ● UTY-VTGX+ ● UTY-TWRXZ3 ● UTY-VTGXV+ ● UTY-TWRXZ3 | | ● UTY-VTGX ● UTY-VTGXV | | ● UTY-VTGX+ ● UTY-TWRXZ2 ● UTY-VTGXV+ ● UTY-TWRXZ2 | | | | ● UTY-VTGX ● UTY-VTGXV | | | |

*1: Available only when the WLAN adapter (UY-TFSXF2) is removed. *2: Available only when the WLAN adapter (UTY-TFSXZ1) is removed.
*3: For compatibility of the new WLAN adapters with the indoor units which are not listed in this catalogue, please refer to page C-021.

Controller system list (available) for VRF

Controller Options:



| Type | Refrigerant | Indoor unit | | | | | | | | | | | | Indoor unit | | | | | | | | | | | | | | | |
|----------------------------|-------------|---------------------------------------|-------------------|---------------------------------------|-----------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|-----------------------|---------------------------|-----------------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-----------------------|---------------------------|-----------------------------------|-----------------------------------|-----------------|--------------------------|---|---------------------------|--|--------------------------|--|--------------|--|
| | | Cassette | | Slim type | | Large type | | Duct | | | | Duct | | Floor | | Ceiling/Floor | | Ceiling | | Wall-mounted | | | | | | | | | |
| | | One-way flow | 3D flow | Compact Grid type/Standard type | | Circular flow | | Mini (With drain pump) | Low static pressure duct | | | Low static pressure duct | Medium static pressure | High static pressure | - | external EEV | Ceiling/Floor | Ceiling | - | external EEV | - | external EEV | - | - | | | | | |
| | | | | Grid type | High Efficiency | | | | Slim (With drain pump) | High Efficiency | High Efficiency | Normal | Normal | | | | | | | external EEV | | | | | | | | | |
| | | | | 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 | | | | | | | | | ASVA 004/005/007/009/012/014/HCAH | ASYE 004/005/007/009/012/014/HCAH | | | | | | | | | |
| | | AUXV 004/007/009/012/014/018/024/GLEH | AUXS 018/024/GLEH | AUXB 004/007/009/012/014/018/024/GLEH | | AUXM 018/024/030/034/036/045/054/GLEH | AUXK 018/024/030/034/036/045/054/GLEH | ARXK 004/007/009/012/014/018/024/GLGH | ARXD 007/009/012/014/018/024/GLEH | ARXP 018/030/GLFH | ARXA 024/030/036/045/GLEH | ARXC 036/045/060/072/090/096/GTEH | ACYA 004/007/009/012/014/GCGH | ACYE 004/007/009/012/014/GCEH | ABYA 012/014/018/024/GTEH | ABYA 030/036/045/054/GTEH | ASVA 004/007/009/GCGH | ASYE 004/007/009/GCEH | ASVA 012/014/GCGH | ASYE 012/014/GCEH | ASVA 18/24/GBCH | ASVA 030/034/GTEH | | | | | | | |
| Interfaces | | UTY-ABGXZ1, UTY-VBGX | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | FG-AC-BAC1Z1 | | | | | | | | | | | | FG-AC-BAC1Z1 | | FG-AC-BAC1Z1 | | 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 | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1 | | | | | FG-IR-BMG1Z1 | | | | | | | | | | |
| | | UTY-VLGX | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | UTY-VMSX | | | | | | | | | | | | UTY-VMSX | | UTY-VMSX | | UTY-VMSX | | UTY-VMSX | | | | UTY-VMSX | | | | | |
| | | UTY-VMGX FG-TL-MBS16Z1 | | | | | | | | | | | | UTY-VMGX FG-TL-MBS16Z1 | | UTY-VMGX FG-TL-MBS16Z1 | | UTY-VMGX FG-TL-MBS16Z1 | | UTY-VMGX FG-TL-MBS16Z1 | | | | UTY-VMGX FG-TL-MBS16Z1 | | | | | |
| | | FG-AC-MBS1Z1 | | | | | | | | | | | | FG-RC-MBS1Z1 | | FG-AC-MBS1Z1 | | FG-AC-MBS1Z1 | | 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 | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1+UTY-TRHX | FG-IR-BMG1Z1 | | | | | FG-IR-BMG1Z1 | | | | | | | | | | |
| | | UTY-VKSX | | | | | | | | | | | | UTY-VKSX | | UTY-VKSX | | UTY-VKSX | | UTY-VKSX | | | | UTY-VKSX | | | | | |
| | | UTY-VKGX FG-TL-KNX16Z1 | | | | | | | | | | | | UTY-VKGX FG-TL-KNX16Z1 | | UTY-VKGX FG-TL-KNX16Z1 | | UTY-VKGX FG-TL-KNX16Z1 | | UTY-VKGX FG-TL-KNX16Z1 | | | | UTY-VKGX FG-TL-KNX16Z1 | | | | | |
| | | FG-AC-KNX1Z1 | | | | | | | | | | | | FG-RC-KNX1Z1 | | FG-AC-KNX1Z1 | | FG-AC-KNX1Z1 | | 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 | FG-IR-KNX1Z1+UTY-TRHX | FG-IR-KNX1Z1+UTY-TRHX | FG-IR-KNX1Z1+UTY-TRHX | FG-IR-KNX1Z1+UTY-TRHX | FG-IR-KNX1Z1+UTY-TRHX | FG-IR-KNX1Z1+UTY-TRHX | FG-IR-KNX1Z1 | | | | | FG-IR-KNX1Z1 | | | | | | | | | | |
| | | UTY-TFSXJ3 UTY-TFSXZ1 | | | | | | | | | | | | UTY-TFSXJ3 UTY-TFSXZ1 | | UTY-TFSXJ3 UTY-TFSXZ1 | | UTY-TFSXJ3 UTY-TFSXZ1 | | UTY-TFSXJ3 UTY-TFSXZ1 | | UTY-TFSXJ3 UTY-TFSXZ1 | | | | UTY-TFSXJ3 UTY-TFSXZ1 | | | |
| | | FG-AC-WIF1Z1 | | | | | | | | | | | | FG-RC-WIF1Z2 | | FG-AC-WIF1Z1 | | FG-AC-WIF1Z1 | | 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 | FG-IR-WIF1Z1+UTY-TRHX | FG-IR-WIF1Z1+UTY-TRHX | FG-IR-WIF1Z1+UTY-TRHX | FG-IR-WIF1Z1+UTY-TRHX | FG-IR-WIF1Z1+UTY-TRHX | FG-IR-WIF1Z1+UTY-TRHX | FG-IR-WIF1Z1 | | | | | FG-IR-WIF1Z1 | | | | | | | | | | |
| | | FG-AC-WMP1Z1 | | | | | | | | | | | | FG-RC-WMP1Z1 | | FG-AC-WMP1Z1 | | FG-AC-WMP1Z1 | | 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 | FG-IR-WMP1Z1+UTY-TRHX | FG-IR-WMP1Z1+UTY-TRHX | FG-IR-WMP1Z1+UTY-TRHX | FG-IR-WMP1Z1+UTY-TRHX | FG-IR-WMP1Z1+UTY-TRHX | FG-IR-WMP1Z1+UTY-TRHX | FG-IR-WMP1Z1 | | | | | FG-IR-WMP1Z1 | | | | | | | | | | |
| External switch controller | | UTY-TERX | | | | | | | | | | | | UTY-TERX | | UTY-TERX | | UTY-TERX | | UTY-TERX | | | | UTY-TERX | | | | | |

