



## PRODUCT LINEUP

# CONTROL SYSTEM & OPTIONAL PARTS



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SPLIT



MULTI SPLIT



SMALL VRF



LARGE VRF

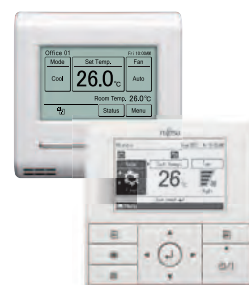
# CONTROL SYSTEM OVERVIEW

for SPLIT & MULTI SPLIT

All indoor units are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. 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.



## Air Conditioning Individual Control



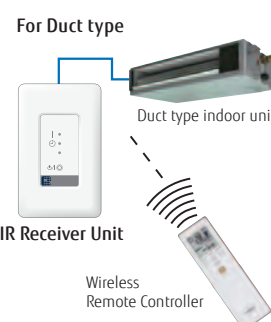
**Wired Remote Controller**  
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



**Wireless Remote Controller**  
Simple and sophisticated operations with a choice of 4 daily timers



**Simple Remote Controller**  
Compact remote controller provides access to basic functions



## Convertor/Adaptor For external control via BMS/ Home Automation Systems

**MODBUS® Convertor**  
For indoor unit  
UTY-VMSX



**MODBUS® Interface**  
For indoor unit  
FJ-RC-MBS-1



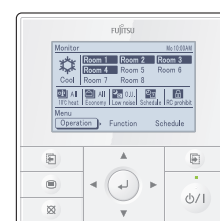
**KNX® Convertor**  
For indoor unit  
UTY-VKSX



**KNX® Interface**  
For indoor unit  
FJ-RC-KNX-1i



## Air Conditioning Centralized Control



**Central Remote Controller For 5-6 & 8 Rooms Multi**  
Central Remote Controller allows individual and central control

## Online Control (Wireless Control via Smart Phone/Tablet)

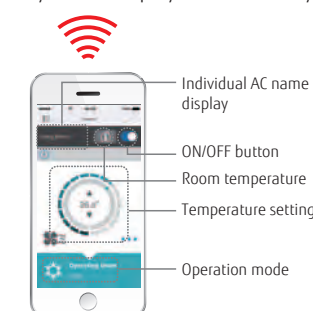
By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.



**Wireless LAN Interface**  
The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.



**User friendly app**  
User friendly screen display facilitates easy operation.





# CONTROL SYSTEM OVERVIEW for VRF

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

## Air Conditioning Individual Control



**Wired Remote Controller (Touch panel)**  
UTY-RNRYZ2



**Wired Remote Controller**  
UTY-RLRY



**Simple Remote Controller**  
UTY-RSRY  
UTY-RHRY  
Without operation mode



**Wireless Remote Controller**  
UTY-LNHY



**IR Receiver Unit**  
UTB-YWC For Duct type  
UTY-LRHYB1 For Cassette type

## Air Conditioning Centralized Control



**System Controller (Software)**  
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)

\*1: USB Adaptor: Echelon® U10 USB Network Interface  
\*2: Lite edition is max. controllable 400 indoor units



**Touch Panel Controller**  
UTY-DTGYZ1



**Central Remote Controller**  
UTY-DCGY



**Group Remote Controller**  
UTY-CGGY



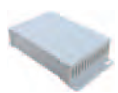
**Network Converter (For Group Remote Controller)**  
UTY-VGGXZ1

## Convertor/Adaptor For external control via BMS/ Home automation Systems

**BACnet® Gateway**  
UTY-ABGXZ1 (Software)



**BACnet® Gateway**  
UTY-VBGX (Hardware)



**Network Converter (For LONWORKS®)**  
UTY-VLGX



**MODBUS® Converter**  
UTY-VMGX



**MODBUS® Interface**  
FJ-RC-MBS-1



**KNX® Converter For VRF**  
UTY-VKGX



**KNX® Interface**  
FJ-RC-KNX-1i



**Wireless LAN Interface**  
FJ-RC-WIFI-1



**External Switch Controller**  
UTY-TERX



**Card-key**  
(Locally purchased)



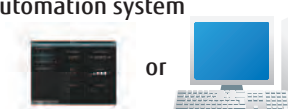
**Internet device**



**BMS/BAS<sup>\*3</sup>**



**BMS<sup>\*3</sup>, Home automation system**



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

## Convertor/Adaptor For system expansion

**Network Converter (DC power supply)**  
UTY-VTGX



**Network Converter (AC power supply)**  
UTY-VTGXV



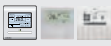







**Signal Amplifier**  
UTY-VSGXZ1















Best Control Solution for Each Property

Fujitsu General provides the best control solutions suitable for the various properties.

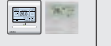











SHOP

Type	Individual Control	Centralized Control				Integrating Control (Interface)		
								
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor
	UTY-RNRYZ2, UTY-RLRY, UTY-RVNYM	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●	●			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			●	●	●	●	●	●
Group Control		●	●	●	●			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●			
Remote Management				●	●			
Manage multiple sites				●	●			
Monitor energy consumption					●			
Control third party products					●			
Integrate FGL A/C into BMS						●	●	●














HOTEL

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
												
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ2, UTY-RLRY, UTY-RVNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	●	●	●									
Centralized A/C control for common space				●	●	●	●	●	●	●	●	
Limited control for hotel guests					●	●	●	●	●	●	●	
Remote Management						●	●					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with window contact												●
Interlock with key-card												●

OFFICE

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
												
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ2, UTY-RLRY	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY	UTY-CGGY	UTY-DCGY	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 A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●	●	●				
Centralized A/C control for management					●	●	●	●	●	●	●	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)					●	●	●	●	●	●	●	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Remote Management						●	●					
Energy Charge Apportionment						●	●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with door contact												●
Interlock with human sensor for meeting room												●

Comparison Table of Controllers

Item														
		Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite (Software)	System Controller (Software)
Model name		UTY-RNRYZ2	UTY-RLRY	UTY-RVNYM	UTY-RSNYM	UTY-RSRY	UTY-RHRY	UTY-LNHY	UTY-DMMYM	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups		1	1	1	1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units		16	16	16	16	16	16	16	8	128	100	400	400	1600
Max. controllable groups		—	—	—	—	—	—	—	—	—	16	400	400	1600
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●	●	●	●	●	●
	Operation mode setting	●	●	●	●	●	—	●	●	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation	●	●	●	—	●	●	—	—	—	●	●	●	●
	Test operation	●	●	●	●	●	●	●	—	—	●	●	—	—
	Up/down air direction flap setting	●	●	●	—	●	●	●	—	—	●	●	●	●
	Right/left air direction flap setting	●	●	●	—	—	—	●	—	—	●	●	●	●
	Individual louver control	●	—	—	—	—	—	—	—	—	—	●	—	—
	Group setting	—	—	—	—	—	—	—	—	—	●	●	●	●
	RC prohibition	—	—	—	—	—	—	—	●	—	●	●	●	●
	Anti freeze setting	●	—	—	—	—	—	—	—	—	●	●	●	●
	Set temp. auto return	●	●	●	—	—	—	—	—	—	—	●	—	—
	Economy mode setting	●	●	●	—	—	—	●	●	—	●	●	●	●
	Human sensor control	●	—	—	—	—	—	—	●	—	—	●	●	●
Display	Error	●	●	●	●	●	●	—	●	●	●	●	●	●
	Defrosting	●	●	●	●	●	●	—	—	—	●	●	●	●
	Current time	●	●	●	—	—	—	●	●	●	●	●	●	●
	Day of week	●	●	●	—	—	—	—	—	●	—	●	●	●
	R.C. prohibition	●	●	●	●	●	●	—	●	●	●	●	●	●
	Cooling/heating priority	●	●	—	●	●	●	—	—	●	●	●	●	●
	Address display	●	●	●	●	●	●	—	—	●	●	●	●	●
	Room temp	●	—	●	—	●	●	—	—	—	—	●	—	—
	Multi language	●	—	●	—	—	—	—	●	—	●	●	●	●
	Summer time	●	—	●	—	—	—	—	●	—	●	●	●	●
	Name registration	●	—	—	—	—	—	—	—	—	●	●	●	●
	Backlight	●	—	●	●	●	●	—	●	—	●	●	—	—
	2D floor layout / 3D building display	—	—	—	—	—	—	—	—	—	—	—	—	●
	Refrigerant leakage detection function	—	—	—	—	—	—	—	—	—	—	●	●	●
Timer	Schedule timer	Period	Week	Week	Week	—	—	—	Week	Week	Week	Year	Year	Year
		On/off, Temp, Mode, Times per day	8	4	8	—	—	—	4	4	20	20	144	144
	On/off timer	●	●	●	—	—	—	●	—	—	—	—	—	—
	Sleep timer	—	—	—	—	—	—	●	—	—	—	—	—	—
	Program timer	—	—	—	—	—	—	●	—	—	—	—	—	—
	Auto off timer	●	●	●	—	—	—	—	—	—	—	●	—	—
	Day off	●	●	●	—	—	—	—	●	—	●	●	●	●
Control	Min. unit of timer setting (Minutes)		10 × 30	30	30	—	—	—	5	5	10	10	10	10
	Status monitoring system		—	—	—	—	—	—	—	—	●	●	●	●
	Electricity charge apportionment		—	—	—	—	—	—	—	—	—	○	○	●
	Error history		●	●	●	—	—	—	—	●	●	●	●	●
	Emergency stop		—	—	—	—	—	—	—	—	●*2	●*2	—	—
	Remote management		—	—	—	—	—	—	—	—	—	●	○	●
	Energy saving management		—	—	—	—	—	—	—	—	—	—	○	○
	E-mail notification for malfunction		—	—	—	—	—	—	—	—	—	—	●	●
	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 is not available for this model. \*2 This function is available only through external input control. ●: Supported ○: Optional function —: Not supported yet

# Wired Remote Controller (Touch Panel)

UTY-RNRYZ2



Max. Controllable  
**16** indoor units

Max. Controllable  
**1** Group

## Easy operation by high-definition large STN-LCD touch panel screen

- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp., Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type

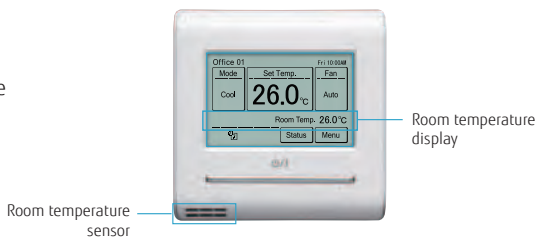
## High performance and compact size

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



## Accurate and comfortable control

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



## Various energy saving control

### Custom Auto

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

\* This function is not available for some models.

### Auto OFF timer

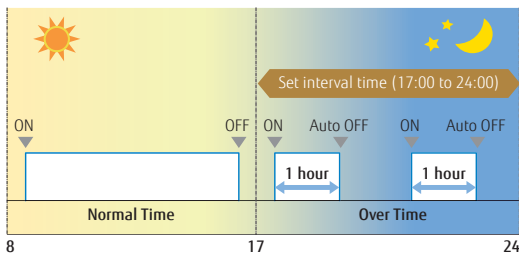
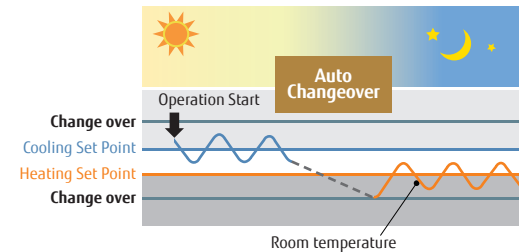
- The indoor unit automatically is turned off when it reaches the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes

### 2 schedules Weekly Timer

#### Set Temperature Auto Return

#### Set Temperature Upper and Lower Limit Setting

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



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

### Specifications

Model name	UTY-RNRYZ2
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-RVNYM



Max. Controllable  
**16** indoor units

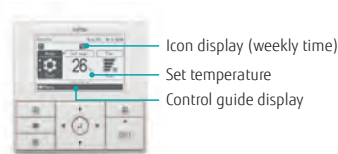
Max. Controllable  
**1** Group

## Hi-grade individual control using various functions.

- 3.7-inch LCD backlight screen.
- Supporting various Energy Saving functions with simple operation.
- Multiple Language Support.  
(English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

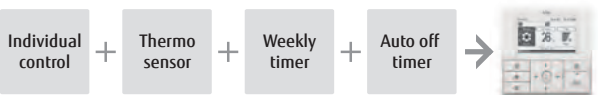
## High visibility and Easy operation

- Icon display of effectual functions.
- Main functions in large icons: "Mode", "Set Temp", and "Fan".
- Easy to operate by Control guide display.
- Simple operation with easy 4-way navigation pad.



## High performance and compact size

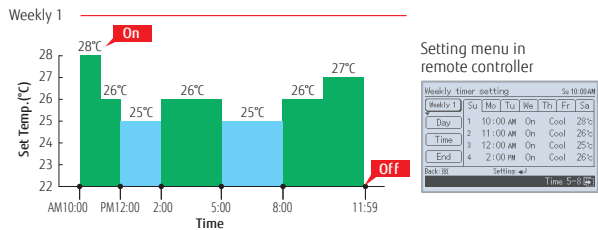
- In addition to the individual control, various energy saving controls can be realized using only one remote controller.



