

Light Commercial & Commercial, Residential

CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
- C-006 Best Control Solution for Each Building Structure
- C-008 Comparison Table of Controllers
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- C-076 Optional Parts List
- C-084 Function List



A wide product lineup to meet a variety of needs

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

CONTROL SYSTEM

INDIVIDUAL CONTROL

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

CONVERTERS/ADAPTERS

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

CENTRALIZED CONTROL

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

CONVERTERS/ADAPTERS

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

OPTIONAL PARTS

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



SPLIT



MULTI-SPLIT



VRF J series



VRF V series

Control System Overview

for Split & Multi-split

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

* Except for some products

Air Conditioning Individual Control



Wired remote controller

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



Wireless remote controller

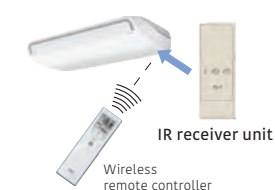
Simple and versatile operations with a choice of 4 different types of timers



Simple remote controller

Compact remote controller with basic functionality

For Ceiling type



For Duct type



For Cassette type



IR receiver unit

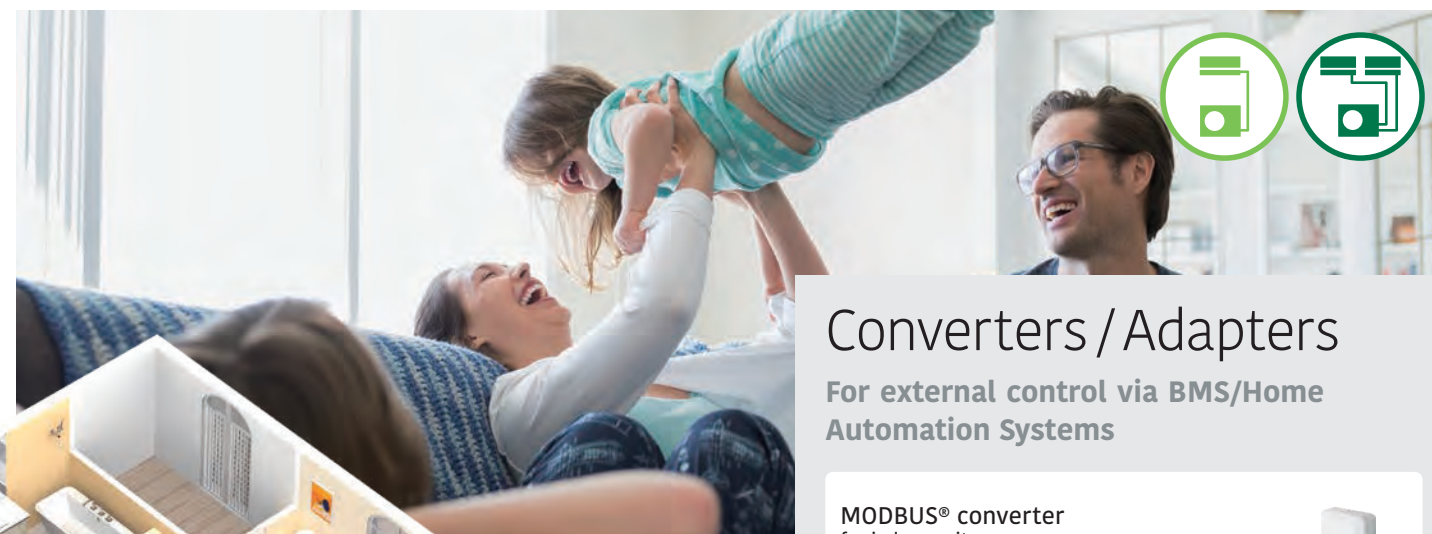
This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.

Air Conditioning Centralized Control



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

Enables individual and central control.



Converters / Adapters

For external control via BMS/Home Automation Systems

MODBUS® converter for indoor units
UTY-VMSX



MODBUS® interface for indoor units



KNX® converter for indoor units
UTY-VK SX



KNX® interface for indoor units



WLAN adapter



Network converter

DC power supply type
UTY-VTGX



AC power supply type
UTY-VTGXV



Online Control (Wireless Control via Smartphone/Tablet)

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

WLAN adapter

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

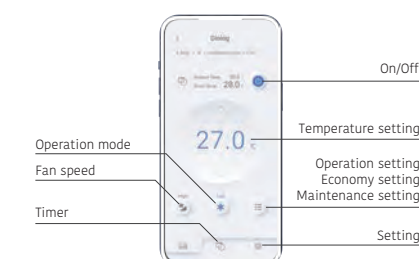


AIRSTAGE Mobile

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

Simple, user-friendly interface design

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



Control System Overview

for VRF

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

Air Conditioning

Individual Control

Wired remote controller
(Design type)
UTY-RVRY

Wired remote controller
(with touch panel)
UTY-RNRYZ5

Wired remote controller
UTY-RLRY

Compact wired remote controller
UTY-RCRYZ1

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

Wireless remote controller
UTY-LNVY
UTY-LNHY

For Duct type

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

for Circular flow cassette Series

IR receiver unit

UTB-YWC

for duct type

UTY-TRHX

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

UTY-LBHDX

for Circular flow cassette Series

Air Conditioning

Centralized Control

System controller **Software**

UTY-APGXZ1/UTY-ALGXZ1 (Lite version)

Up to 1600 Indoor units

*1: Echelon® U10 USB Network Interface

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

Touch panel controller

UTY-DTGYZ1

Up to 400 Indoor units

Central remote controller

UTY-DCGYZ3

Up to 100 Indoor units

Converters / Adapters

For external control via BMS/Home Automation Systems

BACnet® gateway

UTY-ABGXZ1 **Software**

VTY-VBGX **Hardware**

BACnet® interface for Indoor units

FG-IR-BMG1Z1

Network converter (For LonWorks™)

UTY-VLGX

MODBUS® converter for Indoor units

UTY-VMSX

for VRF

UTY-VMGX

KNX® converter for Indoor units

UTY-VKX

for VRF

UTY-VKGX

WLAN adapter

UTY-TFSXJ3 / UTY-TFSXZ1

External switch controller

UTY-TERX

BMS/BAS^{*3}

BMS^{*3}, Home automation system

Card-key (Locally available)

Internet device

Converters / Adapters

for system expansion

Network converter DC power supply type

UTY-VTGX

Network converter AC power supply type

UTY-VTGXV

Signal amplifier

UTY-VSGXZ1

Single split

C-004

C-005

CONTROL SYSTEM
& OPTIONAL PARTS

Best Control Solution for Each Building Structure

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

SHOP

| Type | Individual control | | | Centralized control | | | Integrating control (Interface) | | |
|--|---|--------------------------|----------------------------|---------------------------|------------------------|--------------------------|---------------------------------|-------------------|----------------|
| | | | | | | | | | |
| | Wired remote controller | Simple remote controller | Wireless remote controller | Central remote controller | Touch panel controller | System controller | Network converter for LonWorks™ | MODBUS® Converter | KNX® converter |
| | UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RVNYM UTY-RCRYZ1 | | | UTY-DCGYZ3 | UTY-DTGYZ1 | UTY-APGXZ1 UTY-ALGXZ1 | UTY-VLGX | UTY-VMGX | UTY-VKGX |
| Automatic control of air conditioning (Schedule timer, Weekly timer, etc.) | • | | | • | • | • | | | |
| Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc. | | | | • | • | • | • | • | • |
| Group control | | | | • | • | • | | | |
| Advanced energy saving: Peak cut, Operation of indoor unit lead lag etc. | | | | | | • | | | |
| Remote monitoring management | | | | • | • | • | | | |
| Manage multiple sites | | | | • | • | • | | | |
| Monitor energy consumption | | | | | | • | | | |
| Control third-party products | | | | | | • | | | |
| Integrate Fujitsu General air conditioning into BMS | | | | | | | • | • | • |

HOTEL

| Type | Individual control | | | Centralized control | | | Integrating control (Interface) | | | | |
|--|--|--------------------------|----------------------------------|---------------------------|------------------------|--------------------------|---------------------------------|---------------------------------|-------------------|----------------|----------------------------|
| | | | | | | | | | | | |
| | Wired remote controller | Simple remote controller | Wireless remote controller | Central remote controller | Touch panel controller | System controller | BACnet® gateway | Network converter for LonWorks™ | MODBUS® converter | KNX® converter | External switch controller |
| | UTY-RVRY UTY-RNRYZ5 UTY-RLRY UTY-RCRYZ1 | UTY-RSRY UTY-RHRY | UTY-LNVY UTY-LNHV 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-LNHV 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 Occupancy sensor for meeting room | | | | • | | | | | | | • |

Comparison Table of Controllers

| Item | | | | | | | | | | | | | | | | | | | |
|---|---|---|-----------------|-----------------|-----------------|-----------------|----------|----------|--|--|----------|----------|----------|----------|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Model name | | UTY-RVRY | UTY-RNRYZ5 | UTY-RLRY | UTY-RVNYM | UTY-RCRYZ1 | UTY-RSRY | UTY-RHRY | | | UTY-LNTY | UTY-LNVY | UTY-LNHY | UTY-LNWX | UTY-DMMYM | UTY-DCGYZ3 | UTY-DTGYZ1 | UTY-ALGXZ1 | UTY-APGXZ1 |
| Maximum number of controllable remote controller groups | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | 1 | 100 | 400 | 400 | 1600 |
| Maximum number of controllable indoor units | | 16 | 16 | 16 | 16 | 1 | 16 | 16 | | | 16 | 16 | 16 | 16 | 8 | 100 | 400 | 400 | 1600 |
| Maximum number of controllable groups | | — | — | — | — | — | — | — | | | — | — | — | — | — | 50 | 400 | 400 | 1600 |
| Air conditioning control functions | ON/OFF | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Operation mode setting | ● | ● | ● | ● | ● | ● | — | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Fan speed control | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Room temperature setting | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Set temperature in 0.5°C increments | ● | ● | ● | — | ● | ● | ● | | | — | ● | — | — | — | ● | ● | — | — |
| | Setting temperature range limitation | ● | ● | ● | ● | — | ● | ● | | | — | — | — | — | — | ● | ● | ● | ● |
| | Test operation | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | — | ● | ● | — | — |
| | Vertical louver setting | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | — | — | ● | ● | ● | ● |
| | Horizontal louver setting | ● | ● | ● | ● | ● | — | — | | | — | ● | ● | ● | — | ● | ● | ● | ● |
| | Individual louver control | ● | ● | — | — | ● | — | — | | | — | — | — | — | — | ● | ●*3 | — | — |
| | Group setting | — | — | — | — | — | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Remote controller prohibition | — | — | — | — | — | — | — | | | — | — | — | — | ● | ● | ● | ● | ● |
| | Anti-freeze setting | ● | ● | — | — | ● | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Set temperature auto return | ● | ● | ● | ● | — | — | — | | | — | — | — | — | — | — | ● | — | — |
| | Economy mode setting | ● | ● | ● | ● | ● | — | — | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Occupancy sensor control | ● | ● | — | — | — | — | — | | | — | — | — | — | ● | ● | ● | ● | ● |
| Displayed items | Error | ● | ● | ● | ● | ● | ● | ● | | | — | — | — | — | ● | ● | ● | ● | ● |
| | Defrosting | ● | ● | ● | ● | ● | ● | ● | | | — | — | — | — | — | ● | ● | ● | ● |
| | Current time | ● | ● | ● | ● | — | — | — | | | ● | ● | ● | — | ● | ● | ● | ● | ● |
| | Day of week | ● | ● | ● | ● | — | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Remote controller prohibition | ● | ● | ● | ● | ● | ● | ● | | | — | — | — | — | ● | ● | ● | ● | ● |
| | Address display | ● | ● | ● | ● | ● | ● | ● | | | — | — | — | ● | — | — | ● | ● | ● |
| | Room temperature | ● | ● | — | ● | ● | ● | ● | | | — | — | — | — | — | ●*4 | ●*4 | ●*4 | ●*4 |
| | Multiple language support | ● | ● | — | ● | — | — | — | | | — | — | — | — | ● | ● | ● | ● | ● |
| | Setting for daylight saving time | ● | ● | — | ● | — | — | — | | | — | — | — | — | ● | ● | ● | ● | ● |
| | Name registration | ● | ● | — | — | — | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Backlighting | ● | ● | — | ● | ● | ● | ● | | | — | ● | — | ● | ● | ● | ● | — | — |
| | 2D floor layout/3D building display | — | — | — | — | — | — | — | | | — | — | — | — | — | — | — | — | ● |
| | Refrigerant leak detection | — | — | — | — | — | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Refrigerant Cycle Monitor | ● | ● | — | — | — | — | — | | | — | — | — | — | — | — | — | — | — |
| | Logo Display | ● | — | — | — | — | — | — | | | — | — | — | — | — | — | — | — | — |
| | Limited Visibility of Settings | ● | — | — | — | — | — | — | | | — | — | — | — | — | — | — | — | — |
| Timer | Schedule timer | Period | Week | Week | Week | Week | — | — | | | — | — | — | — | Week | Year | Year | Year | Year |
| | | ON/OFF, Temp, Low noise mode*5, Times per day | 8 | 8 | 4 | 8 | — | — | | | — | — | — | — | 4 | 20 | 20 | 144 | 144 |
| | ON/OFF timer | — | ● | ● | ● | ●(OFF only) | — | — | | | ● | ● | ● | ● | — | — | — | — | — |
| | Sleep timer | — | — | — | — | — | — | — | | | ● | ● | ● | ● | — | — | — | — | — |
| | Program timer | — | — | — | — | — | — | — | | | ● | ● | ● | ● | — | ● | — | — | — |
| | Auto-off timer | ● | ● | ● | ● | — | — | — | | | — | — | — | — | — | ● | ● | — | — |
| | Day off | ● | ● | ● | ● | — | — | — | | | — | — | — | — | ● | ● | ● | ● | ● |
| Control | Minimum unit of timer setting (minutes) | | 1 • 10 | 10 • 30 | 30 | 30 | — | — | | | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 |
| | Remote monitoring management system | | — | — | — | — | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Electricity charge apportionment | | — | — | — | — | — | — | | | — | — | — | — | — | — | ○ | ○ | ● |
| | Error history | | ● | ● | ● | ● | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Emergency stop | | — | — | — | — | — | — | | | — | — | — | — | — | ●*2 | ●*2 | — | — |
| | Remote monitoring management | | — | — | — | — | — | — | | | — | — | — | — | — | ● | ● | ○ | ● |
| | Energy-saving management | | — | — | — | — | — | — | | | — | — | — | — | — | — | — | ○ | ○ |
| | E-mail notification in case of failure | | — | — | — | — | — | — | | | — | — | — | — | — | ● | ● | ● | ● |
| | Key lock | | ● Child lock | ● Child lock | ● Child lock | ● Child lock | — | — | | | — | — | — | — | ● Child lock | ● Password setting | ● Password setting | ● Password setting | ● Password setting |
| | Low noise mode | | — | — | — | — | — | — | | | — | — | — | — | ● | ● | ● | ● | ● |

*1 "Operation mode" setting not available.
*2 Available only for external input control.

*3 Monitoring sites can be set up.
The main unit side can only be operated to cancel the settings.

*4 Available only when using Wired remote controller.
*5 UTY-DCGYZ3 only

●: Supported ○: Optional function —: Unsupported

Wired Remote Controller (Design type)

UTY-RVRY



Up to
16 indoor units
Up to
1 group



Simple and stylish design that harmonizes with the space

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

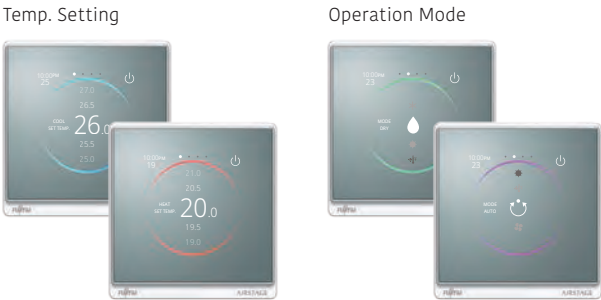
Harmonizes with The Installation Space

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



Intuitive Operation

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



Status Indicator Lamp Colors

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



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.

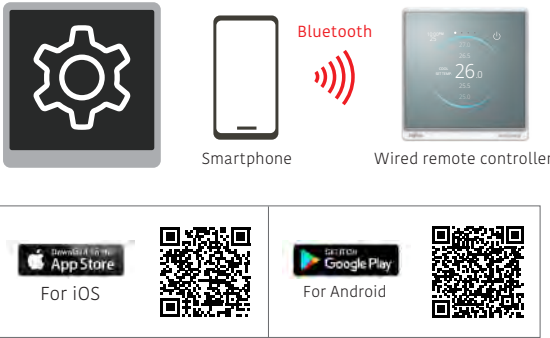
- * Color display available



AIRSTAGE Remo Set Application (free download)

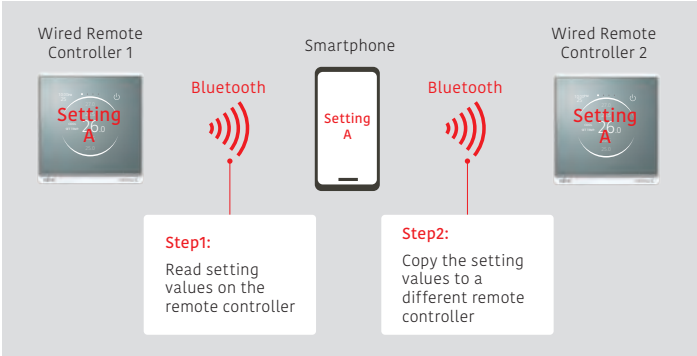
Set up your wired remote controller via Bluetooth from your smartphone (or directly at the controller).

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



Initial Settings / Indoor Unit Function

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



*Smartphone : Wired Remote Controller = 1 : 1

Specifications

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

Wired Remote Controller (with touch panel)

UTY-RNRYZ5



Up to
16 indoor units
Up to
1 group

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

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

High Performance and Compact Size

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



Accurate Control for Comfort

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



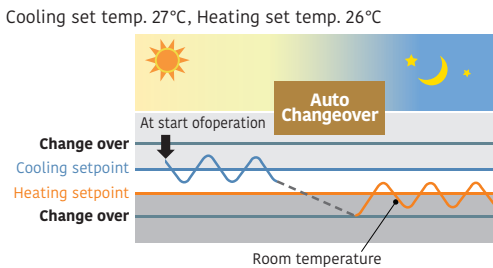
Room temperature display
Room temperature sensor

Energy Saving Controls

Custom Auto

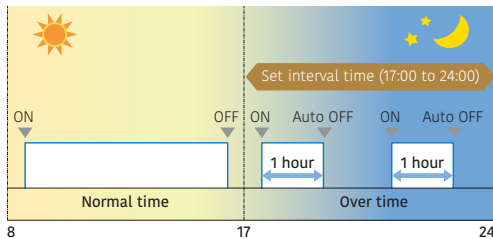
- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models



Auto-off timer

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



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

2-setting weekly timer

Set temperature auto return

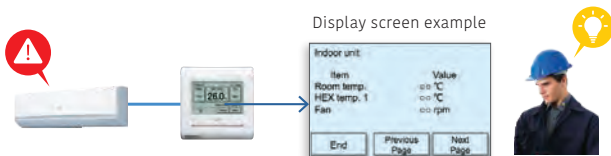
Setting temperature range limitation

Features: Wired Remote Controller (Touch Panel)

Refrigerant Cycle Monitor (option)

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

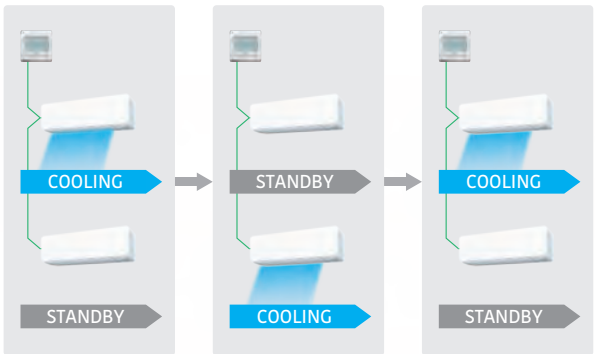
* This function is only supported by split units, using the H-Serial communication protocol. Example: ASYH30KMTB



