

Light Commercial & Commercial, Residential CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
- C-006 Best Control Solution for Each Property
- C-008 Comparison Table of Controllers
- C-040 Optional Parts Overview

Wide product lineup to meet a variety of needs

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

CONTROL SYSTEM



INDIVIDUAL CONTROL

- C-010 Wired Remote Controller (Touch Panel)
- C-011 Wired Remote Controller Compact Wired Remote Controller
- C-012 Simple Remote Controller

CONVERTOR/ADAPTOR

- C-013 MODBUS® Convertor KNX® Convertor
- C-014 Wireless LAN Interface
- C-015 External Switch Controller
- C-016 MODBUS® Interface KNX® Interface
- C-017 Wireless LAN Interface



INDIVIDUAL CONTROL

- C-018 Wired Remote Controller
- C-019 Wireless Remote Controller
- C-020 IR Receiver Unit

CENTRALIZED CONTROL

- C-021 Central Remote Controller

CONVERTOR/ADAPTOR

- C-022 Network Convertor for Single Split



INDIVIDUAL CONTROL

- C-023 Wireless Remote Controller IR Receiver Unit For Duct, Cassette

CENTRALIZED CONTROL

- C-025 Central Remote Controller
- C-026 System Controller Software System Controller Lite Software

CONVERTOR/ADAPTOR

- C-030 BACnet® Gateway Software
- C-031 BACnet® Gateway Hardware Network Convertor for LONWORKS®
- C-032 MODBUS® Convertor KNX® Convertor
- C-033 Signal Amplifier

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- C-034 Control System List

OPTIONAL PARTS



- C-042 Auto Louver Grille Kit
- C-043 External Power Supply Unit

- C-044 Optional Parts List
- C-048 Function List
- C-052 Separation Tube etc.

SPLIT

MULTI-SPLIT

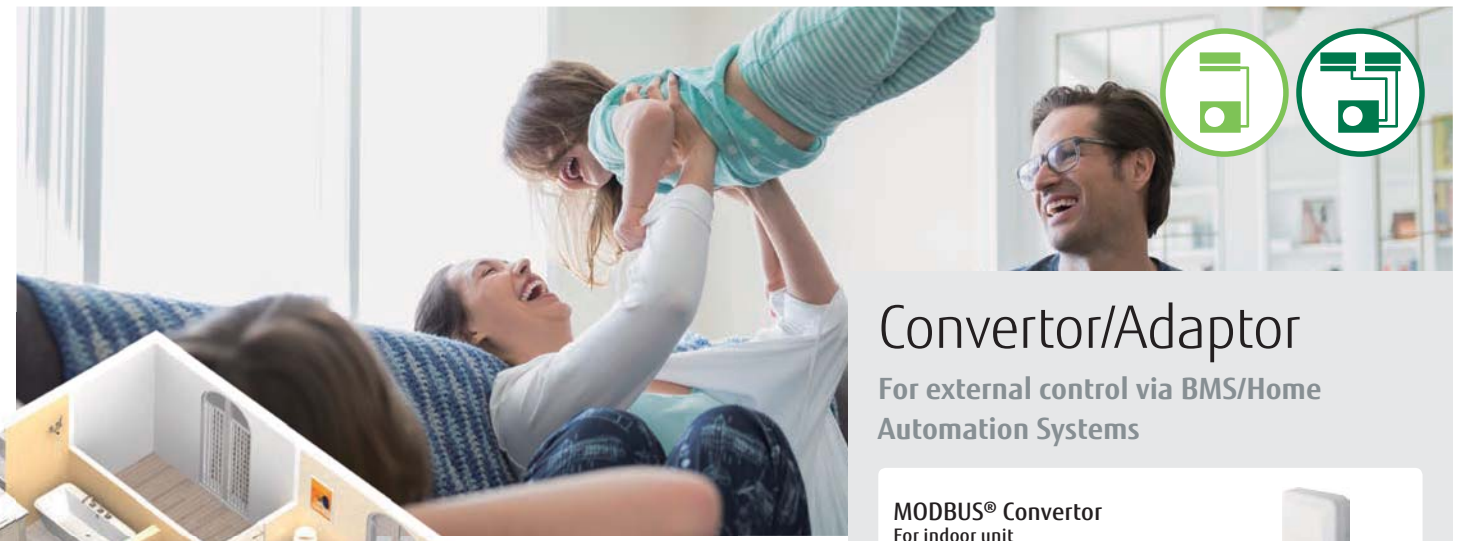
VRF J Series

VRF V Series

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

NEW For Ceiling type For Duct type

IR Receiver Unit IR Receiver Unit

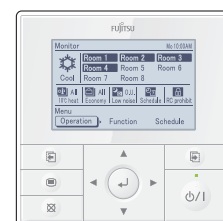
Wireless Remote Controller Wireless Remote Controller

For Cassette type

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

Converter/Adaptor

For external control via BMS/Home Automation Systems

MODBUS® Converter
For indoor unit
UTY-VMSX



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



KNX® Converter
For indoor unit
UTY-VKSX



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



Wireless LAN Interface
FJ-RC-WIFI-1



Network Converter
(DC power supply) UTY-VTGX (AC power supply) UTY-VTGXV



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 Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.



NEW Simple design and user friendly interface

The new design more user friendly screen display allows you to operate easier than ever before.