## Various energy saving control

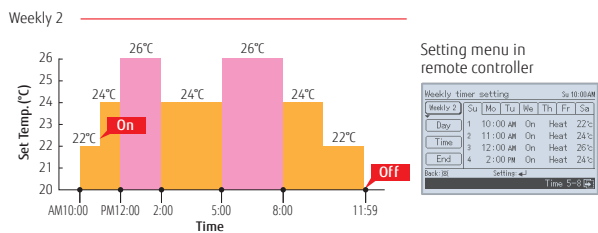
### Weekly Timer function

- Can be set up to 8 times per day (On/Off, mode, Temp)
- 2 pattern settings (i.e. Summer/Winter setting) are available.



### Auto OFF Timer

- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting



### Specifications

Model name	UTY-RVNYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC 12 V is supplied by the indoor unit.



# Wired Remote Controller

UTY-RLRY



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

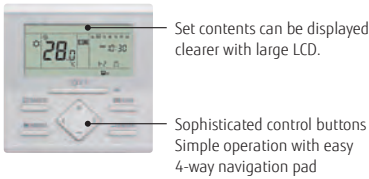
## High performance and compact size

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



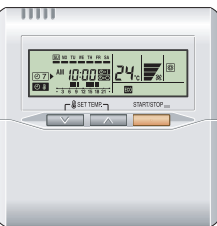
## High visibility and easy operation

- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.



# Wired Remote Controller

UTY-RNNYM

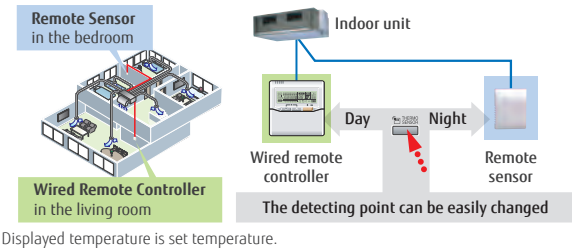


- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

## Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

### Example of changing sensor



## Built-in timers

**Weekly timer:** Possible to set ON/OFF time to operate twice each day of the week.  
**Setback timer:** Possible to set temperature for two times spans and for each day of the week.  
At "Weekly timer" + "Set back timer" setup

### Specifications

Model name	UTY-RLRY	UTY-RNNYM
Power Source	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 17	120 × 120 × 18
Weight (g)	170	160

DC 12 V is supplied by the indoor unit.

# Simple Remote Controller

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

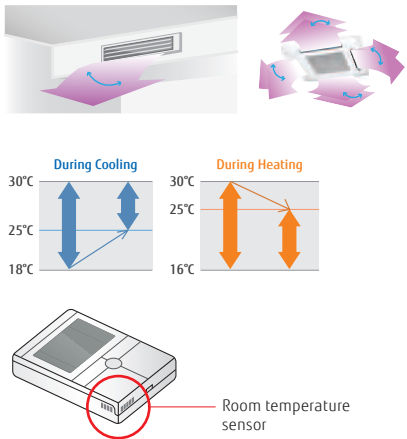


## Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

## Corresponding to various applications

- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.
- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.
- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



# Simple Remote Controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY(Without operation mode)



## Compact remote controller provides access to basic functions

- 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.
- Backlight enables easy operation in a darkened room.
- 3-wire type

## Easy-to-use operation

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

### Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSNYM, UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC 12 V is supplied by the indoor unit.

# Wireless Remote Controller

UTY-LNHY



Max. Controllable  
**16** indoor units  
Max. Controllable  
**1** Group  
Selectable  
**4** daily timers

## Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

## Built-in timers

4 timer programs: On / Off / Program / Sleep  
Program timer: Operates ON/OFF timer once within 24 hours  
Sleep timer: Corrects the set temperature automatically during sleep time

## Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)  
Wide and precise transmitting range

# IR Receiver Unit

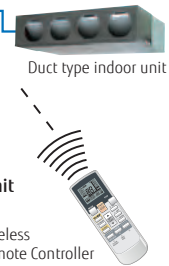
UTB-YWC / UTY-LRHYM / UTY-LBTYM



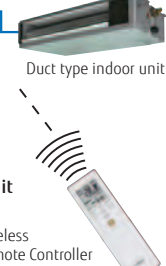
UTB-YWC  
for VRF



UTY-LRHYM  
for Split



UTY-LBTYM  
for Split



## Duct type\* indoor units can be controlled with Wireless Remote Controller

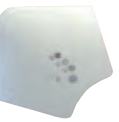
\*Only Large Airflow Duct can not be connected to IR Receiver Unit.

# IR Receiver Unit

UTY-LRHYB1 / UTY-LBHXD / UTY-LRHYA2 / UTY-LBTYC



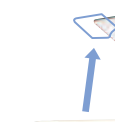
UTY-LRHYB1  
for VRF



UTY-LBHXD  
for VRF



UTY-LRHYA2  
for Split



IR Receiver Unit

UTY-LBTYC  
for Split



Wireless Remote Controller

UTY-LBTYC  
for Split



IR Receiver Unit

Wireless Remote Controller

Wireless Remote Controller

## Cassette type indoor unit can be controlled with Wireless Remote Controller

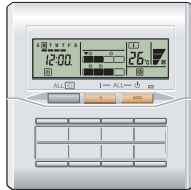
### Specifications

Model name	UTY-LNHY	UTB-YWC/UTY-LRHYM/UTY-LBTYM	UTY-LRHYB1/UTY-LBHXD UTY-LRHYA2/UTY-LBTYC
Battery	1.5 V (R03 / LR03 / AAA) × 2	DC 5 V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2
Weight (g)	85	150	140

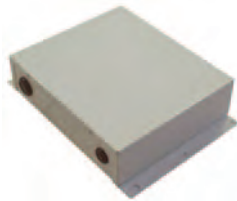
DC 12 V is supplied by the indoor unit.

# Group Remote Controller/Network Converter

UTY-CGGY / UTY-VGGXZ1



Group Remote Controllers  
UTY-CGGY



Network Converter  
UTY-VGGXZ1  
For Group Remote Controller

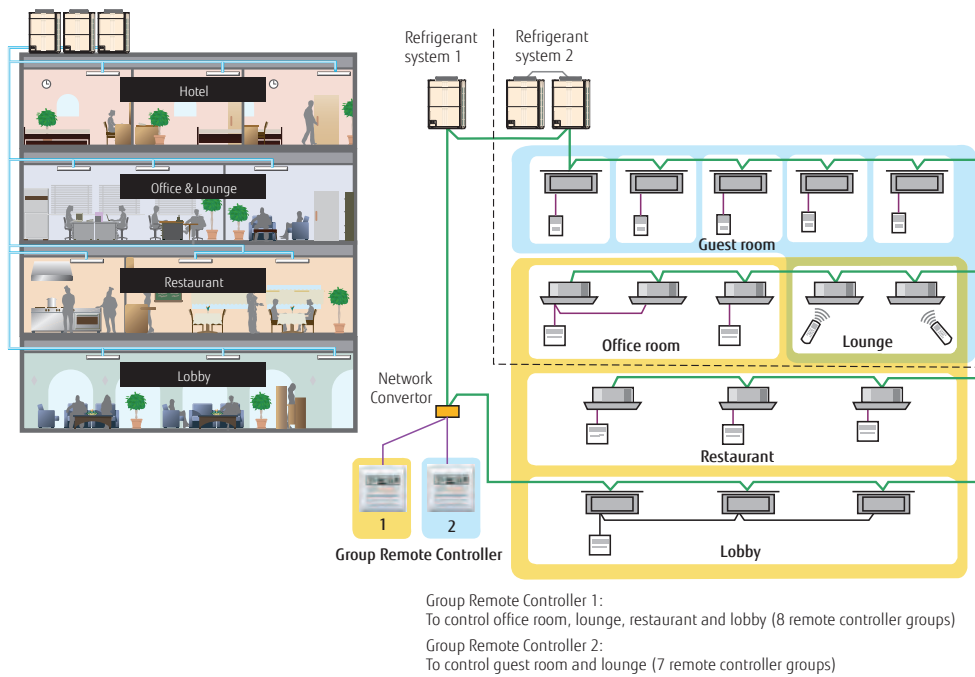
Max. Controllable  
**8** remote controller groups  
Max. Controllable  
**92** indoor units in  
**8** Groups  
Max. Controllable  
**2** refrigerant circuits

## Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Converter is required to connect Group Remote Controllers to a VRF network system. (Network Converter allows up to 4 Group Remote Controllers)
- 3-wire type

## Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.



## High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



## Built-in weekly timers

The weekly timer is provided as a standard function.

### Specifications

Model name	UTY-CGGY
Power Supply	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 18
Weight (g)	200

DC 12 V is supplied by the indoor unit.

Model name	UTY-VGGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500



# Central Remote Controller

UTY-DCGY



Max. Controllable  
100 indoor units

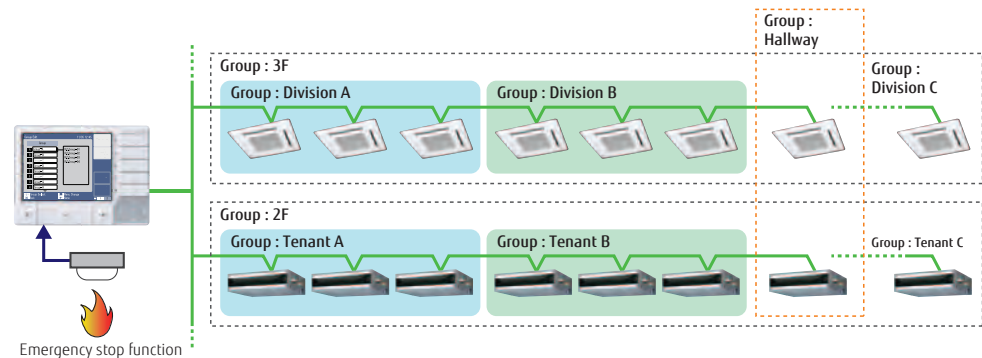
Max. Controllable  
16 groups

## For small- and medium-sized buildings and tenants

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

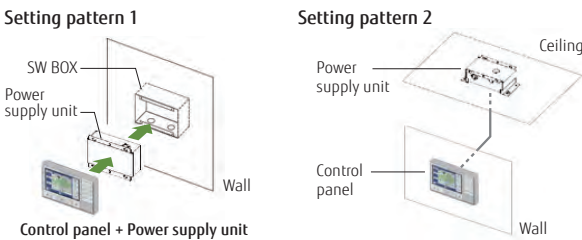
## System overview

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



## Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.



## Functions

- Diverse control of indoor units
- Weekly timer
- Automatic clock adjustment
- Error history

### Specifications

Model name	UTY-DCGY	
	Control Panel	Power Supply Unit
Power Supply	DC 5 V	100-240 V, 50-60 Hz, Single phase
Dimensions (H × W × D) (mm)	120 × 162 × 25.7	99 × 135 × 39.2
Weight (g)	308	355
<PACKING LIST>		
Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	

# Central Remote Controller for 5-6 Rooms Multi, 8 Rooms Multi

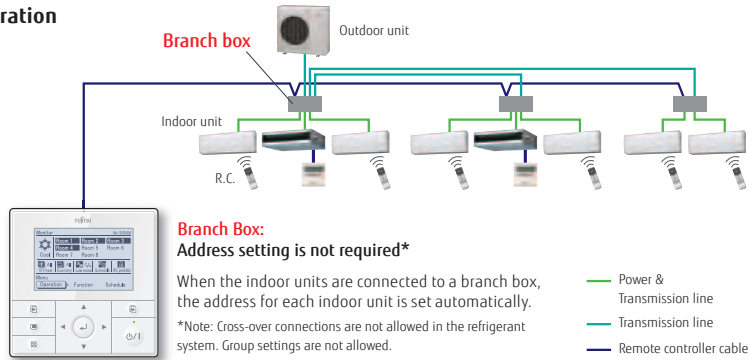
UTY-DMMYM



Max. Controllable  
1 multi system

Max. Controllable  
8 indoor units

## System configuration



Branch Box:  
Address setting is not required\*

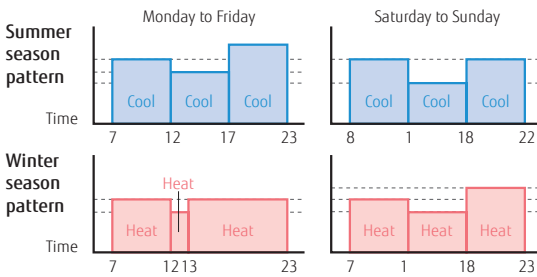
When the indoor units are connected to a branch box, the address for each indoor unit is set automatically.

\*Note: Cross-over connections are not allowed in the refrigerant system. Group settings are not allowed.

## Central Remote Controller Functions

### Weekly schedule timer

The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.



### Low noise operation

Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.

### 10°C heat operation

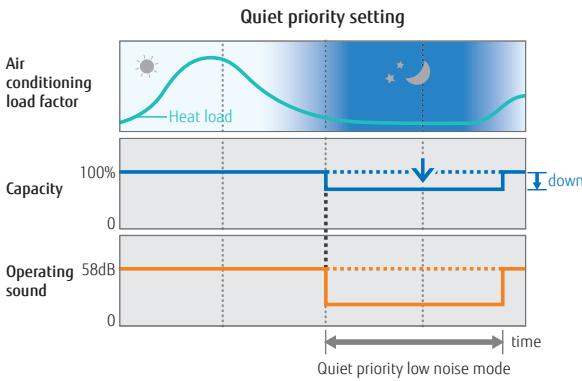
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

### Economy operation

Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

### Prohibited Settings

The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc



### Specifications

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

DC 12 V is supplied by the indoor unit.