Multi System Control*1

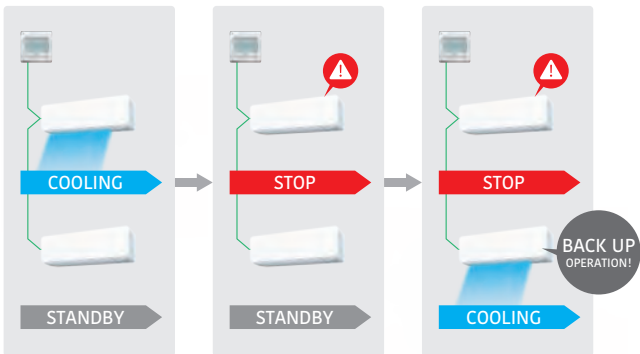
1) Lead Lag Operation

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



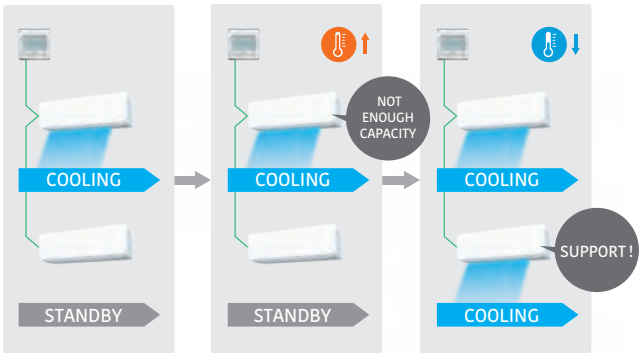
2) Back Up Operation

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



3) Lag Operation

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



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

Specifications

| | |
|-----------------------------|------------------|
| Model name | UTY-RNRYZ5 |
| Power Source | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 20.4 |
| Weight (g) | 220 |

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY



Up to
16 indoor units
Up to
1 group

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

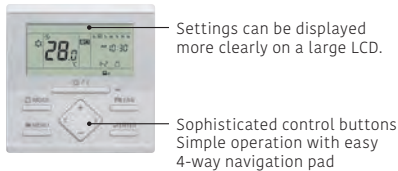
High Performance and Compact Size

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



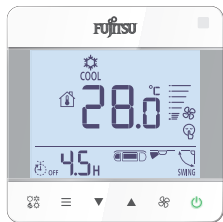
Visually Intuitive Operation

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



Compact Wired Remote Controller

UTY-RCRYZ1

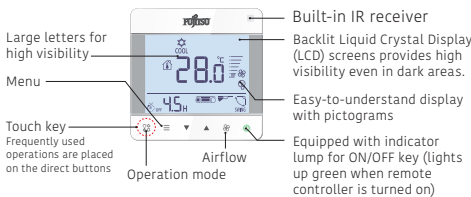


Up to
1 indoor units
Up to
1 group

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

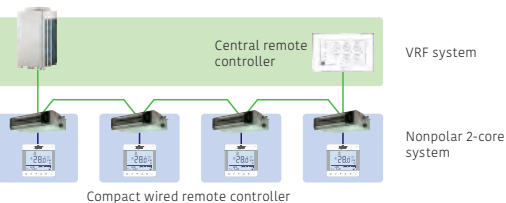
Large Screen and Simple Display

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

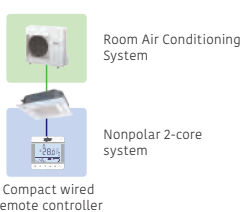


System Overview

VRF connection



RAC connection



Specifications

| Model name | UTY-RLRY | UTY-RCRYZ1 |
|-----------------------------|----------------|--------------|
| Power source | 12 V DC | 12 V DC |
| Dimensions (H × W × D) (mm) | 120 × 120 × 17 | 86 × 86 × 44 |
| Weight (g) | 170 | 135 |

12 V DC supplied by an indoor unit

Wired Remote Controller

UTY-RVNYM



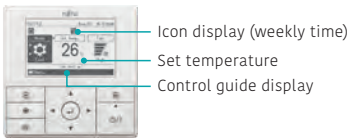
Up to
16 indoor units
Up to
1 group

Hi-Grade Individual Control with a Wide Range of Functions

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

Visually Intuitive Operation

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



High Performance and Compact Size

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



Wired Remote Controller

UTY-RNNYM



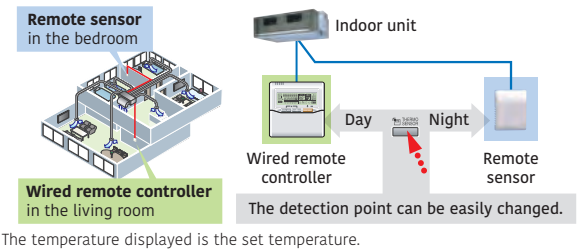
Up to
16 indoor units
Up to
1 group

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

Accurate Control for Comfort

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

Examples of sensor changes



Built-in Timer

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

Specifications

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

12 V DC supplied by an indoor unit

Simple Remote Controller

UTY-RSRY / UTY-RHRY (without operation mode)



UTY-RSRY

UTY-RHRY

(Without operation mode)

Up to
16 indoor units
Up to
1 group

Compact Remote Controller with Basic Functionality

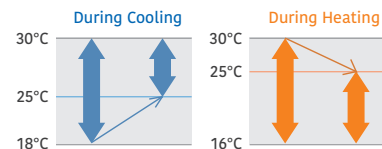
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Simple design that matches stylish interiors
- Large LCD screen and easy-to-use control buttons
- Backlight: White backlight makes it easy to operate in the dark.
- Nonpolar 2-core type

Supports a Variety of Applications

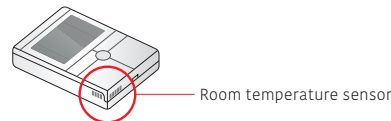
- **Vertical louver control:** Adjusts the vertical airflow direction of a duct-type indoor unit with an auto louver or a cassette type installed in a hotel room or a conference room.



- **Setting temperature range limitation:** Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.



- **Built-in room temperature sensor:** Monitors and controls room temperature accuracy.



Specifications

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

12 V DC supplied by an indoor unit

Wireless Remote Controller

UTY-LNTY



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

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

Built-in Timer

4 timer programs: ON/OFF/Program/Sleep

Program timer: Sets ON/OFF time once for every 24 hours.

Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy Installation and Operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.

Wide and precise transmitting range

Wireless Remote Controller

UTY-LNWX



NEW

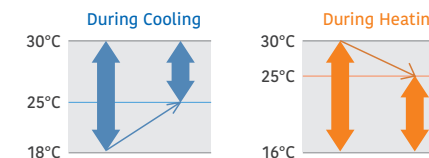


Up to
16 indoor units
Up to
1 group
Up to
4 different daily timers

Simple and Comfort Control

Setting Temperature Range Limitation

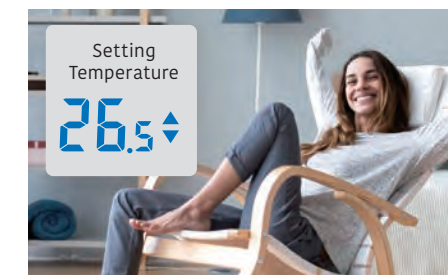
Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.



Precise Control

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

*Depends on the indoor unit



Specifications

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

12 V DC supplied by an indoor unit

Wireless Remote Controller

UTY-LNVY



Up to
16 indoor units

Up to
1 group

Up to
4 different daily timers

Stylish Design with Backlight

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

Built-in Timer

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

Error Diagnosis

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

Precise Control

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

*Depends on the indoor unit

Wireless Remote Controller

UTY-LNHY



Up to
16 indoor units

Up to
1 group

Up to
4 different daily timers

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

Built-in Timer

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

Easy Installation and operation

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

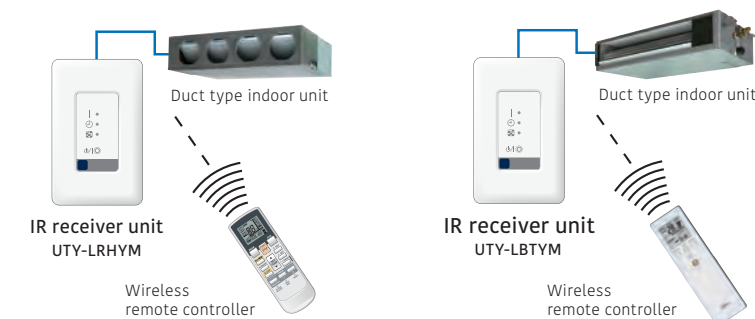
Specifications

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

12 V DC supplied by an indoor unit

IR Receiver Unit for Duct type

UTY-LRHYM / UTY-LBTYM



The wireless remote controller controls duct type indoor units.

IR Receiver Unit for Cassette

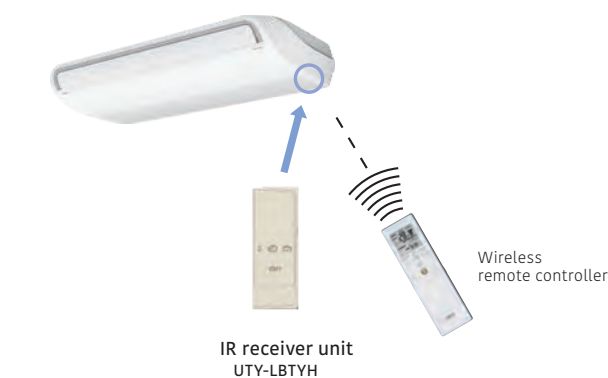
UTY-LBTYC



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 x W x D) (mm) | 170 x 56 x 19 | 205 x 61 x 17 | 205 x 61 x 17 | 205 x 61 x 17 |
| Weight (g) | 85 | 125 | 125 | 125 |

< IR Receiver Unit>

| | | | | |
|-----------------------------|---------------|---------------|------|------|
| Battery | DC5V | DC5V | DC5V | DC5V |
| Dimensions (H x W x D) (mm) | 145 x 90 x 30 | 145 x 90 x 30 | —* | —* |
| Weight (g) | 150 | 150 | 140 | 100 |

DC 5 V is supplied the indoor unit.

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

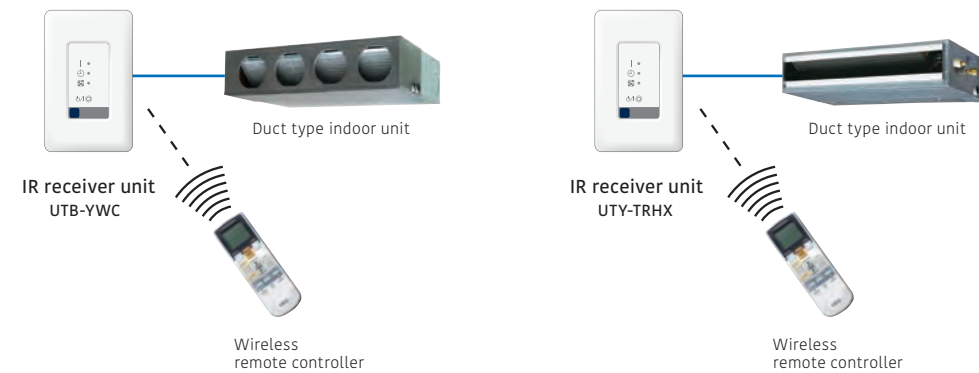


IR Receiver Unit for Duct type

UTB-YWC / UTY-TRHX

The wireless remote controller controls duct type* indoor units.

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



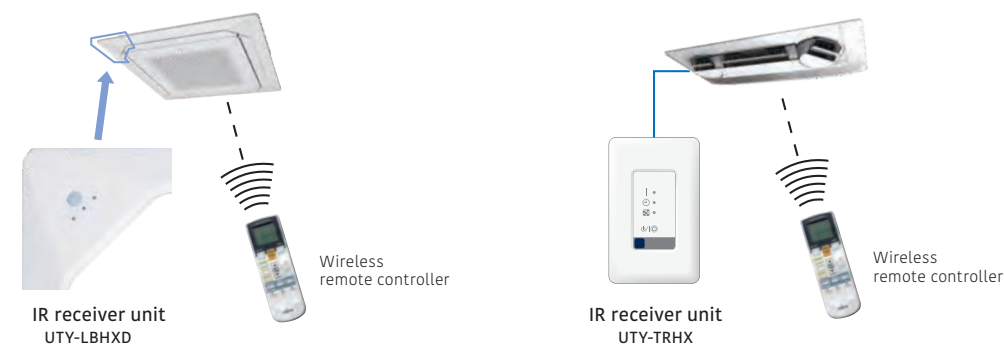
*A separate wireless remote control (model: UTY-LNHY) is required.

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 unit



AIRSTAGE Mobile

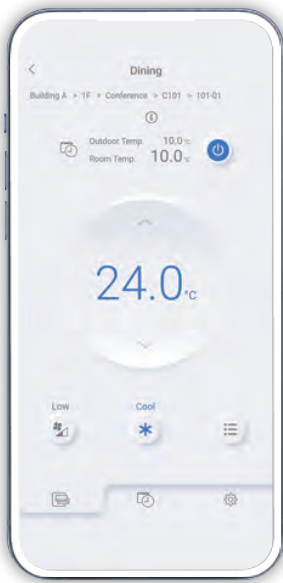
“AIRSTAGE Mobile” is an application software that enables you to manage the Fujitsu General’s air conditioner(s) with a mobile device from anywhere.

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



User Friendly for Everyone

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



Image*



House Owner



Shop Owner



Commercial
Building Owner

Main Functions

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

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

Ease of Use is Pursued to Achieve a Stylish Design

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



Mode change



Fan speed change



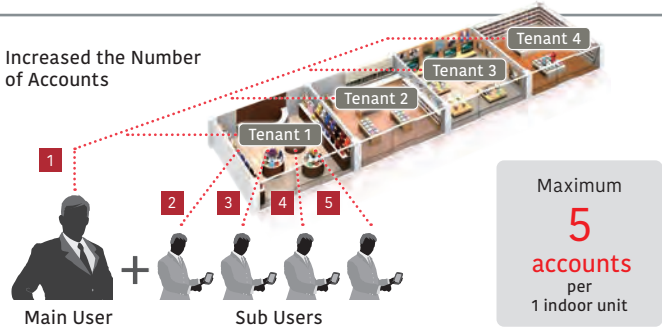
Weekly timer



Features: AIRSTAGE Mobile

Centralized Operation for Flexible Remote Management of All Air Conditioners

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



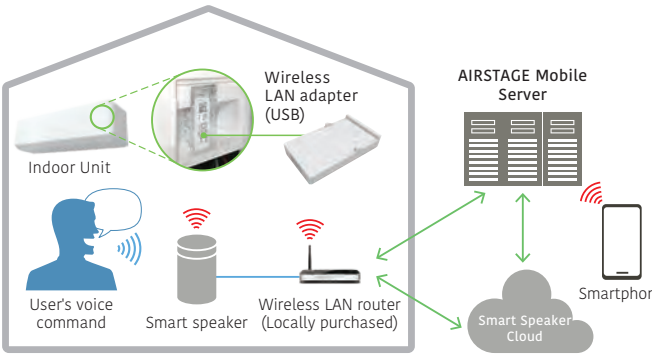
Hierarchical Group Management

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



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

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



Specifications

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

WLAN Adapter

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



Intesis®
BY HNS NETWORKS



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

Intesis®
BY HNS NETWORKS



FG-AC-WIF1Z1
(CN connector type)

Intesis®
BY HNS NETWORKS



FG-IR-WIF1Z1
(IR type)

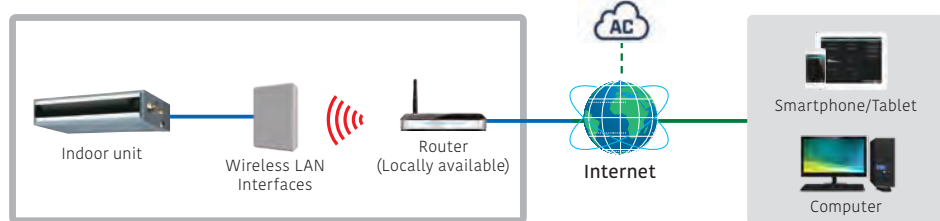
Up to
1 indoor unit

AC Cloud Control

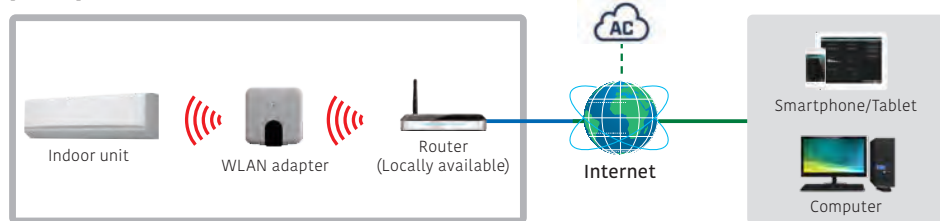
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

Installation Example

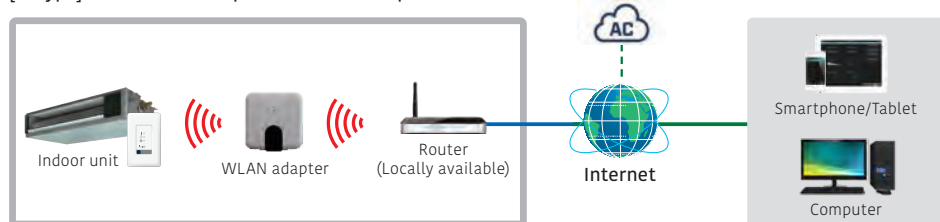
[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



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



*IR receiver required.

Basic Control

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

Advanced Control (optional functions)

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

Notification and Operation History

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

Specifications

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

Multiple Protocol WLAN Adapter

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



Intesis®
BY HNS NETWORKS



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

Intesis®
BY HNS NETWORKS



FG-AC-WMP1Z1
(CN connector type)

Intesis®
BY HNS NETWORKS



FG-IR-WMP1Z1
(IR type)

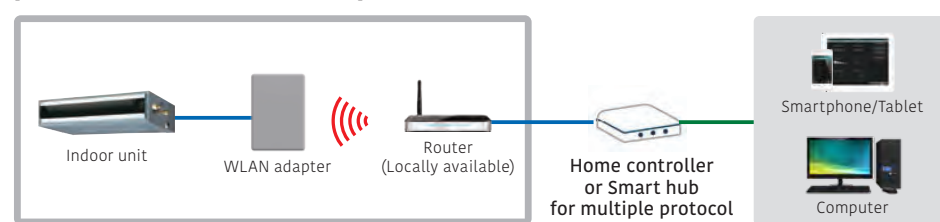
Up to
1 indoor unit

AC Cloud Control

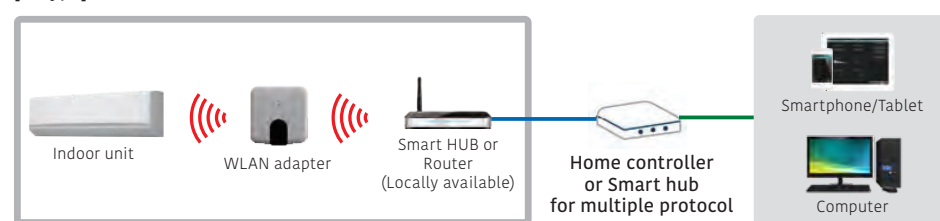
- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

Installation Example

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



[IR type]



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

Specifications

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

Multiple Protocol LAN Adapter

FG-TL-BMKM16Z1



Intesis®
BY HNS NETWORKS

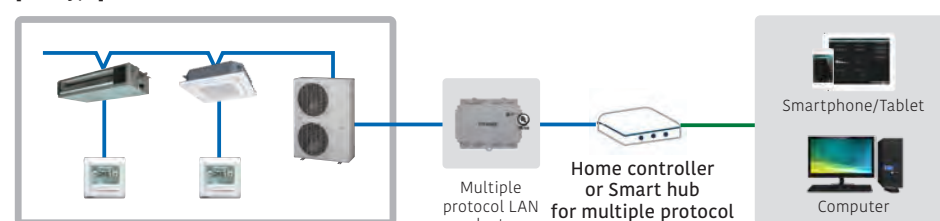


FG-TL-BMKM16Z1
(VRF type)

Up to
16 indoor units

Installation Example

[VRF type]



*No separate external power supply required

Specifications

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

*24 V DC power supply is recommended.

Home Central Remote Controller

UTY-DMMYM / UTY-DMMYM1

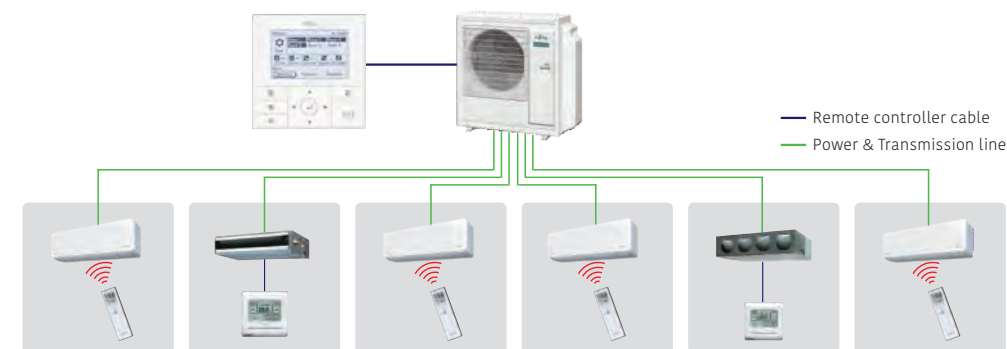


Up to
1 multi-split system
Up to
6 indoor units

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

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

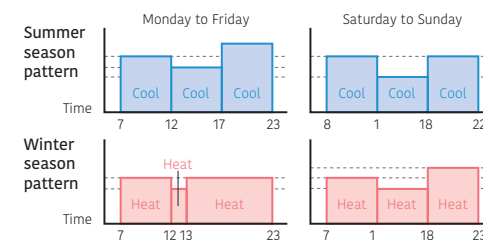
Example of system configuration



Home Central Remote Controller

Weekly timer

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



Low noise operation

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

10 °C heat operation

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

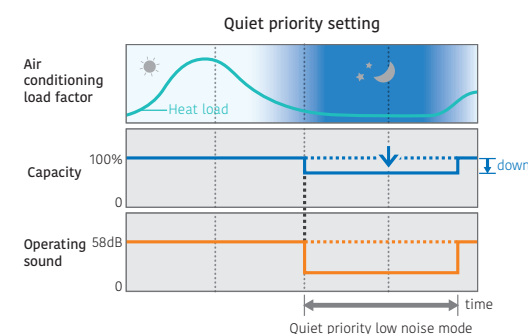
*Consult your dealer for conditions of use.