*1: For compatibility of the new WLAN adapters with the indoor units which are not listed in this catalogue, please refer to page C-021.

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.



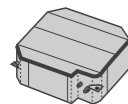
Cassette grille
A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.



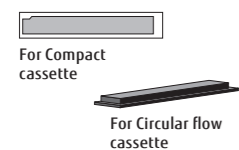
Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



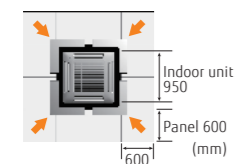
Fresh air intake kit
Fresh air can be taken in by a fan connected to an external control unit.



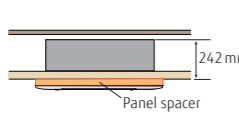
Insulation kit for high humidity
Insulation kit for high humidity is used when the installation location is in a high humidity environment.



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.

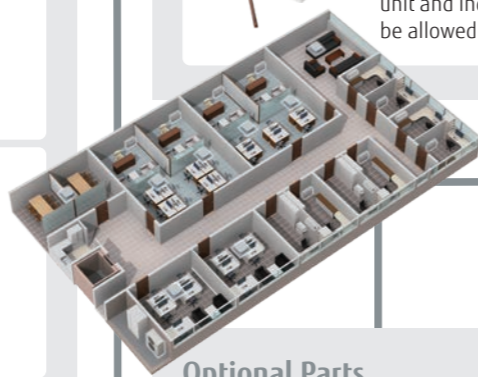


Panel spacer
If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

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

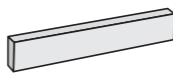


Gas Sensor kit
Used to ensure standards compliance and safety when R32 VRF products are installed.



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.*

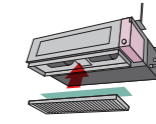
Optional Parts For Duct & Ceiling



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



Remote sensor unit
The remote sensor provides additional convenience.



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



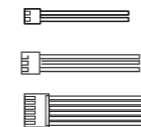
Communication kit
Required for a wall-mounted type when the External connect kit set or a Wired remote controller is connected to the indoor unit.



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.



For Duct type and Cassette type



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.