# Touch Panel Controller

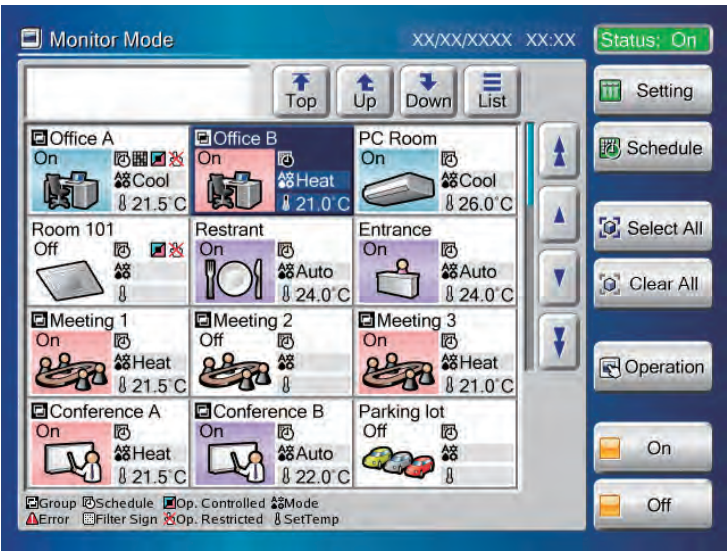
UTY-DTGYZ1



- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different-languages ,English, Chinese, French, German, Spanish, Russian, Polish.
- Mounted with LAN interface for remote control & operation, external input / output with emergency stop and batch ON / OFF

## Easy Operation

- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon.
- Back color identifies current control operation blue for monitoring, green for operational control.



Max. Controllable  
**400** indoor units

Max. Controllable  
**100** outdoor units

Max. Controllable  
**400** groups

## Easy maintenance

- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking
- Easy-to-remove front cover

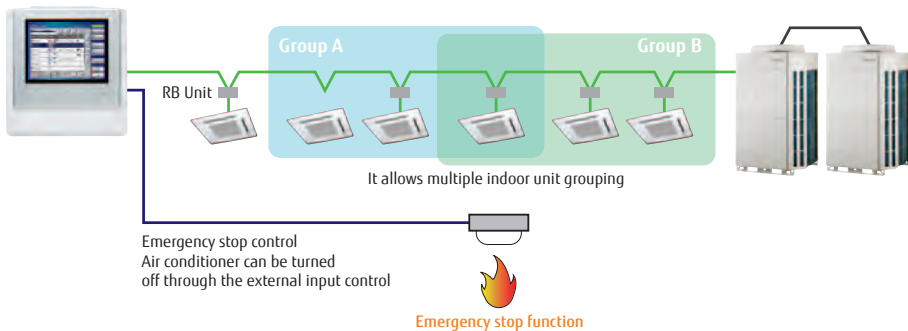


## Easy installation

- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation



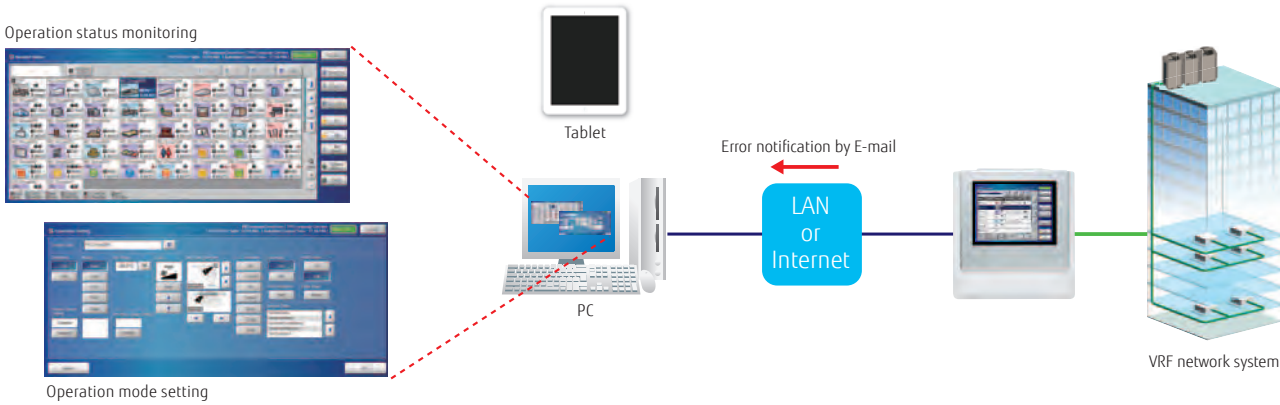
## Up to 400 indoor units can be controlled



## Features: Touch Panel Controller

### Control & monitoring

- Control and monitor Fujitsu's air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.



### Smart Phone

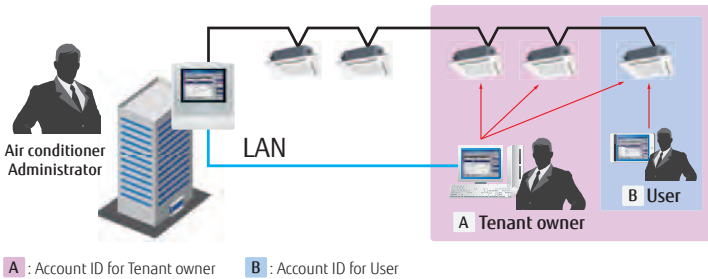
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

### Tablet

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

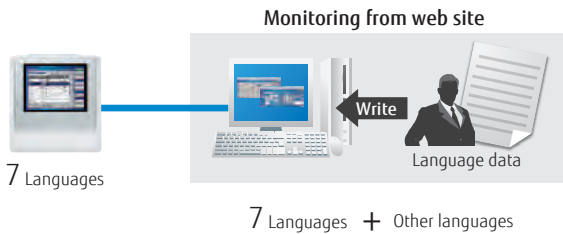
## Flexible access permission for Point each level user.

Administrator can register multiple user to permit which indoor unit(s) and which function can access.



## Additional languages function

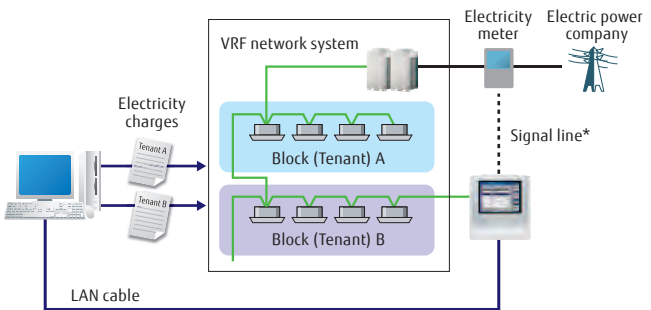
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



## Electricity charge apportionment (Option: UTY-PTGXA)

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.

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



\*: Electricity meter (1unit) can be connected to external input connector of the TPC unit. In this case, electricity meter cannot be connected to outdoor unit simultaneously.

PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

Features: Touch Panel Controller

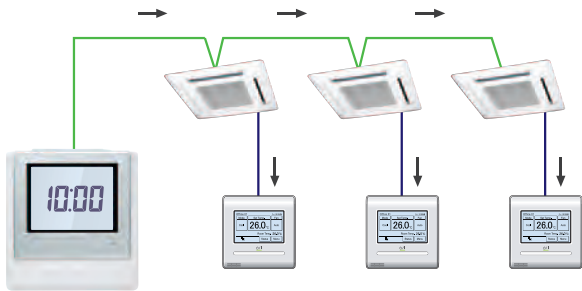
Automatic summer time setting

Providing function

- 1) Schedule setting of summer time setting
  - It prevents the user from forgetting to set summer time. In addition, it reduces the time and labor of user.

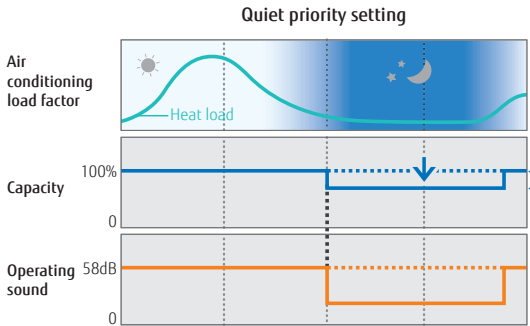
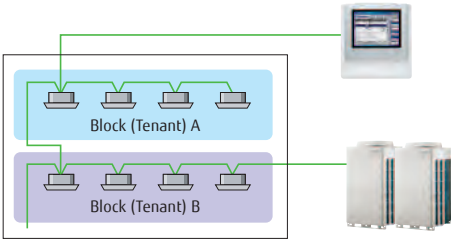
Automatic clock adjustment

- 2) The time setting of each controller can be set in batch automatically.



Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.



NEW Various energy saving control

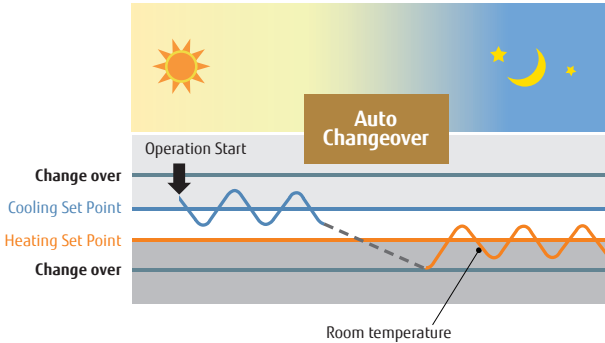
Custom Auto

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

\* This function is not available for some models.

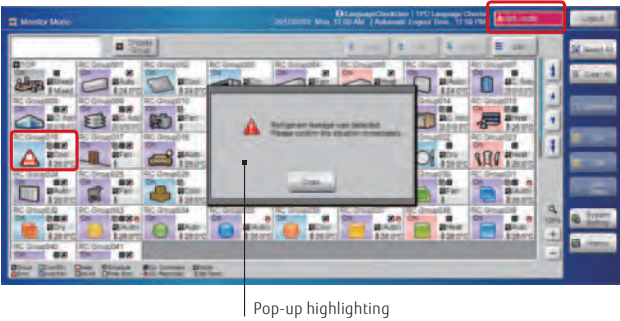


Cooling set temp. 28 °C, Heating set temp. 18 °C





NEW Refrigerant leakage detection function



The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.



FUNCTIONS SUMMARY

		
	UTY-DTGYZ1	Monitoring side
Air conditioning control function		
On / Off	●	●
Operation mode setting*	●	●
Fan speed setting	●	●
Room temp. setting	●	●
Room temp. set point limitation	●	●
Test operation	●	●
Up/down air direction flap setting	●	●
Right/left air direction flap setting	●	●
Individual louver control	●*1	●
Group setting	●	●
RC prohibition	●	●
Anti freeze setting	●	●
Set temp. auto return	—	●
Various energy saving control	—	●
Economy mode setting	●	●
Human sensor control	—	●
Display		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
R.C. prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temp	●	●
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	7	7+other
Filter sign reset	●	●
Memory operation	●	●
Refrigerant leakage detection function	●	●

●: Supported ○: Optional function —: Not supported yet  
\*1 Only setting cancellation can be operated.  
\*2 This function is available only through external input control.

