

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



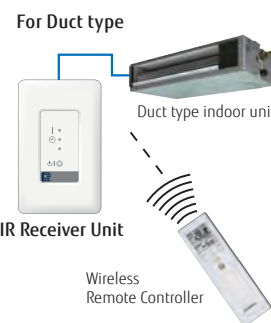
**Wired Remote Controller**  
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



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

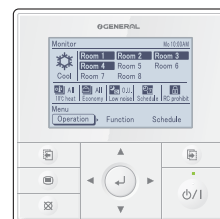


**Simple Remote Controller**  
Compact remote controller provides access to basic functions



**IR Receiver Unit**  
Necessary to control for all duct type by Wireless Remote Controller

## Air Conditioning Centralized Control



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

## 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-li



## 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.

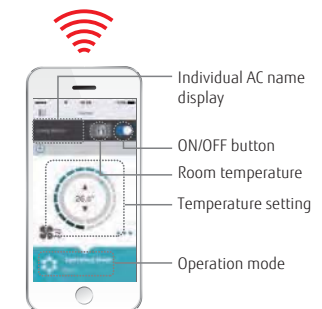


**Wireless LAN Interface**  
The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.



### 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-RNRGZ2
- Wired Remote Controller**  
UTY-RLRG
- Simple Remote Controller**  
UTY-RSRG  
UTY-RHRG  
Without operation mode
- Wireless Remote Controller**  
UTY-LNHG
- IR Receiver Unit**  
UTB-YWC For Duct type  
UTY-LRHGB1 For Cassette type

### Air Conditioning Centralized Control

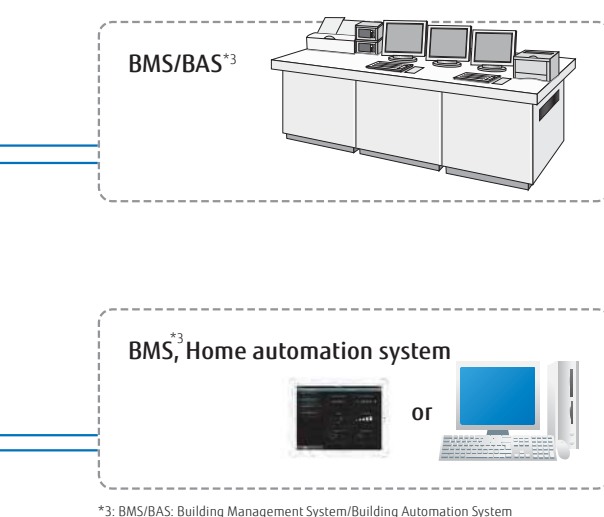
Remote/Monitoring side

- System Controller (Software)**  
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)  
Max. Controllable **1600** indoor units<sup>\*2</sup>
- Touch Panel Controller**  
UTY-DTGGZ1  
Max. Controllable **400** indoor units
- Central Remote Controller**  
UTY-DCGG  
Max. Controllable **100** indoor units
- Group Remote Controller**  
UTY-CGGG  
Max. Controllable **8** Remote Controller Groups
- Network Converter (For Group Remote Controller)**  
UTY-VGGXZ1

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

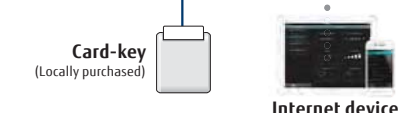
### Convertor/Adaptor For external control via BMS/ Home automation Systems

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



### 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 UTY-RNRGZ2, UTY-RLRG, UTY-RVNGM	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller UTY-APGXZ1, UTY-ALGXZ1	Network Converter for LONWORKS® UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® Converter 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 UTY-RNRGZ2, UTY-RLRG, UTY-RVNGM	Simple Remote Controller UTY-RSRG, UTY-RHRG, UTY-RSNGM	Wireless Remote Controller UTY-LNHG	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller UTY-APGXZ1, UTY-ALGXZ1	BACnet® Gateway UTY-ABGXZ1, UTY-VBGX	Network Converter for LONWORKS® UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® Converter UTY-VKGX	External Switch Controller UTY-TERX
Local control for hotel 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 UTY-RNRGZ2, UTY-RLRG	Simple Remote Controller UTY-RSRG, UTY-RHRG, UTY-RSNGM	Wireless Remote Controller UTY-LNHG	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller UTY-APGXZ1, UTY-ALGXZ1	BACnet® Gateway UTY-ABGXZ1, UTY-VBGX	Network Converter for LONWORKS® UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® Converter UTY-VKGX	External Switch Controller UTY-TERX
Local control for office staff	•	•	•	•	•							
Automatic control of 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-RNRGZ2	UTY-RLRG	UTY-RVNGM	UTY-RSNGM	UTY-RSRG	UTY-RHRG	UTY-LNHG	UTY-DMMGM	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	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	Week	Week	Week	-	-	-	Week	Week	Week	Year	Year
On/off timer		8	4	8	-	-	-	4	4	20	20	144	144
Sleep timer		●	●	●	-	-	-	-	-	-	-	-	-
Program timer		-	-	-	-	-	-	●	-	-	-	-	-
Auto off timer		●	●	●	-	-	-	-	-	-	●	-	-
Day off		●	●	●	-	-	-	-	●	-	●	●	●
Min. unit of timer setting (Minutes)		10 + 30	30	30	-	-	-	5	5	10	10	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	● 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-RNRGZ2



## 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

Max. Controllable  
**16** indoor units

Max. Controllable  
**1** Group

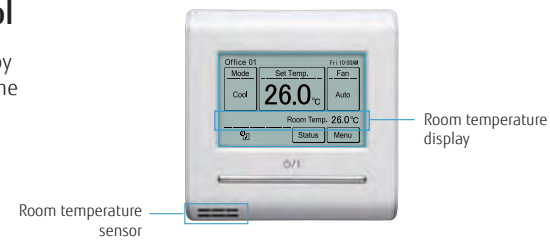
## High performance and compact size

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.

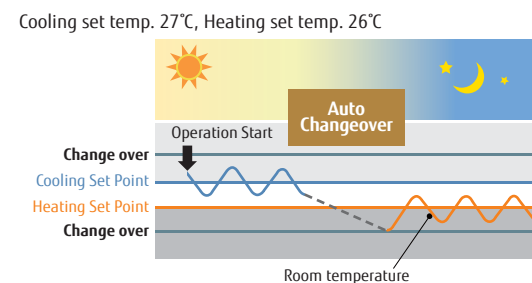


## Various energy saving control

### Custom Auto

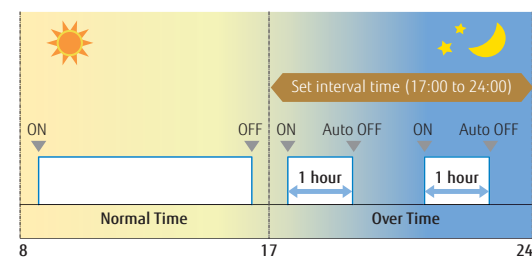
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

\* This function is not available for some models.



### Auto OFF timer

- The indoor unit automatically is turned off when it reaches to 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



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

### 2 schedules Weekly Timer

#### Set Temperature Auto Return

#### Set Temperature Upper and Lower Limit Setting

## Specifications

Model name	UTY-RNRGZ2
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-RVNGM



Max. Controllable  
**16** indoor units

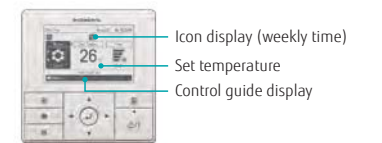
Max. Controllable  
**1** Group

## 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

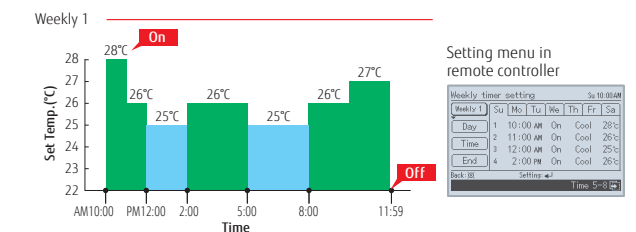
In addition to the individual control, various energy saving controls can be realized using only one remote controller.



## Various energy saving control

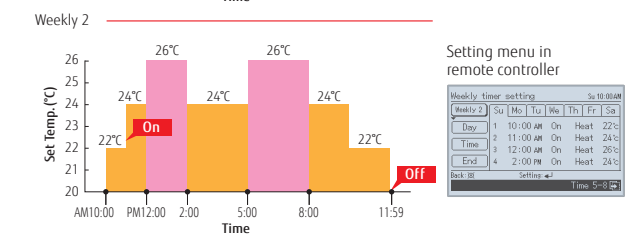
### Weekly Timer function

- 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-RVNGM
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-RLRG



- 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

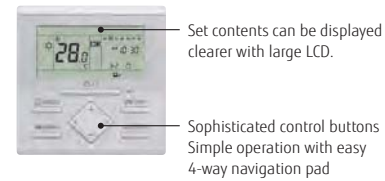
In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.

Max. Controllable  
**16** indoor units

Max. Controllable  
**1** Group

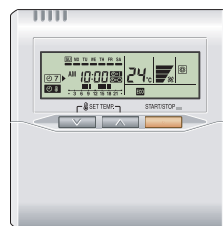
## High visibility and easy operation

- "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

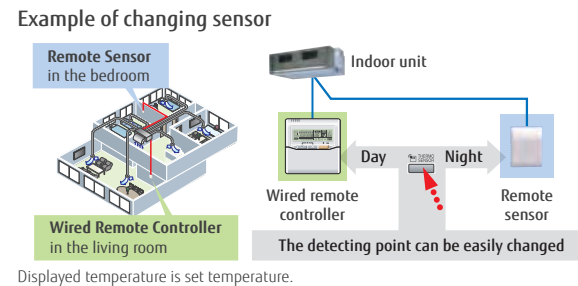
UTY-RNNGM



- 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.