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

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

Silver Ion Filter

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



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

For Cassette
UTD-HFAA / UTD-HFRA

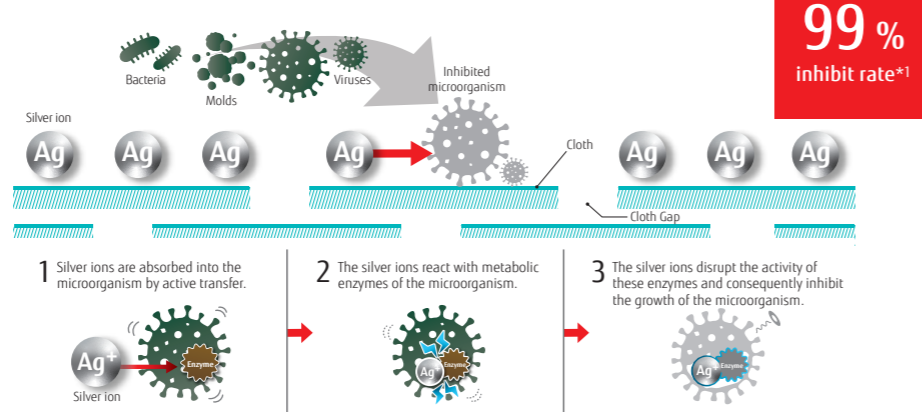
For Duct
UTD-HFTA / UTD-HFTB
UTD-HFTC / UTD-HFNC
UTD-HFNB / UTD-HFNA
UTD-HFND / UTD-HFKB
UTD-HFKA

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

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

The silver ion filter inhibits the activities of viruses*1, bacteria*2 and molds*3 trapped on the filter.

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



*1 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0408 [Test virus] Escherichia coli phage Qbeta NBRC 20012 (1 type) [Test Method] Based on the antiviral test method for textile products (JIS L 1922) [Test results] Inhibited by at least 99% in 24 hours. Not tested to prevent transmission of SARS-CoV-2.
*2 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0409 [Test bacteria] Escherichia coli NBRC 3972 (1 type) [Test Method] Based on the determination of antibacterial activity and efficacy of textile products (JIS L 1902) [Test results] The growth of the test bacteria was inhibited by 24 hours testing
*3 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0410 [Test fungi] Aspergillus Niger NBRC 105649 and other fungi (3 types) [Test Method] Based on the test for fungus resistance (JIS Z 2911) [Test results] The growth of the fungus was inhibited by 28 days testing

The filter is easily removable* and hand-washable.

(*Wall mounted and floor models only)



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

Specifications

| Model name | For Wall mounted / Floor | | | for Cassette | | |
|---------------------------|--------------------------|--------------|--------------|--------------|---------------|---------------|
| | UTR-FA16-5 | UTR-FA13-3 | UTR-FA03-5 | UTD-HFAA | UTD-HFRA | |
| Net Dimension (H x W x D) | mm | 35 x 210 x 6 | 50 x 364 x 6 | 43 x 272 x 6 | 350 x 125 x 6 | 550 x 136 x 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 x W x D) | mm | 290 x 70 x 6 | 390 x 70 x 6 | 290 x 70 x 6 390 x 70 x 6 | 620 x 88 x 6 | 420 x 88 x 6 | 620 x 88 x 6 | 500 x 79 x 6 | 420 x 125 x 6 | 620 x 108 x 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

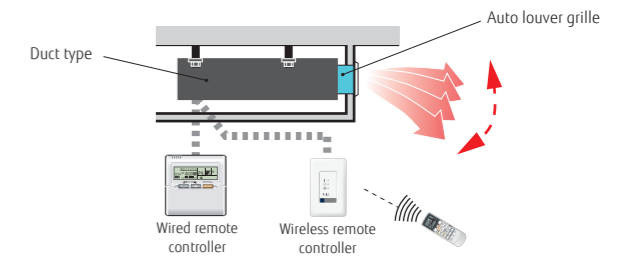


The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

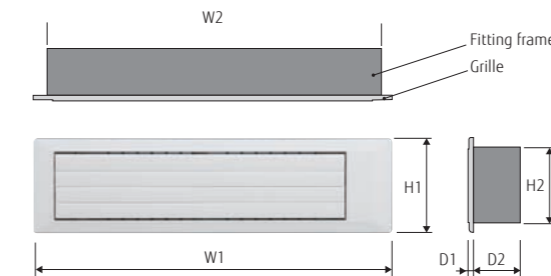


Flexible Control

- 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



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

Unit: mm

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 | | ARXD018GLEH ARXD018HLAH ARXK018GLGH | | |
| 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 x W x D) | mm | 180 x 683 x (84 + 9) | | 180 x 883 x (84 + 9) | | 180 x 1,083 x (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 | | | | |
| Operating range | Heating | °C | 16 to 30 | | | | |