			
		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		●	●
Min. unit of timer setting (Minutes)		10	10
Control			
Status monitoring system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote management		—	●
Energy saving management		—	—
E-mail notification for malfunction		—	●
Key lock		● Password setting	—
Low noise mode		●	●

Specifications

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



PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

System Controller

UTY-APGXZ1 Software



Max. Controllable  
4 VRF network systems  
Max. Controllable  
400 outdoor units  
Max. Controllable  
1,600 indoor units

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

System Controller Lite

UTY-ALGXZ1 Software



Max. Controllable  
1 VRF network systems  
Max. Controllable  
100 outdoor units  
Max. Controllable  
400 indoor units

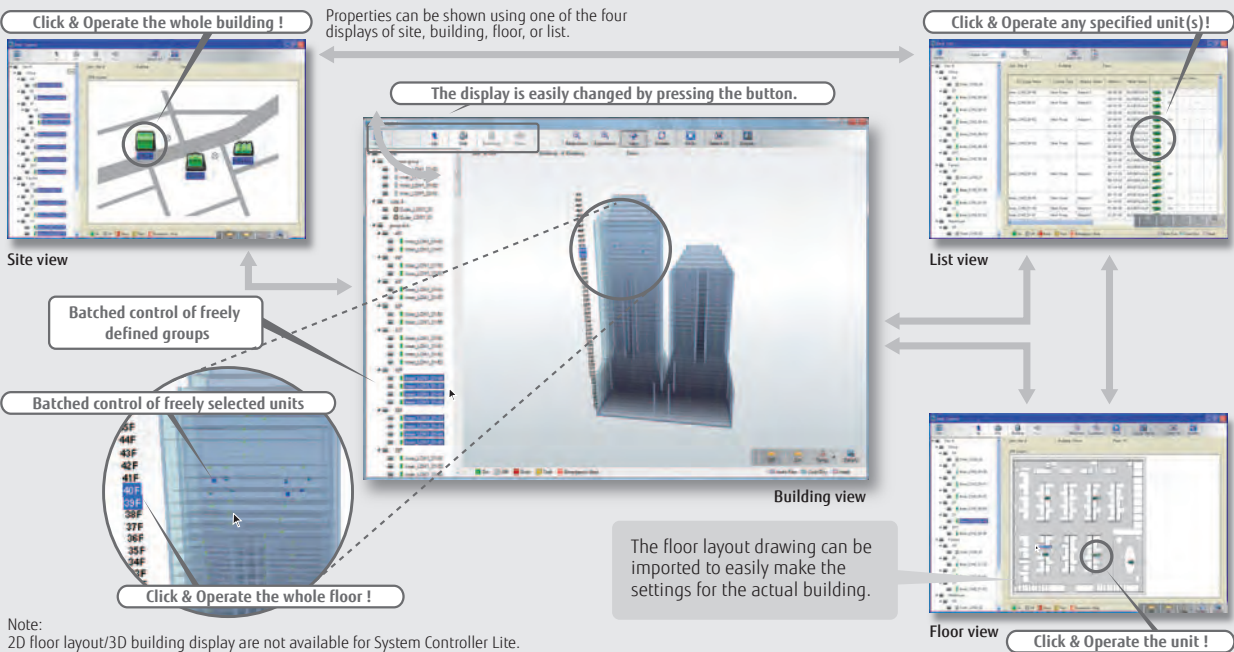
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

High visibility and Easy operation

**Click & Operate:** The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

**Freely define groups for batched control:** Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.

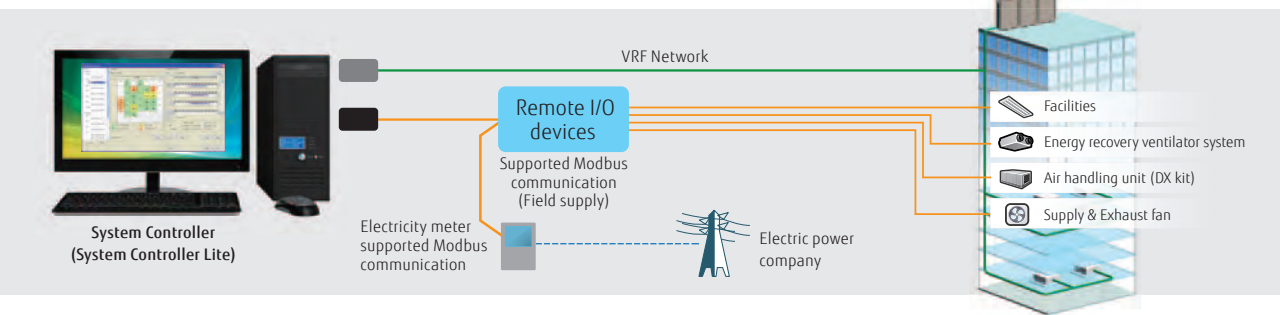


Features: System Controller/System Controller Lite

3rd party devices connected by Modbus can be controlled.

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

When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.

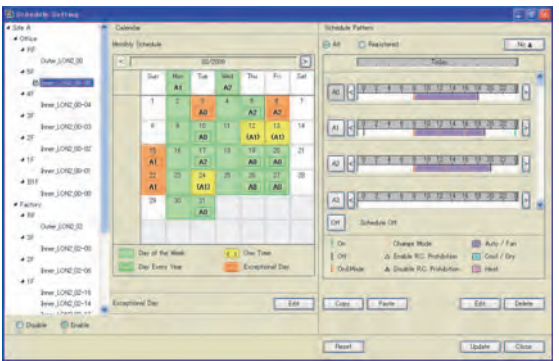


Diverse operation management & Data management

**Standard** for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.



Diverse control of indoor unit and outdoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation
- Outdoor unit low noise setting

Remote controller prohibition

This prohibits changes to the operation mode, temperature, start/ stop, etc.

Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Errors for the past 1 year are logged and can be reviewed later.

Operating & control record

Displays the history of operation status and control.

Data base import/export

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

Automatic clock adjustment

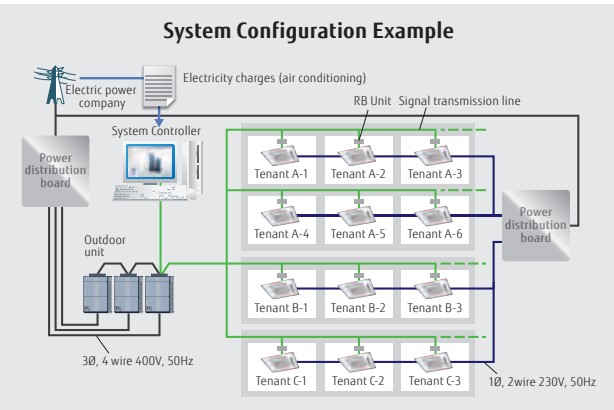
The time setting of each controller can be set in batch automatically.

Electricity charge apportionment

**Standard** for System Controller  
**Option** for System Controller Lite UTY-PLGXA2

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)  
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.



PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

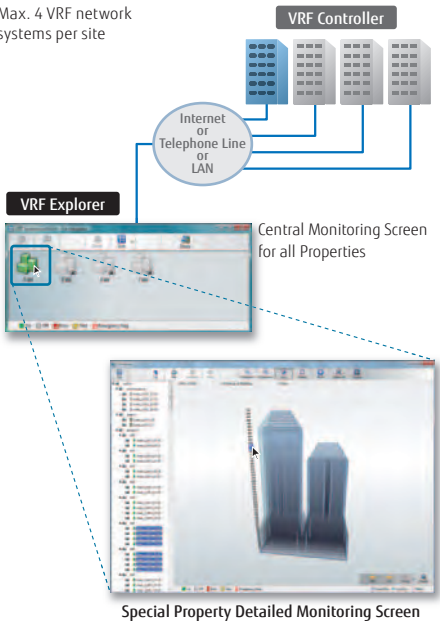
Features: System Controller/System Controller Light

Remote management

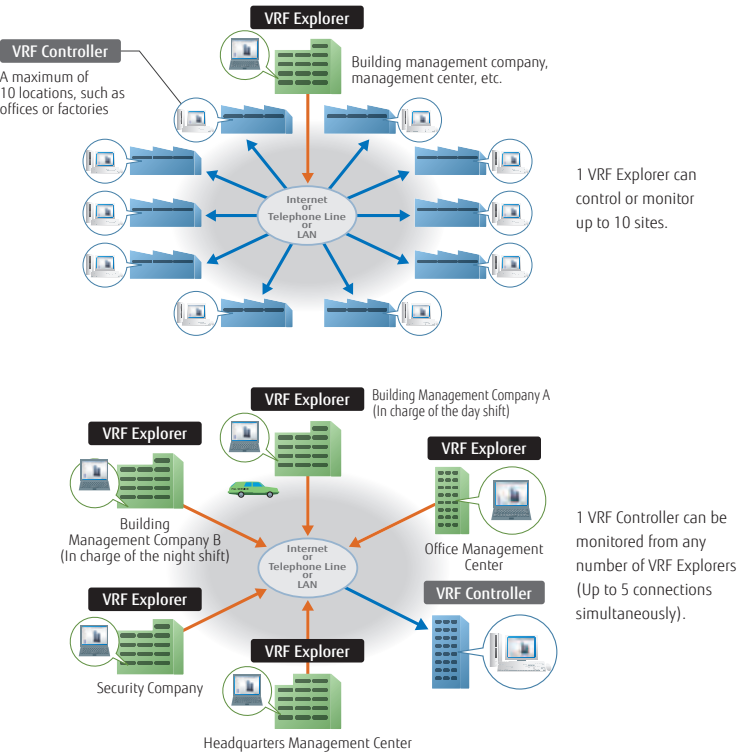
- Standard for System Controller
- Option for System Controller Lite UTY-PLGXR2

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control



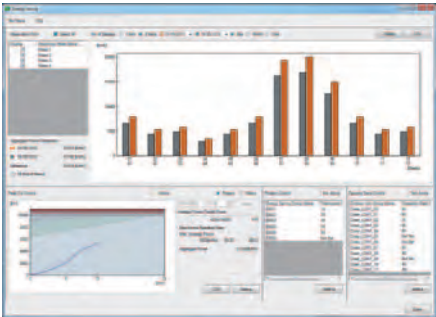
Remote central control



Energy saving management

- Option for System Controller UTY-PEGX
- Option for System Controller Lite UTY-PLGX2

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.



Energy Saving Management Main Screen

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.

Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.

Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.

FUNCTIONS SUMMARY

Function	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
System specification	Max. VRF networks supported	4	—	1	—	—	—	—
	Max. indoor unit / remote controller groups per VRF network	400	—	400	—	—	—	—
	Max. outdoor units per VRF network	100	—	100	—	—	—	—
	Max. indoor units / remote controller groups per System controller	1600	—	400	—	—	—	—
	Max. outdoor units per System controller	400	—	100	—	—	—	—
Site supervision	Multi site display	10	—	10	—	—	—	—
	Number of building / 1 site	20	—	—	—	—	—	—
	Number of floor per 1 site	200	—	—	—	—	—	—
	Number of floor per 1 building	50	—	—	—	—	—	—
	3D graphical layout view	●	—	—	—	—	—	—
	2D graphical layout view	●	—	—	—	—	—	—
	List display	●	—	●	—	—	—	—
	Tree display	●	—	—	—	—	—	—
Error management	Error notification	●	—	●	—	—	—	—
	Audible alarm	●	—	●	—	—	—	—
	Error e-mail notification	●	—	—	—	—	—	—
History	Error history	●	—	●	—	—	—	—
	Operation history	●	—	●	—	—	—	—
Operation control	Individual control	On/Off	●	●	—	—	—	—
		Operation mode*	●	●	—	—	—	—
		Room temperature	●	●	—	—	—	—
		Fan speed	●	●	—	—	—	—
		Air flow direction	●	●	—	—	—	—
		Economy mode	●	●	—	—	—	—
		Room temperature set point limitation	●	●	—	—	—	—
		Antifreeze	●	●	—	—	—	—
	Individual management	Outdoor unit low noise setting	●	●	—	—	—	—
		Remote control prohibition setting	●	●	—	—	—	—
		Temperature upper and lower limit setting	●	●	—	—	—	—
	Other	Filter sign reset	●	●	—	—	—	—
		Memory operation	●	●	—	—	—	—
		Pattern operation	●	●	—	—	—	—
		Annual Schedule	●	●	—	—	—	—
Schedule	Special day setting	●	—	●	—	—	—	—
	On / off per day	72	—	72	—	—	—	—
	On / off per week	504	—	504	—	—	—	—
	Day off	●	—	●	—	—	—	—
	Min. unit of timer setting (Minutes)	10	—	10	—	—	—	—
	Low noise mode Weekly schedule	●	—	●	—	—	—	—
Remote management	Web Operation	●	—	●	—	—	—	—
	Remote monitoring	●	—	—	●	—	—	—
	Remote operation control	●	—	—	●	—	—	—
	Remote function setting	●	—	—	●	—	—	—
Electricity charge apportionment	Apportionment charge/bill calculation	●	—	—	—	●	—	—
	Tenant (block) setting	●	—	—	—	●	—	—
	Common facilities apportionment setting	●	—	—	—	●	—	—
	Rated power consumption allotment setting	●	—	—	—	●	—	—
	Individual calculation at cooling and heating	—	●	—	—	●	—	—
Energy saving management	Electricity meter supported	—	●	—	—	●	—	—
	Indoor unit rotation	—	●	—	—	—	●	—
	Peak cut control	—	●	—	—	—	●	—
	Outdoor unit capacity save	—	●	—	—	—	●	—
	Record of energy saving operation	—	●	—	—	—	●	—
	Energy saving information	—	●	—	—	—	●	—
External Device Control	Power consumption monitor	—	●	—	—	—	●	—
	Electricity meter supported	—	●	—	—	—	●	—
	Monitor	●	—	—	—	—	—	●
Others	Control	●	—	—	—	—	—	—
	Database import/export	●	—	●	—	—	—	—
	Automatic clock adjustment	●	—	●	—	—	—	—
	Multi language	7 languages	—	7 languages	—	—	—	—
	Refrigerant leakage detection function	●	—	●	—	—	—	—
		—	—	—	—	—	—	—

●●: Available. - : Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port 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 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

• Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

PACKING LIST

Type	For System controller		For System controller Lite				
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

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



PRODUCT LINEUP: CONTROL SYSTEM-CONVERTOR/ADAPTOR

BACnet® Gateway

UTY-ABGXZ1



WHITE-USB-KEY  
(Software Protection Key)