## 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-RLRG	UTY-RNNGM
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-RSRG / UTY-RHRG (Without operation mode)



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

Max. Controllable  
**16** indoor units

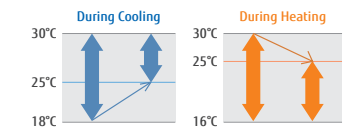
Max. Controllable  
**1** Group

## Corresponding to various applications

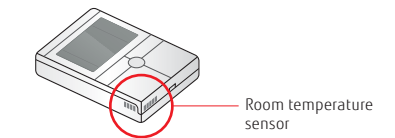
- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.



- **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-RSNGM, UTY-RSKG/UTY-RHKG (Without operation mode)



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

Max. Controllable  
**16** indoor units

Max. Controllable  
**1** Group

## 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-RSRG	UTY-RHRG	UTY-RSNGM, UTY-RSKG	UTY-RHKG
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-LNHG



## 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

Max. Controllable  
**16** indoor units

Max. Controllable  
**1** Group

Selectable  
**4** daily timers

# IR Receiver Unit

UTB-YWC / UTY-LRHGM / UTY-LBTGM



UTB-YWC  
 for VRF



UTY-LRHGM  
 for Split



IR Receiver Unit

Wireless Remote Controller

UTY-LBTGM  
 for Split



IR Receiver Unit

Wireless Remote Controller



Duct type indoor unit



Duct type indoor unit

## 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-LRHGB1 / UTY-LBHXD / UTY-LRHGA2 / UTY-LBTGC



UTY-LRHGB1  
 for VRF



UTY-LBHXD  
 for VRF



UTY-LRHGA2  
 for Split



IR Receiver Unit

Wireless Remote Controller

UTY-LBTGC  
 for Split



IR Receiver Unit

Wireless Remote Controller

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

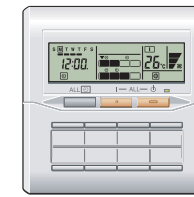
### Specifications

Model name	UTY-LNHG	UTB-YWC/UTY-LRHGM/UTY-LBTGM	UTY-LRHGB1/UTY-LBHXD UTY-LRHGA2/UTY-LBTGC
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-CGGG / UTY-VGGXZ1



Group Remote Controllers  
 UTY-CGGG



Network Converter  
 UTY-VGGXZ1  
 For Group Remote Controller

Max. Controllable  
**8** remote controller groups

Max. Controllable  
**92** indoor units in  
**8** Groups

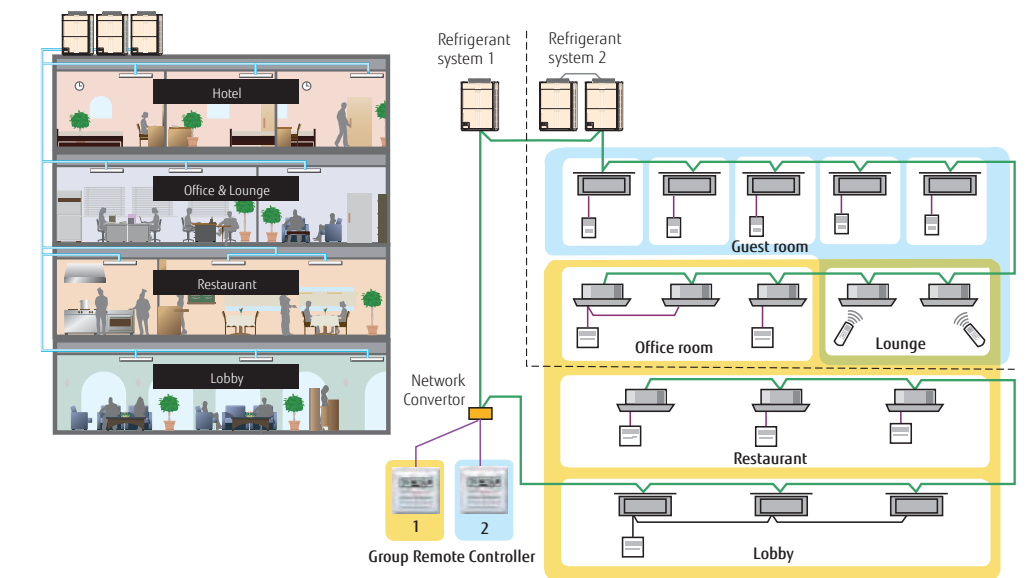
Max. Controllable  
**2** refrigerant circuits

## 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.



Group Remote Controller 1:  
 To control office room, lounge, restaurant and lobby (8 remote controller groups)  
 Group Remote Controller 2:  
 To control guest room and lounge (7 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-CGGG
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-DCCG



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

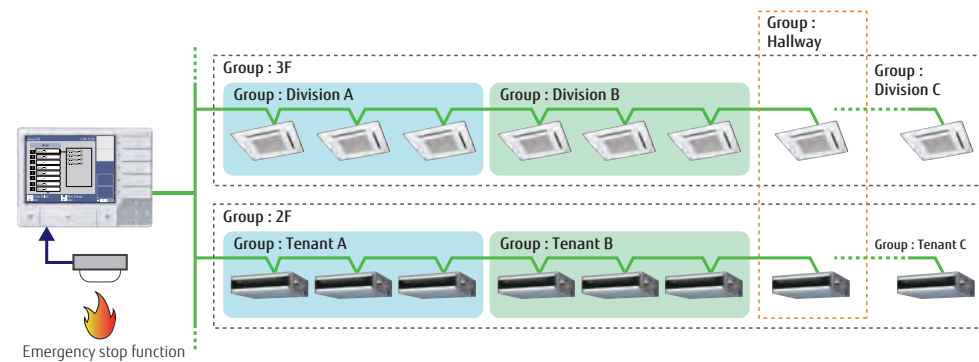
- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable  
**100** indoor units

Max. Controllable  
**16** groups

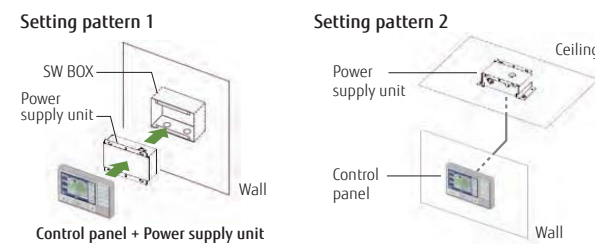
## System overview

- 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-DCCG	
	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
<b>&lt;PACKING LIST&gt;</b>		
Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	

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

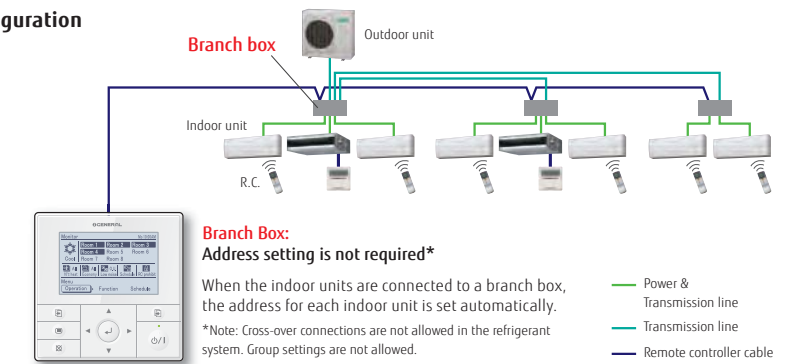
UTY-DMMGM



Max. Controllable  
**1** multi system

Max. Controllable  
**8** indoor units

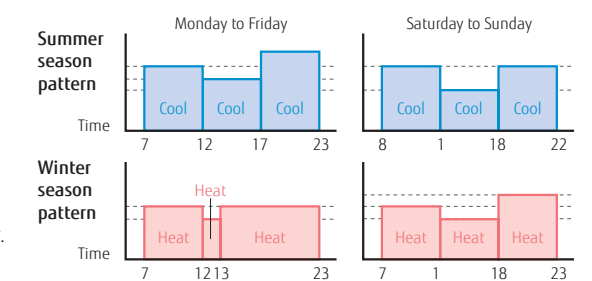
## System configuration



## 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

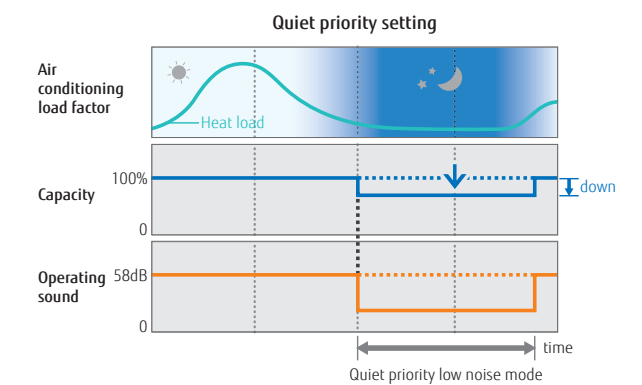
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