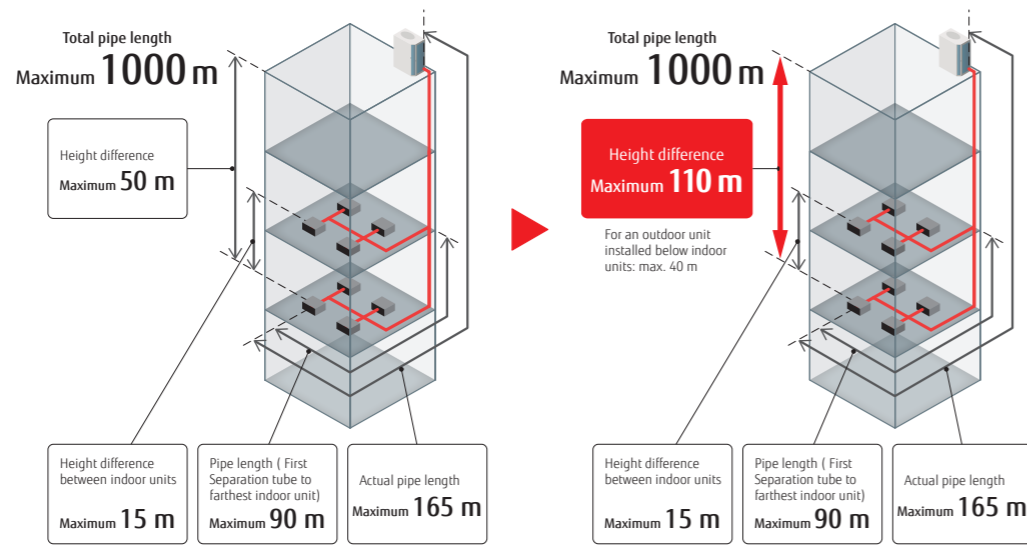
Pressure sensor kit

UTY-SPWX

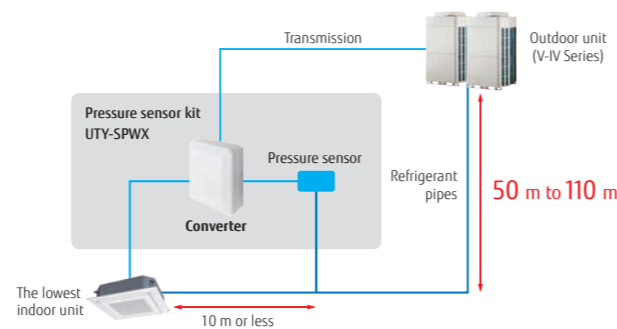


Design flexibility

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 / UTZ-GXXD

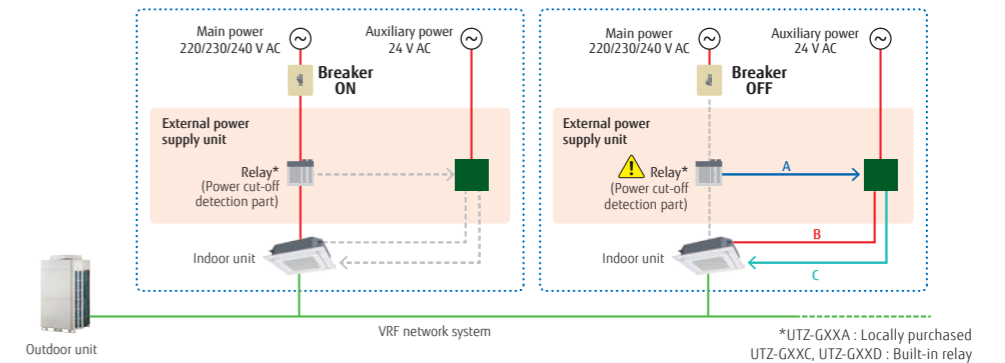


The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

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 and UTZ-GXXD 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

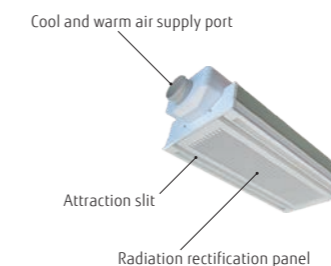
| Model name | UTZ-GXXA | UTZ-GXXC | UTZ-GXXD |
|-----------------------------|----------|------------------|----------|
| Power supply | | 24 V AC 50/60 Hz | |
| Dimensions (H × W × D) (mm) | | 97 × 200 × 178 | |
| Weight (g) | | 800 | |

AIR BEAM Radiation air outlet unit

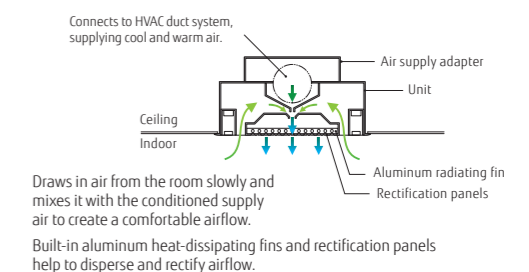
*Production by order
Contact us for more details.