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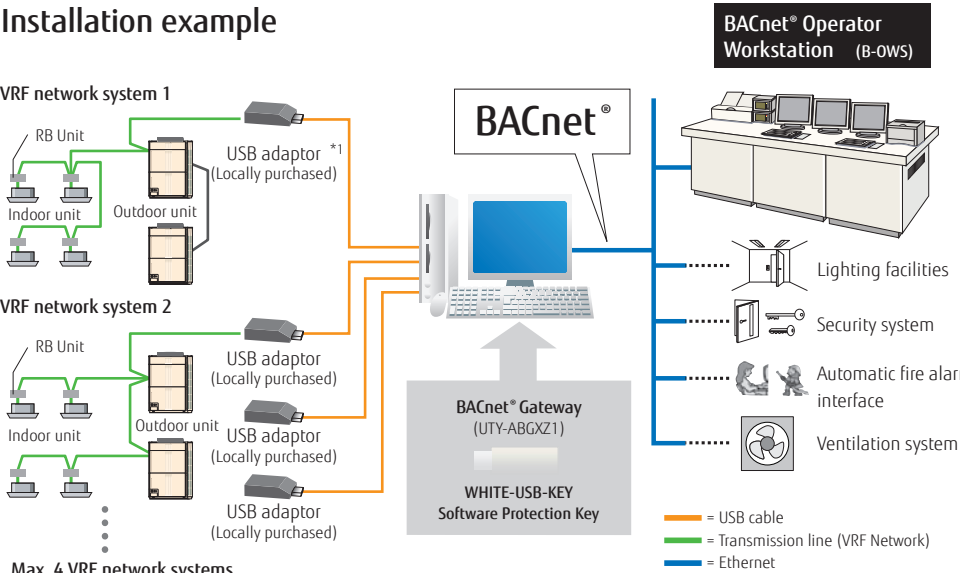
Max. Controllable  
**4**  
VRF network systems

Max. Controllable  
**400** outdoor units

Max. Controllable  
**1,600** indoor units

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

Installation example



Personal computer system requirements

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"><li>• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li><li>• Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li><li>• Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li></ul> [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"><li>• 2 GB or more (for Windows® 7 [32-bit])</li><li>• 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li></ul>
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"><li>• Ethernet port (for getting access to the Internet using LAN)</li><li>• USB ports (Maximum of 5 ports)</li><li>- 1 USB port is required for WHITE-USB-KEY/WibuKey connection</li><li>- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface</li><li>* Maximum number of required USB ports depends on the applicable system configurations.</li></ul>
Software	Adobe® Reader® 9.0 or later

\*Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway

UTY-VBGX



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Max. Controllable  
**1** VRF network system

Max. Controllable  
**32** refrigerant system

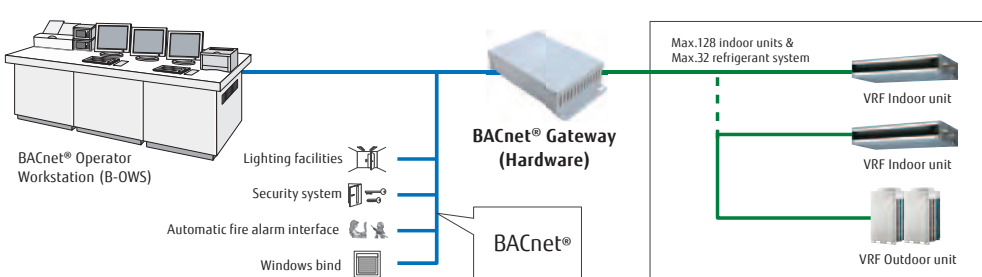
Max. Controllable  
**128** indoor units

Specifications

Model name	UTY-VBGX	Model name	UTY-VBGX
Number of controllable indoor units	128	Power Supply	100-240 V 50/60 Hz, single phase
Number of controllable refrigerant system	32	Power Consumption (W)	4.6 (max.)
Number of controllable VRF network	1	Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Number of connectable units / one VRF network	4	Weight (g)	1,200

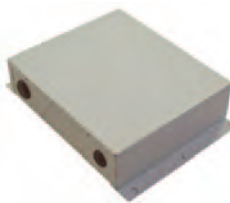
- BACnet® Gateway enables to connect a BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example



Network Convertor for LONWORKS®

UTY-VLGX



Max. Controllable  
**4** units to BMS

Max. Controllable  
**100** outdoor units

Max. Controllable  
**128** indoor units

Specifications

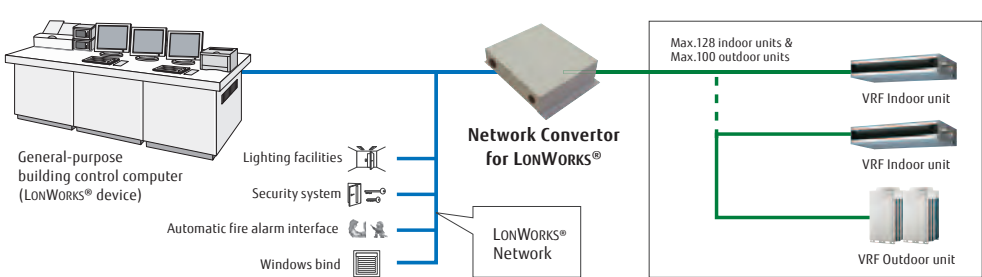
Model name	UTY-VLGX
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

- For connection between VRF network system and a **LONWORKS®** open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a **LONWORKS®** interface.
- Up to 128 Indoor units can be connected to one Network Convertor for **LONWORKS®**

Installation example





# MODBUS® Convertor for Indoor Unit

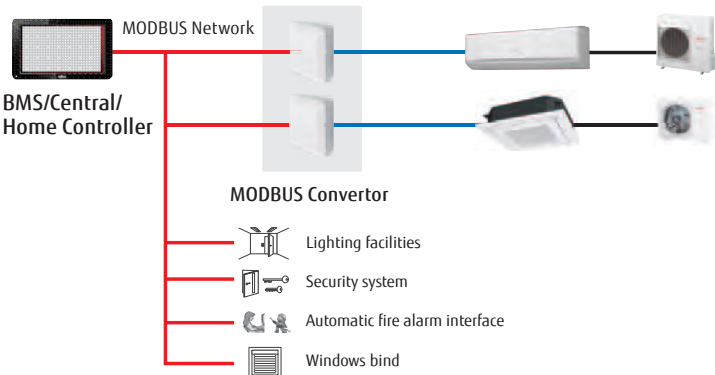
UTY-VMSX



Max. Connectable  
1 Single indoor unit

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Convertor must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.

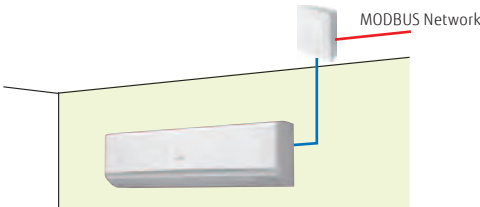


## Basic control

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

## Easy Installation

Flexible installation locations with neat wirings are feasible since no power supply cable is used in the convertor.



### Specifications

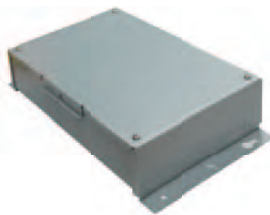
Model name	UTY-VMSX
Power supply	DC 12 V
Input Power (W)	Max. 1.2
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	200
Maximum Connectable indoor unit number per 1 MODBUS Convertor	1

### Modbus communication specifications

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

# MODBUS® Convertor

UTY-VMGX



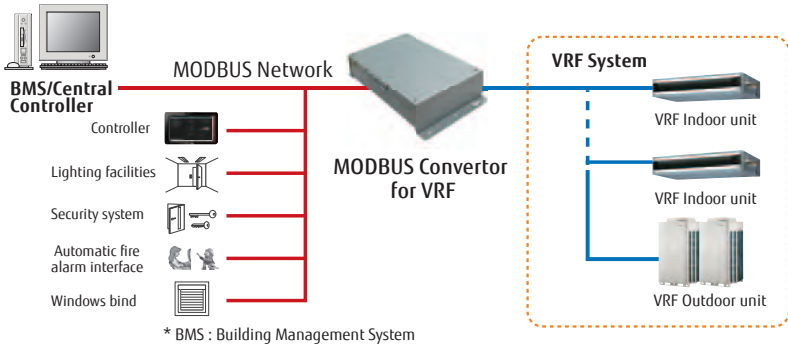
Max. Controllable  
9 units to one VRF

Max. Controllable  
100 outdoor units

Selectable  
128 indoor units

The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 converters can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.



# MODBUS® Interface

FJ-RC-MBS-1

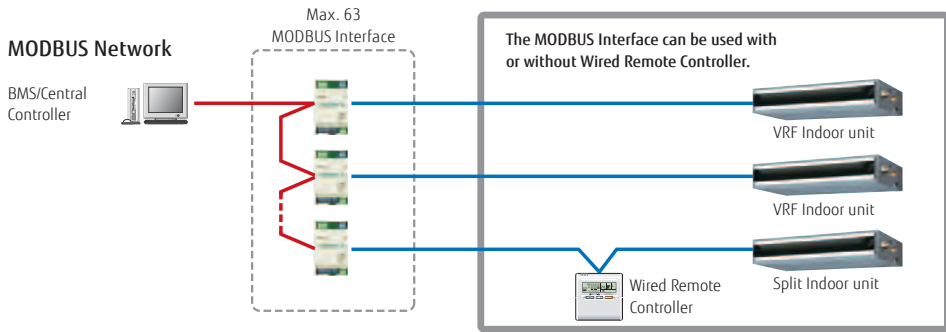


Max. Connectable  
1 Single indoor unit

Max. Controllable  
1 Group

The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

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



### Specifications

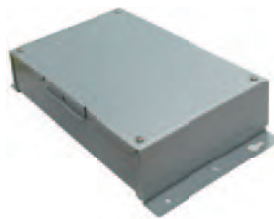
Model name	UTY-VMGX
Power Supply	220-240 V 50/60 Hz
Input power (W)	Max. 2
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,100

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

## PRODUCT LINEUP: CONTROL SYSTEM-CONVERTOR/ADAPTOR

### KNX® Convertor for VRF

UTY-VKGX

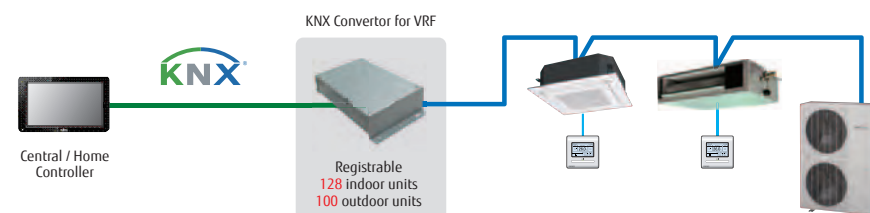


Max. Controllable  
**100** outdoor units

Selectable  
**128** indoor units

#### KNX Convertor is useful for centralized control in a system.

- New KNX Convertor enables to connect central/home controller and FG VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor.



### KNX® Convertor for Indoor Unit

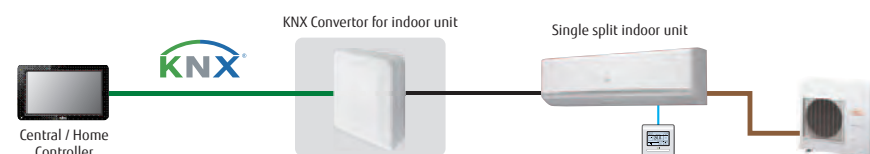
UTY-VKSX



Max. Connectable  
**1** Single indoor unit

#### KNX Convertor is useful for individual control of indoor.

- New KNX Convertor enables to connect central/home controller and FG indoor unit.
- Compact and light weight design



### KNX® Interface

FJ-RC-KNX-1i

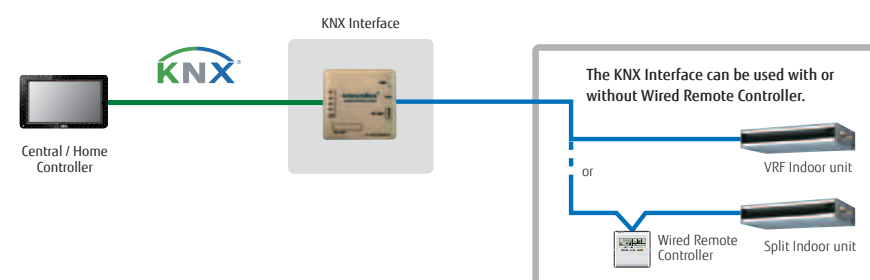


Max. Connectable  
**1** Single indoor unit

Max. Controllable  
**1** Group

#### The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

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



#### Specifications

Model name	UTY-VKGX	UTY-VKSX	FJ-RC-KNX-1i
Power supply	220-240 V 50/60 Hz	(DC 12 V)	
Power consumption (W)	1.5	0.6	
Dimensions (H × W × D) (mm)	54 × 260 × 150	140 × 117 × 43	70 × 70 × 28
Weight (g)	1,200	215	70

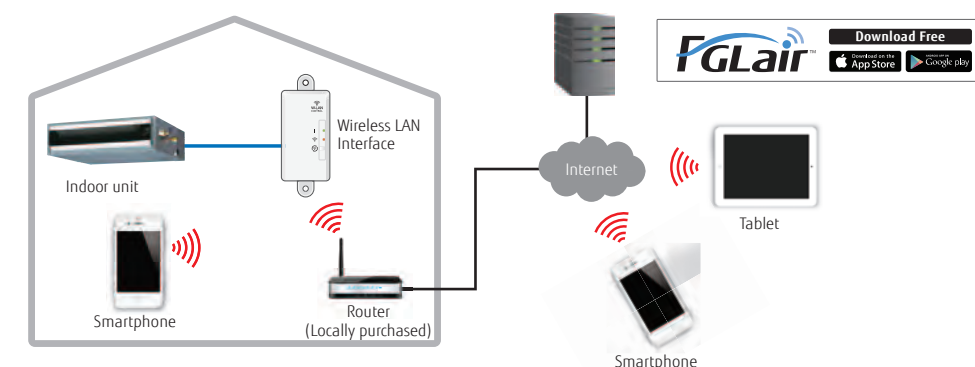
### Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1



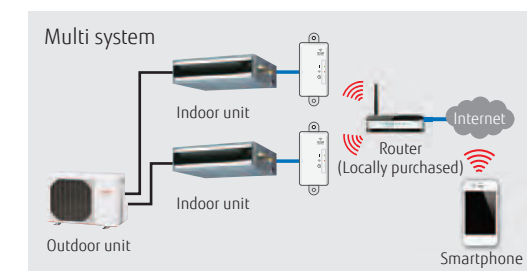
Max. Connectable  
**1** Single indoor unit

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



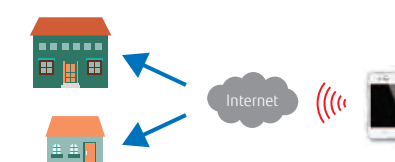
#### Basic control

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



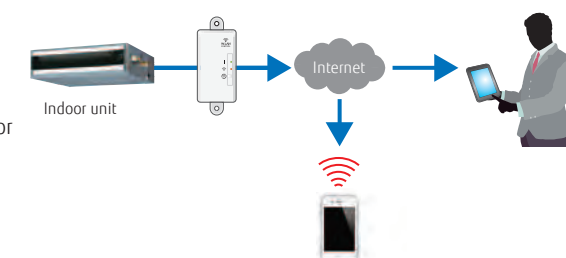
#### Multiple air conditioning management

- Multiple air conditioning management at difference locations.