Economy operation

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

Prohibiting local control, including settings such as child lock

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



Specifications

| Model name | UTY-DMMYM/UTY-DMMYM1 |
|-----------------------------|----------------------|
| Power source | 12 V DC |
| Dimensions (H × W × D) (mm) | 120 × 120 × 21.3 |
| Weight (g) | 220 |

12 V DC supplied by an indoor unit



Central Remote Controller

UTY-DCGYZ3



Up to
100 indoor units
Up to
50 groups

For Tenants in Small to Midsize Commercial Premises

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

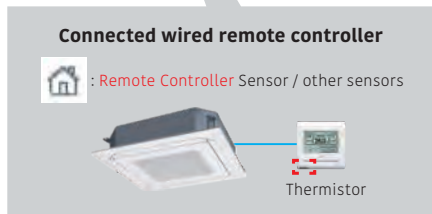
Easy Operation

Air conditioning management by detecting room temperatures of each room

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



*Room temperature is displayed only when indoor unit operates.



50 Remote Controller Groups Display

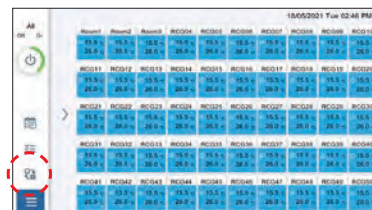
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor
by each Groups

50 Remote Controller Groups Display

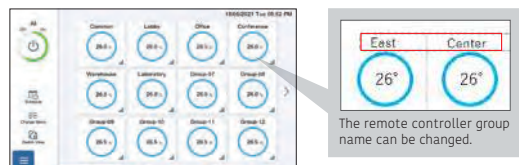


Manage & Monitor
by 50 Remote Controller Groups



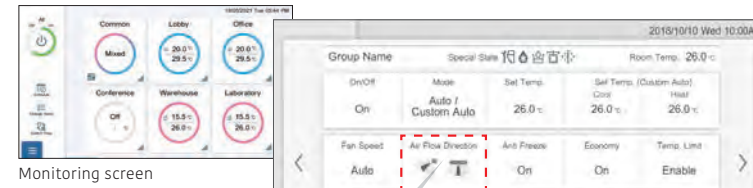
Remote Controller Groups Rename

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



Features: Central Remote Controller

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



Monitoring screen

Individual setting

Added individual wind direction control

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



Circular flow cassette

Occupancy sensor Compatible

Occupancy sensor setting

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

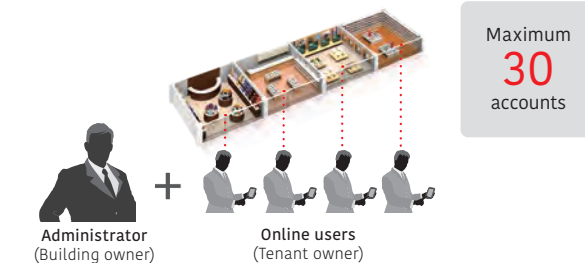


Remote Management

Remote monitoring / Remote operation

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

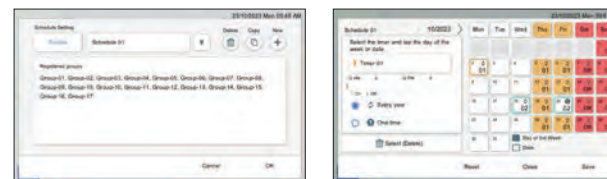
Increased the Number of Accounts



Schedule Management

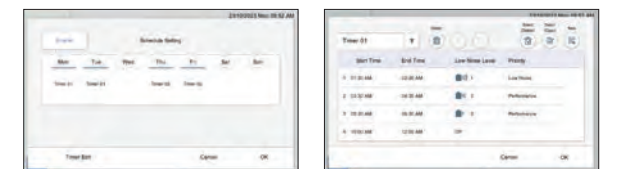
Annual schedule

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



low noise schedule

Low noise operation of outdoor units can be scheduled.



Automatic return to set temperature

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

Specifications

| Model name | UTY-DCGYZ3 |
|-----------------------------|----------------------|
| Power Supply | 100-240 V 50/60 Hz |
| Dimensions (H × W × D) (mm) | 134.6 × 216.2 × 37.9 |
| Weight (g) | 800 |

Touch Panel Controller

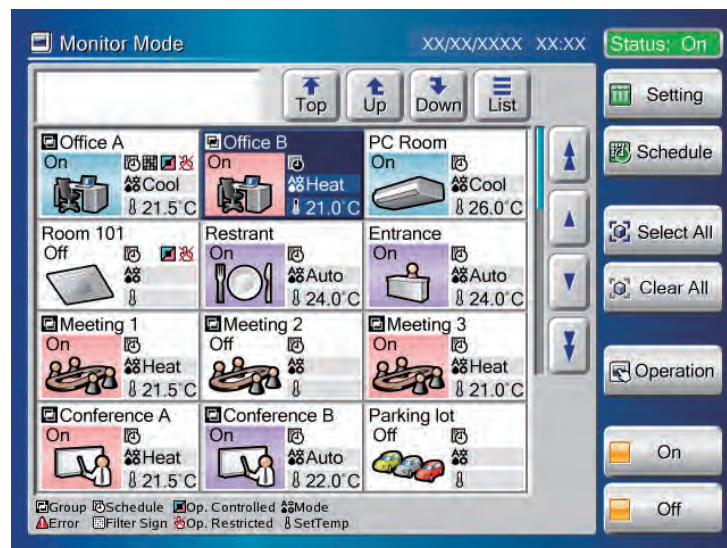
UTY-DTGYZ1



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

Easy Operation

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



Up to
400 indoor units

Up to
100 outdoor units

Up to
400 groups

Easy Maintenance

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

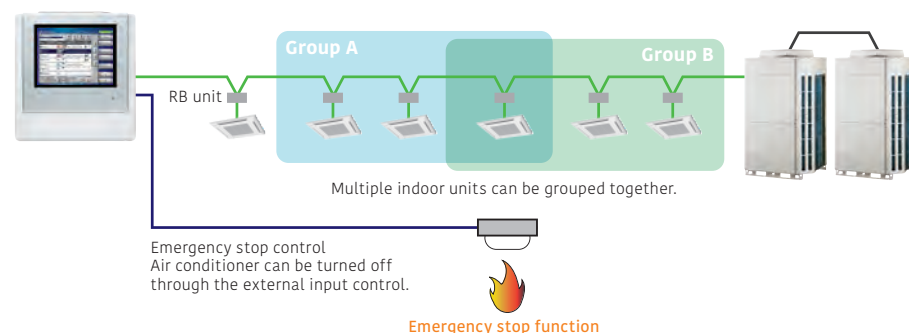


Easy Installation

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



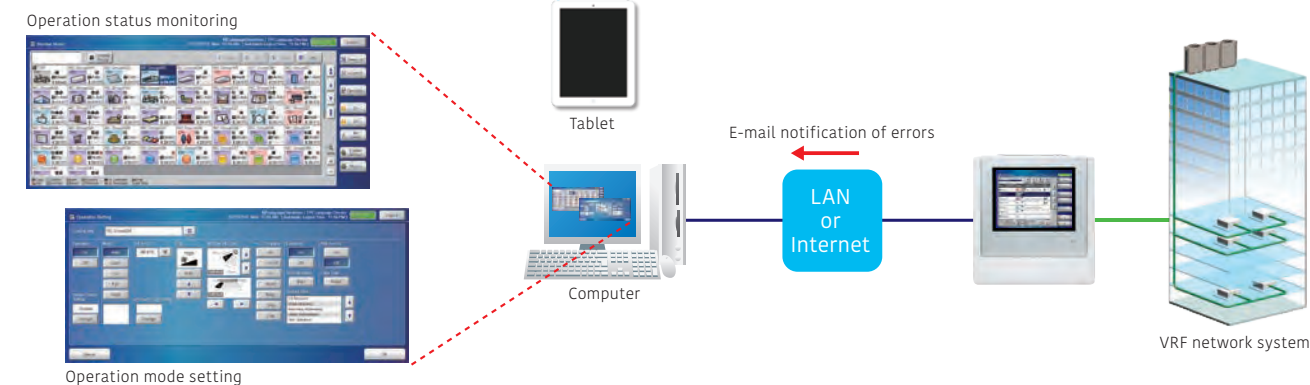
Controls Up to 400 Indoor Units



Features:

Control & Monitoring

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



Smartphone

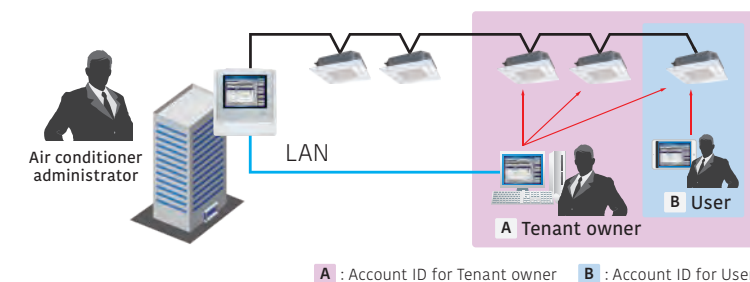
| Model name | Browser |
|--------------------------|-------------------|
| Nexus 6P (Android 7.1.1) | Google Chrome 5.5 |
| iPhone 7 (iOS 10.1) | Safari 10 |

Tablet

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

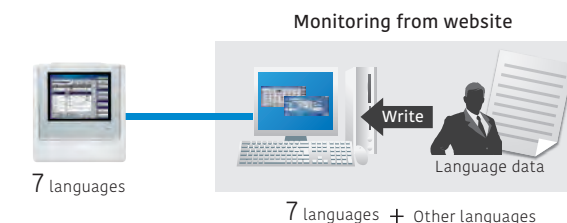
Flexible access permissions can be granted to users at each point level.

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



Additional Languages

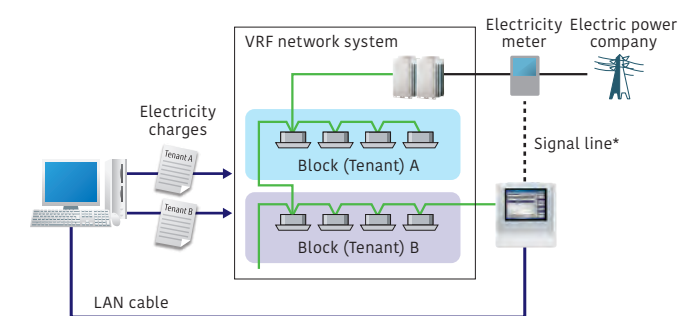
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



Electricity Charge Apportionment (Option: UTY-PTGXA)

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

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



* 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:

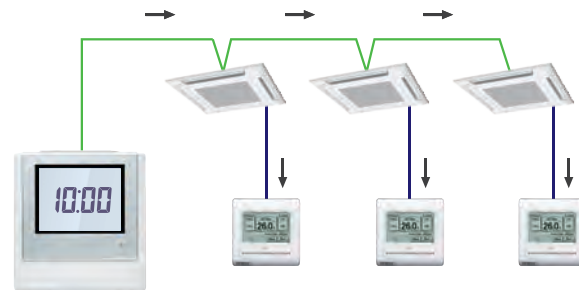
Automatic Setting for Daylight Saving Time

Functions provided

- 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.

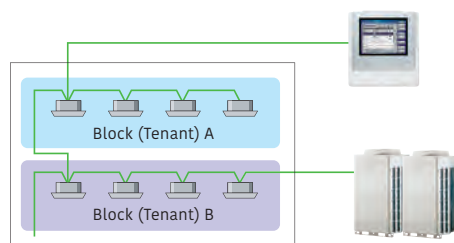
Automatic clock adjustment

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

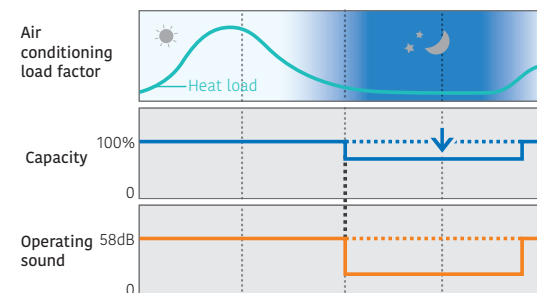


Outdoor Unit Low Noise Operation

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



Quiet priority setting



Energy-Saving Controls

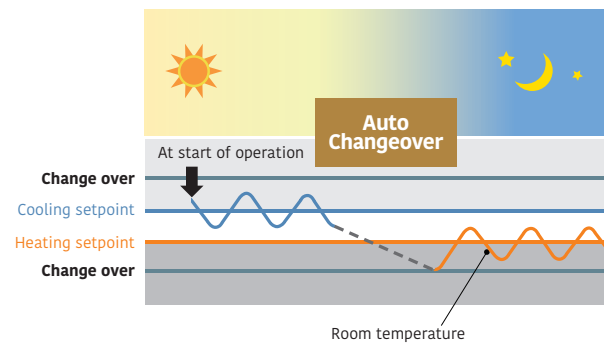
Custom Auto

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

* Not available for some models



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





Refrigerant Leak Detection

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



Pop-up highlighting

FUNCTIONS SUMMARY



| |  UTY-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 | ● | ● |
| Occupancy sensor control | — | ● |
| Displayed items | | |
| Error | ● | ● |
| Defrosting | ● | ● |
| Current time | ● | ● |
| Day of week | ● | ● |
| Remote controller prohibition | ● | ● |
| Cooling/heating priority | ● | ● |
| Address display | ● | ● |
| Room temperature | ●*3 | ●*3 |
| Multiple language support | ● | ● |
| Setting for daylight saving time | ● | ● |
| Time zone setting | ● | ● |
| Name registration | ● | ● |
| Backlighting | ● | ● |
| Language setting | 7 | 7+other |
| Filter sign reset | ● | ● |
| Memory operations | ● | ● |
| Refrigerant leak detection | ● | ● |

●: Supported ○: Optional function —: Not supported

*1 Only setting cancellation can be operated.

*2 Only available for external input control.

*3 Available only when using a Wired remote controller.

| | |  UTY-DTGYZ1 |  Monitoring side |
|---|-----------------------------------|---|--|
| Timer | | | |
| Schedule timer | Period | Year | Year |
| | ON/OFF, Temp, Mode, Times per day | 20 | 20 |
| ON/OFF timer | | — | — |
| Sleep timer | | — | — |
| Program timer | | — | — |
| Auto-off timer | | — | ● |
| Day off | | ● | ● |
| Minimum unit of timer setting (minutes) | | 10 | 10 |
| Control | | | |
| Remote monitoring management system | | ● | ● |
| Electricity charge apportionment | | ○ | ○ |
| Error history | | ● | ● |
| Emergency stop | | ●*2 | ●*2 |
| Remote monitoring management | | — | ● |
| Energy-saving management | | — | — |
| E-mail notification in case of failure | | — | ● |
| Key lock | | ● Password setting | — |
| Low noise mode | | ● | ● |

Specifications

| Model name | UTY-DTGYZ1 |
|-----------------------------|--|
| Power supply | Single phase ~100 to 240 V 50/60 Hz |
| Dimensions (H × W × D) (mm) | 260 × 246 × 54 |
| Weight (g) | 2,150 |
| Interfaces | Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW |

System Controller

UTY-APGXZ1 (Software)

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

System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- Up to 1,600 indoor units and 400 outdoor units on up to 4 VRF network systems can be controlled.
- To accommodate facility management needs, the system controller offers—in addition to precise air conditioning control—remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.



System Controller Lite

UTY-ALGXZ1 (Software)

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

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

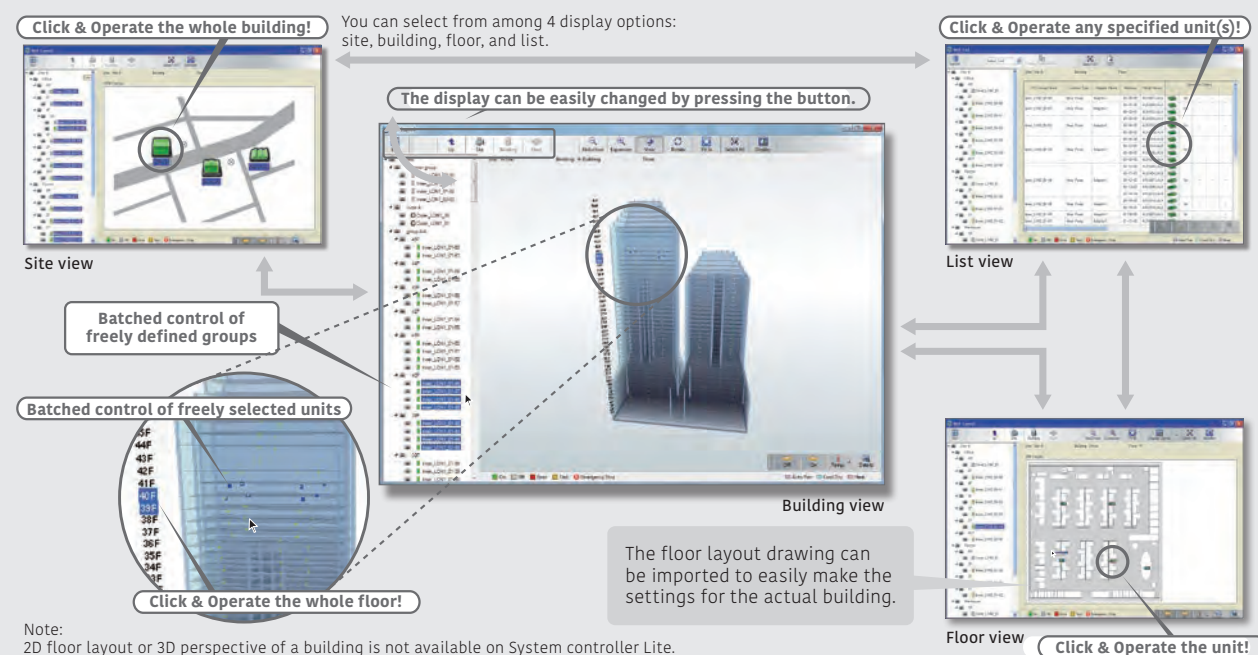
- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian,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



Visually Intuitive Operation

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

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

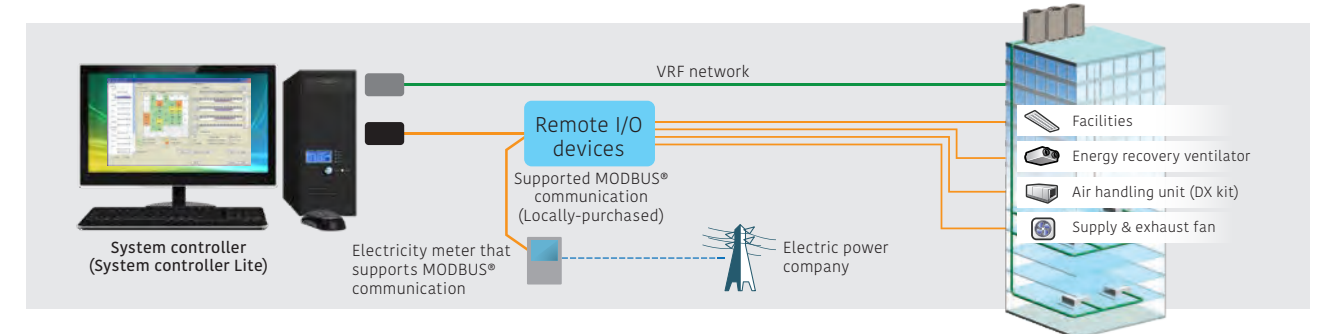


Features:

Third-Party Devices Connected via MODBUS® can be Controlled.

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

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

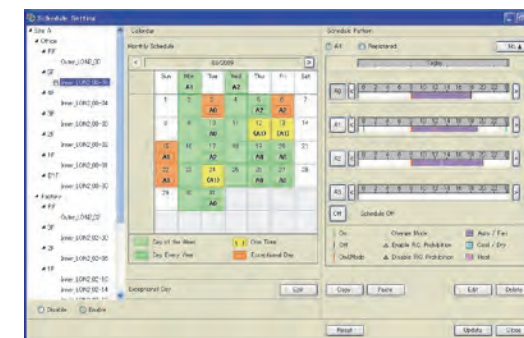


Wide-Ranging Operation and Data Management

Standard System controller and System controller Lite

Schedule management

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



Wide-ranging control of indoor and outdoor units

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

Remote controller prohibition

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

Error alert and e-mail notice

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

Operation and control history

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

Importing and exporting databases

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

Automatic clock adjustment

Time can be set for all controllers in batch automatically.