### 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-DMMGM
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

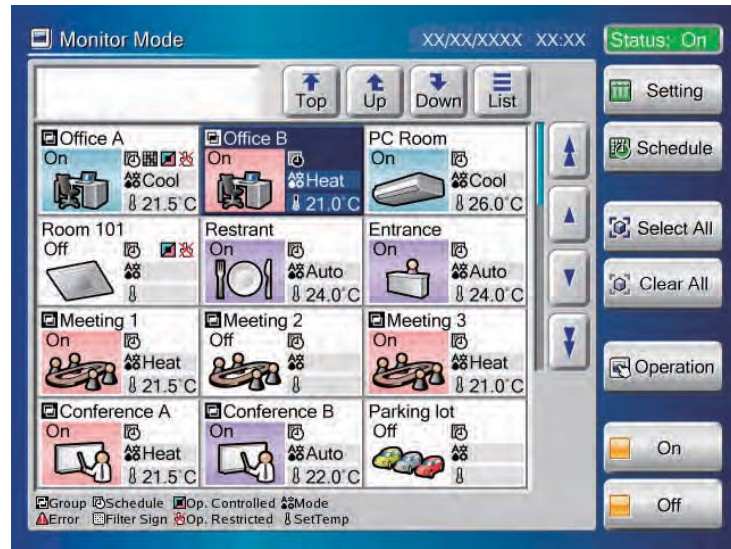
UTY-DTGGZ1



- 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

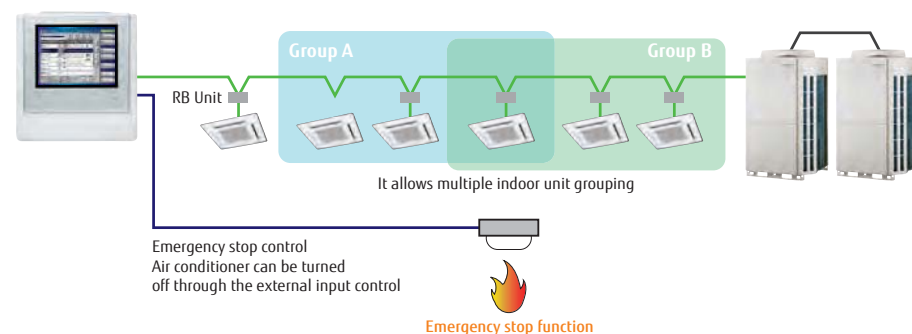


## Easy installation

- 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



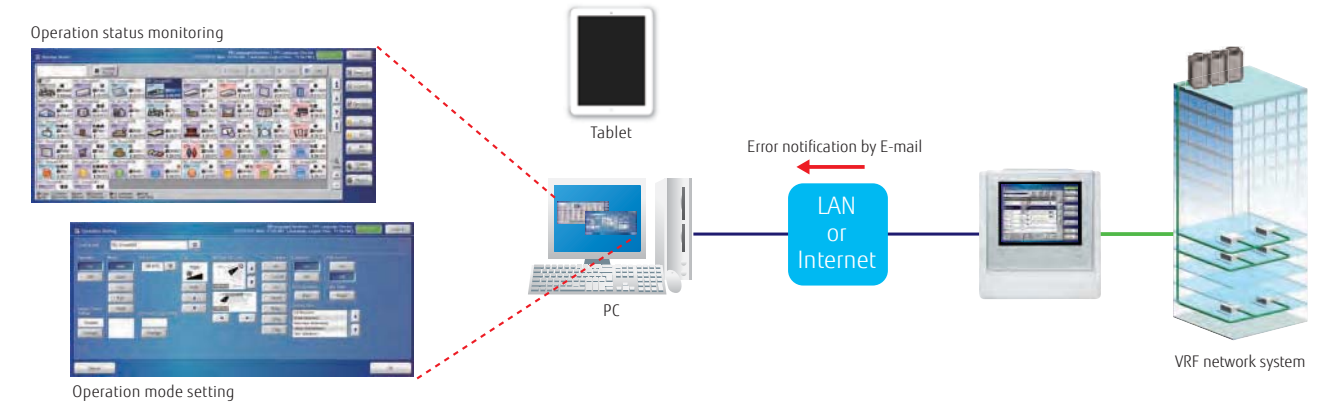
## Up to 400 indoor units can be controlled



## 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

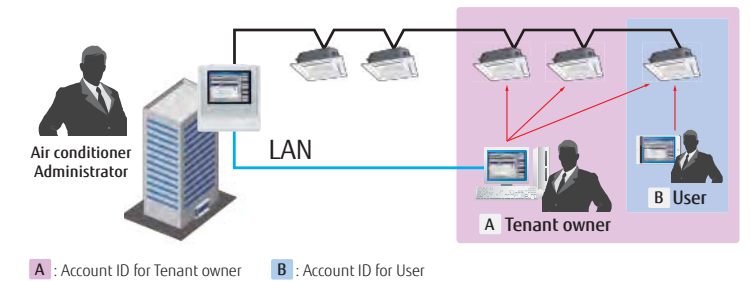
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

### Tablet

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

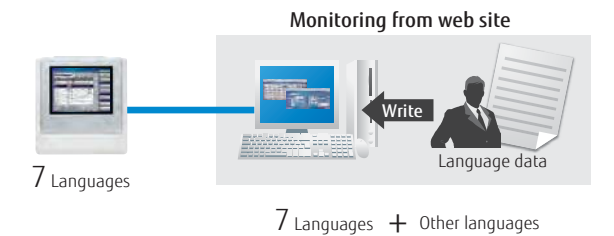
## Flexible access permission for Point each level user.

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



## Additional languages function

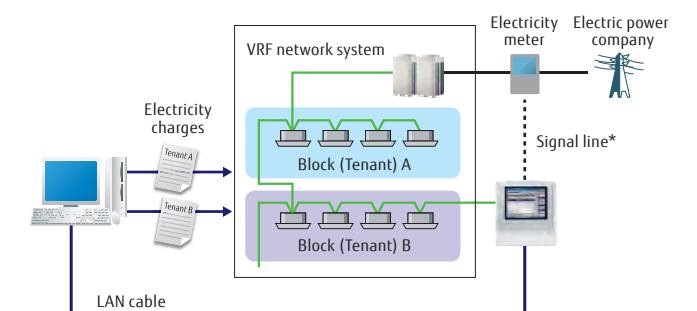
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other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

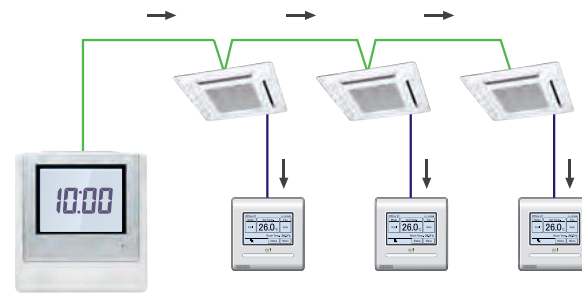
## Automatic summer time setting

### Providing function

- 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.

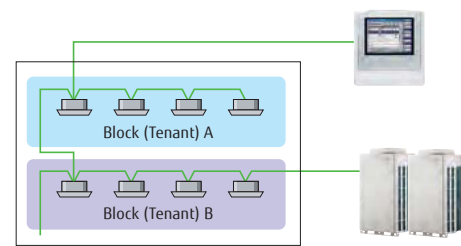
### Automatic clock adjustment

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

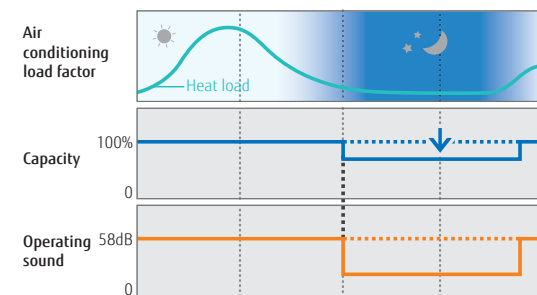


## Outdoor low noise operation

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



### Quiet priority setting



## NEW Various energy saving control

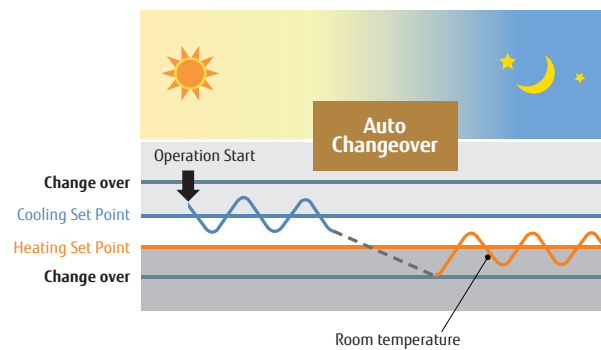
### Custom Auto

- 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.



Pop-up highlighting

## FUNCTIONS SUMMARY

	UTY-DTGGZ1	Monitoring side
<b>Air conditioning control function</b>		
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	—	●
<b>Display</b>		
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.