#### Error display & E-mail notification

- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.



#### Specifications

Model name	UTY-TFNXZ1 / UTY-TFSXZ1	UTY-TFSXW1
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15
Weight (g)	35	35

# Wireless LAN Interface

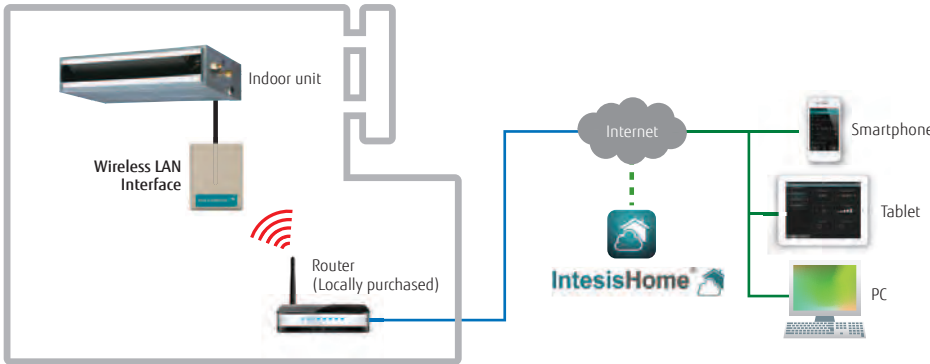
FJ-RC-WIFI-1



Max. Connectable  
1 Single indoor unit  
Max. Controllable  
1 Group



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



## Basic control

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



(Application screen image)

## Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedule functions (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

## Notifications and history

- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

### Specifications

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

# External Switch Controller

UTY-TERX



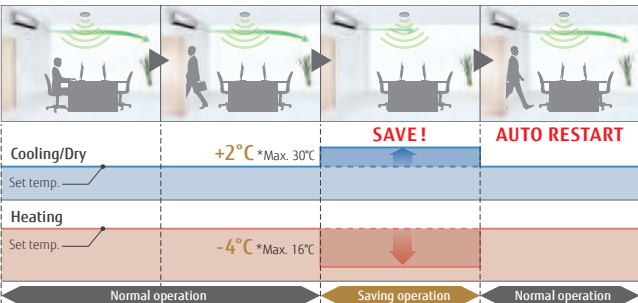
Max. Controllable  
1 group

## Air conditioner switching can be controlled by connecting other sensor switches

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

## Installation example

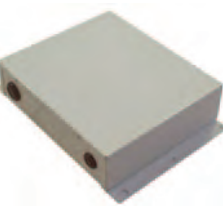
Human sensor catches movements of people in a room, and operates with lower capacity when people come back to the room, it automatically returns to previous operation mode.



Human sensor equipment needs to be purchased locally. Human sensor is not mounted on the External Switch Controller.

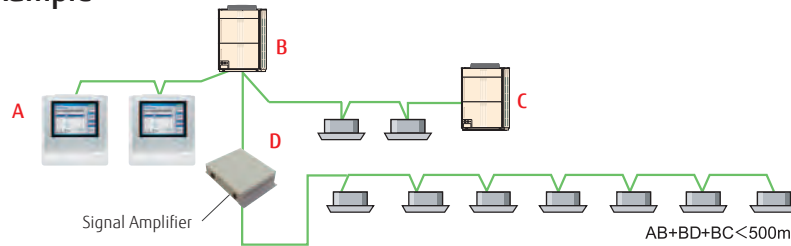
# Signal Amplifier

UTY-VSGXZ1



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

## Installation example



### Specifications

Model name	UTY-TERX
Power Supply	DC 6.5-16 V
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	250

DC 12 V is supplied by the indoor unit.

Model name	UTY-VSGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

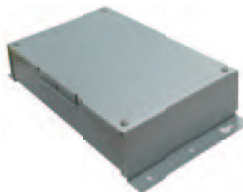


# Network Convertor for Single Split

UTY-VTGX / UTY-VTGXV



UTY-VTGX  
DC power supply type



UTY-VTGXV  
AC power supply type

Max. Controllable  
**16**  
single indoor units

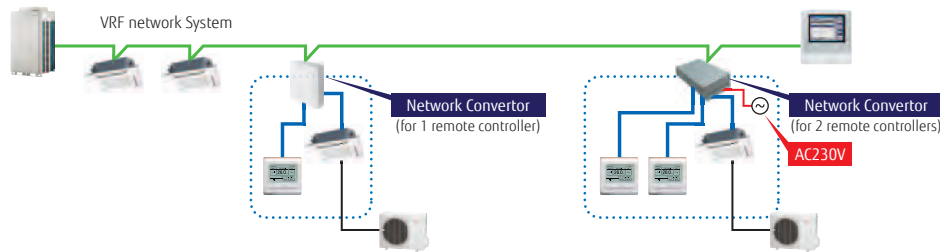
Max. Controllable  
**1** Group

Max. Controllable  
**100**  
Network Convertors

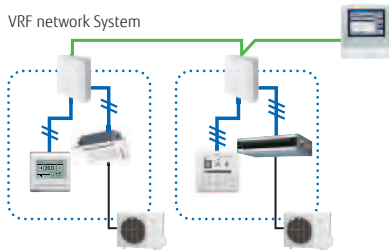
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

## Installation example.

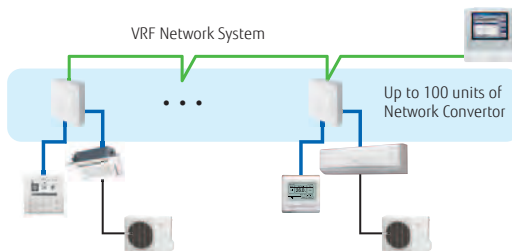
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



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

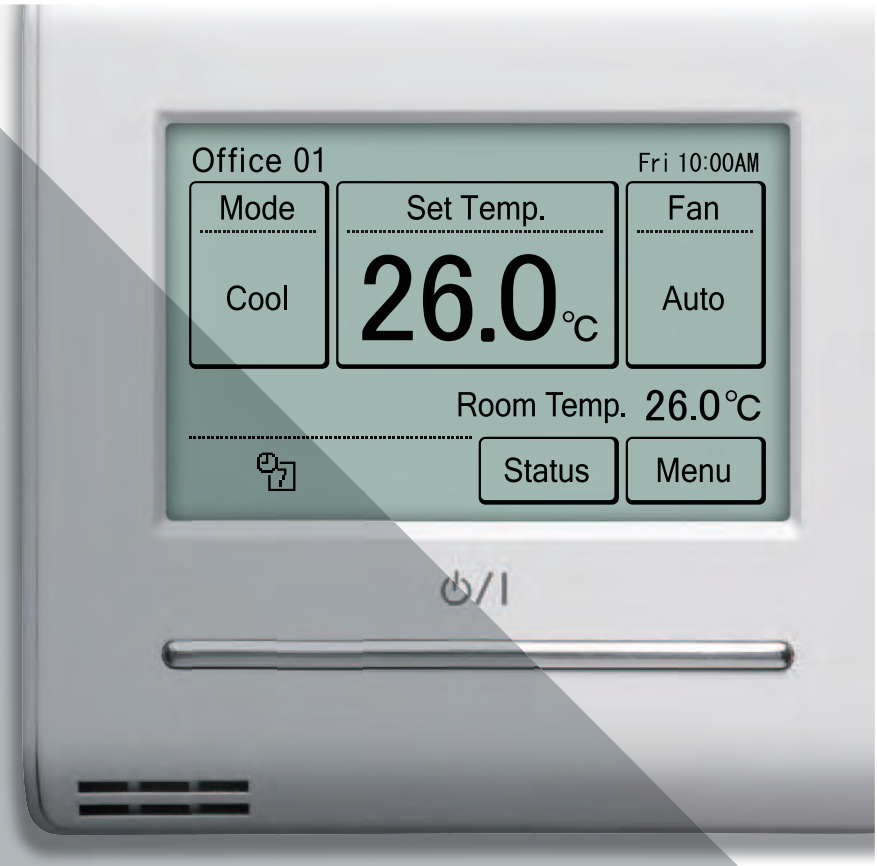


- A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)



## Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	220-240 V 50/60 Hz
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100








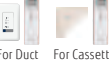









# CONTROL SYSTEM LIST

For SPLIT & MULTI SPLIT  
For VRF



















CONTROL SYSTEM LIST for SPLIT/MULTI SPLIT



Type		Indoor unit											Indoor unit											Outdoor unit	Other		
		Wall Mounted										Cassette			Duct								Floor	Floor/Ceiling	Ceiling	Single Phase	Branch Box (8 Rooms Multi)
		Flagship Range	Designer Range	Standard Range	ECO Range	Designer Range		Standard Range			ECO Range	4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big	5-6 Rooms Multi						
		ASYG 09/12KXCA	ASYG 07/09/12/14 KGTA	ASYG 07/09/12/14 KMTA	ASYG 18/24KLCA	ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE	AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG18LVTB, ABYG24LVTA	ABYG 30/36 LRTE, ABYG 36/45/54 LRTA	AOYG36LBLA5 AOYG45LBLA6	UTP-PY03A UTP-PY02A		
Controllers	Wired Remote Controller		● UTY-RNRYZ2+ UTY-TWRXZ2							● UTY-RNRYZ2+ UTY-TWRX			● UTY-RNRYZ2		● UTY-RNRYZ2		● UTY-RNRYZ2			● UTY-RNRYZ2							
			● UTY-RLRY+ UTY-TWRXZ2								● UTY-RLRY+ UTY-TWRX			● UTY-RLRY		● UTY-RLRY					● UTY-RLRY						
							● UTY-RVNYM+ UTY-TWBXF		● UTY-RVNYM+ UTY-XCBXZ2	● UTY-RVNYM	● UTY-RVNYM+ UTY-XWNX		● UTY-RVNYM	● UTY-RVNYM													
					● UTY-RNNYM+ UTY-TWBXF		● UTY-RNNYM+ UTY-TWBXF		● UTY-RNNYM+ UTY-XCBXZ2	● UTY-RNNYM	● UTY-RNNYM+ UTY-XWNX		● UTY-RNNYM	● UTY-RNNYM													
	Simple Remote Controller	 2-wire type   3-wire type	● UTY-RSRY, UTY-RHRY	● UTY-RSNYM+ UTY-TWBXF			● UTY-RSNYM+ UTY-TWBXF		● UTY-RSNYM+ UTY-XCBXZ2	● UTY-RSNYM	● UTY-RSNYM+ UTY-XWNX, UTY-RSRY UTY-RHRY+ UTY-XWRX		● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSNYM						
		Central Remote Controller																							● UTY-DMMYM		
	IR Receiver Unit with Wireless Remote Controller		 For Duct   For Cassette												● UTY-LRHYZ		● UTY-LRHYM		● UTY-LRHYM	● UTY-LRHYM (60 only)	● UTY-LRHYM						
		 For Duct   For Cassette												● UTY-LBTYC		● UTY-LBTYM		● UTY-LBTYM		● UTY-LBTYM							
Interface	MODBUS Convertor		● UTY-VMSX							● UTY-VMSX			● UTY-VMSX		● UTY-VMSX		● UTY-VMSX			● UTY-VMSX							
	MODBUS Interface					● FJ-RC-MBS-1						● FJ-RC-MBS-1															
	KNX Convertor		● UTY-VKSX							● UTY-VKSX			● UTY-VKSX		● UTY-VKSX		● UTY-VKSX			● UTY-VKSX							
	KNX Interface					● FJ-RC-KNX-1i ● FJ-RC-KNX-1i						● FJ-RC-KNX-1i															
	Wireless LAN Interface		● UTY-TFSXW1			● UTY-TFNXZ1						● UTY-TFNXZ1	● UTY-TFNXZ1	● UTY-TFSXZ1	● UTY-TFNXZ1				● UTY-TFSXZ1	● UTY-TFNXZ1							
						● FJ-RC-WIFI-1						● FJ-RC-WIFI-1															
	External Switch Controller		● UTY-TERX			● UTY-TERX						● UTY-TERX															