Key component



Cross-section view



| | | |
|--|---------------|---------------|
| Airflow rate (m ³ /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



NEW

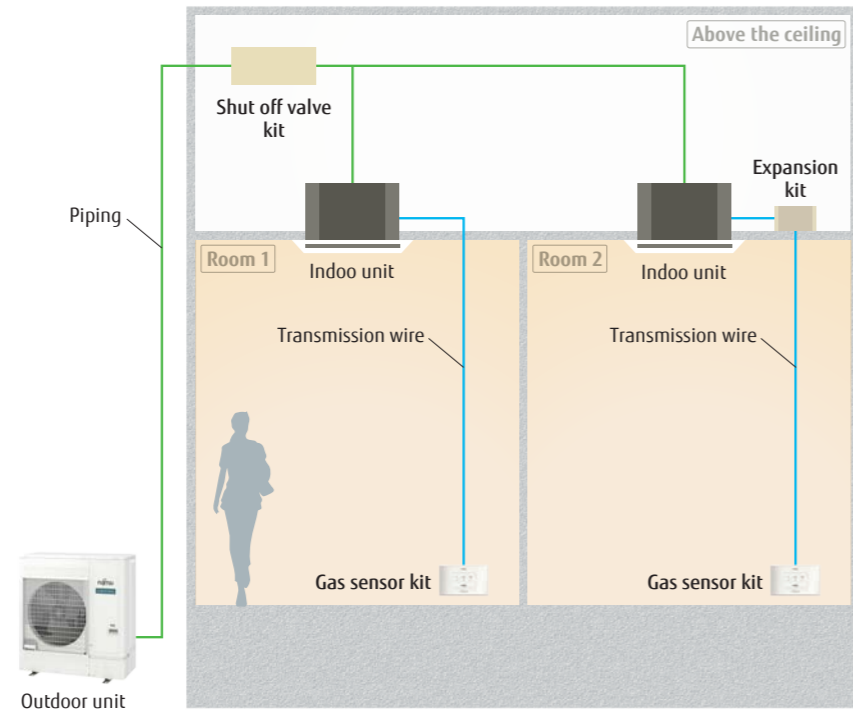


Enhanced disaster safety measures

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, if the system is designed for maximum pipe length and the refrigerant charge is 6 kg, safety measures are required for rooms of 15 m² or less.

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*

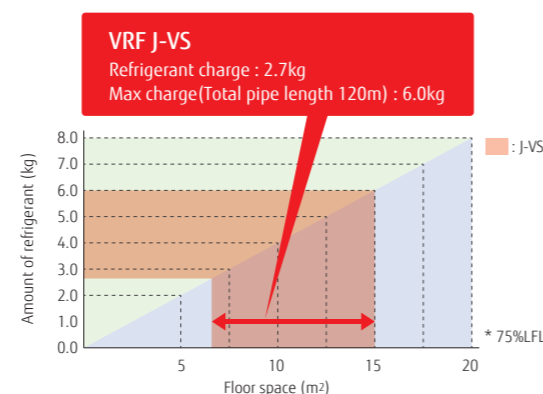
Used to ensure standards compliance and safety when R32 VRF products are installed.
*Connection cable (UTY-XWZXZL) is required.

Gas sensor kit
UTY-SGZY

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

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.



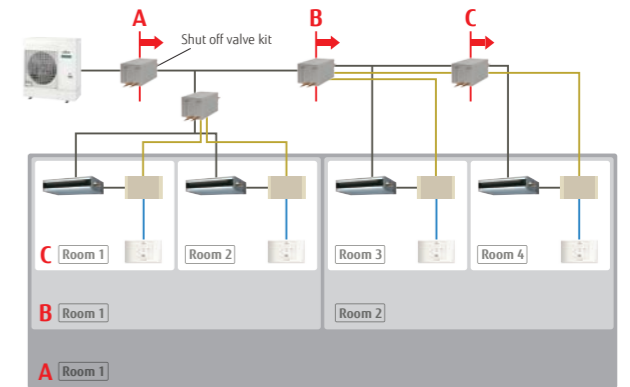
Features: Gas sensor kit

Refrigerant leak detector connection pattern

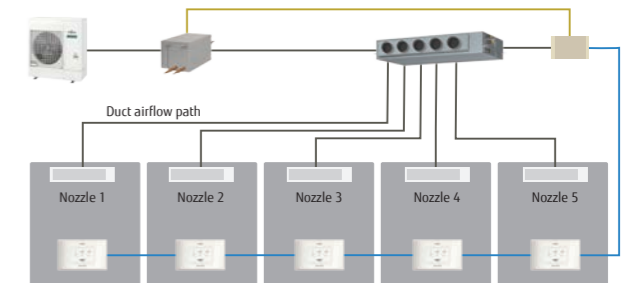
1) Corresponds to the case where the classification of air conditioner installation differs from property to property.