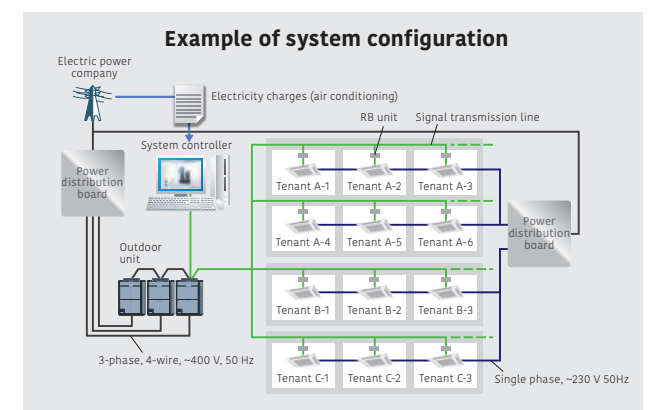
Electricity Charge Apportionment

Standard on System controller

Option System controller Lite UTY-PLGXA2

Electricity charge apportionment method

This is a method to calculate monthly energy costs to be allocated to each tenant based on the amount of energy used by their air conditioners. The first step is to determine exactly how much energy is consumed by air conditioners in each tenant space. The second step is to divide the total energy charge billed by an electric power company based on the amount of energy used by each tenant to determine the energy cost to be allocated to each of them. (See figure on right) The calculation takes into consideration such factors as the number of unused rooms and nighttime electricity rate, which are shown in detail on an energy cost allocation schedule.





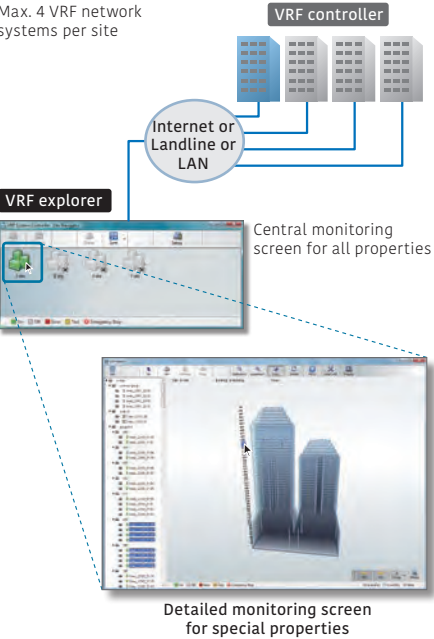
Features:

Remote Monitoring Management

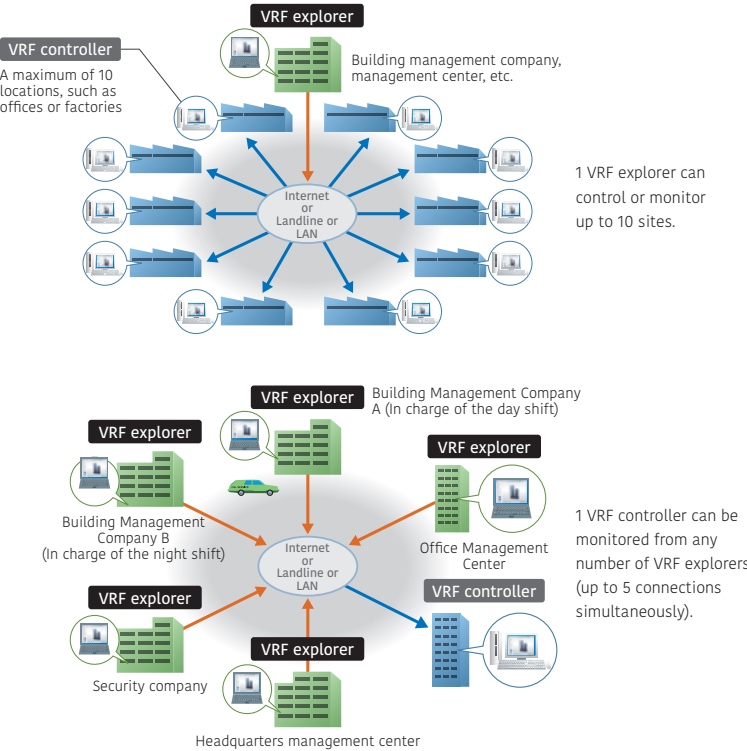
- Standard on System controller
- Option System controller Lite UTY-PLGXR2

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

On site central control



Remote central control



Energy-Saving Management

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

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



Main screen for energy-saving management

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

Indoor unit rotation

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

Peak-cut mode

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

Capacity saving for outdoor unit

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

Summary of functions

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

●: Available - : Not available

Computer requirements

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

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

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

Packing list

| Type | For System controller | | For System controller Lite | | | |
|---------------|-----------------------|-----------------------|----------------------------|---------------|---|--|
| | System controller | Option Energy manager | System controller Lite | Remote access | Option Electricity charge apportionment | Option Energy saving 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: Software protection key to be inserted in a USB slot running System controller or System controller Lite. System controller or System controller Lite may only run on a PC with a WHITE-USB-KEY. However, a WHITE-USB-KEY is not required for remote VRF explorer software.

MODBUS® Converter for indoor unit

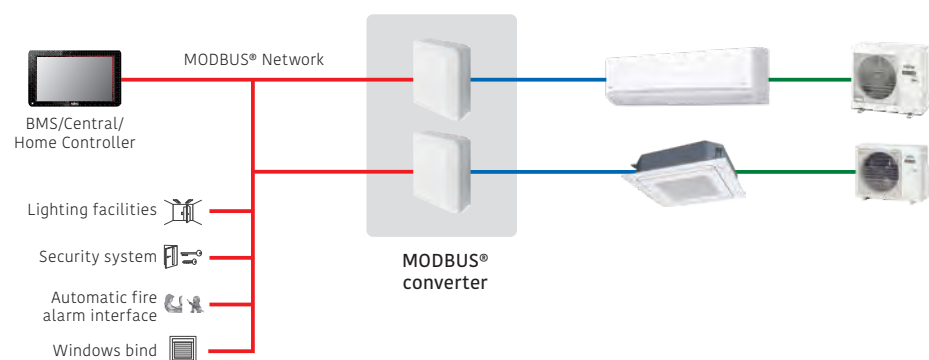
UTY-VMSX



Up to
1 indoor unit

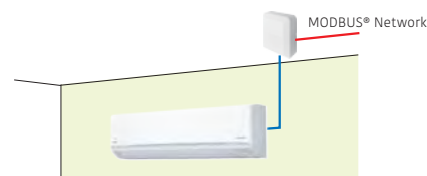
MODBUS® Converter Enables Air Conditioners to be Fully Integrated into a MODBUS® Network.

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



Easy Installation

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



Basic Control

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

Specifications

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

Modbus communication specifications

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

MODBUS® Interface

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



Intesis®
BY HBS NETWORKS



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

Intesis®
BY HBS NETWORKS



FG-AC-MBS1Z1
(CN connector type)

Intesis®
BY HBS NETWORKS



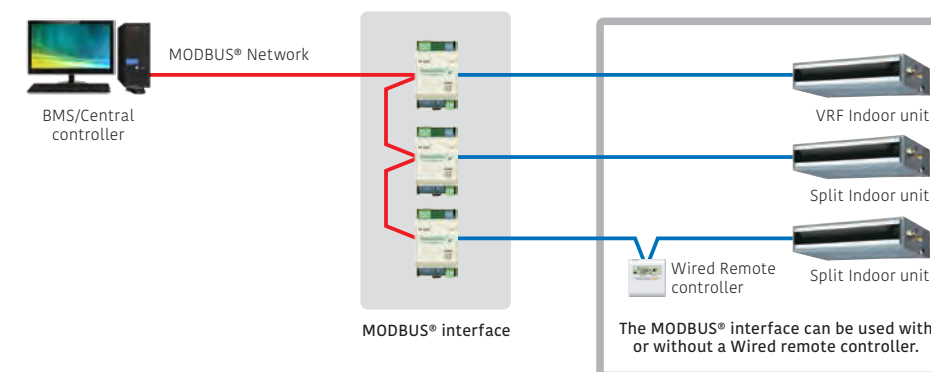
FG-IR-BMG1Z1
(IR type)

Up to
1 indoor unit

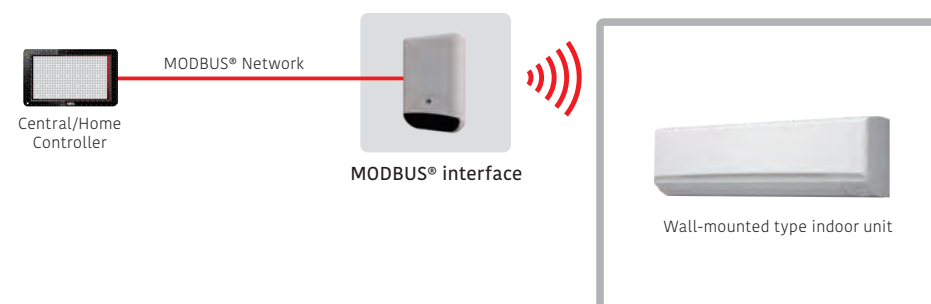
MODBUS® Interface Enables Air Conditioners to be Fully Integrated into a MODBUS® Network.

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

Installation Example



[IR type] Connection to wall-mounted type

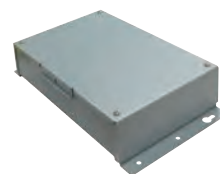


Specifications

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

MODBUS® Convertor for VRF

UTY-VMGX / FG-TL-BMKM16Z1



UTY-VMGX

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

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

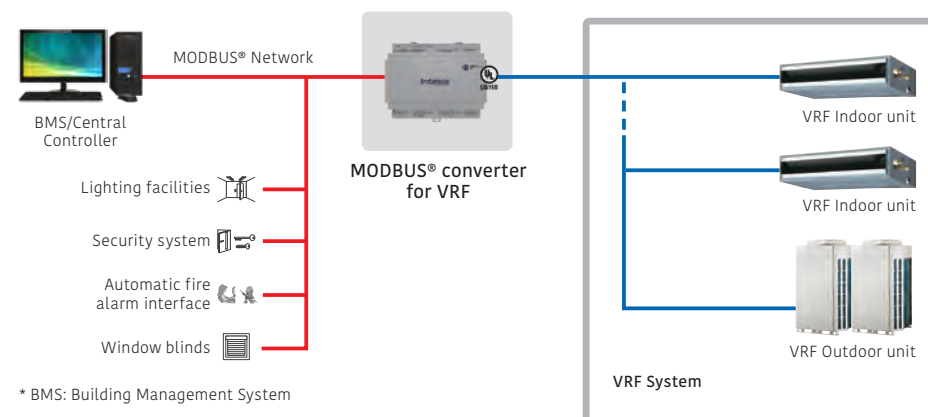
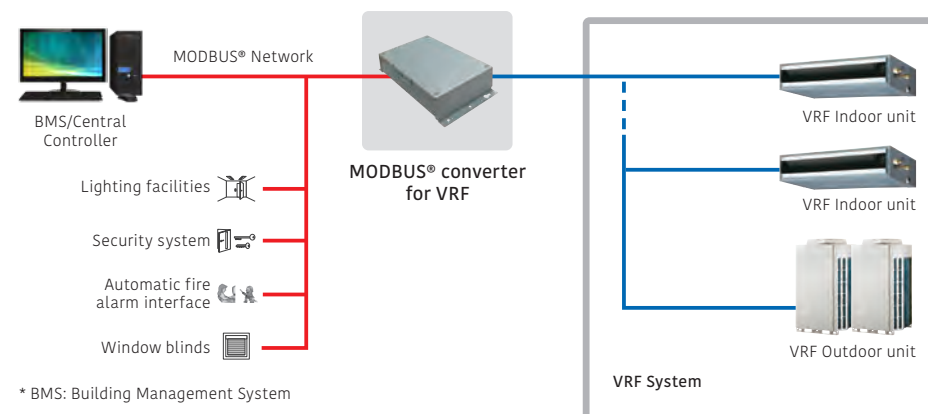
- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® convertor enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature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

Installation Example



FG-TL-BMKM16Z1

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



Specifications

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

*24 V DC power supply is recommended.

BACnet® Interface

FG-AC-BAC1Z1 / FG-IR-BMG1Z1



FG-AC-BAC1Z1 (CN connector type)

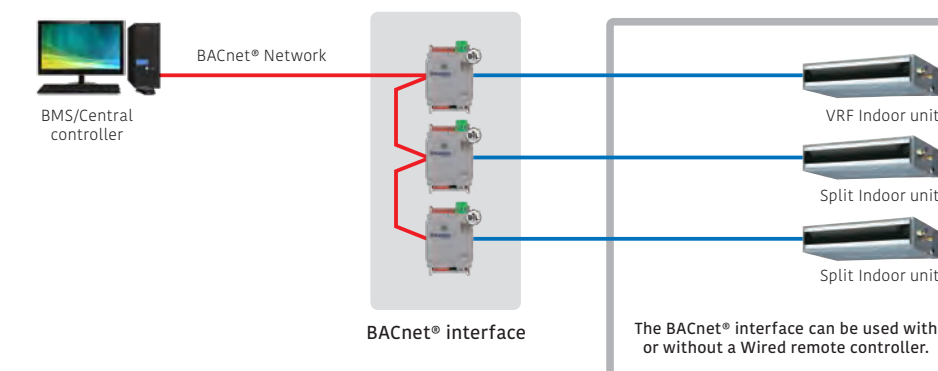


FG-IR-BMG1Z1 (IR type)

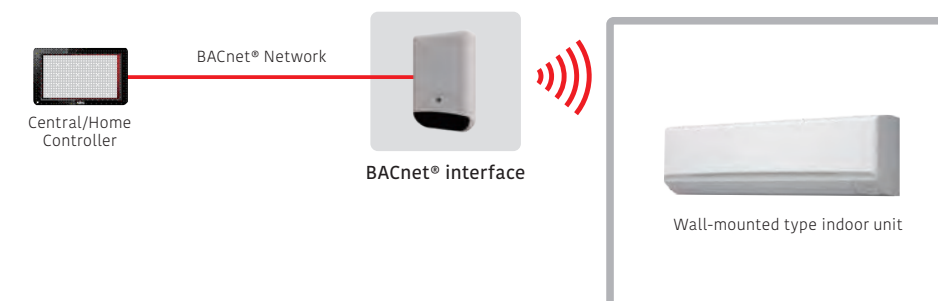
Up to
1 indoor unit

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

Installation Example



[IR type] Connection to wall-mounted type



Specifications

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

12 V DC supplied by an indoor unit

BACnet® Gateway

UTY-ABGXZ1 **Software**



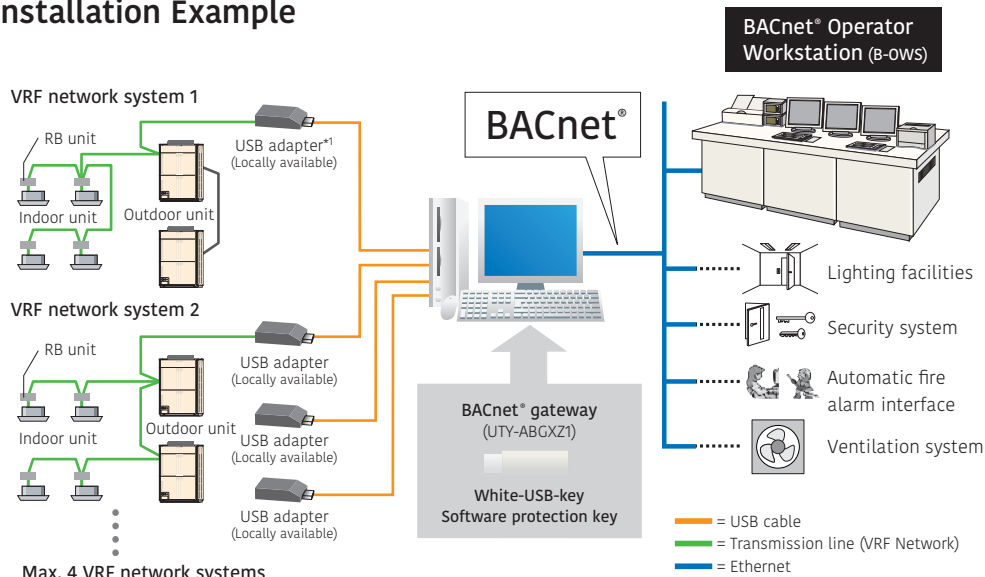
White-USB-key
(Software Protection Key)



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

Installation Example



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

Computer requirements

| | UTY-ABGXZ1 |
|------------------|--|
| Operating system | <ul style="list-style-type: none">• Microsoft Windows 10 Home (64-bit)• Microsoft Windows 10 Pro (64-bit)• Microsoft Windows 11 Home (64-bit)• Microsoft Windows 11 Pro (64-bit) Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish |
| CPU | Intel Core i3 2 GHz or higher |
| Memory | <ul style="list-style-type: none">• 4 GB or more (for Windows 10)• 8 GB or more (for Windows 11) |
| HDD | 40 GB or more of free space |
| Displayed items | 1,024 × 768 or higher resolution |
| Interfaces | <ul style="list-style-type: none">• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using public telephone line)• USB ports (Maximum of 5 ports) (Required only for the server PC that works as VRF controller)<ul style="list-style-type: none">– Maximum of 1 USB ports are required for WHITE-USB-KEY connection– Maximum of 4 USB ports are required for Echelon U10 USB/U60-FT DIN Network Interface NOTE: Maximum number of required USB ports depends on the applicable system configuration. |
| Software | Adobe Reader 9.0 or later |

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

Packing list

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

BACnet® Gateway

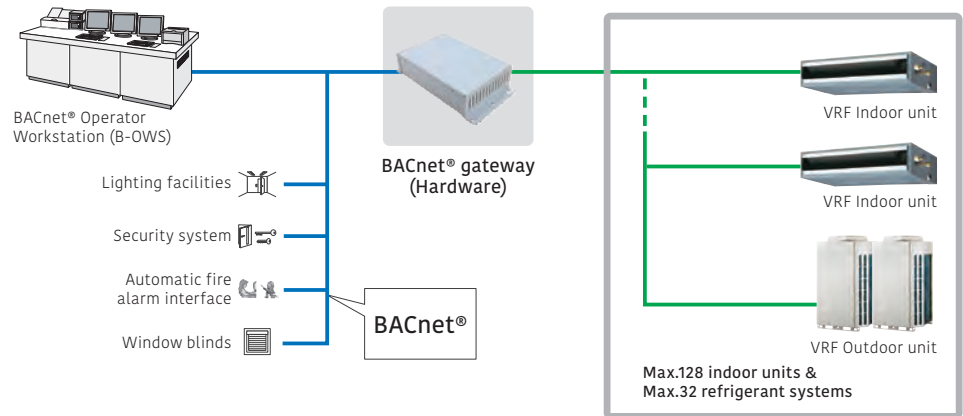
UTY-VBGX **Hardware**



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

Installation Example



Specifications

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

BACnet®/MODBUS® Router

FG-RTR-BAC32Z1 / FG-RTR-MBS32Z1



Intesis®
BY HMS NETWORKS



FG-RTR-BAC32Z1
(BACnet)

Intesis®
BY HMS NETWORKS



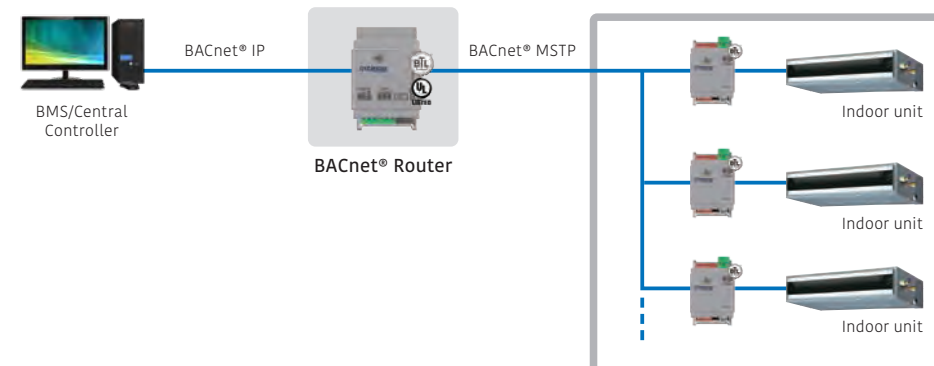
FG-RTR-MBS32Z1
(MODBUS®)

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

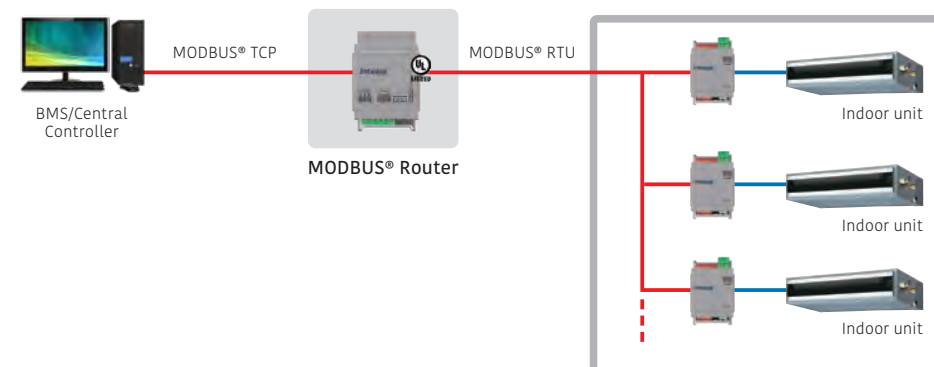
- Routing between BACnet® MS/TP and BACnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

Installation Example

[BACnet® type]



[MODBUS® type]



Specifications

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

BACnet®/MODBUS® Cloud Device

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



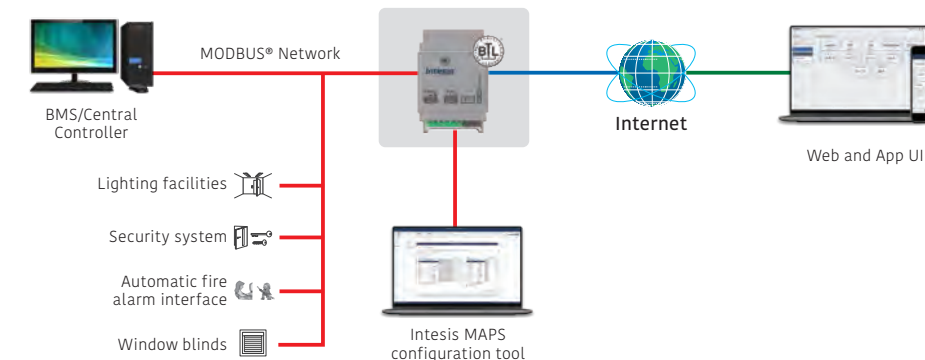
Intesis®
BY HMS NETWORKS



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

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

Installation example



*BMS: Building Management System

Gateway Features

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

Next-Generation Services

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

System Features

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

Specifications

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

KNX® Converter for indoor unit

UTY-VKSX

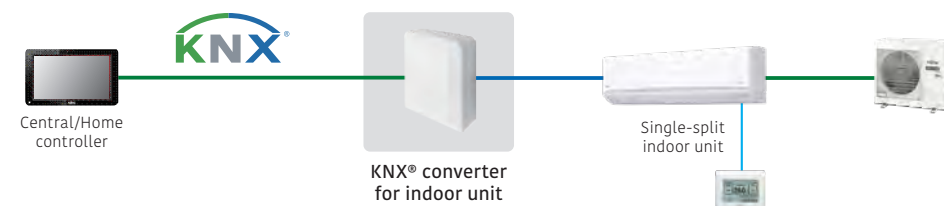


Up to
1 indoor unit

KNX® converter Enables Individual Control of an Indoor Unit.