CONTROL SYSTEM LIST for VRF



Type		Indoor unit																			
		Cassette					Duct				Duct	Floor		Ceiling/ Floor	Ceiling	Wall Mounted					
		Compact Grid type /Standard type	4-way (Slim)	4-way (Large)	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	High Static Pressure	—	EEV external			—	EEV external	—	EEV external	—	—
		AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXM 018/024/030 GLAH	AUXK 018/024/030/ 034/036/045/054 GLAH	ARXK 04/07/09/ 12/14/18/24 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH	ARXC 72/90GBTH, ARXC 96GATH	AGYA 004/007/ 009/012/014 GCAH	AGYE 004/007/ 009/012/014 GCAH	ABYA 12/14/18/24 GATH	ABYA 30/36/45/54 GATH	ASYA 004/007/009 GTAH	ASYE 004/007/009 GTAH	ASYA 012/014GCAH	ASYE 012/014GCAH	ASYA 18/24GBCH	ASYA 030/034GTAH
Controllers	Wired Remote Controller		● UTY-RNRYZ2																		
			● UTY-RLRY																		
	Simple Remote Controller	 2-wire type  3-wire type	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY																		
	Wireless Remote Controller		● UTY-LNHY																		
	Group Remote Controller		● UTY-CGGY + UTY-VGGXZ1																		
	Central Remote Controller		● UTY-DCGY																		
	Touch Panel Controller		● UTY-DTGYZ1																		
	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1																		
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX																		
	Network Convertor for LonWorks		● UTY-VLGX																		
	MODBUS Convertor		● UTY-VMGX																		
MODBUS Interface		● FJ-RC-MBS-1					● FJ-RC-MBS-1				● FJ-RC-MBS-1			● FJ-RC-MBS-1						● FJ-RC-MBS-1	
KNX Convertor		● UTY-VKGX																			
KNX Interface		● FJ-RC-KNX-1i					● FJ-RC-KNX-1i				● FJ-RC-KNX-1i			● FJ-RC-KNX-1i						● FJ-RC-KNX-1i	
Wireless LAN Interface					● UTY-TFSXZ1							● UTY-TFSXZ1				● UTY-TFSXZ1					● UTY-TFSXZ1
		● FJ-RC-WIFI-1					● FJ-RC-WIFI-1				● FJ-RC-WIFI-1			● FJ-RC-WIFI-1						● FJ-RC-WIFI-1	
External Switch Controller		● UTY-TERX																			



# OPTIONAL PARTS OVERVIEW

for SPLIT & MULTI SPLIT, VRF

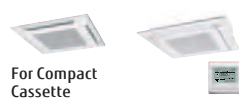
Various optional parts are provided to install the selected indoor unit properly according to the environment.

## Optional Parts For Cassette



### Human Sensor Kit

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



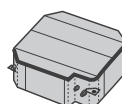
### Cassette Grille

Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.



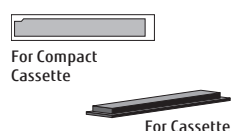
### Fresh Air Intake Kit

Fresh air can be taken in by a fan which can be connected using external control unit.



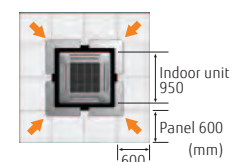
### Insulation for High Humidity

For Compact Cassette type/ Cassette type  
Insulation for High Humidity is used when the installation location is in the high humidity environment.



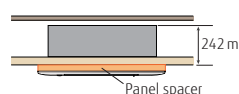
### Air Outlet Shutter Plate

According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.



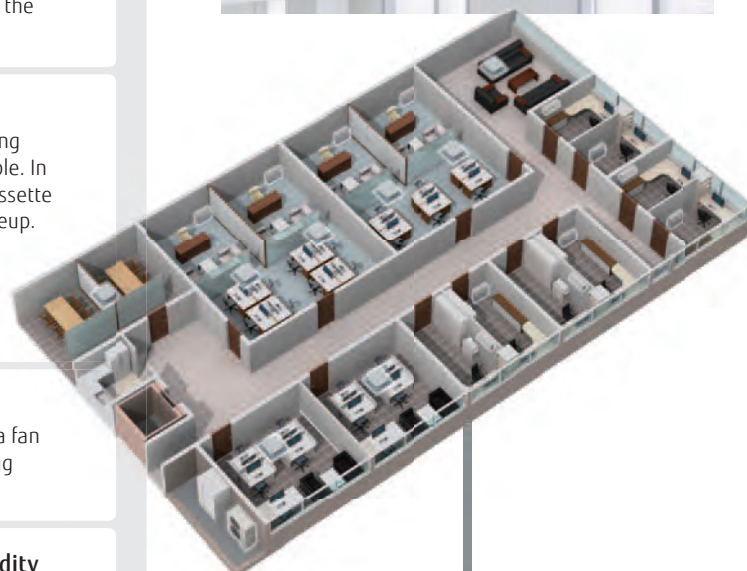
### Wide Panel

When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.



### Panel Spacer

When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration

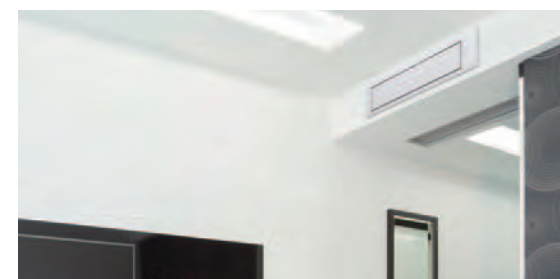


## Optional Parts For Floor



### Half Concealed Kit

This kit is used to half conceal floor type indoor unit into the wall.



## Optional Parts For Duct & Ceiling



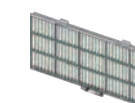
### Auto Louver Grille Kit

Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior



### Remote Sensor Unit

New amenity space can be offered by installing the Remote sensor.



### Long Life Filter

Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.



### Flange

Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.



### Drain Pump Unit

This device can drain the collected water during operation.



## Connection Parts



For Wall Mounted type

### Communication Kit

For wall mounted type, this kit is required when External Connect kit & Set or wired remote controller is connected to indoor unit.



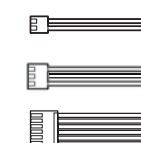
For Wall Mounted type

### External Input and Output PCB

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



For Duct and Cassette type



### External Connect Kit & Set

These wires can connect between the product PCB and external device.



### Connection Units

Connection units are provided to separate the pipes at the connection of multiple indoor units in Multi type or VRF system.



### External Input and Output PCB Box & Bracket

These are the box and bracket for installing the External input and output PCB

Auto Louver Grille Kit

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

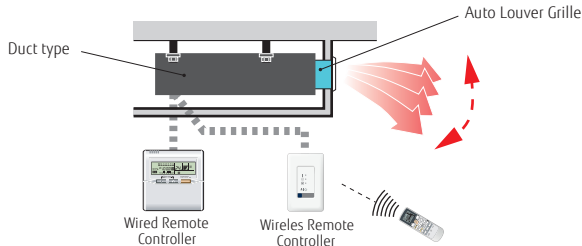


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

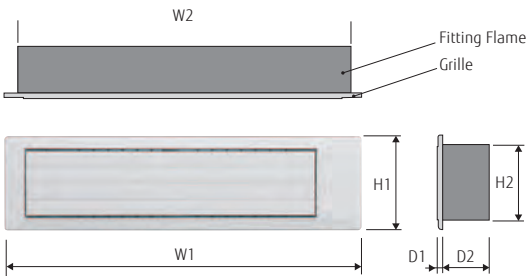


Flexible Control

- **Operation with indoor unit**  
Auto Louver can be operated by synchronizing remote controller of indoor unit.
- **UP and Down auto swing**
  - Auto airflow direction and auto swing
  - 4 steps selectable
- **Auto-closing louver**  
When operation of indoor unit is stopped, the louver will automatically close.



Dimensions



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

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD04/07/09/12/14GALH (For VRF) ARXK07/09/12/14GCLH (For VRF)	ARYG18LLTB ARXD18GALH (For VRF) ARXK18GCLH (For VRF)	ARXD24GALH (For VRF) ARXK24GCLH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louver Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×883×(84+9)	180×1083×(84+9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operation range	Cooling	°C	18 to 32		
		% RH	80% or less		
	Heating	°C	16 to 30		







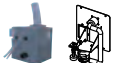


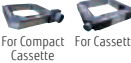



OPTIONAL PARTS LIST

For SPLIT & MULTI SPLIT  
For VRF  
FUNCTION LIST  
SEPARATION TUBE etc.



OPTIONAL PARTS LIST for SPLIT/MULTI SPLIT

















		Indoor unit										Floor	Ceiling
		Cassette			Duct								
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big			
		AUYG 12/14/18 LVLB, AUYG 24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRL, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 30/36LRT, ABYG 36/45/54 LRTA	
Human Sensor Kit			● UTY-SHZXC										
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.				● UTY-XSZX								
Cassette Grille	 UTG-UFYD-W UTG-UGYA-W UTG-UKYA-W UTG-UKYC-W UTG-UKYA-B	● UTG-UFYD-W	● UTG-UKYA-W UTG-UKYC-W UTG-UKYA-B	● UTG-UGYA-W									
Auto Louver Grille Kit					● UTD-GXTA-W (12/14) UTD-GXTB-W (18)								
Long Life Filter							● UTD-LFNA UTD-LFNB UTD-LFNC	● UTD-LF25NA	● UTD-LF60KA (45/54)	● UTD-LFKA			
Flange								● UTD-SF045T UTD-RF204				● UTD-RF204	
Drain Pump Unit								● UTZ-PX1NBA		● UTZ-PX1NAB		● UTR-DPB24T	
Wide Panel	 Indoor unit Panel 600 (mm)		● UTG-AKXA-W										
Panel Spacer	 2x2 mm Panel spacer		● UTG-BKXA-W										
Fresh Air Intake Kit	 For Compact Cassette For Cassette	● UTZ-VXAA	● UTZ-VXRA										
Air Outlet Shutter Plate	 For Compact Cassette For Cassette	● UTR-YDZB	● UTR-YDZK										
Insulation for High Humidity	 For Compact Cassette type/ Cassette type	● UTZ-KXGC	● UTZ-KXRA										
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.										● UTR-STA		

• There are no optional parts for Floor/Ceiling type and Wall Mounted type.

OPTIONAL PARTS LIST for VRF



		Indoor unit												Ceiling
		Cassette					Duct					Floor		
		Compact Grid type / Standard type	4-way (Slim)	4-way (Large)	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure		—	EEV external	
		AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXM 018/024/030 GLAH	AUXK 018/024/030/ 034/036/045/ 054GLAH	ARXK 04/07/09/ 12/14/18/24 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH	ARXC 72/90GBTH, ARXC 96GATH	AGYA 004/007/ 009/012/014 GCAH	AGYE 004/007/ 009/012/014 GCAH	ABYA 30/36/45/54 GATH
IR Receiver Unit			● UTY-LRHYB1		● UTY-LBHXD		● UTB-YWC							
Human Sensor Kit					● UTY-SHZXC									
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.						● UTY-XSZX							
Cassette Grille	 UTG-UFYE-W UTG-UFYC-W UTG-UKYC-W UTG-UKYA-B	● UTG-UFYE-W UTG-UFYC-W			● UTG-UKYC-W UTG-UKYA-B									
Auto Louver Grille Kit							● UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24)							
Long Life Filter									● UTD-LF25NA	● UTD-LF60KA				
Flange									● UTD-SF045T UTD-RF204					● UTD-RF204
Drain Pump Unit									● UTZ-PX1NBA					● UTR-DPB24T
Wide Panel	 Indoor unit 950 Panel 600 1000 (mm)		● UTG-AKXA-W											
Panel Spacer	 2x2 mm Panel spacer		● UTG-BKXA-W											
Fresh Air Intake Kit *1	 For Compact Cassette For Cassette	● UTZ-VXAA	● UTZ-VXRA											
Air Outlet Shutter Plate	 For Compact Cassette For Cassette	● UTR-YDZB	● UTR-YDZK											
Insulation for High Humidity	 For Compact Cassette type/ Cassette type	● UTZ-KXGC	● UTZ-KXRA											
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.											● UTR-STA		

• There are no optional parts for Floor/Ceiling type and Wall Mounted type.