## Specifications

Model name	UTY-DTGGZ1
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

	UTY-DTGGZ1	Monitoring side
<b>Timer</b>		
	Period	Year
Schedule timer	On/off, Temp, Mode, Times per day	20
		Year
On/off timer	—	—
Sleep timer	—	—
Program timer	—	—
Auto off timer	—	●
Day off	●	●
Min. unit of timer setting (Minutes)	10	10
<b>Control</b>		
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	●	●



# 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.

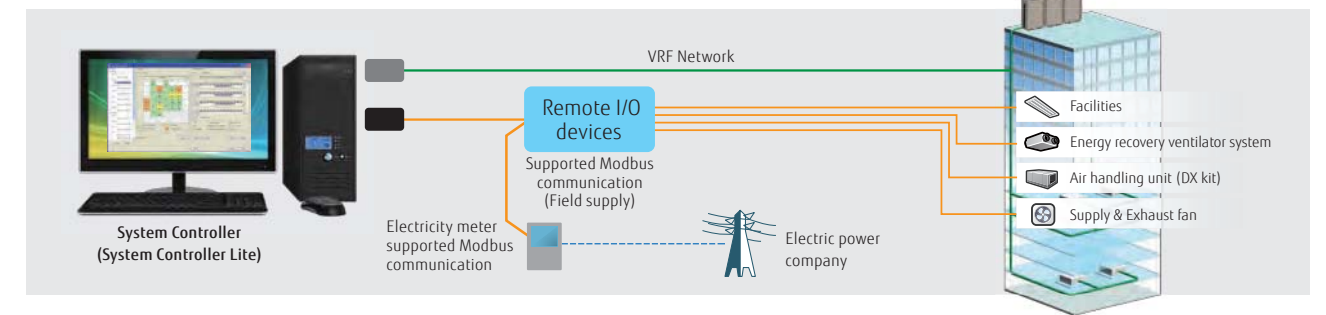
**Freely define groups for batched control:** Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.

Features: System Controller/System Controller Light

## 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.

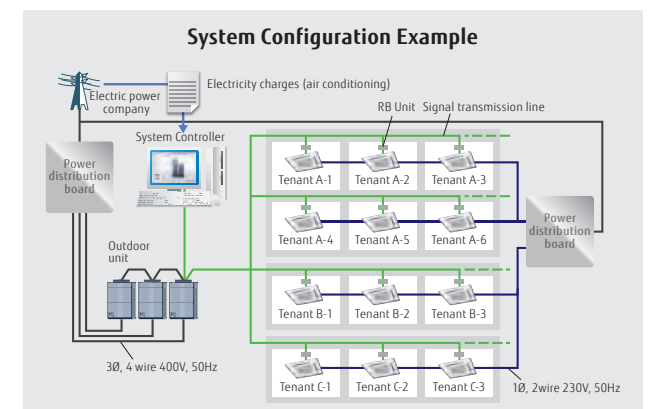
## Electricity charge apportionment

**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

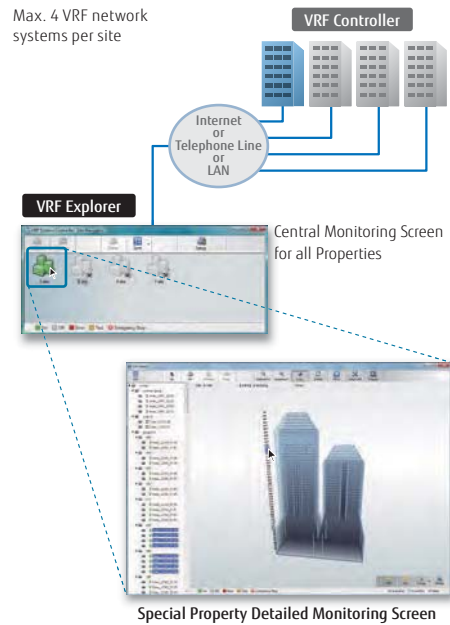
Features: System Controller/System Controller Light

## Remote management

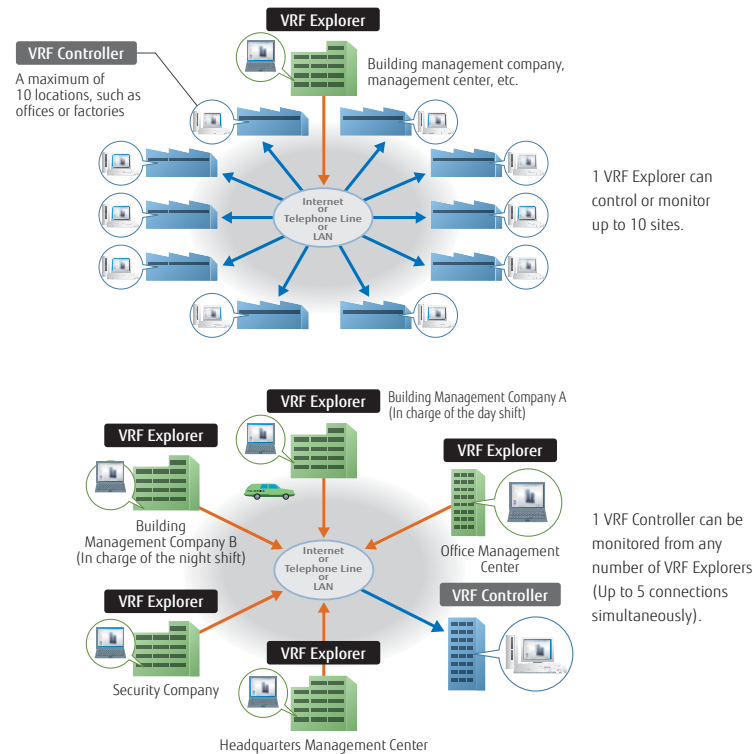
- Standard** for System Controller
- Option** for System Controller Lite UTY-PLGX2

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-PEGX1
- 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-APGX1	Option UTY-PEGX1	UTY-ALGX1	Option UTY-PLGX2	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	—	—	—	—	
Site supervision	Max. outdoor units per System controller	400	—	100	—	—	—	—	
	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	●	—	—	—	—	—	—	
Error management	List display	●	—	●	—	—	—	—	
	Tree display	●	—	—	—	—	—	—	
	Group display	●	—	●	—	—	—	—	
History	Error notification	●	—	●	—	—	—	—	
	Audible alarm	●	—	●	—	—	—	—	
Operation control	Error e-mail notification	●	—	—	—	—	—	—	
	Error history	●	—	●	—	—	—	—	
	Operation history	●	—	●	—	—	—	—	
	Control history	●	—	●	—	—	—	—	
	Individual control	On/Off	●	—	●	—	—	—	—
		Operation mode*	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Air flow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
Room temperature set point limitation		●	—	●	—	—	—	—	
Antifreeze		●	—	●	—	—	—	—	
Outdoor unit low noise setting		●	—	●	—	—	—	—	
Remote control prohibition setting		●	—	●	—	—	—	—	
Individual management	Temperature upper and lower limit setting	●	—	●	—	—	—	—	
	Filter sign reset	●	—	●	—	—	—	—	
Other	Memory operation	●	—	●	—	—	—	—	
	Pattern operation	●	—	●	—	—	—	—	
Schedule	Annual Schedule	●	—	●	—	—	—	—	
	Special day setting	●	—	●	—	—	—	—	
	On / off per day	72	—	72	—	—	—	—	
	On / off per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
Remote management	Min. unit of timer setting (Minutes)	10	—	10	—	—	—	—	
	Low noise mode Weekly schedule	●	—	●	—	—	—	—	
	Web Operation	●	—	●	—	—	—	—	
	Remote monitoring	●	—	●	—	—	—	—	
Electricity charge apportionment	Remote operation control	●	—	●	—	—	—	—	
	Remote function setting	●	—	●	—	—	—	—	
	Apportionment charge/bill calculation	●	—	●	—	—	—	—	
	Tenant (block) setting	●	—	●	—	—	—	—	
Energy saving management	Common facilities apportionment setting	●	—	●	—	—	—	—	
	Rated power consumption allotment setting	●	—	●	—	—	—	—	
	Individual calculation at cooling and heating	●	—	●	—	—	—	—	
External Device Control	Electricity meter supported	●	—	●	—	—	—	—	
	Indoor unit rotation	●	—	●	—	—	—	—	
	Peak cut control	●	—	●	—	—	—	—	
	Outdoor unit capacity save	●	—	●	—	—	—	—	
Others	Record of energy saving operation	●	—	●	—	—	—	—	
	Energy saving information	●	—	●	—	—	—	—	
Monitor	Power consumption monitor	●	—	●	—	—	—	—	
	Electricity meter supported	●	—	●	—	—	—	—	
Database import/export	Monitor	●	—	●	—	—	—	—	
	Control	●	—	●	—	—	—	—	
Multi language	Database import/export	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
Refrigerant leakage detection function	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	<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	<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	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>	<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	40 GB or more of free space
Display	1024 x 768 or higher resolution	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)</li> <li>USB ports (Maximum of 6 ports)</li> <li>(Required only for the Server PC that works as VRF Controller)</li> <li>- Maximum of 2 USB ports are 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 port depends on the applicable system configuration.</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)</li> <li>USB ports (Maximum of 6 ports)</li> <li>(Required only for the Server PC that works as VRF Controller)</li> <li>- Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection</li> <li>- 1 USB port is required for Echelon® U10 USB Network Interface</li> <li>* The maximum number of required USB port depends on the applicable system configuration.</li> </ul>
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	Microsoft® DirectX® 9.0c compatible
Software	Adobe® Reader® 9.0 or later	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-APGX1	UTY-PEGX1	UTY-ALGX1	UTY-PLGX2	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.