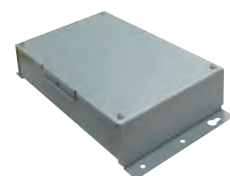
- The KNX® converter connects a central or home controller and a Fujitsu General indoor unit.
- Compact and lightweight design

Installation example



KNX® Converter for VRF

UTY-VKGX / FG-TL-BMKM16Z1



UTY-VKGX

Up to
100 outdoor units
Up to
128 indoor units



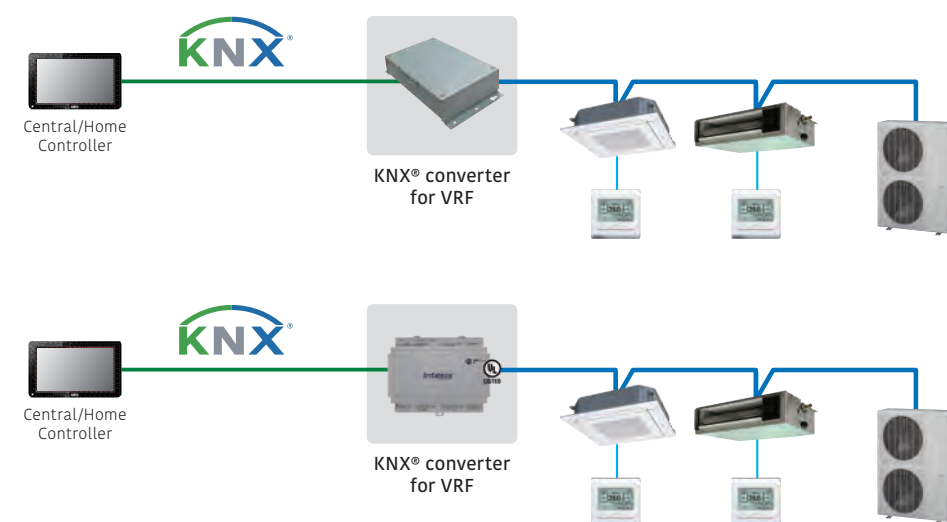
FG-TL-BMKM16Z1

Up to
16 outdoor units
Up to
16 indoor units

KNX® converter Enables Centralized Control of a System.

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

Installation Example



Specifications

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

*24 V DC power supply is recommended.

KNX® Interface

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



Intesis®



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

Intesis®



FG-AC-KNX1Z1
(CN connector type)

Intesis®



FG-IR-KNX1Z1
(IR type)

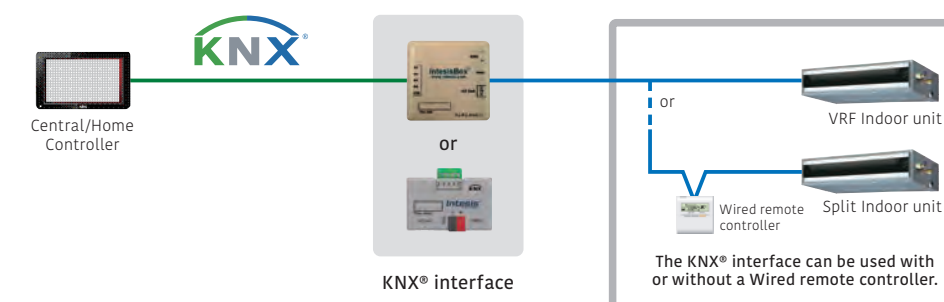
Up to
1 indoor unit

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

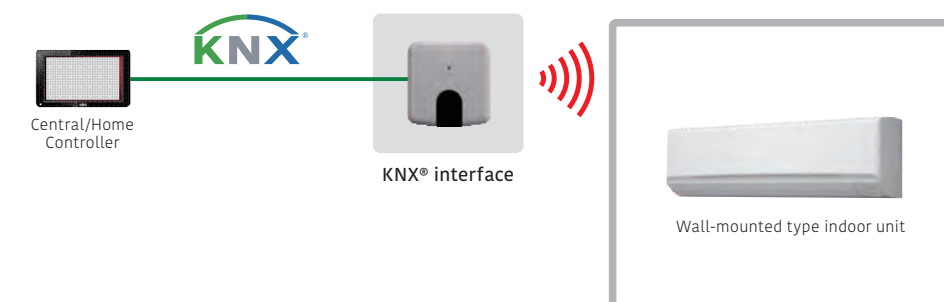
- Simple installation due to small and compact size.
- No separate external power supply required (only KNX® bus power required)

Installation Example

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



[IR type] Connection to wall-mounted type



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



Specifications

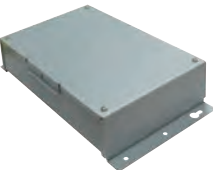
| Model name | FG-RC-KNX1Z1 (3-wire RC-line type) | FG-AC-KNX1Z1 (CN connector type) | FG-IR-KNX1Z1 (IR type) |
|-------------------------------|------------------------------------|----------------------------------|------------------------|
| Number of controllable groups | 1 | 1 | 1 |
| Dimensions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

Network Converter for single-split type

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type



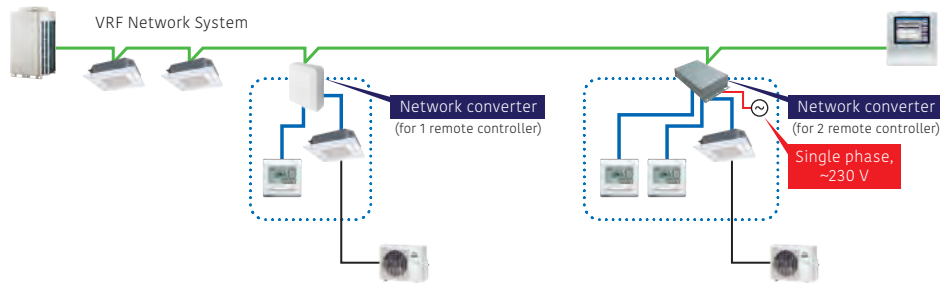
UTY-VTGXV
AC power supply type

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

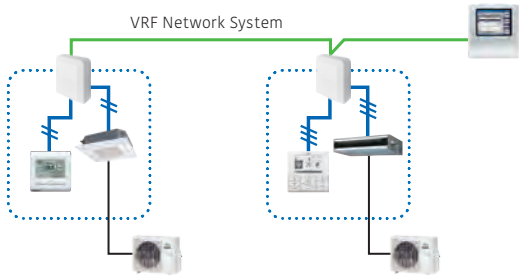
- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation Example

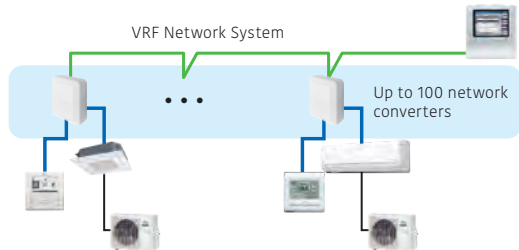
- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50/60 Hz) is required for the 2-remote-controllers type.



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



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

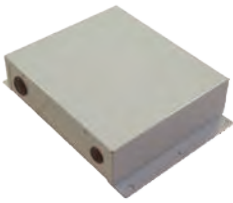


Specifications

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

Network Converter for LONWORKS™

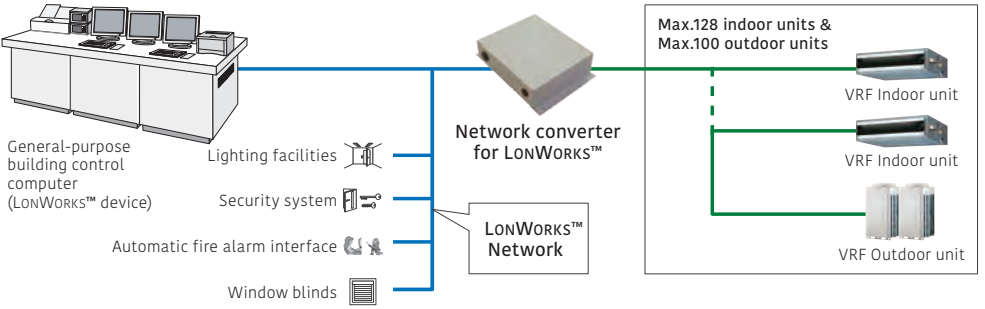
UTY-VLGX



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

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

Installation Example



Specifications

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

Transmission specifications (BMS side)

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

External Switch Controller

UTY-TERX



Up to
1 group

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

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

Installation Example

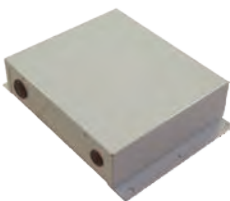
Occupancy sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.



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

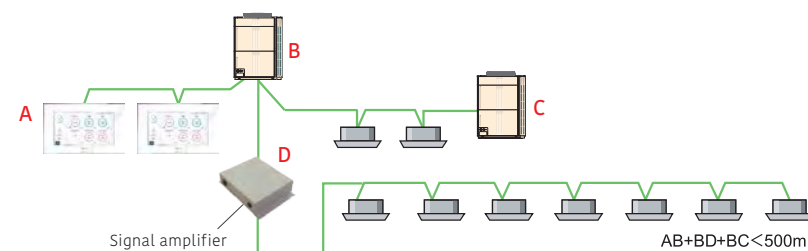
Signal Amplifier

UTY-VSGXZ1



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

Installation Example



Specifications

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














12 V DC supplied by an indoor unit



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

Controller Options/Accessories:
















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

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

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

Controller Options/Accessories:

























| Type | Refrigerant | Indoor unit | | | | | | | Indoor unit | | | | | | | Outdoor unit | |
|---|---|--|---|---|--|----------------------|----------------|---------------------------|--|--|--|---------------------------|------------------|---------------------------------|--------------|--|--|
| | | Duct | | | | | | | Floor | Ceiling | Multi-split | | | | Single phase | | |
| | | Slim | Medium static pressure (High-Efficiency & Comfort) | Medium static pressure (Compact) | Medium static pressure (Standard) | High static pressure | | BIG | | | Wall-mounted | | Compact cassette | Mini duct | Slim duct | 5/6-unit multi-split | |
| |  | ARXG 09/12/14/18 KLLAP | ARXH 12/14/18/22/24/ 30/36/45/54 KMTAP | ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP | ARXG22KMLB, ARXG 24/30/36/45 KMLA | ARXG45/54KHTB | | | AGEG09/12/14KVCA | ABEG 18/22/24/30/ 36/45/54 KRTA | ASEH05KNCA | ASEG22KMTE | AUXG07KVLA | ARXG 07/09/12/14/18 KSLAP | ARXG07KLLAP | AOEG36KBTA5 | |
|  | | | | | | | ARYG60LHTA | ARYG72/90LHTA | | | | | | | | AOYG45LBLA6 | |
| Controllers | Wired remote controller |  | ● UTY-RVRY | | | | | ● UTY-RVRY | ● UTY-RVRY+ UTY-TWRXZ3 | ● UTY-RVRY | ● UTY-RVRY+ UTY-TWRXZ2 | ● UTY-RVRY | | | | | |
| | |  | ● UTY-RNRYZ5 | | | | | ● UTY-RNRYZ5 | ● UTY-RNRYZ5+ UTY-TWRXZ3 | ● UTY-RNRYZ5 | ● UTY-RNRYZ5+ UTY-TWRXZ2 | ● UTY-RNRYZ5 | | | | | |
| | |  | ● UTY-RLRY | | | | | ● UTY-RLRY | ● UTY-RLRY+ UTY-TWRXZ3 | ● UTY-RLRY | ● UTY-RLRY+ UTY-TWRXZ2 | ● UTY-RLRY | | | | | |
| | |  | ● UTY-RCRYZ1 | | | | | ● UTY-RCRYZ1 | ● UTY-RCRYZ1+ UTY-TWRXZ3 | ● UTY-RCRYZ1 | ● UTY-RCRYZ1+ UTY-TWRXZ2 | ● UTY-RCRYZ1 | | | | | |
| | |  | ● UTY-RVNYM | | ● UTY-RVNYM | | ● UTY-RVNYM | | | | | | ● UTY-RVNYM | | | | |
| | |  | ● UTY-RNNYM | | ● UTY-RNNYM | | ● UTY-RNNYM | | | | | | ● UTY-RNNYM | | | | |
| | Simple remote controller |  Nonpolar 2-core type | ● UTY-RSRY UTY-RHRY | | | | | ● UTY-RSRY UTY-RHRY | ● UTY-RSRY UTY-RHRY+ UTY-TWRXZ3 | ● UTY-RSRY UTY-RHRY | ● UTY-RSRY UTY-RHRY+ UTY-TWRXZ2 | ● UTY-RSRY UTY-RHRY | | | | | |
| | Home central remote controller |  | | | | | | | | | | | | | | ● UTY-DMMYM1*3 (KBTA5) UTY-DMMYM*3 (LBLA6) | |
| | Wireless remote controller |  | | | | | | | | | | | ● UTY-LNTY | | | | |
| | IR receiver unit with Wireless remote controller |  For Duct type | | | | | | ● UTY-LRHYM | | | | | | | | | |
|  For Duct type For Cassette type For Ceiling type | | ● UTY-LBTYM | | | | | | ● UTY-LBTYM | | ● UTY-LBTYH | | | | ● UTY-LBTYM | | | |

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

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

Controller Options/Accessories:



| Type | Refrigerant | Indoor unit | | | | | Indoor unit | | | | |
|------------|---|---|--|---|---------------|-----------------|------------------|------------------|--------------------------|------------------------------|-----------------------------------|
| | | Wall-mounted | | | | | Wall-mounted | | Cassette | | |
| | | Designer Range | | Standard Range | | | ECO Range | | Compact 4-way flow Range | Circular flow Range | |
| |  | ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASYG07/09/12/14KGTE | ASEG07/09/12/14 KETF, KETF-B ASYG07/09/12/14 KETE, KETE-B | ASEH07/09/12/14 KMCG,KMCG-B, ASYG07/09/12/14KMCF, ASYG07/09/12/14KMCE | ASEG18/24KMTE | ASEH30/36KMTB | ASEH07/09/12KNCA | ASEG07/09/12KPCE | ASEH07/09/12KLTA | AUXG 09/12/14/18/22/24 KVL A | AUXG 18/22/24/30/36/45/54 KRLB |
| |  | | | | | | | | | | |
| Interfaces | MODBUS® Converter |  | ● UTY-VMSX | | | | | | | | ● UTY-VMSX |
| | MODBUS® interface |   | ● FG-AC-MBS1Z1 | | | | | | | | ● FG-RC-MBS1Z1 FG-AC-MBS1Z1 |
| | |  | ● FG-IR-BMG1Z1 | | | | | | | | |
| | KNX® converter |  | ● UTY-VKSX | | | | | | | | ● UTY-VKSX |
| | KNX® interface |   | ● FG-AC-KNX1Z1 | | | | | | | | ● FG-RC-KNX1Z1 FG-AC-KNX1Z1 |
| | |  | ● FG-IR-KNX1Z1 | | | | | | | | |
| | WLAN adapter |   | | | | | | | | | ● UTY-TFSXJ3 |
| | |  | ● Accessory (KGTG, KGTF, KETF, KETF-B, KMCG, KMCF) UTY-TFSXH3 (KGTE, KETE, KETE-B, KMCE) | | | ● UTY-TFSXH3 | | ● Accessory | ● UTY-TFSXH3 | | |
| | |   | ● FG-AC-WIF1Z1 | | | | | | | | ● FG-RC-WIF1Z2 FG-AC-WIF1Z1 |
| | |  | ● FG-IR-WIF1Z1 | | | | | | | | |
| | |   | ● FG-AC-WMP1Z1 | | | | | | | | ● FG-RC-WMP1Z1 FG-AC-WMP1Z1 |
| | |  | ● FG-IR-WMP1Z1 | | | | | | | | |
| | External switch controller |  | ● UTY-TERX+UTY-TWRXZ2 | | | | | | | | ● UTY-TERX |
| | Network converter for single-split type |   | ● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2 | | | | | | | | ● UTY-VTGX UTY-VTGXV |
























*There are no optional parts for the KL Series.