Installation position of "Shut off valve kit"

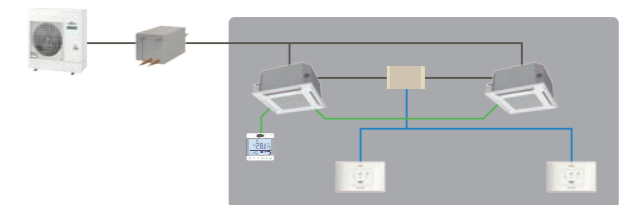
- A** Indoor unit 1~4 in one room
- B** Indoor units 1, 2 and 3, 4, if they are set up in two separate rooms.
- C** Indoor units 1~4 are installed in different rooms.



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 | | | | | | | | | | Indoor unit | | | | | | | | | | | | |
|----------------------------------|--|---|--|---|----------------|----------------|-----------------------|--------------------|--------------------|----------------|------------------------------|--------------------------------|---|---|---|---|-----------------------------------|----------------------|------------|--------------------|--------------------------------|---|---|---|
| | | Wall-mounted | | | | | | | | | | Cassette | Cassette | Duct | | | | | Duct | Floor | Ceiling | Multi-split | | |
| | | Designer Range | | Standard Range | | | ECO Range | | | | | 4-way flow Compact | Circular flow | 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 |
| | | 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 | ASEH07/09/12/14KMCG, ASYG07/09/12/14KMCF, ASYG07/09/12/14KMCE | ASEG 18/24KMTE | ASEH 30/36KMTB | ASEH 05/07/09/12 KNCA | ASEG 07/09/12 KPCE | ASEH 07/09/12 KLTA | ASEG 18/24KLCA | AUXG 09/12/14/18/22/24 KVLTA | 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 | ARXC22KMLB, ARXG 24/30/36/45 KMLA | ARXG45/54KHTB | | | AGEG 09/12/14 KVCA | ABEG 18/22/24/30/36/45/54 KRTA | AUXG07KVLTA | ARXG 07/09/12/14/18 KSLAP | ARXG07KLLAP |
| | | | | | | | | | | | | | | | | | ARYG60LHTA | ARYG72/90LHTA | | | AUYG07/09LVLTA | ARYG07/09LSLAP | ARYG07/09LLTA | |
| Human sensor kit | | | | | | | | | | | | | • UTY-SHZXC | | | | | | | | | | | |
| Remote sensor unit | The remote sensor provides additional convenience. | | | | | | | | | | | | | | | | | | | | | | | • UTY-XSZXZ1 |
| Cassette grille | | | | | | | | | | | • UTG-UFYF-W | | • UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B | | | | | | | | | | | • UTG-UFYF-W (KVLTA), UTG-UFYD-W (LVLTA) |
| 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 | | | • UTR-FA16-5 | | • UTR-FA13-3 | | • UTR-FA16-5 | | | | • UTD-HFAA | | • UTD-HFRA | • 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-LF2SNA | • UTD-LF60KA (45/54) | • UTD-LFKA | | | | | | | |
| Flange | | | | | | | | | | | | | | | | | • UTD-SF045T, UTD-RF204 | | | | | | | |
| Drain pump unit | | | | | | | | | | | | | | | | | • UTZ-PX1NBA | • UTZ-PX1NAB | | | • UTR-DPB24T | | | |
| Wide Panel | | | | | | | | | | | | | • UTG-AKXA-W | | | | | | | | | | | |
| Panel spacer | | | | | | | | | | | | | • UTG-BKXA-W | | | | | | | | | | | |
| Fresh air intake kit | For Compact For Circular flow cassette | | | | | | | | | | • UTZ-VXAA | | • UTZ-VXRA | | | | | | | | | | • UTZ-VXAA | |
| Air outlet shutter plate | For Compact cassette For Circular flow cassette | | | | | | | | | | • UTR-YDZB | | • UTR-YDZK | | | | | | | | | | • UTR-YDZB | |
| Insulation kit for high humidity | | | | | | | | | | | • UTY-KXGC | | • UTY-KXRA | | | | | | | | | | • UTY-KXGC | |
| Half concealed kit | Used to half conceal a floor type indoor unit in the wall. | | | | | | | | | | | | | | | | | | | | | | • UTR-STA | |
| L-type piping kit | | | | | | | | | | | | | | | | | | | | | | | • UTP-FX24A (18/22/24), UTP-FX35A (30/36/45/54) | |