# BACnet® Gateway

UTY-ABGX1



WHITE-USB-KEY  
(Software Protection Key)

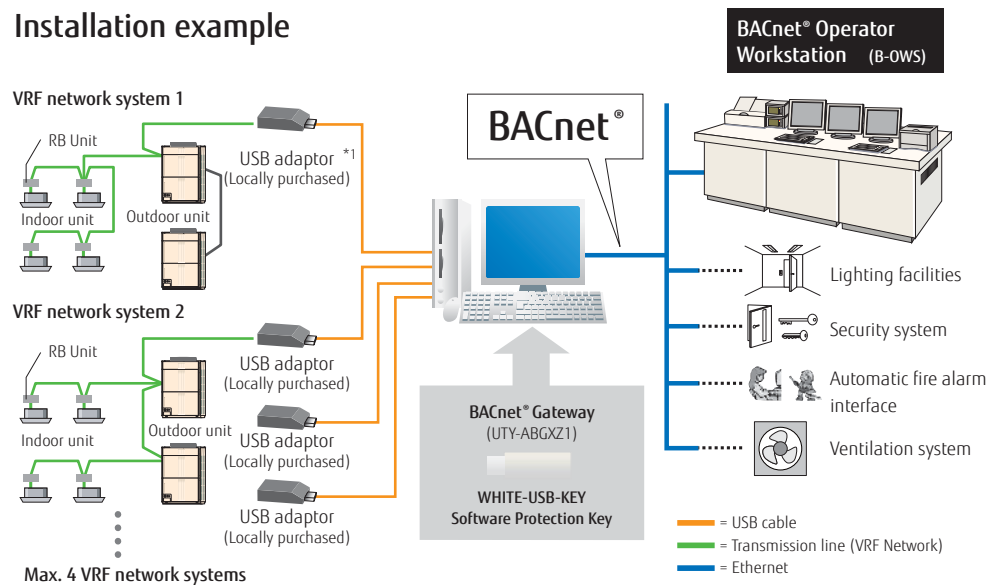


BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.

- 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



\*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

## Personal computer system requirements

	UTY-ABGX1
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



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

Max. Controllable  
**1**  
VRF network system

Max. Controllable  
**32**  
refrigerant system

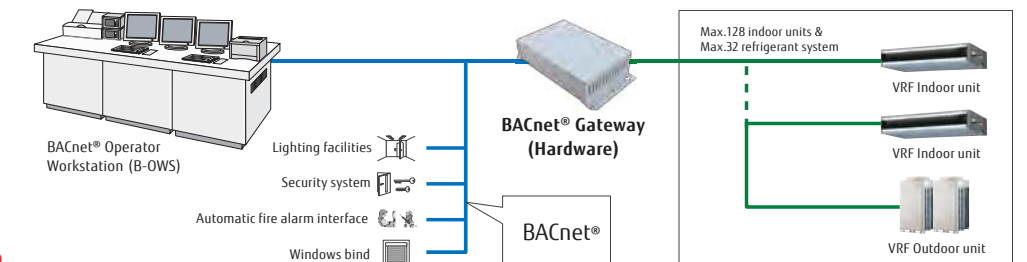
Max. Controllable  
**128**  
indoor units

## 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



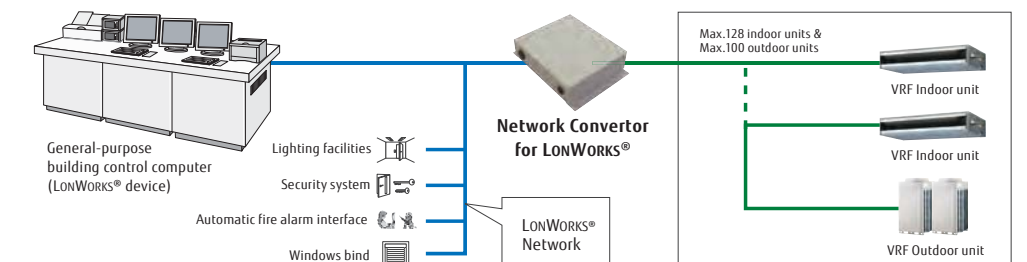
# Network Converter for LONWORKS®

UTY-VLGX



- 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 Converter for LONWORKS®

## Installation example



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.)

# MODBUS® Convertor for Indoor Unit

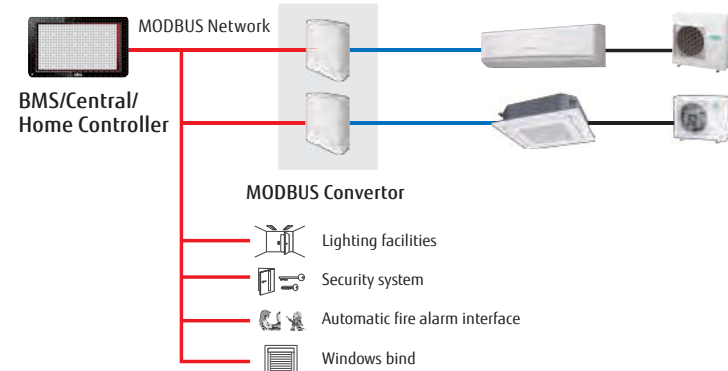
UTY-VMSX



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.

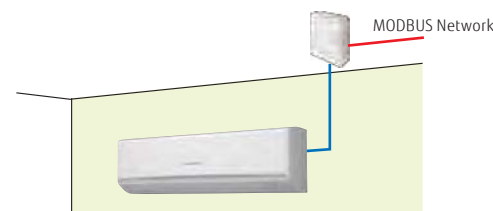


## Basic control

- 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



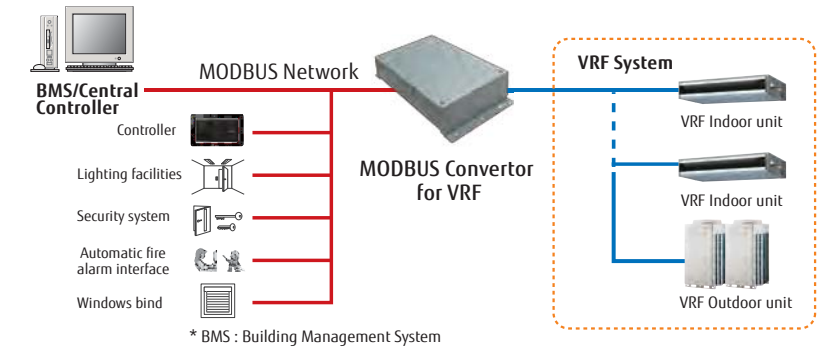
Max. Controllable  
**9** units to one VRF

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 convertors 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