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

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

Controller Options/Accessories:

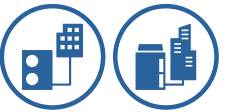














| Type | | Refrigerant | Indoor unit | | | | | | Indoor unit | | | | | | | Outdoor unit | | | |
|------------|---|---|-----------------------------------|---|---|--|----------------------|-------------------|---------------------------------|---------------------------------|--|--|---------------------------------|---|----------------------------|-----------------------------------|---------------------------------|-------------|--|
| | | | Duct | | | | | | Floor | Ceiling | Multi-split | | | | Single phase | | | | |
| | | | Slim | Medium static pressure (High-Efficiency & Comfort) | Medium static pressure (Compact) | Medium static pressure (Standard) | High static pressure | | | | BIG | Wall-mounted | | Compact cassette | Mini duct | Slim duct | 5/6-unit multi-split | | |
| | |  | ARXG 09/12/14/18 KLLAP | ARXH 12/14/1822/24/ 30/36/45/54 KMTAP | ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP | ARXG22KMLB, ARXG 24/30/36/45 KMLA | | ARXG45/54KHTB | | | AGEG09/12/14KVCA | ABEG 18/22/24/30/ 36/45/54 KRTA | ASEH05KNCA | ASEG22KMTE | AUXG07KVLA | ARXG 07/09/12/14/18 KSLAP | ARXG07KLLAP | AOEG36KBTA5 | |
| | |  | | | | | | | ARYG60LHTA | ARYG72/90LHTA | | | | | | | | AOYG45LBLA6 | |
| Interfaces | MODBUS® Converter |  | ● UTY-VMSX | | | | | | | ● UTY-VMSX | ● UTY-VMSX*2 | ● UTY-VMSX | | ● UTY-VMSX*1 | ● UTY-VMSX | | | | |
| | MODBUS® interface |   | ● FG-RC-MBS1Z1 FG-AC-MBS1Z1 | | | | | ● FG-AC-MBS1Z1 | ● FG-RC-MBS1Z1 | | ● FG-RC-MBS1Z1 FG-AC-MBS1Z1 | ● FG-AC-MBS1Z1 | | | ● FG-AC-MBS1Z1 | ● FG-RC-MBS1Z1 FG-AC-MBS1Z1 | | | |
| | |  | ● FG-IR-BMG1Z1+ UTY-LBTYC | ● FG-IR-BMG1Z1+ UTY-LBTYM | | | | | ● FG-IR-BMG1Z1+ UTY-LRHYM | ● FG-IR-BMG1Z1+ UTY-LRHYM | ● FG-IR-BMG1Z1 | ● FG-IR-BMG1Z1+ UTY-LBTYH | ● FG-IR-BMG1Z1 | | | ● FG-IR-BMG1Z1+ UTY-LBTYM | | | |
| | KNX® converter |  | ● UTY-VKSX | | | | | | | ● UTY-VKSX | ● UTY-VKSX*2 | ● UTY-VKSX | | ● UTY-VKSX*1 | ● UTY-VKSX | | | | |
| | KNX® interface |   | ● FG-RC-KNX1Z1 FG-AC-KNX1Z1 | | | | | ● FG-AC-KNX1Z1 | ● FG-RC-KNX1Z1 | | ● FG-RC-KNX1Z1 FG-AC-KNX1Z1 | ● FG-AC-KNX1Z1 | | | ● FG-AC-KNX1Z1 | ● FG-RC-KNX1Z1 FG-AC-KNX1Z1 | | | |
| | |  | ● FG-IR-KNX1Z1+ UTY-LBTYC | ● FG-IR-KNX1Z1+ UTY-LBTYM | | | | | ● FG-AC-KNX1Z1+ UTY-LBTGM | ● FG-IR-KNX1Z1+ UTY-LRHYM | ● FG-IR-KNX1Z1+ UTY-LRHYM | ● FG-IR-KNX1Z1 | ● FG-IR-KNX1Z1+ UTY-LBTYH | ● FG-IR-KNX1Z1 | | | ● FG-IR-KNX1Z1+ UTY-LBTYM | | |
| | WLAN adapter |    | ● UTY-TFSXJ3 | | | | | | | ● UTY-TFSXJ3 | | | | | ● UTY-TFSXJ3 | | | | |
| | |  | | | | | | | | | | | | ● Accessory | ● UTY-TFSXH3 | | | | |
| | |   | ● FG-RC-WIF1Z2 FG-AC-WIF1Z1 | | | | | ● FG-AC-WIF1Z1 | ● FG-RC-WIF1Z2 | | ● FG-RC-WIF1Z2 FG-AC-WIF1Z1 | ● FG-AC-WIF1Z1 | | | ● FG-AC-WIF1Z1 | ● FG-RC-WIF1Z2 FG-AC-WIF1Z1 | | | |
| | |  | ● FG-IR-WIF1Z1+ UTY-LBTYC | ● FG-IR-WIF1Z1+ UTY-LBTYM | | | | | ● FG-IR-WIF1Z1+ UTY-LRHYM | ● FG-IR-WIF1Z1+ UTY-LRHYM | ● FG-IR-WIF1Z1 | ● FG-IR-WIF1Z1+ UTY-LBTYH | ● FG-IR-WIF1Z1 | | | ● FG-IR-WIF1Z1+ UTY-LBTYM | | | |
| | |   | ● FG-RC-WMP1Z1 FG-AC-WMP1Z1 | | | | | ● FG-AC-WMP1Z1 | ● FG-RC-WMP1Z1 | | ● FG-RC-WMP1Z1 FG-AC-WMP1Z1 | ● FG-AC-WMP1Z1 | | | ● FG-AC-WMP1Z1 | ● FG-RC-WMP1Z1 FG-AC-WMP1Z1 | | | |
| | |  | ● FG-IR-WMP1Z1+ UTY-LBTYC | ● FG-IR-WMP1Z1+ UTY-LBTYM | | | | | ● FG-IR-WMP1Z1+ UTY-LRHYM | ● FG-IR-WMP1Z1+ UTY-LRHYM | ● FG-IR-WMP1Z1 | ● FG-IR-WMP1Z1+ UTY-LBTYH | ● FG-IR-WMP1Z1 | | | ● FG-IR-WMP1Z1+ UTY-LBTYM | | | |
| | External switch controller |  | ● UTY-TERX | | | | | | | ● UTY-TERX | ● UTY-TERX+ UTY-TWRXZ3 | ● UTY-TERX | | ● UTY-TERX+ UTY-TWRXZ2 | ● UTY-TERX | | | | |
| | Network converter for single-split type |   | ● UTY-VTGX UTY-VTGXV | | | | | | | ● UTY-VTGX UTY-VTGXV | ● UTY-VTGX+ UTY-TWRXZ3 UTY-VTGXV+ UTY-TWRXZ3 | ● UTY-VTGX UTY-VTGXV | | ● UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2 | ● UTY-VTGX UTY-VTGXV | | | | |

*There are no optional parts for the KL Series.

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

Controller Options:



| Type | Refrigerant | Indoor unit | | | | | | Indoor unit | | | | | | | |
|---|---|---|---------------------------|---|-----------------------------|-----------------------------|---|---|--------------|---|-----------------------------|-----------------|---------------------------------|---|----------------------|
| | | Cassette | | | | | | Duct | | | | | | | |
| | | 1-way Flow | 3D flow | Compact 4-way Flow Cassette Grid type | | Slim type | Large type | | Mini | Low static pressure | | | Low static pressure | Medium static pressure | High static pressure |
| | | | | | High Efficiency | Circular flow | | | | | Slim | High Efficiency | | | |
| |  | | | AUXB 004/005/007/009/ 012/014/018 HLAH | AUXN 009/012/014 HLAH | | | | | ARXD 004/005/007/009/012/ 014/018/024 HLAH | ARXP 009/012/014 HLAH | | | | |
| |  | AUXV 004/007/009/012/ 014/018/024 GLEH | AUXS018/024GLEH | AUXB 004/007/009/012/ 014/018/024 GLEH | | AUXM 018/024/030 GLEH | AUXK 018/024/030/034/ 036/045/054 GLEH | ARXK 004/007/009/012/ 014/018/024 GLGH | ARXD04GALH | ARXD 007/009/012/ 014/018/024 GLEH | | ARXP018/030GLFH | ARXA 024/030/036/045 GLEH | ARXC 036/045/060/ 072/090/096 GTEH | |
| Controllers | Wired remote controller |  | ● UTY-RVRY | | | | | | | | | | | | |
| | |  | ● UTY-RNRYZ5 | | | | | | | | | | | | |
| | |  | ● UTY-RLRY | | | | | | | | | | | | |
| | |  | ● UTY-RCRYZ1 | | | | | | | | | | | | |
| | Simple remote controller |  Nonpolar 2-core type | ● UTY-RSRY UTY-RHRY | | | | | | | | | | | | |
| | Wireless remote controller |  UTY-LNVY UTY-LNHY | ● UTY-LNVY UTY-LNHY | | | | | | | | | | | | |
| | IR receiver unit |  | ● UTY-TRHX | | | ● UTY-LBHxD | | ● UTY-TRHX | ● UTB-YWC | ● UTY-TRHX | | | | | |
| | Central remote controller |  | ● UTY-DCGYZ3 | | | | | | | | | | | | |
| | Touch panel controller |  | ● UTY-DTGYZ1 | | | | | | | | | | | | |
| System controller, System controller Lite |  | ● UTY-APGXZ1, UTY-ALGXZ1 | | | | | | | | | | | | | |

Controller System List (available) for VRF

Controller Options:



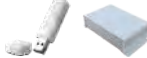



















| Type | Refrigerant | Indoor unit | | | | Indoor unit | | | | | |
|-------------|---|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|---|---|-----------------|-----------------|---------------|-----------------|
| | | Floor | | Ceiling/ Floor | Ceiling | Wall-mounted | | | | | |
| | | EEV Internal | EEV External | | | EEV Internal | EEV External | EEV Internal | EEV External | EEV Internal | EEV Internal |
| | | | | | | ASYA 004/005/007/009/012/014 HCAH | ASYE 004/005/007/009/012/014 HCAH | | | | |
| | | AGYA 004/007/009/012/014 GCGH | AGYE 004/007/009/012/014 GCEH | ABYA 012/014/018/024 GTEH | ABYA 030/036/045/054 GTEH | ASYA 004/007/009 GCGH | ASYE 004/007/009 GCEH | ASYA012/014GCGH | ASYE012/014GCEH | ASYA18/24GBCH | ASYA030/034GTEH |
| Controllers | Wired remote controller | | ● UTY-RVRY | | | | ● UTY-RVRY | | | | |
| | | | ● UTY-RNRYZ5 | | | | ● UTY-RNRYZ5 | | | | |
| | | | ● UTY-RLRY | | | | ● UTY-RLRY | | | | |
| | | | ● UTY-RCRYZ1 | | | | ● UTY-RCRYZ1 | | | | |
| | Simple remote controller | Nonpolar 2-core type | ● UTY-RSRY UTY-RHRY | | | | ● UTY-RSRY UTY-RHRY | | | | |
| | Wireless remote controller | UTY-LNVY UTY-LNHY | ● UTY-LNVY UTY-LNHY | | | | ● UTY-LNVY UTY-LNHY | | | | |
| | IR receiver unit | | | | | | | | | | |
| | Central remote controller | | ● UTY-DCGYZ3 | | | | ● UTY-DCGYZ3 | | | | |
| | Touch panel controller | | ● UTY-DTGYZ1 | | | | ● UTY-DTGYZ1 | | | | |
| | System controller, System controller Lite | | ● UTY-APGXZ1, UTY-ALGXZ1 | | | | ● UTY-APGXZ1, UTY-ALGXZ1 | | | | |

Controller System List (available) for VRF

Controller Options:



| Type |  R32 | Indoor unit | | | | | | Indoor unit | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|--|---|--------------------------------|---|-----------------|-----------------------------|--|---|-----------------------------|---|-----------------------------|-----------------|---------------------------------|---|---------------------------|--|--------------------------------|--|-------------------|-------------------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | 1-way Flow | 3D flow | Cassette | | Duct | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Compact 4-way Flow Grid type | | Slim type | Large type | | Low static pressure | | | | Low static pressure | Medium static pressure | High static pressure | | | | | | | | | | | | | | | | | | | |
| | | | | | High Efficiency | Circular flow | | | Mini | Slim | | High Efficiency | | | | | | | | | | | | | | | | | | | | | | |
| | | AUXB 004/005/007/009/ 012/014/018 HLAH | AUXN 009/012/014 HLAH | | | | | | | ARXD 004/005/007/009/ 012/014/018/024 HLAH | ARXP 009/012/014 HLAH | | | | | | | | | | | | | | | | | | | | | | | |
| |  R410A | AUXV 004/007/009/012/ 014/018/024 GLEH | AUXS018/024GLEH | AUXB 004/007/009/012/ 014/018/024 GLEH | | AUXM 018/024/030 GLEH | AUXK 018/024/030/034/ 36/045/054 GLEH | ARXK 004/007/009/012/ 014/018/024 GLGH | ARXD04GALH | ARXD 007/009/012/ 014/018/024 GLEH | | ARXP018/030GLFH | ARXA 024/030/036/045 GLEH | ARXC 036/045/060/ 072/090/096 GTEH | | | | | | | | | | | | | | | | | | | | |
| Interfaces | BACnet® gateway |  | ● UTY-ABGXZ1, UTY-VBGX | | | | | | | | | | | | | | ● UTY-ABGXZ1, UTY-VBGX | | | | | | | | | | | | | | | | | |
| | |  | ● FG-AC-BAC1Z1 | | | | | | | | | | | | | | ● FG-AC-BAC1Z1 | | | ● FG-AC-BAC1Z1 | | | | | | | | | | | | | | |
| | |  | ● FG-IR-BMG1Z1+UTY-TRHX | | | ● FG-IR-BMG1Z1 | | | ● FG-IR-BMG1Z1+UTY-LBHXD | | | | ● FG-IR-BMG1Z1+UTY-TRHX | | ● FG-IR-BMG1Z1+UTB-YWC | | ● FG-IR-BMG1Z1+UTY-TRHX | | | | | | | | | | | | | | | | | |
| | Network converter for LonWorks™ |  | ● UTY-VLGX | | | | | | | | | | | | | | ● UTY-VLGX | | | | | | | | | | | | | | | | | |
| | MODBUS® Converter |  | ● UTY-VMSX | | | | | | | | | | | | | | ● UTY-VMSX | | | ● UTY-VMSX | | | | | | | | | | | | | | |
| | |  | ● UTY-VMGX FG-TL-MBS16Z1 | | | | | | | | | | | | | | ● UTY-VMGX FG-TL-MBS16Z1 | | | | | | | | | | | | | | | | | |
| | MODBUS® interface | 3-wire RC-line type  | ● FG-AC-MBS1Z1 | | | | | | | | | | | | | | ● FG-AC-MBS1Z1 | | ● FG-RC-MBS1Z1 | | ● FG-AC-MBS1Z1 | | | | | | | | | | | | | |
| | |  | ● FG-IR-BMG1Z1+UTY-TRHX | | | ● FG-IR-BMG1Z1 | | | ● FG-IR-BMG1Z1+UTY-LBHXD | | | | ● FG-IR-BMG1Z1+UTY-TRHX | | ● FG-IR-BMG1Z1+UTB-YWC | | ● FG-IR-BMG1Z1+UTY-TRHX | | | | | | | | | | | | | | | | | |
| | KNX® converter |  | ● UTY-VKSX | | | | | | | | | | | | | | ● UTY-VKSX | | | ● UTY-VKSX | | | | | | | | | | | | | | |
| | |  | ● UTY-VKGX FG-TL-KNX16Z1 | | | | | | | | | | | | | | ● UTY-VKGX FG-TL-KNX16Z1 | | | | | | | | | | | | | | | | | |
| | KNX® interface | 3-wire RC-line type  | ● FG-AC-KNX1Z1 | | | | | | | | | | | | | | ● FG-AC-KNX1Z1 | | ● FG-RC-KNX1Z1 | | ● FG-AC-KNX1Z1 | | | | | | | | | | | | | |
| | |  | ● FG-IR-KNX1Z1+UTY-TRHX | | | ● FG-IR-KNX1Z1 | | | ● FG-IR-KNX1Z1+UTY-LBHXD | | | | ● FG-IR-KNX1Z1+UTY-TRHX | | ● FG-IR-KNX1Z1+UTB-YWC | | ● FG-IR-KNX1Z1+UTY-TRHX | | | | | | | | | | | | | | | | | |
| | WLAN adapter |  | ● UTY-TFSXJ3 | | | | | | | | | | | | | | ● UTY-TFSXJ3 (007-024) | | | ● UTY-TFSXJ3 | | | | | | | | | | | | | | |
| | | 3-wire RC-line type  | ● FG-AC-WIF1Z1 | | | | | | | | | | | | | | ● FG-AC-WIF1Z1 | | ● FG-RC-WIF1Z2 | | ● FG-AC-WIF1Z1 | | | | | | | | | | | | | |
| | |  | ● FG-IR-WIF1Z1+UTY-TRHX | | | ● FG-IR-WIF1Z1 | | | ● FG-IR-WIF1Z1+UTY-LBHXD | | | | ● FG-IR-WIF1Z1+UTY-TRHX | | ● FG-IR-WIF1Z1+UTB-YWC | | ● FG-IR-WIF1Z1+UTY-TRHX | | | | | | | | | | | | | | | | | |
| | | 3-wire RC-line type  | ● FG-AC-WMP1Z1 | | | | | | | | | | | | | | ● FG-AC-WMP1Z1 | | ● FG-RC-WMP1Z1 | | ● FG-AC-WMP1Z1 | | | | | | | | | | | | | |
| | |  | ● FG-IR-WMP1Z1+UTY-TRHX | | | ● FG-IR-WMP1Z1 | | | ● FG-IR-WMP1Z1+UTY-LBHXD | | | | ● FG-IR-WMP1Z1+UTY-TRHX | | ● FG-IR-WMP1Z1+UTB-YWC | | ● FG-IR-WMP1Z1+UTY-TRHX | | | | | | | | | | | | | | | | | |
| | External switch controller |  | ● UTY-TERX | | | | | | | | | | | | | | ● UTY-TERX | | | | | | | | | | | | | | | | | |

Controller System List (available) for VRF

Controller Options:



| Type | Refrigerant | Indoor unit | | | | Indoor unit | | | | | |
|------------|---------------------------------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|---|---|-----------------|-----------------|-------------------|-------------------|
| | | Floor | | Ceiling/ Floor | Ceiling | Wall-mounted | | | | | |
| | | EEV Internal | EEV External | | | EEV Internal | EEV External | EEV Internal | EEV External | EEV Internal | EEV Internal |
| | | | | | | ASYA 004/005/007/009/012/014 HCAH | ASYE 004/005/007/009/012/014 HCAH | | | | |
| | | AGYA 004/007/009/012/014 GCGH | AGYE 004/007/009/012/014 GCEH | ABYA 012/014/018/024 GTEH | ABYA 030/036/045/054 GTEH | ASYA 004/007/009 GCGH | ASYE 004/007/009 GCEH | ASYA012/014GCGH | ASYE012/014GCEH | ASYA18/24GBCH | ASYA030/034GTEH |
| Interfaces | BACnet® gateway | | ● UTY-ABGXZ1, UTY-VBGX | | | | ● UTY-ABGXZ1, UTY-VBGX | | | | |
| | | | ● FG-AC-BAC1Z1 | | | | ● FG-AC-BAC1Z1 | | | | ● FG-AC-BAC1Z1 |
| | | | ● FG-IR-BMG1Z1 | | | | ● FG-IR-BMG1Z1 | | | | |
| | Network converter for LonWorks™ | | ● UTY-VLGX | | | | ● UTY-VLGX | | | | |
| | | | ● UTY-VMSX | | | | ● UTY-VMSX | | | | ● UTY-VMSX |
| | MODBUS® Converter | | ● UTY-VMGX FG-TL-MBS16Z1 | | | | ● UTY-VMGX FG-TL-MBS16Z1 | | | | |
| | | | ● FG-AC-MBS1Z1 | | | | ● FG-AC-MBS1Z1 | | | ● FG-RC-MBS1Z1 | ● FG-AC-MBS1Z1 |
| | | | ● FG-IR-BMG1Z1 | | | | ● FG-IR-BMG1Z1 | | | | |
| | KNX® converter | | ● UTY-VKSX | | | | ● UTY-VKSX | | | | ● UTY-VKSX |
| | | | ● UTY-VKGX FG-TL-KNX16Z1 | | | | ● UTY-VKGX FG-TL-KNX16Z1 | | | | |
| | KNX® interface | | ● FG-AC-KNX1Z1 | | | | ● FG-AC-KNX1Z1 | | | ● FG-RC-KNX1Z1 | ● FG-AC-KNX1Z1 |
| | | | ● FG-IR-KNX1Z1 | | | | ● FG-IR-KNX1Z1 | | | | |
| | WLAN adapter | | ● UTY-TFSXJ3 | | | | ● UTY-TFSXJ3 | | | | ● UTY-TFSXJ3 |
| | | | ● FG-AC-WIF1Z1 | | | | ● FG-AC-WIF1Z1 | | | ● FG-RC-WIF1Z2 | ● FG-AC-WIF1Z1 |
| | | | ● FG-IR-WIF1Z1 | | | | ● FG-IR-WIF1Z1 | | | | |
| | | | ● FG-AC-WMP1Z1 | | | | ● FG-AC-WMP1Z1 | | | ● FG-AC-WMP1Z1 | ● FG-AC-WMP1Z1 |
| | | | ● FG-IR-WMP1Z1 | | | | ● FG-IR-WMP1Z1 | | | | |
| | External switch controller | | ● UTY-TERX | | | | ● UTY-TERX | | | | |

Optional Parts Overview

For Split & Multi-split, VRF

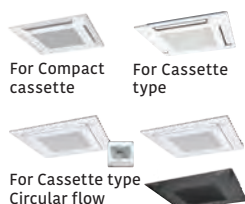
A variety of optional parts are available to enable installation of the selected indoor unit properly according to the environment.