Optional parts list for VRF



| Type | Refrigerant | Indoor unit | | | | | | | | | | | | Indoor unit | | | | | | | | | | V-IV Series |
|----------------------------------|-----------------|-----------------|-----------------|----------------------------------|---------------|------------------------|------------------------|--------------------------|-----------------|--------------------------|------------------------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|--|--|-------------|
| | | Cassette | | | | | | Duct | | | | | | Floor | | | | Wall-mounted | | | | | | |
| | | One-way flow | 3D flow | Compact grid type/ Standard type | | Slim type | Large type | Low static pressure duct | | | | | | external EEV | Floor/Ceiling | Ceiling | Wall-mounted | | | | | | | |
| | | | | High Efficiency | Circular flow | Mini (With drain pump) | Slim (With drain pump) | | High Efficiency | Low static pressure duct | Medium static pressure | High static pressure | external EEV | | | | external EEV | external EEV | external EEV | | | | | |
| High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | High Efficiency | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Human sensor kit | | | | | | | | | | | | | | | | | | | | | | | | |
| Remote sensor unit | | | | | | | | | | | | | | | | | | | | | | | | |
| Cassette grille | | | | | | | | | | | | | | | | | | | | | | | | |
| Auto louver grille kit | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver ion filter | | | | | | | | | | | | | | | | | | | | | | | | |
| Long-life filter | | | | | | | | | | | | | | | | | | | | | | | | |
| Flange | | | | | | | | | | | | | | | | | | | | | | | | |
| Drain Pump Unit | | | | | | | | | | | | | | | | | | | | | | | | |
| Wide Panel | | | | | | | | | | | | | | | | | | | | | | | | |
| Panel spacer | | | | | | | | | | | | | | | | | | | | | | | | |
| Fresh air intake kit*1 | | | | | | | | | | | | | | | | | | | | | | | | |
| Air outlet shutter plate: | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation kit for high humidity | | | | | | | | | | | | | | | | | | | | | | | | |
| Half concealed kit | | | | | | | | | | | | | | | | | | | | | | | | |
| External power supply unit | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure sensor kit | | | | | | | | | | | | | | | | | | | | | | | | |
| Gas sensor kit | | | | | | | | | | | | | | | | | | | | | | | | |

Function list for VRF



External input and output function/External connect kit


| Type | Refrigerant | Indoor unit | | | | | | | | | | | | | | Indoor unit | | | | Outdoor unit | | | | | | controller | Other | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|--|---------------------------------------|---------|-------------------------------------|------------------------|---|------------------------|-----------------------|---------------------|---------------------------------------|----------------------|---------------------------------------|--------------|-------------------------------------|--------|------------------------------|-------|---------------------------|-------|-----------------------------------|-------|-------------------------------|---------|-------------------------------|--|------------------------------|-------|--------------------------|--|-------------------------------|--|-------------------------------|--|-----------------|--|------------------|--|-----------------------------------|--|-----------------------|--|-----------------------|--|-----------------------------------|--|-------------------------------|--|------------|--|--|--|
| | | Cassette | | Slim type | | Large type | | Duct | | | | Floor | | Wall-mounted | | J-VS | J-IVL | J-IV | J-IVS | V-IV | VR-IV | Central remote controller | RB unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | One-way flow | 3D flow | Compact grid type/Standard type | | Circular flow | Low static pressure | | Low static pressure | Medium static pressure | High static pressure | Floor/Ceiling | EEV external | Wall-mounted | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | High Efficiency | Mini (With drain pump) | | Slim (With drain pump) | High Efficiency | | | | | | Normal | Normal | | | | | | | | | EEV external | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R32 | | 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 | | | | ASVA 004/005/007/009/012/014/HCAH | | ASVE 004/005/007/009/012/014/HCAH | | AIY 040/045/054/KCTAH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R410A | | AUXV 004/007/009/012/014/018/024/GLEH | | AUXS 018/024/GLEH | | 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/GLEH | | ARXD 007/009/012/014/018/024/GLEH | | ARXP 018/030/GLEH | | ARXA 024/030/036/045/GLEH | | ARXC 036/045/060/072/090/096/0TEH | | AGYA 004/007/009/012/014/0CGH | | AGYE 004/007/009/012/014/0CEH | | ABYA 012/014/018/024/GEH | | ABYA 030/036/045/054/GEH | | ASVA 004/007/009/012/014/0CGH | | ASVE 004/007/009/012/014/0CEH | | ASVA 18/24/GBCH | | ASVA 030/034/GEH | | AIY 072/090/108/126/144/162/LELDH | | AIY 040/045/054/LELDH | | AIY 040/045/054/LCLDH | | AIY 072/090/108/126/144/162/LALDH | | AIY 072/090/108/126/144/GALDH | | UTY-DCGYZ3 | | UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH | |
| Indoor | Operation/Stop | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | All On/All Off | | | | | | | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ7 ○ UTY-XWZXZB | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Group stop | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Forced stop | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Emergency stop | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | ● UTY-XWZXZ6 | | | | | | ● UTY-XWZXZ7 ○ UTY-XWZXZB | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Forced thermostat off | ● UTY-XWZXZE ○ UTY-XWZXZ7 | | | | | | | | | | | | | | ● 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Indoor | Operation status | ● UTY-XWZXZC | | | | | | | | | | | | | | ● UTY-XWZXZC | | | | ○ UTY-XWZXZ6 | | | | | | ○ UTY-XWZXZA | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Error status | ● UTY-XWZXZC | | | | | | | | | | | | | | ● UTY-XWZXZC | | | | ○ UTY-XWZXZ6 | | | | | | ○ UTY-XWZXZA | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Indoor unit fan operation status | ● UTY-XWZXZC | | | | | | | | | | | | | | ● UTY-XWZXZC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Auxiliary heater output | ● UTY-XWZXZC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Base pan heater | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ9 | | | | | | ● UTY-XWZXZ9 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other | Expansion kit | ● UTZ-JXXA+ UTY-XWZXZL (HLAH) | | ● UTZ-JXXA+ UTY-XWZXZL (HLAH) | | | | | | | | | | ● UTZ-JXXA+ UTY-XWZXZL (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