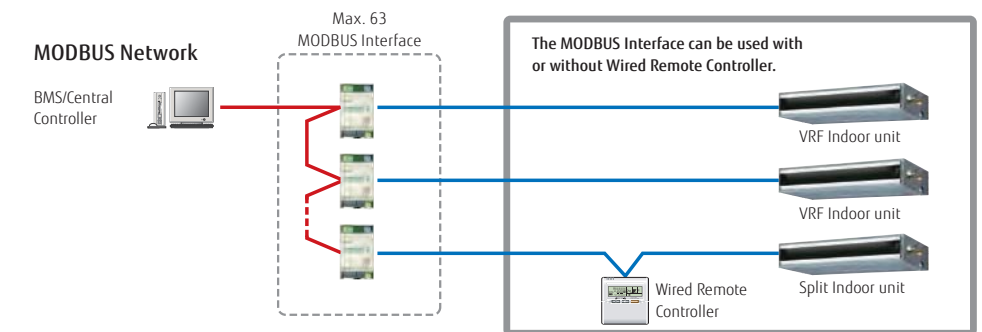


Max. Connectable  
**1** Single indoor unit

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

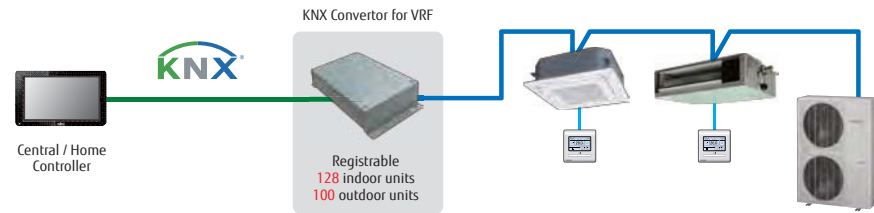


Max. Controllable  
**100 outdoor units**

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**

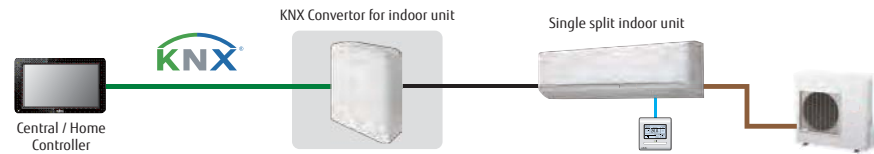
UTY-VKSX



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

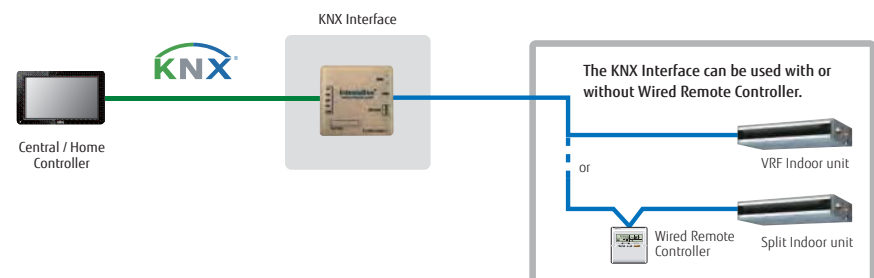


Max. Connectable  
**1 Single indoor unit**

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

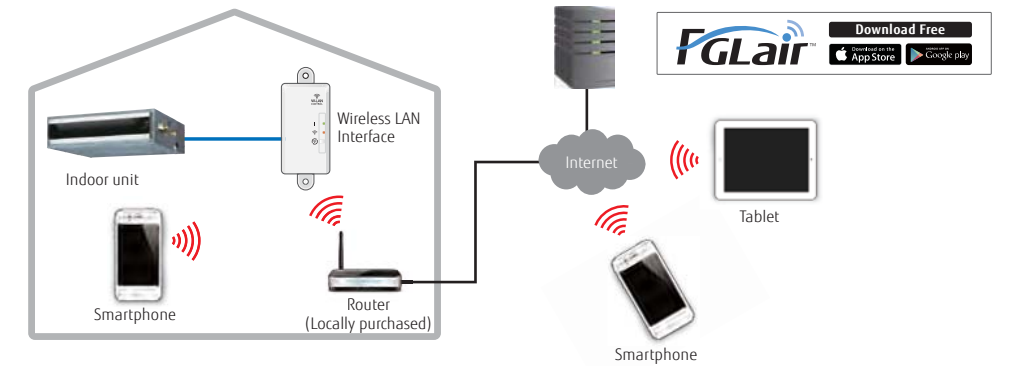
**Wireless LAN Interface**

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1



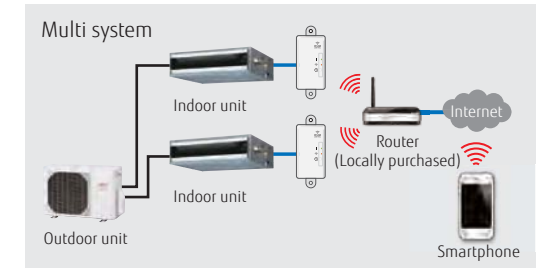
Max. Connectable  
**1 Single indoor unit**

- 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



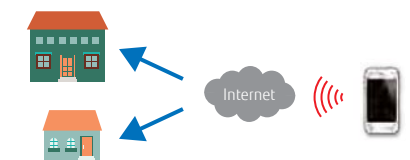
**Basic control**

- 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



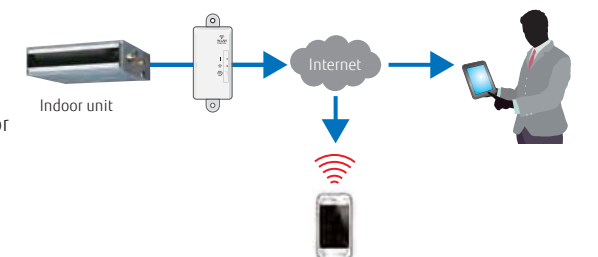
**Multiple air conditioning management**

- 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

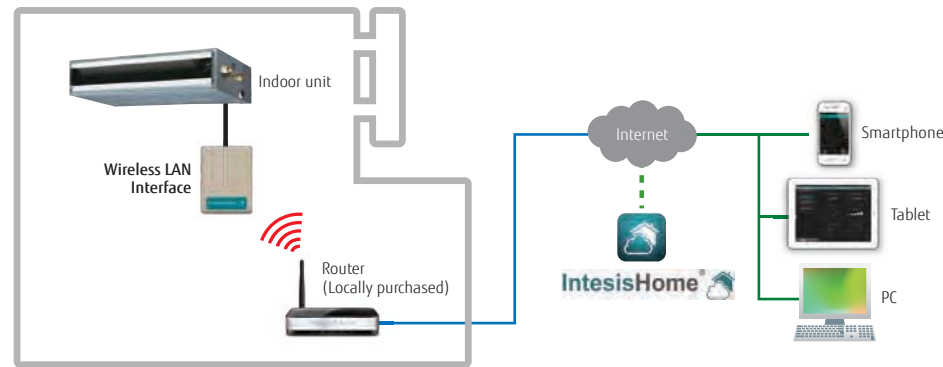
FJ-RC-WIFI-1



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



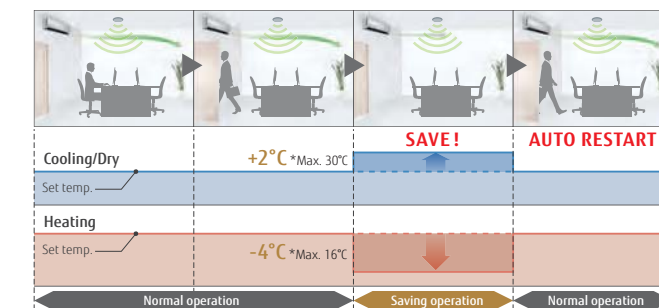
Max. Controllable  
**1** group

## 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.

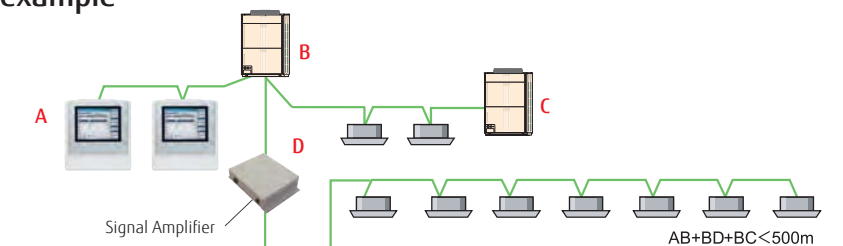
# Signal Amplifier

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

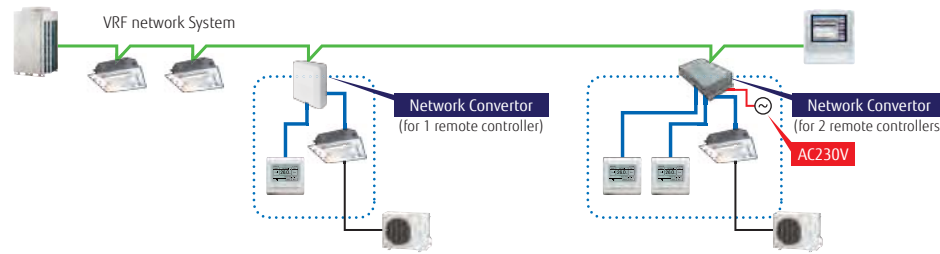
Max. Controllable  
**1** Group

Max. Controllable  
**100**  
Network Convertors

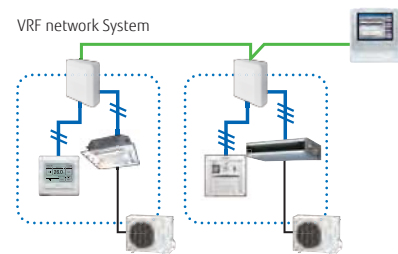
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

## Installation example.

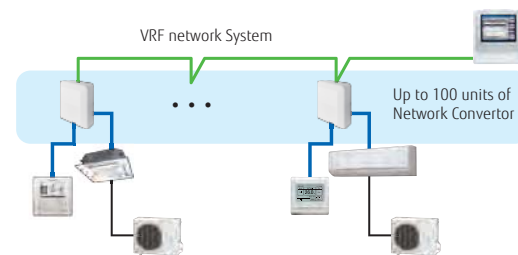
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



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

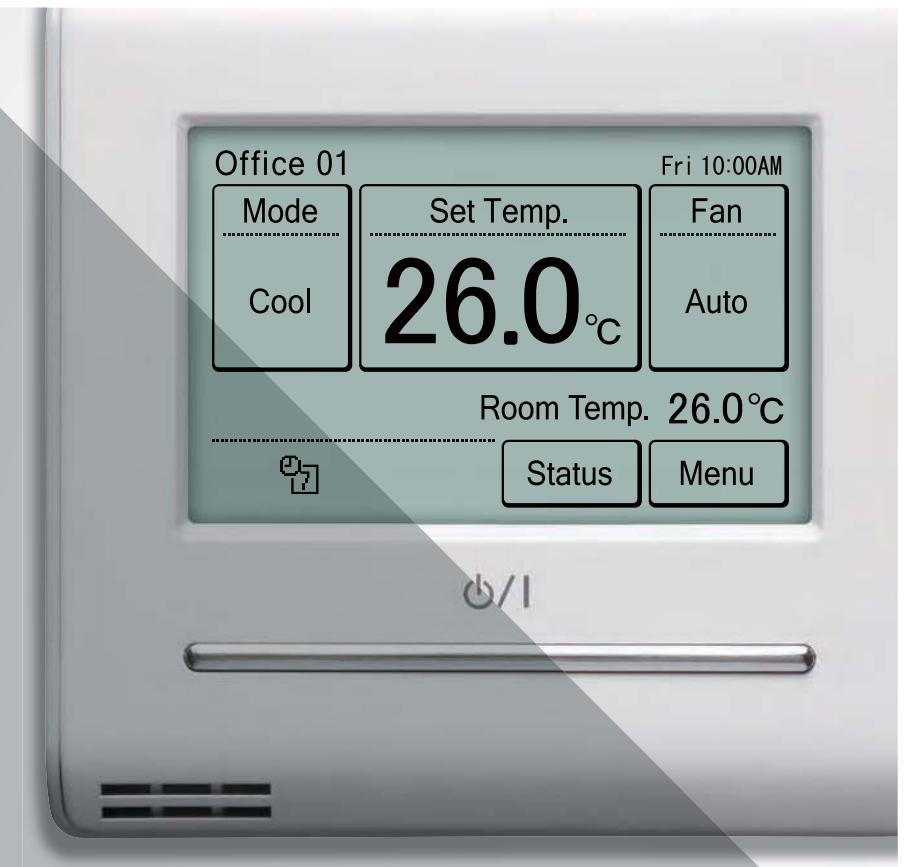


- A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)