Optional Parts For Cassette



Occupancy sensor kit

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



Cassette grille

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



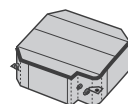
Silver ion filter

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



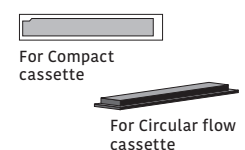
Fresh air intake kit

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



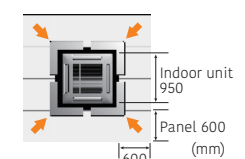
Insulation kit for high humidity

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



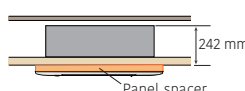
Air outlet shutter plate

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



Wide Panel

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



Panel spacer

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

Optional Parts For V-IV



Pressure sensor kit

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

Optional Parts For R32 VRF products



Gas Sensor kit

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



Expansion kit

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

Optional Parts For Floor



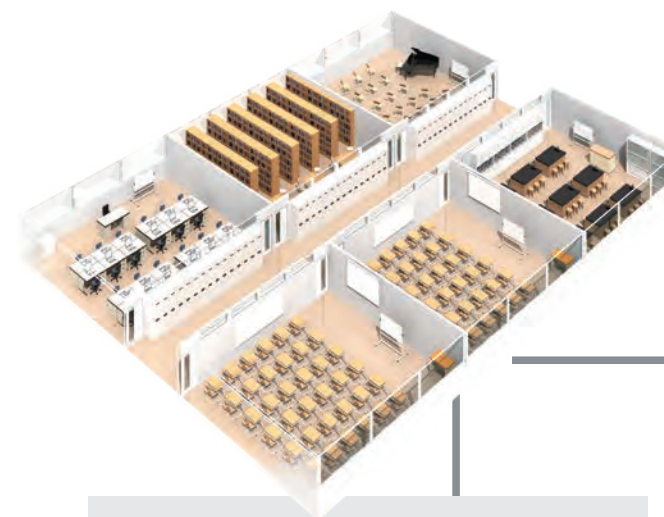
Half concealed kit

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



Silver ion filter

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



Optional Parts For Common



Remote sensor unit

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

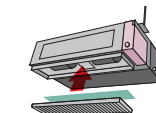


Optional Parts For Duct & Ceiling



Auto louver grille kit

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



Silver ion filter

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



Long-life filter

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



Flange

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



Drain pump unit

Drains water that has accumulated during operation.

Connection Parts



Communication kit

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



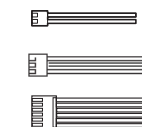
External input and output PCB

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



External input and output PCB box & bracket

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



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.

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



OPTIONAL PARTS

Silver Ion Filter

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



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

For Cassette
UTD-HFAA / UTD-HFRA

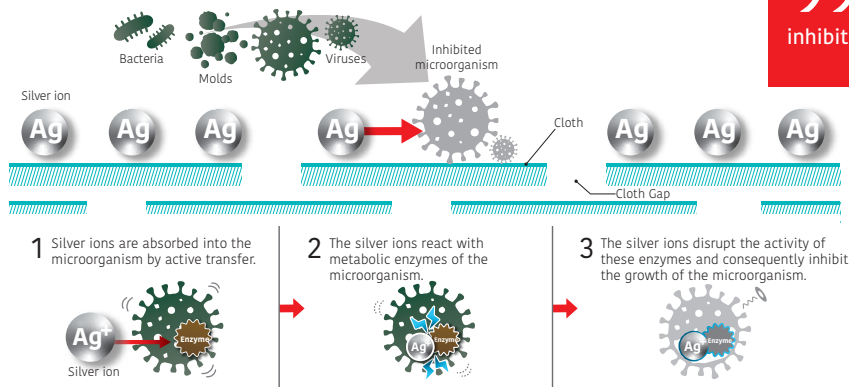
For Duct
UTD-HFTA / UTD-HFTB
UTD-HFTC / UTD-HFNC
UTD-HFNB / UTD-HFNA
UTD-HFND / UTD-HFKB
UTD-HFKA

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

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

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

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



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

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

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

The Filter is Easily Removable* and Hand-Washable.

(*Wall-mounted and floor models only)



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

Specifications

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

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

Auto Louver Grille Kit

UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W



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



Closed louver



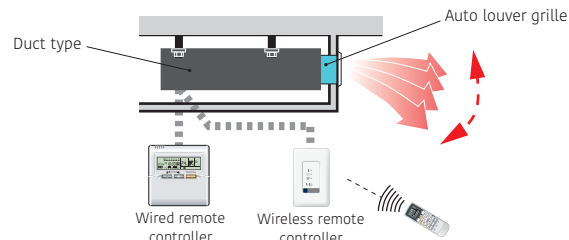
Open louver

Flexible Control

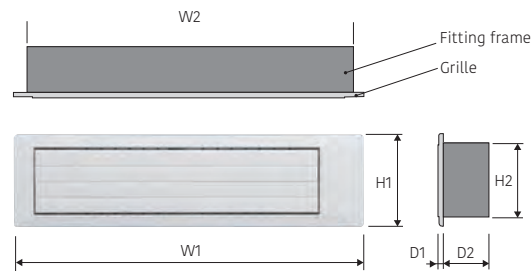
- The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.

- Vertical auto swing
- Auto airflow direction and auto swing
- 4 steps selectable

- Auto-closing louver**
The louvers will automatically close when the indoor unit stops operating.



Dimensions



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

Specifications

| Model name | | | UTD-GXTA-W | UTD-GXTB-W | UTD-GXTC-W |
|-----------------------------|---------------------|----------|--|---|---|
| Applicable indoor unit | Split & Multi-split | | ARYG07/09LLTA ARXG07/09/12/14KSLAP ARXG07/09/12/14KLLAP ARYG07/09LSLAP | ARXG18KSLAP ARXG18KLLAP | |
| | VRF | | ARXD007/009/012/014GLEH ARXK004/007/009/012/014GLGH ARXD04GALH ARXD004/005/007/009/012/014HLAH ARXP009/012/014HLAH | ARXD018GLEH ARXD018HLAH ARXK018GLGH | ARXD024GLEH ARXD024HLAH ARXK024GLGH |
| Power supply | | | Connecting with Control box of indoor unit | | |
| Fixing Auto louver grille | | | Screwed to Flange or Square duct | | |
| Extension Square duct limit | | | 1.0 m (Max. duct length between indoor unit and Auto louver grille) | | |
| Net Dimensions (H × W × D) | | mm | 180 × 683 × (84 + 9) | 180 × 883 × (84 + 9) | 180 × 1,083 × (84 + 9) |
| Weight | Net | kg (lbs) | 2.0 (4.4) | 2.5 (5.6) | 3.0 (6.7) |
| Accessories | | | Fitting Flame, etc. | | |
| Operating range | Cooling | °C | 18 to 32 | | |
| | | % RH | 80 % or less | | |
| | Heating | °C | 16 to 30 | | |

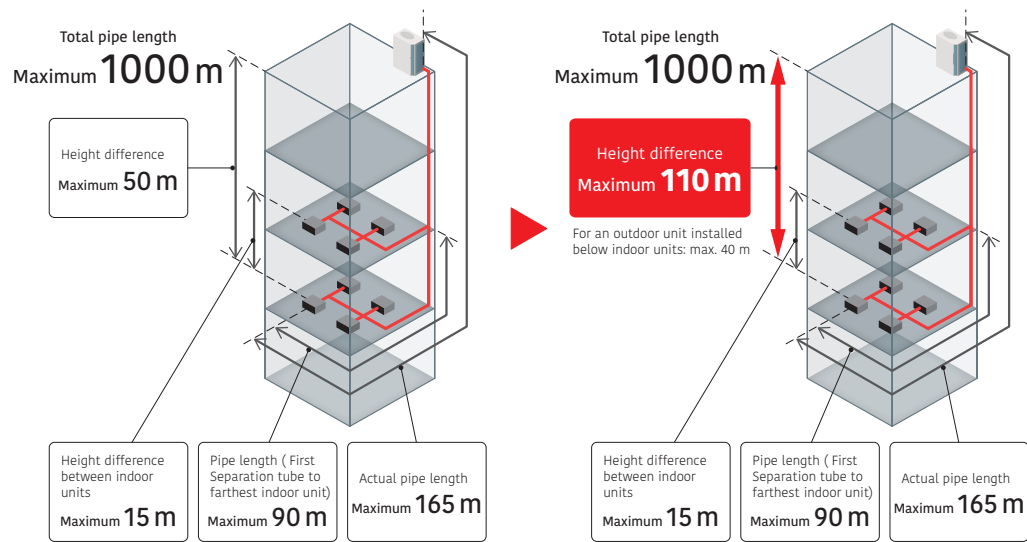
Pressure Sensor Kit

UTY-SPWX

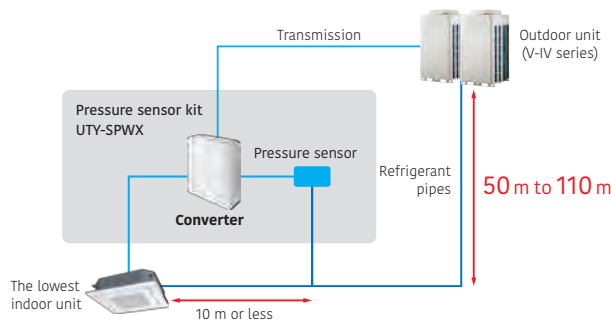


Design Flexibility

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



System Overview



Pressure Sensor Kit

| Pressure sensor kit (Converter) | Refrigerant pressure sensor | Joint pipe |
|---------------------------------|-----------------------------|------------|
| | | |

Specifications

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

External Power Supply Unit

UTZ-GXXA / UTZ-GXXC

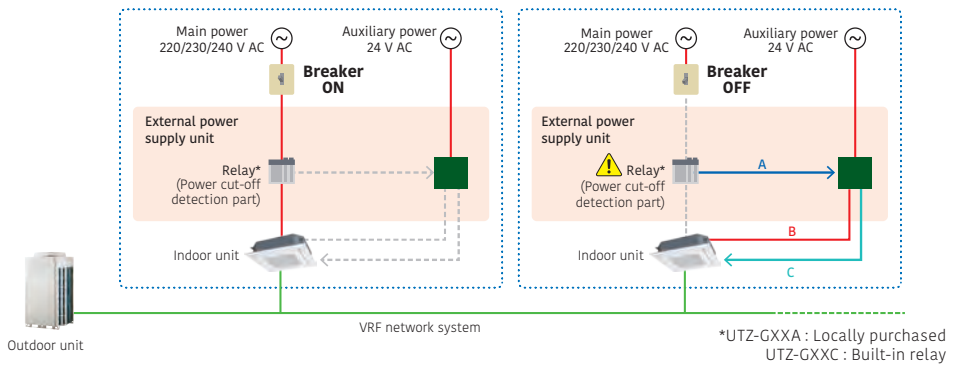


The External Power Supply Unit Protects The Increment in The System Even If The Power Supply for Some of The Indoor Units is Shut Down.

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

High Reliability

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



Note

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

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

Specifications

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

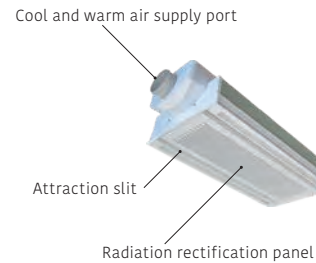
AIR BEAM

Radiation Air Outlet Unit

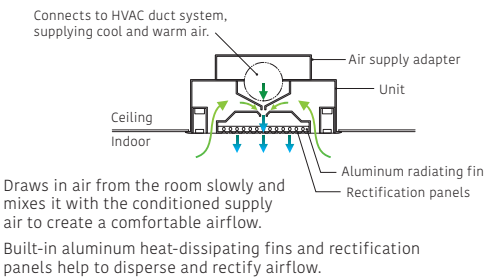
*Production by order
Contact us for more details.



Key component



Cross-section view



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

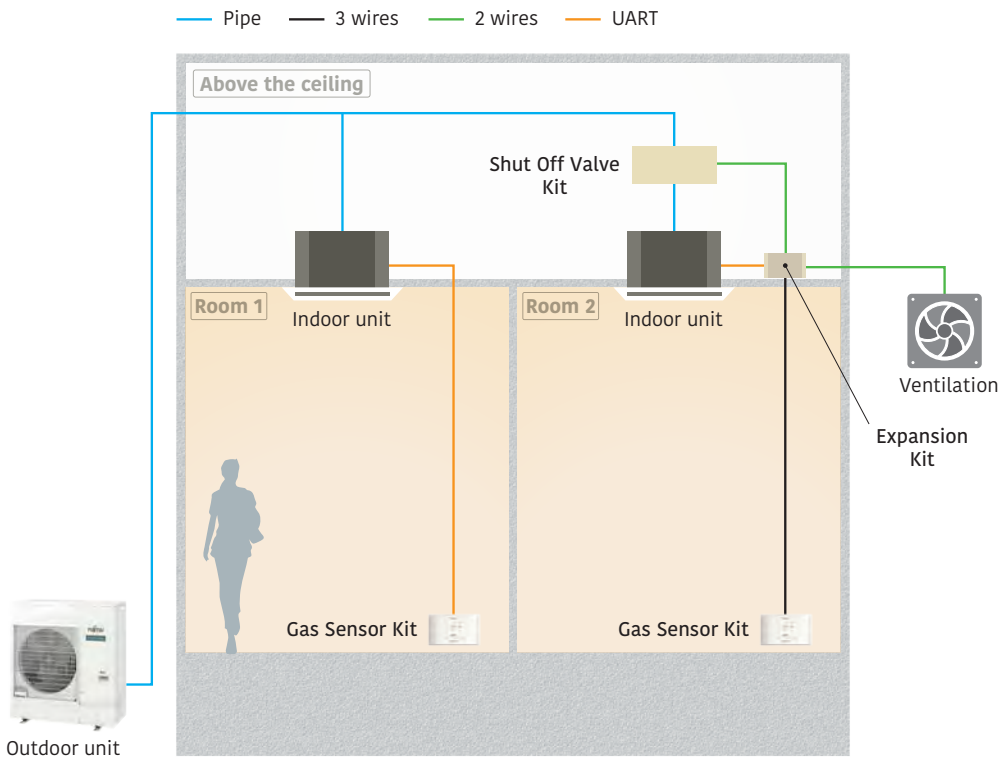
Gas Sensor kit

UTY-SGZY



Enhanced Safety measures for R32

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



Shut off valve kit
UTP-GX027A, UTP-GX060A

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



Expansion kit
UTZ-JXXA

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



Gas sensor kit
UTY-SGZY*

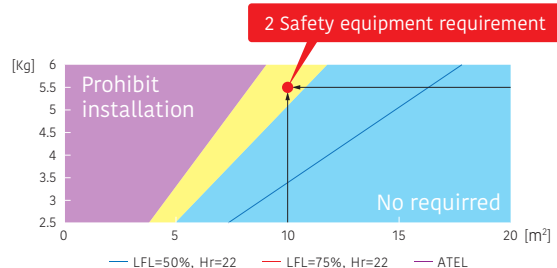
Used to ensure standards compliance and safety when R32 VRF products are installed.
*Direct connection of the gas sensor kit to the indoor unit requires the UTY-XWZXZL connection cable.

Conditions Requiring Safety Measures

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

Except lowest underground floor

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



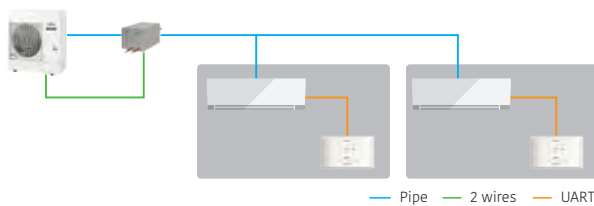
Features: Gas sensor kit

Connection pattern

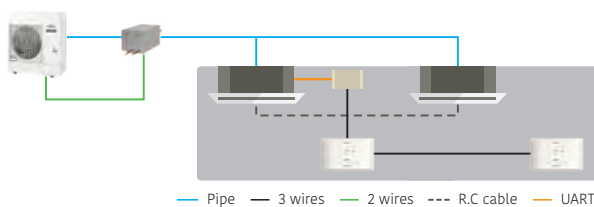
1) Corresponds to the case where the classification of air conditioner installation differs from property to property.

Installation position of “Shut off valve kit”

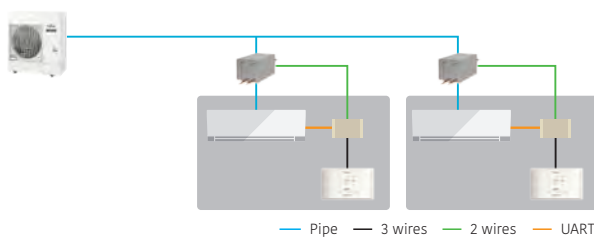
For all system shut-off



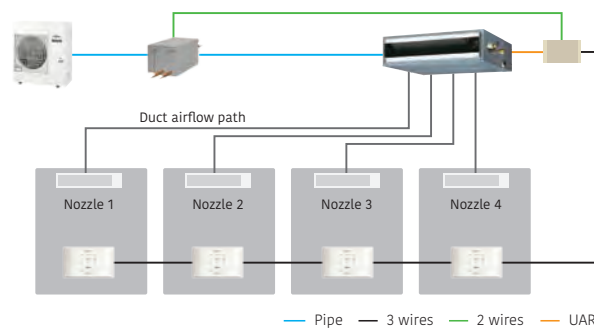
For R.C group shut-off



For several room shut-off



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











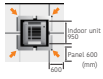
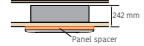

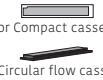





Specifications

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

Optional Parts List for Split/Multi-split



| Type | Refrigerant | Indoor unit | | | | | | | | | |
|----------------------------------|---|---|--|---|-----------------|---------------|---------------------|------------------|------------------|---------------|--|
| | | Wall-mounted | | | | | | | | | |
| | | Designer Range | | Standard Range | | | ECO Range | | | | Cassette |
| | | | | | | | | | | | |
| |  | ASEH07/09/12/14KGTG, ASYG07/09/12/14KGTG, ASYG07/09/12/14KGTE | ASEG07/09/12/14 KETF, KETF-B, ASYG07/09/12/14 KETE, KETE-B | ASEH07/09/12/14KMCG, KMCG-B, ASYG07/09/12/14KMCF, ASYG07/09/12/14KMCE | ASEG18/24KMTE | ASEH30/36KMTB | ASEH05/07/09/12KNCA | ASEG07/09/12KPCE | ASEH07/09/12KLTA | ASEG18/24KLCA | AUXG 09/12/14/18/22/24 KVL A AUXG 18/22/24/30/36/45/54 KRLB |
| |  | | | | | | | | | | |
| Occupancy sensor kit |  | | | | | | | | | | ● UTY-SHZXC |
| Remote sensor unit |  The remote sensor provides additional convenience. | | | | | | | | | | |
| Cassette grille |  UTG-UFYF-W UTG-UKYA-W UTG-UFYD-W UTG-UKYC-W UTG-UKYA-B | | | | | | | | | | ● UTG-UFYF-W ● UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B |
| Auto louver grille kit |  | | | | | | | | | | |
| Silver ion filter |  | ● UTR-FA16-5 | | | ● UTR-FA13-3 | | ● UTR-FA16-5 | | | | ● UTD-HFAA ● UTD-HFRA |
| Long-life filter |  | | | | | | | | | | |
| Flange |  | | | | | | | | | | |
| Drain pump unit |  | | | | | | | | | | |
| Wide Panel |  Indoor unit Panel 600 (mm) 600 | | | | | | | | | | ● UTG-AKXA-W |
| Panel spacer |  F42 mm Panel spacer | | | | | | | | | | ● UTG-BKXA-W |
| Fresh air intake kit |  For Compact cassette For Circular flow cassette | | | | | | | | | | ● UTZ-VXAA ● UTZ-VXRA |
| Air outlet shutter plate |  For Compact cassette For Circular flow cassette | | | | | | | | | | ● UTR-YDZB ● UTR-YDZK |
| Insulation kit for high humidity |  | | | | | | | | | | ● UTZ-KXGC ● UTZ-KXRA |
| Half concealed kit |  Used to half conceal a floor type indoor unit in the wall. | | | | | | | | | | |
| L-type piping kit |  | | | | | | | | | | |












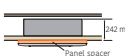









Optional Parts List for Split/Multi-split



| Type | Refrigerant | Indoor unit | | | | | | Indoor unit | | | | |
|----------------------------------|--|---|---|--|--|-------------------------|-----------------|------------------|--|--|---|---------------|
| | | Duct | | | | | Duct | Floor | Ceiling | Multi-split | | |
| | | Slim | Medium static pressure (High-Efficiency & Comfort) | Medium static pressure (Compact) | Medium static pressure (Standard) | High static pressure | Big | | | 4-way flow Compact cassette | Mini duct | Slim duct |
| | | ARXG 09/12/14/18 KLLAP | ARXH 12/14/18/22/24/ 30/36/45/54 KMTAP | ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP | ARXG22KMLB, ARXG 24/30/36/45 KMLA | ARXG45/54KHTB | | AGEG09/12/14KVCA | ABEG 18/22/24/30/36/45/54 KRTA | AUXG07KVLA | ARXG 07/09/12/14/18 KSLAP | ARXG07KLLAP |
| | | | | | | ARYG60LHTA | ARYG72/90LHTA | | | AUYG07/09LVLA | ARYG07/09LSLAP | ARYG07/09LLTA |
| Occupancy sensor kit | | | | | | | | | | | | |
| Remote sensor unit | The remote sensor provides additional convenience. | ● UTY-XSZXZ1 | | | | | | | | | ● UTY-XSZXZ1 | |
| Cassette grille | | | | | | | | | | ● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA) | | |
| Auto louver grille kit | | ● UTD-GXTA-W (09/12/14) UTD-GXTB-W (18) | | | | | | | | | ● UTD-GXTA-W (07/09/12/14), UTD-GXTB-W (18) | |
| Silver ion filter | | ● UTD-HFTA (09/12/14) UTD-HFTB (18) | ● UTD-HFNC (12/14/18) UTD-HFNB (22/24), UTD-HFNA (30/36/45/54) | ● UTD-HFNC (12/14) UTD-HFNB (18/22/24/30) UTD-HFNA (36/45/54) | ● UTD-HFND | ● UTD-HFKB (45/54) | ● UTD-HFKA | ● UTR-FA03-5 | | ● UTD-HFAA | ● UTD-HFTA (07/09/12/14) UTD-HFTB (18) | ● UTD-HFTA |
| Long-life filter | | | ● UTD-LFDC (12/14/18) UTD-LFDB (22/24), UTD-LFDA (30/36/45/54) | ● UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14) | ● UTD-LF25NA | ● UTD-LF60KA (45/54) | ● UTD-LFKA | | | | | |
| Flange | | | | | ● UTD-SF045T UTD-RF204 | | | | | | | |
| Drain pump unit | | | | | ● UTZ-PX1NBA | | ● UTZ-PX1NAB | | ● UTR-DPB24T | | | |
| Wide Panel | | | | | | | | | | | | |
| Panel spacer | | | | | | | | | | | | |
| Fresh air intake kit | | | | | | | | | | ● UTZ-VXAA | | |
| Air outlet shutter plate | | | | | | | | | | ● UTR-YDZB | | |
| Insulation kit for high humidity | | | | | | | | | | ● UTZ-KXGC | | |
| Half concealed kit | | | | | | | | ● UTR-STA | | | | |
| L-type piping kit | | | | | | | | | ● UTP-FX24A (18/22/24) UTP-FX35A (30/36/45/54) | | | |