For VRF

NEW Expansion kit



UTZ-JXXA

NEW Connection Cable





UTY-XWZXZL


Communication system

External connect kit


For indoor unit


UTY-XWZXZ7 

UTY-XWZXZB 


UTY-XWZXZC 


For outdoor unit


UTY-XWZXZD 

UTY-XWZXZE 


For RB unit


UTY-XWZXZ6 


UTY-XWZXZ9 

UTY-XWZXZF 


Central remote controller

UTY-XWZXZ7 

UTY-XWZXZ8 

UTY-XWZXZA 

For Touch panel controller

UTY-XWZXZA 

Separation tube



For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

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



for VRF

| | | | |
|--|--|--|--|
| <p>Separation tube</p> <p>UTP-AX054A</p> <p>Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-AX090A</p> <p>Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-AX180A</p> <p>Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-AX567A</p> <p>Gas pipe</p> <p>Liquid pipe</p> |
| <p>UTP-BX090A</p> <p>Suction Gas pipe</p> <p>Discharge Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-BX180A</p> <p>Suction Gas pipe</p> <p>Discharge Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-BX567A</p> <p>Suction Gas pipe</p> <p>Discharge Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-LX180A For DX kit</p> |

Header

| | | | |
|---|---|---|---|
| <p>UTR-H0906L / UTR-H1806L</p> <p>Gas pipe</p> <p>Liquid pipe</p> | <p>UTR-H0908L / UTR-H1808L</p> <p>Gas pipe</p> <p>Liquid pipe</p> | <p>UTP-J0906A / UTP-J1806A</p> <p>Suction gas pipe</p> <p>Discharge gas pipe</p> <p>Liquid pipe</p> | <p>UTP-J0908A / UTP-J1808A</p> <p>Suction gas pipe</p> <p>Discharge gas pipe</p> <p>Liquid pipe</p> |
|---|---|---|---|

Outdoor unit branch kit

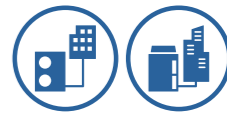
UTP-CX567A

Gas Pipe

Liquid Pipe

Separation tube for RB unit

| | | |
|--|--|--|
| <p>UTP-DX567A</p> <p>Suction Gas Pipe</p> <p>Discharge Gas Pipe</p> <p>Liquid Pipe</p> | <p>UTP-EX060A</p> <p>Gas Pipe</p> <p>Liquid Pipe</p> | <p>UTP-EX096A</p> <p>Gas Pipe</p> <p>Liquid Pipe</p> |
|--|--|--|



for VRF

| | | | |
|--|---|--|---|
| <p>EV kit</p> <p>Model name \leq 09: UTR-EV09XB Model name \geq 12: UTR-EV14XB for compact wall-mounted type</p> | <p>NEW Model name \leq 09: UTR-EV09XC Model name \leq 12: UTR-EV14XC for R32 VRF wall-mounted type</p> | <p>NEW UTP-GX027A for R32 VRF indoor unit</p> | <p>NEW UTP-GX060A for R32 VRF outdoor unit</p> |
|--|---|--|---|

RB unit

| | | | |
|---|--|--|--|
| <p>UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type</p> | <p>UTP-RX04BH Multi-split type</p> | <p>UTP-RX08AH Multi-split type</p> | <p>UTP-RX12AH Multi-split type</p> |
|---|--|--|--|

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 | ASYE004HCAH ASYE005HCAH ASYE007HCAH ASYE009HCAH |

RB unit

| | | | | | | |
|---|-----------------|------------|------------------|-----------------|------------|-----------------|
| Type | Single type | | Multi-split type | | | |
| Model name | UTP-RX01AH | UTP-RX01BH | UTP-RX01CH | UTP-RX04BH | UTP-RX08AH | UTP-RX12AH |
| Power source | 230/1/50 | | | | | |
| 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 | 230/1/50 | | 230/1/50 |
| Input power | W | | 24 |
| Number of branches | 1 | | 1 |
| Maximum number of connectable Expansion kit | kW | | 4 |
| Maximum capacity of connectable indoor units (Q) | kW | | Q \leq 8.0 |
| Maximum capacity of Connectable Indoor Units per Branch (Q) | kW | | Q \leq 8.0 |
| Dimensions (H × W × D) | mm | | 250 × 540 × 267 |
| | | | 250 × 540 × 267 |