FUNCTION LIST for SPLIT/MULTI SPLIT



External Input and Output Function/External Connect Kit/Communication Kit

		Indoor unit													Indoor unit										Outdoor unit						
		Wall Mounted								Cassette					Duct					Floor	Floor/Ceiling	Ceiling	Single Split		Single Phase	Simultaneous Multi					
		Flagship Range	Designer Range	Standard Range	ECO Range	Designer Range		Standard Range		ECO Range	4-way Flow Compact	Circular Flow	4-way Flow		Mini	Slim	Medium Static Pressure		High Static Pressure						Big						
																							8 Rooms Multi								
		ASYG 09/12KXCA	ASYG 07/09/12/14 KGTA	ASYG 07/09/12/14 KMTA	ASYG 18/24KLCA	ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE	AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUYG 30/36/LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARY36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG18LVTB, ABYG24LVTB	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	AOYG 36/45/54/60 LATT	AOYG 45/54LBTA, AOYG 72/90LHTA	AOYG45LBTB	AOYG 36/45LBTB	AOYG 36/45/54 LATT			
Input	Operation/Stop		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF1+ UTY-XWZXZ5		● UTY-XWZXZ5 + UTY-TWBXF1		● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX		● UTY-XWZX	● PCB Terminal or ● UTY-XCSX + UTY-GXRA	● UTY-XWZX		● PCB Terminal	● UTD-ECSSA	● PCB Terminal or ● UTY-XCSX + UTY-GXNA	● UTD-ECSSA	● UTD-ECSSA	● PCB Terminal or ● UTY-XCSX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX								
	Batch Stop																								● UTY-XWZXZ3						
	Forced Stop		● UTY-XCSXZ1+ UTY-XWZX			● UTY-XWZXZ5 + UTY-TWBXF1		● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX		● UTY-XWZX	● PCB Terminal	● UTY-XWZX		● PCB Terminal	● UTD-ECSSA	● PCB Terminal	● UTD-ECSSA	● UTD-ECSSA	● PCB Terminal	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX								
	Emergency Stop																								● UTY-XWZXZ3						
	Forced Thermostat off									●○ UTY-XWZX + UTY-XCSXZ1 + UTY-GXXB		●○ UTY-XCSX + UTY-GXRA					● UTY-XCSX		● UTD-ECSSA	● UTY-XCSX											
	Low Noise Mode Operation																							● UTY-XWZXZ2	● UTY-XWZXZ3	● UTY-XWZXZ3	● UTY-XWZXZ3	○ UTY-XWZXZ2			
	Cooling / Heating Priority																								● UTY-XWZXZ3						
Outdoor Unit Operation Peak Control																								● UTY-XWZXZ2	● UTY-XWZXZ3	● UTY-XWZXZ3	● UTY-XWZXZ3	○ UTY-XWZXZ2			
Output	Operation Status		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF1+ UTY-XWZXZ5		○ UTY-XWZXZ5 + UTY-TWBXF1		○ UTY-XWZXZ5+ UTY-XCBXZ2	○ UTY-XWZX		○ UTY-XWZX	● UTY-XWZXZG or ○UTY-XCSX + UTY-GXRA	○ UTY-XWZX		● UTY-XWZXZG	○ UTD-ECSSA	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA	○ UTD-ECSSA	○ UTD-ECSSA	● UTY-XWZXZG or UTY-XCSX	○ UTY-XWZX	○ UTY-XWZX	○ UTY-XWZX								
	Error Status		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF1+ UTY-XWZXZ5		○ UTY-XWZXZ5 + UTY-TWBXF1		○ UTY-XWZXZ5+ UTY-XCBXZ2		● UTY-XWZXZ1 + UTY-XCSXZ1 + UTY-GXXB		● UTY-XWZXZG or ○UTY-XCSX + UTY-GXRA			● UTY-XWZXZG		● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA							● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3	○ UTY-XWZXZ3	○ UTY-XWZXZ2			
	Compressor status		● UTY-XCSXZ1+ UTY-XWZX																						● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3	○ UTY-XWZXZ3	○ UTY-XWZXZ2		
	Indoor Unit Fun Operation Status									● UTY-XWZXZ1 + UTY-XCSXZ1 + UTY-GXXB		● UTZ-VXAA*1	● UTY-XWZXZG or ○UTY-XCSX + UTY-GXRA	● UTZ-VXGA*1		● UTY-XWZXZG	● UTD-ECSSA	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA	● UTD-ECSSA	● UTD-ECSSA	● UTY-XWZXZG or UTY-XCSX			● UTD-ECSSA							
	Set point attainment status									● UTY-XWZX*2																					
	Auxiliary Heater Output											● UTY-XWZXZG or ○UTY-XCSX + UTY-GXRA			● UTY-XWZXZG	● UTD-ECSSA	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA	● UTD-ECSSA	● UTD-ECSSA	● UTY-XWZXZG or UTY-XCSX											
	Base Heater																									● UTY-XWZXZ4					

\*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) \*2: This function is for installing at server room. ●: Dry Contact ○: Apply Voltage

For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

Communication Kit

UTY-TWBXF1/UTY-XCBXZ2    UTY-TWRX    UTY-TWNX

External input and output PCB

UTY-XCSXZ1 for Wall Mounted type and UTY-XCSX for Duct and Cassette type

External input and output PCB Box

UTZ-GXXB    UTZ-GXRA    UTZ-GXNA

Communication system

External Connect Kit

For Indoor Unit

UTY-XWZX    UTY-XWZXZ5    UTY-XWZXZG

For Outdoor Unit

UTY-XWZXZ2    UTY-XWZXZ3    UTY-XWZXZ4

External Control Set

For Indoor unit

UTD-ECS5A

FUNCTION LIST for VRF



External Input and Output Function/External Connect Kit

		Indoor unit								Indoor unit				Outdoor unit						Controller		Other									
		Cassette			Duct			Floor		Wall Mounted				J-III L	J-III	J-III S	V-III	V-III Tropical	VR-II	Central Remote Controller	Touch Panel Controller	RB Unit									
		Compact Grid type / Standard type	4-way	Circular Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	—	EEV external	Floor / Ceiling		—										EEV external	—							
		AUXB 04GBLH, AUXB 07/09/12/14/18/24 GALH	AUXD 18/24GALH, AUXA 18/24/30/34/36/45/54 GALH	AUXM 018/024/030 GLAH, AUXK 018/024/030/034/036/045/054GLAH	ARXK 04/07/09/12/14/18/24 GCLH	ARXD 04/07/09/12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH, ARXC 72/90GBTH, ARXC 96GATH	AGYA 004/007/009/012/014 GCAH	AGYE 004/007/009/012/014 GCAH	ABYA 12/14/18/24 GATH	ABYA 30/36/45/54 GATH	ASYA 004/007/009 GTAH, ASYA 012/014GCAH	ASYE 004/007/009 GTAH, ASYE 012/014GCAH	ASYA 18/24GBCH	ASYA 030/034GTAH	AJG 072/090/108/126/144 LELAH	AJY 040/045/054 LBLAH, AJY 040/045/054 LELAH	AJY 040/045/054 LCLAH	AJY 072/090/108/126/144/162 LNLBH	AJY 072/090/108/126/144/162 LALBH	AJYA 072/090/108/126/144 GALH	UTY-DCGY	UTY-DTGYZ1	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH						
Input	Operation / Stop	● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB													
	All On / All Off																						●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2							
	Batch Stop																● UTY-XWZXZ6														
	Forced Stop	● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB													
	Emergency Stop	● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB				● UTY-XWZXZ6						●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2		
	Forced Thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7																● UTY-XWZXZE ○ UTY-XWZXZ7													
	Low Noise Mode Operation																● UTY-XWZXZ6														
	Cooling/ Heating Priority																● UTY-XWZXZ6								●UTY-XWZXZ6 ○UTY-XWZXZB						
	Outdoor Unit Operation Peak Control																● UTY-XWZXZ6														
Power Usage Information from Electricity Meter																● UTY-XWZXZF							●*2 ○*2								
Output	Operation Status	● UTY-XWZXZC																● UTY-XWZXZC				○ UTY-XWZXZ6						○ UTY-XWZXZA			
	Error Status	● UTY-XWZXZC																● UTY-XWZXZC				○ UTY-XWZXZ6						○ UTY-XWZXZA			
	Indoor Unit Fun Operation Status	● UTY-XWZXZC																● UTY-XWZXZC													
	Auxiliary Heater Output				● UTY-XWZXZC																										
	Base Heater																	● UTY-XWZXZ9		● UTY-XWZXZ9											

\*2: Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry Contact   ○: Apply Voltage

Communication system

External Connect Kit

For Indoor unit

UTY-XWZXZ7

UTY-XWZXZB

UTY-XWZXZC

UTY-XWZXZD

UTY-XWZXZE

For Outdoor unit

UTY-XWZXZ6

UTY-XWZXZ9

UTY-XWZXZF

For RB unit

UTY-XWZXZ6

UTY-XWZXZB

For Central Remote Controller

UTY-XWZXZ7

UTY-XWZXZ8

UTY-XWZXZA

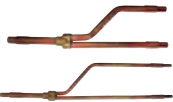

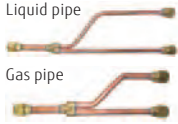
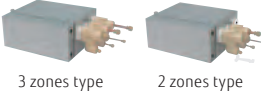
For Touch Panel Controller

UTY-XWZXZA

SEPARATION TUBE etc.

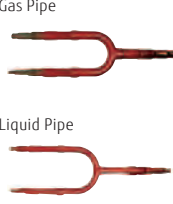
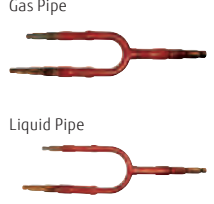
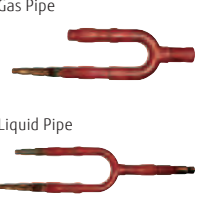
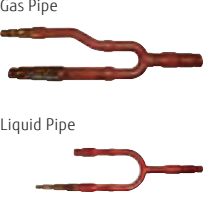
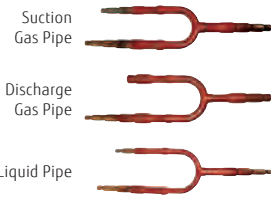
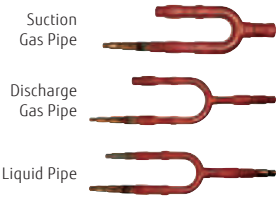
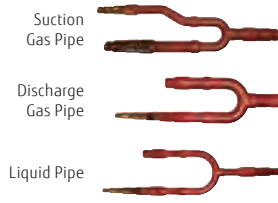



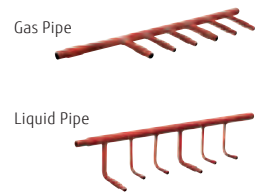
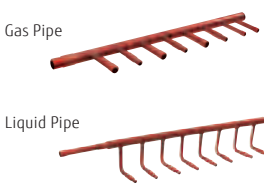
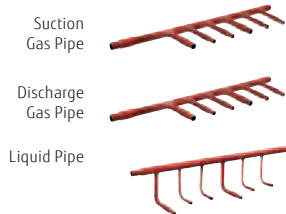
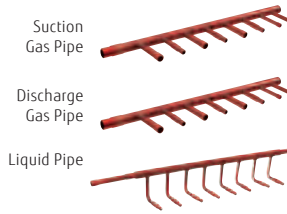
For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

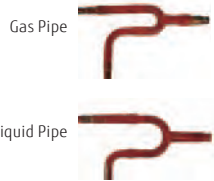
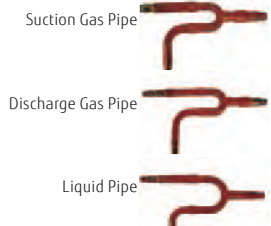
Separation Tube			Branch Box
UTP-SX236A / UTP-SX254A For 3-phase Simultaneous Multi  UTP-SX272A For Simultaneous Multi Twin / Triple / Double Twin 	UTP-SX354A For 3-phase Simultaneous Multi  UTP-SX372A For Simultaneous Multi Twin / Triple / Double Twin 	UTP-SX248A For 8 Rooms Multi  	UTP-PY03A UTP-PY02A For 8 Rooms Multi  



For VRF

Separation Tube			
UTP-AX054A  	UTP-AX090A  	UTP-AX180A  	UTP-AX567A  
UTP-BX090A  	UTP-BX180A  	UTP-BX567A  	UTP-LX180A For DX-Kit 

Header			
UTR-H0906L / UTR-H1806L  	UTR-H0908L / UTR-H1808L  	UTR-J0906A / UTR-J1806A  	UTR-J0908A / UTR-J1808A  

Outdoor Unit Branch Kit	
UTP-CX567A  	UTP-DX567A  



For VRF

EV Kit	RB Unit	
Model code ≤ 09 : UTR-EV09XB Model code ≥ 12 : UTR-EV14XB For Compact Wall Mounted type  	UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type  	UTP-RX04BH Multi 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-II/V-III/V-III Tropical)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1
	3 outdoor units	2

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASYE004GTAH ASYE007GTAH ASYE009GTAH	AGYE004GCAH AGYE007GCAH AGYE009GCAH	ASYE12GACH ASYE14GACH	AGYE012GCAH AGYE014GCAH

RB Unit

Type		Single type			Multi type
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz	230/ 1 / 50			
Input power	W	17	24	31	96
Number of branches		1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 56.1*1
Maximum capacity of connectable indoor units per branch (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 18.0
Maximum number of connectable indoor units per branch		3	8	8	8
Dimensions (H×W×D)	mm	198×298×268			260×658×428

\*1: In case of two RB units connected in series ( total 8-branches ), maximum capacity of connectable indoor units is up to 56.0 kW.