Optional Parts List for VRF



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

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

Optional Parts List for VRF






| Type | Refrigerant | Indoor unit | | | | Indoor unit | | | | Outdoor unit |
|----------------------------------|-------------|-------------------------------------|-------------------------------------|---------------------------------|---------------------------------|---|---|---------------------------|-----------------|---|
| | | Floor | | Floor/Ceiling | Ceiling | Wall-mounted | | EEV Internal | EEV Internal | V-IV series |
| | | EEV Internal | EEV External | | | EEV Internal | EEV External | | | |
| | | | | | | | | | | |
| | | | | | | ASYA 004/005/007/009/012/014 HCAH | ASYE 004/005/007/009/012/014 HCAH | | | |
| | | AGYA 004/007/009/012/014 GCGH | AGYE 004/007/009/012/014 GCEH | ABYA 012/014/018/024 GTEH | ABYA 030/036/045/054 GTEH | ASYA 004/007/009012/014 GCGH | ASYE 004/007/009012/014 GCEH | ASYA18/24GBCH | ASYA030/034GTEH | AJY 072/090/108/126/144/162 LALDH |
| Occupancy sensor kit | | | | | | | | | | |
| Remote sensor unit | | | | ● UTY-XSZXZ1 | | ● UTY-XSZXZ1 | | | | |
| Cassette grille | | | | | | | | | | |
| Auto louver grille kit | | | | | | | | | | |
| Silver ion filter | | ● UTR-FA03-5 | | | | ● UTR-FA16-5 | | ● UTR-FA13-3 | | |
| Long-life filter | | | | | | | | | | |
| Flange | | | | | ● UTD-RF204 | | | | | |
| Drain Pump Unit | | | | | ● UTR-DPB24T | | | | | |
| Wide Panel | | | | | | | | | | |
| Panel spacer | | | | | | | | | | |
| Fresh air intake kit*1 | | | | | | | | | | |
| Air outlet shutter plate: | | | | | | | | | | |
| Insulation kit for high humidity | | | | | | | | | | |
| Half concealed kit | | ● UTR-STA | | | | | | | | |
| External power supply unit | | ● UTZ-GXXA UTZ-GXXC | | | | ● UTZ-GXXA UTZ-GXXC (for R410A models) | | ● UTZ-GXXA UTZ-GXXC | | |
| Pressure sensor kit | | | | | | | | | | ● UTY-SPWX |
| Gas sensor kit | | | | | | ● UTY-SGZY+ UTY-XWZXZL* (for R32 models) | | | | |
| Shut off valve kit | | | | | | ● UTP-GX027A UTP-GX060A (for R32 models) | | | | |
| Expansion kit | | | | | | ● UTZ-JXXA (for R32 models) | | | | |

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

Function List for Split/Multi-Split












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

| Type | |  | Indoor unit | | | | | | | | Indoor unit | | | | | | | | | | |
|--------|-------------------------------------|---|---|---|---|----------------|----------------|--------------------|--------------------|--------------------|--------------------------|---------------------|-----------------------------|--|----------------------------------|--|--|-----------------------------------|--|-------------------|---------------------------------------|
| | | | Wall-mounted | | | | | | | | Cassette | | Duct | | | Duct | | | | | |
| | | | Designer Range | | Standard Range | | ECO Range | | | | Compact 4-way flow Range | Circular flow Range | Slim | Medium static pressure (High-Efficiency & Comfort) | Medium static pressure (Compact) | Medium static pressure (Standard) | High static pressure | | Big | | |
| | |  | 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, KMCG-B, ASYG07/09/12/14KMCF, ASYG07/09/12/14KMCE | ASEG 18/24KMTE | ASEH 30/36KMTB | ASEH 07/09/12 KNCA | ASEG 07/09/12 KPCE | ASEH 07/09/12 KLTA | ASEG 18/24KLCA | | AUXG 09/12/14/18/22/24 KVLG | AUXG 18/22/24/30/36/45/54 KRLB | ARXG 09/12/14/18 KLLAP | ARXH 12/14/18/22/24/30/36/45/54 KMTAP | ARXG 12/14/18/22/24/30/36/45/54 KHTAP | ARXG22KMLB, ARXG 24/30/36/45 KMLA | ARXG45/54KHTB | | |
| | |  | | | | | | | | | | | | | | | | | | ARYG60LHTA | ARYG72/90LHTA |
| Input | Operation/Stop | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | | | ● PCB Terminal or ○ UTY-XCSX+UTZ-GXRA | ● PCB Terminal | ● PCB Terminal or ○ UTY-XCSX+UTZ-GXDA | ● PCB Terminal or ○ UTY-XCSX+UTZ-GXNA | ● PCB Terminal | ● PCB Terminal or ○ UTY-XCSX+UTZ-GXEA | ● UTD-ECS5A | ● PCB Terminal or ○ UTY-XCSX |
| | Forced stop | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | | ● PCB Terminal | | | | ● PCB Terminal | | ● UTD-ECS5A | ● PCB Terminal | |
| | Forced Thermostat off | ●○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | | | ●○ UTY-XCSX+UTZ-GXRA | | ●○ UTY-XCSX+UTZ-GXDA | ●○ UTY-XCSX+UTZ-GXNA | ●○ UTY-XCSX+UTZ-GXNA | ● UTY-XCSX+UTZ-GXEA | ● UTD-ECS5A | ● UTY-XCSX |
| | Low noise mode operation | | | | | | | | | | | | | | | | | | | | |
| | Outdoor unit operation peak control | | | | | | | | | | | | | | | | | | | | |
| Output | Operation status | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA | ● UTY-XWZXZG | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | ● UTY-XWZXZG | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA | ○ UTD-ECS5A | ● UTY-XWZXZG or ○ UTY-XCSX |
| | Error status | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA | | |
| | Compressor status | | | | | | | | | | | | | | | | | | | | |
| | Indoor unit fan operation status | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA | ● UTY-XWZXZG | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | ● UTY-XWZXZG | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA | ● UTD-ECS5A | ● UTY-XWZXZG or ○ UTY-XCSX |
| | Setpoint attainment status | | | | | | | | | | | | | | | | | | | | |
| | Auxiliary heater output | | | | | | | | | | | | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXRA | ● UTY-XWZXZG | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXDA | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | ● UTY-XWZXZG | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA | ● UTD-ECS5A | ● UTY-XWZXZG or ○ UTY-XCSX |

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

●: Dry Contact ○: Apply Voltage



For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

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

Function List for Split/Multi-Split



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

| Type | Refrigerant | Indoor unit | | Multi-split | | | | Outdoor unit | | | | | | |
|--------|---|------------------|--|--|---------------------------------|----------------|---------------|-------------------|--|---------------------|---------------------------------|---------------------------------------|-----------------|------------------|
| | | Floor | Ceiling | Wall-mounted | Mini duct | Slim duct | | Compact cassette | Single Split | | | Simultaneous multi-split | | |
| |  | AGEG09/12/14KVCA | ABEG 18/22/24/30/ 36/45/54 KRTA | ASEG22KMTE | ARXG 07/09/12/14/18 KSLAP | ARXG07KLLAP | | AUXG07KVLA | AOEG30/36/45/54KBTB, AOEG36/45/54KRTA | | | AOEG36/45/54KBTB, AOEG36/45/54KRTA | | |
| |  | | | | ARYG07/09LSLAP | | ARYG07/09LLTA | AUYG07/09LVLA | | AOYG36/45/54/60LATT | AOYG45/54LBTA, AOYG72/90LRLA | | AOYG36/45LBTB | AOYG36/45/54LATT |
| Input | Operation/Stop | ● UTY-XWZXZ5 | ● PCB Terminal or ○ UTY-XCSX+ UTZ-GXEA | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | ● PCB Terminal | ● UTD-ECS5A | | ● PCB Terminal | | | | | | |
| | Forced stop | ● UTY-XWZXZ5 | ● PCB Terminal | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | ● PCB Terminal | ● UTD-ECS5A | | ● PCB Terminal | | | | | | |
| | Forced Thermostat off | ● UTY-XWZXZ5 | ● UTY-XCSX+ UTZ-GXEA | ●○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | | | | | | |
| | Low noise mode operation | | | | | | | | ● UTY-XWZXZ3 | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | | ○ UTY-XWZXZ2 | |
| | Outdoor unit operation peak control | | | | | | | | ● UTY-XWZXZ3 | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | | ○ UTY-XWZXZ2 | |
| Output | Operation status | ● UTY-XWZXZ5 | ● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | ● UTY-XWZXZG | ● UTD-ECS5A | | ● UTY-XWZXZG | | | | | | |
| | Error status | ● UTY-XWZXZ5 | ● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | | | | | ● UTY-XWZXZ3 | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | | | ○ UTY-XWZXZ2 |
| | Compressor status | | | | | | | | ● UTY-XWZXZ3 | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | | | ○ UTY-XWZXZ2 |
| | Indoor unit fan operation status | ● UTY-XWZXZ5 | ● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA | ● UTY-XWZX or ○ UTY-XCSXZ2+ UTY-XWZXZ5 | ● UTY-XWZXZG | ● UTD-ECS5A | | ● UTY-XWZXZG | | | | | | |
| | Setpoint attainment status | | | | | | | | | | | | | |
| | Auxiliary heater output | | ● UTY-XWZXZG or ○ UTY-XCSX+ UTZ-GXEA | | ● UTY-XWZXZG | | | | | | | | | |

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



Communication system

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

Function List for VRF





External input and output function/External connect kit

| Type |  |  | Refrigerant | Indoor unit | | | | Indoor unit | | | | | | | | Floor/Ceiling | | |
|--|---|---|--|---|-----------------------------|------------------------------|---|---|--|-----------------------------|-------------------------|-------------------------------------|--|---|---|---------------------------------|---------------------------------|-----------------|
| | | | | One-way flow | 3D flow | Cassette | | Slim type | Large type | Duct | | | Floor | | | | | |
| | | | | | | Compact 4-way Flow Grid type | | Circular flow | Low static pressure | | Low static pressure | Medium static pressure | High static pressure | EEV Internal | EEV External | | | |
| | | | | | | | High Efficiency | | Mini | Slim | | | | | | | | High Efficiency |
| | | | | AUXB 004/005/007/ 009/012/014/ 018HLAH | AUXN 009/012/014 HLAH | | | | ARXD 004/005/007/ 009/012/014/ 018/024 HLAH | ARXP 009/012/014 HLAH | | | | | | | | |
| | | | | AUXB 004/007/009/ 012/014/018/ 024GLEH | | AUXM 018/024/030 GLEH | AUXK 018/024/030/ 034/036/045/ 054GLEH | ARXK 004/007/009/ 012/014/018/ 024CLGH | ARXD 007/009/012/ 014/018/024 GLEH, ARXD04GALH | | ARXP 018/030 GLFH | ARXA 024/030/ 036/045 GLEH | ARXC 036/045/060 072/090/096 GTEH | AGYA 004/007/ 009/012/014 GCGH | AGYE 004/007/ 009/012/014 GCEH | ABYA 012/014/018/ 024GTEH | ABYA 030/036/045/ 054GTEH | |
| Input | Operation/Stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | |
| | All On/All Off | | | | | | | | | | | | | | | | | |
| | Group stop | | | | | | | | | | | | | | | | | |
| | Forced stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | |
| | Emergency stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | |
| | Forced thermostat off | | ● UTY-XWZXZE ○ UTY-XWZXZ7 | | | | | | | | | | | | | | ● UTY-XWZXZE ○ UTY-XWZXZ7 | |
| | Low noise mode operation | | | | | | | | | | | | | | | | | |
| | Cooling/Heating priority | | | | | | | | | | | | | | | | | |
| | Outdoor unit operation peak control | | | | | | | | | | | | | | | | | |
| Power usage information from electricity meter | | | | | | | | | | | | | | | | | | |
| Output | Operation status | | ● UTY-XWZXZC | | | | | | | | | | | | | | ● UTY-XWZXZC | |
| | Error status | | ● UTY-XWZXZC | | | | | | | | | | | | | | ● UTY-XWZXZC | |
| | Indoor unit fan operation status | | ● UTY-XWZXZC | | | | | | | | | | | | | | ● UTY-XWZXZC | |
| | Auxiliary heater output | | | | | | | | ● UTY-XWZXZC | | | | | | | | | |
| | Base pan heater | | | | | | | | | | | | | | | | | |
| Safety measure | Ventilation Fan (IN/OUT) | | ●UTZ-JXXA+UTY-SGZY (for R32 models) | | | | | | ●UTZ-JXXA+UTY-SGZY (for R32 models) | | | | | | | | | |
| | Alarm out | | ●UTZ-JXXA+UTY-SGZY (for R32 models) | | | | | | ●UTZ-JXXA+UTY-SGZY (for R32 models) | | | | | | | | | |

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



For VRF

| Expansion kit | | Connection Cable | |
|---|--|--|--|
|  | |  | |
| UTZ-JXXA | | UTY-XWZXZL | |

Function List for VRF








External input and output function/External connect kit

| Type | Refrigerant | Indoor unit | | | | Outdoor unit | | | | | | controller | Other |
|---|---|---|---|-----------------|--|---|---|-----------------------------|---|---|------------|--|---------|
| | | Wall-mounted | | | | J-VS | J-IVL | J-IV | J-IVS | V-IV | VR-IV | Central remote controller | RB unit |
| | EEV Internal | EEV External | - | | | | | | | | | | |
| |  | ASYA 004/005/007/009/012/014 HCAH | ASYE 004/005/007/009/012/014 HCAH | | | | | | | | | | |
|  | ASYA 004/007/009012/014 GCGH | ASYE 004/007/009012/014 GCEH | ASYA18/24GBCH | ASYA030/034GTEH | | AJY 072/090/108/ 126/144/162 LELDH | AJY 040/045/054 LBLDH, AJY 040/045/054 LELDH | AJY 040/045/054 LCLDH | AJY 072/090/108/ 126/144/162 LALDH | AJY 072/090/108/ 126/144 GALDH | UTY-DCGYZ3 | UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH | |
| Input | Operation/Stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | |
| | All On/All Off | | | | | | | | | | | ●UTY-XWZXZ7 ○UTY-XWZXZ8 | |
| | Group stop | | | | | | ● UTY-XWZXZ6 | | | | | | |
| | Forced stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | |
| | Emergency stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | ● UTY-XWZXZ6 | | | | ●UTY-XWZXZ7 ○UTY-XWZXZ8 | |
| | Forced thermostat off | | ● UTY-XWZXZE ○ UTY-XWZXZ7 | | | | | | | | | | |
| | Low noise mode operation | | | | | | ● UTY-XWZXZ6 | | | | | | |
| | Cooling/Heating priority | | | | | | ● UTY-XWZXZ6 | | | | | ●UTY-XWZXZ6 ○UTY-XWZXZB | |
| | Outdoor unit operation peak control | | | | | | ● UTY-XWZXZ6 | | | | | | |
| Power usage information from electricity meter | | | | | | ● UTY-XWZXZF | | | | | | | |
| Output | Operation status | | ● UTY-XWZXZC | | | | | ○ UTY-XWZXZ6 | | | | ○UTY-XWZXZA | |
| | Error status | | ● UTY-XWZXZC | | | | | ○ UTY-XWZXZ6 | | | | ○UTY-XWZXZA | |
| | Indoor unit fan operation status | | ● UTY-XWZXZC | | | | | | | | | | |
| | Auxiliary heater output | | | | | | | | | | | | |
| | Base pan heater | | | | | | ● UTY-XWZXZ9 | | | ● UTY-XWZXZ9 | | | |
| Safety measure | Ventilation Fan (IN/OUT) | | ●UTZ-JXXA+UTY-SGZY (for R32 models) | | | | | | | | | | |
| | Alarm out | | ●UTZ-JXXA+UTY-SGZY (for R32 models) | | | | | | | | | | |

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

Communication system

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

Separation Tube



For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

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



for VRF

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

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

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



for VRF

| EV kit | | Shut off valve kit | |
|---|---|---------------------------------------|--|
| Model name \leq 09: UTR-EV09XB Model name \geq 12: UTR-EV14XB for compact wall-mounted type | Model name \leq 09: UTR-EV09XC Model name \leq 12: UTR-EV14XC for R32 VRF wall-mounted type | UTP-GX027A for R32 VRF indoor unit | UTP-GX060A for R32 VRF outdoor unit |
| | | | |
| RB unit | | | |
| UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type | UTP-RX04BH Multi-split type | UTP-RX08AH Multi-split type | UTP-RX12AH Multi-split type |
| | | | |

Specifications

Separation tube

| Model name | UTP-AX054A | UTP-AX090A | UTP-AX180A | UTP-AX567A |
|--|--------------|--------------|--------------|--------------|
| Total cooling capacity of indoor unit (kW) | 19.6 or less | 28.0 or less | 28.1 to 56.0 | 56.1 or more |
| Model name | UTP-BX090A | UTP-BX180A | UTP-BX567A | |
| Total cooling capacity of indoor unit (kW) | 28.0 or less | 28.1 to 56.0 | 56.1 or more | |

Header

| Model name | 3-6 Branches | UTR-H0906L | UTR-H1806L |
|--|--------------|--------------|--------------|
| | 3-8 Branches | UTR-H0908L | UTR-H1808L |
| Total cooling capacity of indoor unit (kW) | | 28.0 or less | 28.1 to 56.0 |
| Model name | 3-6 Branches | UTP-J0906A | UTP-J1806A |
| | 3-8 Branches | UTP-J0908A | UTP-J1808A |
| Total cooling capacity of indoor unit (kW) | | 28.0 or less | 28.1 to 56.0 |

Outdoor unit branch kit

| Model name | UTP-CX567A (for V-IV) | | UTP-DX567A (for VR-IV) |
|-------------------------|-----------------------|---|------------------------|
| Number of outdoor units | 2 outdoor units | 1 | |
| | 3 outdoor units | 2 | |

EV kit

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

RB unit

| Type | Single type | | | Multi-split type | | |
|---|-------------|-----------------|---------------|------------------|--------------------|-----------------|
| Model name | UTP-RX01AH | UTP-RX01BH | UTP-RX01CH | UTP-RX04BH | UTP-RX08AH | UTP-RX12AH |
| Power source | V/Ø/Hz | 230/1/50 | | | | |
| Input power | W | 17 | 24 | 31 | 96 | 136 |
| Number of branches | | 1 | 1 | 1 | 4 | 8 |
| Maximum capacity of connectable indoor units (Q) | kW | $Q \leq 8.0$ | $Q \leq 18.0$ | $Q \leq 28.0$ | $Q \leq 56.1^{*1}$ | $Q \leq 72.0$ |
| Maximum capacity of connectable indoor units per branch (Q) | kW | $Q \leq 8.0$ | $Q \leq 18.0$ | $Q \leq 28.0$ | $Q \leq 18.0$ | $Q \leq 8.0$ |
| Maximum Connectable Indoor Units per Branch | | 3 | 8 | 8 | 8 | 7 |
| Dimensions (H × W × D) | mm | 198 × 298 × 268 | | | 260 × 658 × 428 | 298 × 660 × 618 |

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

Shut off valve kit

| Model name | UTP-GX027A | | UTP-GX060A |
|---|------------|-----------------|-----------------|
| Power source | V/Ø/Hz | 230/1/50 | 230/1/50 |
| Input power | W | 24 | 24 |
| Number of branches | | 1 | 1 |
| Maximum number of connectable Expansion kit | kW | 4 | 4 |
| Maximum capacity of connectable indoor units (Q) | kW | $Q \leq 8.0$ | $Q \leq 18.0$ |
| Maximum capacity of Connectable Indoor Units per Branch (Q) | kW | $Q \leq 8.0$ | $Q \leq 18.0$ |
| Dimensions (H × W × D) | mm | 250 × 540 × 267 | 250 × 540 × 267 |