## 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 x W x D) (mm)	140 x 117 x 43		54 x 260 x 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																			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	5-6 Rooms Multi				
	ASHG 09/12KXCA	ASHG 07/09/12/14 KGTA	ASHG 07/09/12/14 KMTA	ASHG 18/24KLCA	ASHG 09/12LTCA	ASHG 07/09/12/14 LUCA	ASHG 07/09/12/14 LMCA	ASHG 18/30LFCA, ASHG24LFCC	ASHG 30/36LMTA	ASHG 07/09/12 LLCC	AUHG 12/14/18 LVLB, AUHG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUHG 30/36LRLE, AUHG 36/45/54 LRLA	ARHG 12/14/18 LSLAP	ARHG 12/14/18 LLTB	ARHG 12/14/18/24/30/36/45/54 LHTBP	ARHG 24/36/45 LMLA, ARHG 30/36LMLE	ARHG 45/54/60 LHTA	ARHG 72/90LHTA	AGHG 09/12/14 LVCA	ABHG18LVTB, ABHG24LVTA	ABHG 30/36 LRTE, ABHG 36/45/54 LRTA	AOHG36LBLA5, AOHG45LBLA6	UTP-PY03A, UTP-PY02A	
Wired Remote Controller		• UTY-RNRGZ2+ UTY-TWRXZ2							• UTY-RNRGZ2+ UTY-TWRX			• UTY-RNRGZ2		• UTY-RNRGZ2		• UTY-RNRGZ2			• UTY-RNRGZ2						
		• UTY-RLRG+ UTY-TWRXZ2							• UTY-RLRG+ UTY-TWRX			• UTY-RLRG		• UTY-RLRG		• UTY-RLRG			• UTY-RLRG						
					• UTY-RVNGM+ UTY-TWBXF	• UTY-RVNGM+ UTY-XCBXZ2	• UTY-RVNGM	• UTY-RVNGM	• UTY-RVNGM+ UTY-XWNX		• UTY-RVNGM					• UTY-RVNGM									
			• UTY-RNNGM+ UTY-TWBXF2		• UTY-RNNGM+ UTY-TWBXF	• UTY-RNNGM+ UTY-XCBXZ2	• UTY-RNNGM	• UTY-RNNGM	• UTY-RNNGM+ UTY-XWNX		• UTY-RNNGM					• UTY-RNNGM									
Simple Remote Controller		• UTY-RSRG, UTY-RHRG	• UTY-RSNGM+ UTY-TWBXF2		• UTY-RSNGM+ UTY-TWBXF	• UTY-RSNGM+ UTY-XCBXZ2	• UTY-RSNGM	• UTY-RSNGM+ UTY-XWNX, UTY-RSRG, UTY-RHRG+ UTY-XWRX		• UTY-RSNGM		• UTY-RSRG, UTY-RHRG, UTY-RSNGM	• UTY-RSNGM	• UTY-RSRG, UTY-RHRG, UTY-RSNGM	• UTY-RSNGM	• UTY-RSRG, UTY-RHRG, UTY-RSNGM	• UTY-RSNGM	• UTY-RSRG, UTY-RHRG, UTY-RSNGM	• UTY-RSNGM	• UTY-RSNGM		• UTY-RSNGM			
Central Remote Controller																							• UTY-DMMGM		
IR Receiver Unit with Wireless Remote Controller		For Duct For Cassette											• UTY-LRHGAZ	• UTY-LRHGM		• UTY-LRHGM	• UTY-LRHGM (60 only)	• UTY-LRHGM							
		For Duct For Cassette										• UTY-LBTGC	• UTY-LBTGM		• UTY-LBTGM			• UTY-LBTGM							
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						• 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					• FJ-RC-WIFI-1									
External Switch Controller		• UTY-TERX				• UTY-TERX				• UTY-TERX					• UTY-TERX										

# CONTROL SYSTEM LIST for VRF



Type	Indoor unit										Indoor unit										
	Cassette					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	—	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	AGHA 004/007/ 009/012/014 GCAH	AGHE 004/007/ 009/012/014 GCAH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 004/007/009 GTAH	ASHE 004/007/009 GTAH	ASHA 012/014GCAH	ASHE 012/014GCAH	ASHA 18/24GBCH	ASHA 030/034GTAH		
Controllers	Wired Remote Controller	● UTY-RNRGZ2										● UTY-RNRGZ2									
		● UTY-RLRG										● UTY-RLRG									
	Simple Remote Controller	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG										● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG									
	Wireless Remote Controller	● UTY-LNHG										● UTY-LNHG									
	Group Remote Controller	● UTY-CGGG + UTY-VGGXZ1										● UTY-CGGG + UTY-VGGXZ1									
	Central Remote Controller	● UTY-DCGG										● UTY-DCGG									
	Touch Panel Controller	● UTY-DTGGZ1										● UTY-DTGGZ1									
	System Controller, System Controller Lite	● UTY-APGXZ1, UTY-ALGXZ1										● UTY-APGXZ1, UTY-ALGXZ1									
Interface	BACnet Gateway	● UTY-ABGXZ1, UTY-VBGX										● UTY-ABGXZ1, UTY-VBGX									
	Network Converter for LonWorks	● UTY-VLGX										● UTY-VLGX									
	MODBUS Converter	● UTY-VMGX										● UTY-VMGX									
	MODBUS Interface	● FJ-RC-MBS-1						● FJ-RC-MBS-1											● FJ-RC-MBS-1		
	KNX Converter	● UTY-VKGX										● UTY-VKGX									
	KNX Interface	● 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										● 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



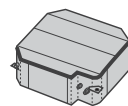
### Cassette Grille

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



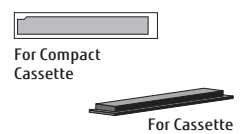
### Fresh Air Intake Kit

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



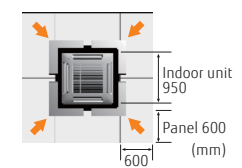
### Insulation for High Humidity

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



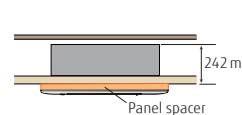
### Air Outlet Shutter Plate

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



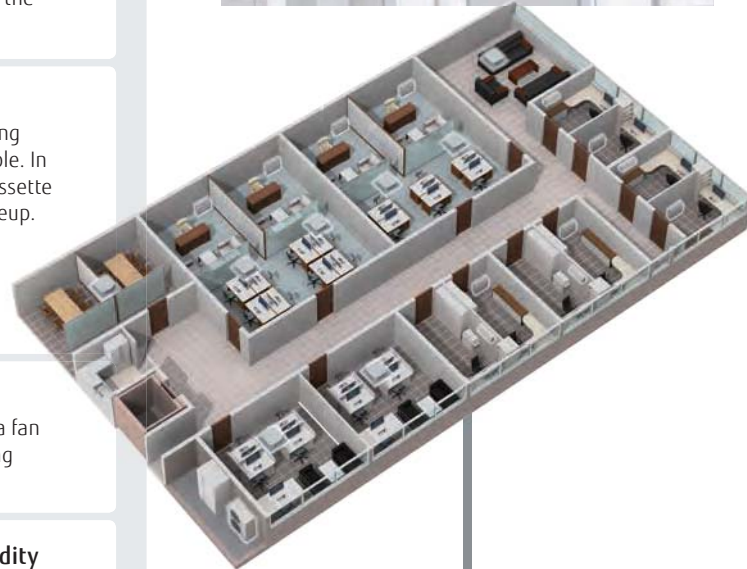
### Wide Panel

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

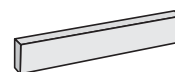


### Panel Spacer

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.



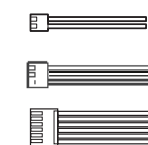
For Wall Mounted type

### External Input and Output PCB

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

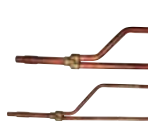


For Duct and Cassette type



### 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

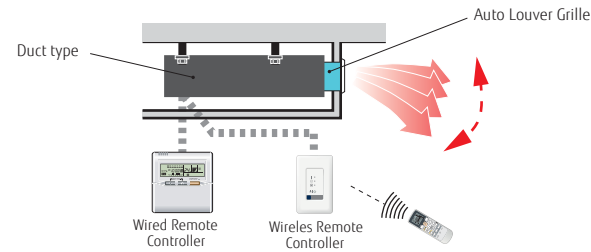


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

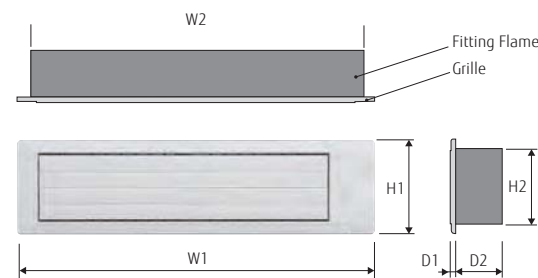


## Flexible Control

- **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



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

Unit:mm

## Specifications

Model name	UTD-GXTA-W		UTD-GXTB-W		UTD-GXTC-W	
Applicable Indoor Unit	ARHG07/09LLTA ARHG12/14LLTB ARXD04/07/09/12/14GALH (For VRF) ARXK07/09/12/14GCLH (For VRF)		ARHG18LLTB 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	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										
		Cassette			Duct						Floor	Ceiling
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big		
Human Sensor Kit			• UTY-SHZXC									
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.					• UTY-XSZX						
Cassette Grille	 UTG-UFGD-W UTG-UGGA-W UTG-UKGA-W UTG-UKGC-W UTG-UKGA-B	• UTG-UFGD-W	• UTG-UKGA-W UTG-UKGC-W UTG-UKGA-B	• UTG-UGGA-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-SF04ST UTD-RF204				• UTD-RF204	
Drain Pump Unit							• UTZ-PX1NBA		• UTZ-PX1NAB		• UTR-DPB24T	
Wide Panel	 Indoor unit 1500 Panel 600 (mm)		• UTG-AKXA-W									
Panel Spacer	 142mm 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											
		Cassette					Duct				Floor		Ceiling
		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	
IR Receiver Unit			• UTY-LRHGB1		• 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-UFGD-W UTG-UFGC-W UTG-UKGC-W UTG-UKGA-B	• UTG-UFGD-W			• UTG-UFGC-W UTG-UKGC-W			• UTG-UKGC-W UTG-UKGA-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-SF04ST UTD-RF204		• UTD-RF204
Drain Pump Unit											• UTZ-PX1NBA		• UTR-DPB24T
Wide Panel	 Indoor unit 1500 Panel 600 (mm)										• UTG-AKXA-W		
Panel Spacer	 142mm 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 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	Single Split	8 Rooms Multi	Simultaneous Multi					
ASHG 09/12KXCA	ASHG 07/09/12/14 KGTA	ASHG 07/09/12/14 KMTA	ASHG 18/24KLCA	ASHG 09/12LTCA	ASHG 07/09/12/14 LUCA	ASHG 07/09/12/14 LMCA	ASHG 18/30LFCA, ASHG24LFCC	ASHG 30/36LMTA	ASHG 07/09/12 LLCC	AUHG 12/14/18 LVLB, AUHG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUHG 30/36/LRLE, AUHG 36/45/54 LRLA	ARHG 12/14/18 LSLAP	ARHG 12/14/18 LLTB	ARHG 12/14/18/24/30/36/45/54 LHTBP	ARHG 24/36/45 LMLA, ARH36LMLE	ARHG 45/54/60 LHTA	ARHG 72/90LHTA	AGHG 09/12/14 LVCA	ABHG18LVTB, ABHG24LVTB	ABHG 30/36LRTE, ABHG 36/45/54 LRTA	AOHG 36/45/54/60 LATT	AOHG 45/54LBTA, AOHG 72/90LHTA	AOHG45LBTB	AOHG 36/45LBTB	AOHG 36/45/54 LATT				
Input		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5		● UTY-XWZXZ5 + UTY-TWBXF2	● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX	● UTY-XWZXZ5+ UTY-XCBXZ2		● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● PCB Terminal	● UTY-XWZX	● UTY-XWZX	● PCB Terminal or ● UTY-XCSX + UTY-GXRA	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX							
Operation/Stop		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5		● UTY-XWZXZ5 + UTY-TWBXF2	● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX	● UTY-XWZXZ5+ UTY-XCBXZ2		● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● PCB Terminal	● UTY-XWZX	● UTY-XWZX	● PCB Terminal or ● UTY-XCSX + UTY-GXRA	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● 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-XWZXZ5+ UTY-XCBXZ2		● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● PCB Terminal	● UTY-XWZX	● UTY-XWZX	● PCB Terminal	● UTY-XCSX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX								
Emergency Stop																									● UTY-XWZXZ3					
Forced Thermostat off								● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB					● UTY-XCSX + UTY-GXRA			● UTY-XCSX		● UTY-XCSX	● 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		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5		○ UTY-XWZXZ5 + UTY-TWBXF1	○ UTY-XWZXZ5+ UTY-XCBXZ2	○ UTY-XWZX	● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB		○ UTY-XWZX	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXRA	○ UTY-XWZX	● UTY-XWZXZG	○ UTY-XCSX	○ UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA	○ UTY-XCSX	○ UTY-XCSX	● UTY-XWZXZG or UTY-XCSX	○ UTY-XWZX	○ UTY-XWZX	○ UTY-XWZX									
Operation Status		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5		○ UTY-XWZXZ5 + UTY-TWBXF1	○ UTY-XWZXZ5+ UTY-XCBXZ2	○ UTY-XWZX	● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB		○ UTY-XWZX	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXRA	○ UTY-XWZX	● UTY-XWZXZG	○ UTY-XCSX	○ UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA										● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ3	○ UTY-XWZXZ3	○ UTY-XWZXZ2	
Error Status		● UTY-XCSXZ1+ UTY-XWZX	● UTY-TWBXF2+ UTY-XWZXZ5		○ UTY-XWZXZ5 + UTY-TWBXF1	○ UTY-XWZXZ5+ UTY-XCBXZ2	○ UTY-XWZX	● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB		○ UTY-XWZX	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXRA		● UTY-XWZXZG	○ UTY-XCSX	○ 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-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB		● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB	● UTY-VXAA*1	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXRA	● UTY-VXGA*1	● UTY-XWZXZG	● UTY-XWZXZG	● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXNA	● UTY-XWZXZG	● UTY-XWZXZG	● UTY-XWZXZG or UTY-XCSX	● UTY-XWZXZG or UTY-XCSX		● UTY-XWZXZG									
Set point attainment status							● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB		● UTY-XWZXZ5+ UTY-XCSXZ1 + UTY-GXRB																					
Auxiliary Heater Output													● UTY-XWZXZG or ○ UTY-XCSX + UTY-GXRA																	
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 Cassette type    UTY-XCSX for Duct

**External input and output PCB Box**

UTZ-GXXB    UTY-GXRA    UTY-GXNA

**External input and output PCB Bracket**

### 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	J-III	J-III	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	AGHA 004/007/009/012/014 GCAH	AGHE 004/007/009/012/014 GCAH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 004/007/009 GTAH, ASHA 012/014GCAH	ASHE 004/007/009 GTAH, ASHE 012/014GCAH	ASHA 18/24GBCH	ASHA 030/034GTAH	AJH 072/090/108/126/144 LELAH	AJH 040/045/054 LBLAH, AJH 040/045/054 LELAH	AJH 040/045/054 LCLAH	AJH 072/090/108/126/144/162 LNLBH	AJH 072/090/108/126/144/162 LALBH	AJHA 072/090/108/126/144 GALH	UTY-DCCG	UTY-DTGGZ1	UTP-RX01AH, UTP-RX01BH, UTP-RX01CH, UTP-RX04BH	
Indoor	● UTY-XWZXZD ○ UTY-XWZXZB										● UTY-XWZXZD ○ UTY-XWZXZB														
																						● UTY-XWZXZ7 ○ UTY-XWZXZ8	● *2 ○ *2		
Output																									

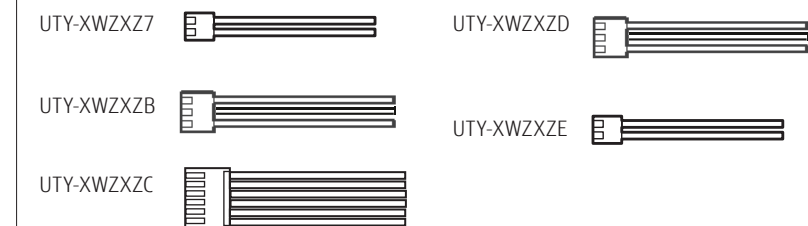
\*2: Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry Contact ○: Apply Voltage

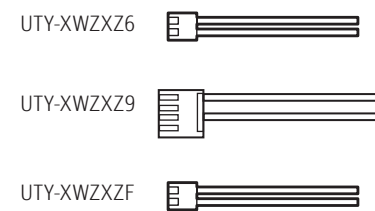
### Communication system

#### External Connect Kit

##### For Indoor unit



##### For Outdoor unit



##### For RB unit



##### For Central Remote Controller



##### For Touch Panel Controller



# 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  Liquid pipe Gas pipe  	UTP-PY03A UTP-PY02A For 8 Rooms Multi  3 zones type 2 zones type  



## For VRF

Separation Tube			
UTP-AX054A  Gas Pipe  Liquid Pipe  	UTP-AX090A  Gas Pipe  Liquid Pipe  	UTP-AX180A  Gas Pipe  Liquid Pipe  	UTP-AX567A  Gas Pipe  Liquid Pipe  
UTP-BX090A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  	UTP-BX180A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  	UTP-BX567A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  	UTP-LX180A For DX-Kit  

## Header

UTR-H0906L / UTR-H1806L  Gas Pipe  Liquid Pipe  	UTR-H0908L / UTR-H1808L  Gas Pipe  Liquid Pipe  	UTR-J0906A / UTR-J1806A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  	UTR-J0908A / UTR-J1808A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  
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## Outdoor Unit Branch Kit

UTP-CX567A  Gas Pipe  Liquid Pipe  	UTP-DX567A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  
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## For VRF

EV Kit	RB Unit	
Model code $\leq 09$ : UTR-EV09XB Model code $\geq 12$ : 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	ASHE004GTAH ASHE007GTAH ASHE009GTAH	AGHE004GCAH AGHE007GCAH AGHE009GCAH	ASHE12GACH ASHE14GACH	AGHE012GCAH AGHE014GCAH

## 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 $\leq$ 8.0	Q $\leq$ 18.0	Q $\leq$ 28.0	Q $\leq$ 56.1*1
Maximum capacity of connectable indoor units per branch (Q)	kW Q $\leq$ 8.0	Q $\leq$ 18.0	Q $\leq$ 28.0	Q $\leq$ 18.0
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.