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-RNRYZ3



Wired Remote Controller
UTY-RLRY



NEW Compact Wired Remote Controller
UTY-RCRYZ1



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



Wireless Remote Controller
UTY-LNHY

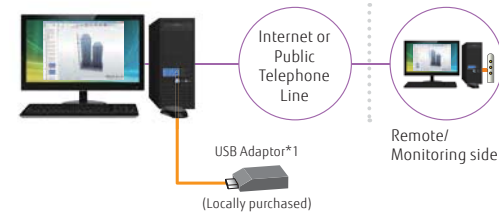


IR Receiver Unit
UTB-YWC For Duct
UTY-TRHX For 3D Flow Cassette/Duct



UTY-LRHYB1 For Cassette
UTY-LBHxD For Circular Flow Cassette

Air Conditioning Centralized Control



System Controller (Software)
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)
Max. Controllable 1600^{*2} indoor units

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



Central Remote Controller
UTY-DCGYZ1
Max. Controllable 100 indoor units

Convertor/Adaptor

For external control via BMS/Home Automation Systems

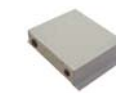
BACnet® Gateway
UTY-ABGXZ1 **Software**



BACnet® Gateway
UTY-VBGX **Hardware**



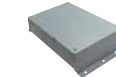
Network Converter (For LONWORKS®)
UTY-VLGX



MODBUS® Converter For indoor unit
UTY-VMSX



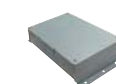
MODBUS® Converter
UTY-VMGX



KNX® Converter For indoor unit
UTY-VKSX



KNX® Converter For VRF
UTY-VKGX



Wireless LAN Interface
UTY-TFSXZ1



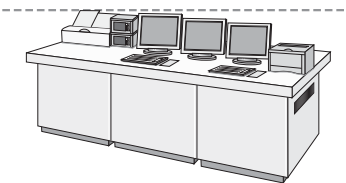
External Switch Controller
UTY-TERX



Card-key
(Locally purchased)



BMS/BAS^{*3}



BMS, Home automation system^{*3}



*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	System Controller	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RCRYZ1	UTY-CGGY	UTY-DCGYZ1	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	Central Remote Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	UTY-DCGYZ1	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	Central Remote Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	UTY-DCGYZ1	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															
Model name	UTY-RNRYZ3	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY		UTY-RHRY	UTY-LNHY	UTY-LNTY	UTY-DMMYM	UTY-DCGYZ1	UTY-ALGXZ1	UTY-APGXZ1	
Max. controllable remote controller groups	1	1	1	1	1	1		1	1	1	1	100	400	1600	
Max. controllable indoor units	16	16	16	1	16	16		16	16	16	8	100	400	1600	
Max. controllable groups	-	-	-	-	-	-		-	-	-	-	50	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	●	-	-	●	-		-	-	-	-	-	●*3	-	
	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	●	●	●	●	●		●	-	-	●	●	●	●	
	Address display	●	●	●	●	●		●	-	-	-	-	●	●	
	Room temp	●	-	●	●	-		●	-	-	-	●*4	●*4	●*4	
	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	Year	Year
			On/off, Temp, Mode, Times per day	8	4	8	-	-	-	-	-	4	20	144	144
On/off timer		●	●	●	●(OFF only)	-		-	●	●	-	-	-	-	
Sleep timer		-	-	-	-	-		-	●	●	-	-	-	-	
Program timer		-	-	-	-	-		-	●	●	-	-	-	-	
Auto off timer		●	●	●	-	-		-	-	-	-	●	-	-	
Day off	●	●	●	-	-		-	-	-	●	●	●	●		
Min. unit of timer setting (Minutes)	10 • 30	30	30	-	-		-	5	5	5	10	10	10		
Control	Status monitoring system	-	-	-	-	-		-	-	-	-	●	●	●	
	Electricity charge apportionment	-	-	-	-	-		-	-	-	-	-	○	●	
	Error history	●	●	●	-	-		-	-	-	-	●	●	●	
	Emergency stop	-	-	-	-	-		-	-	-	-	●*2	-	-	
	Remote management	-	-	-	-	-		-	-	-	-	●	○	●	
	Energy saving management	-	-	-	-	-		-	-	-	-	-	○	○	
	E-mail notification for malfunction	-	-	-	-	-		-	-	-	-	●	●	●	
Key lock	● Child lock	● Child lock	● Child lock	-	-		-	-	-	-	● Child lock	● 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.
 *3 Only individual airflow batch reset is mounted. *4 This function is available only when using wired remote controller.
 ●: Supported ○: Optional function - : Not supported yet

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3



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

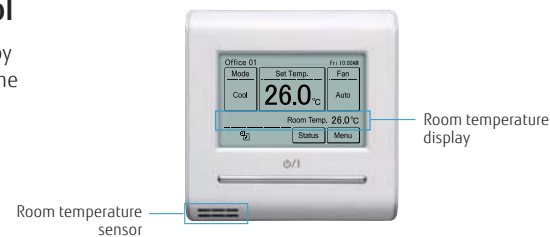
High performance and compact size

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.

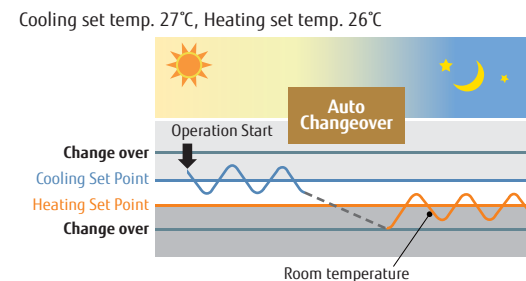


Various energy saving control

Custom Auto

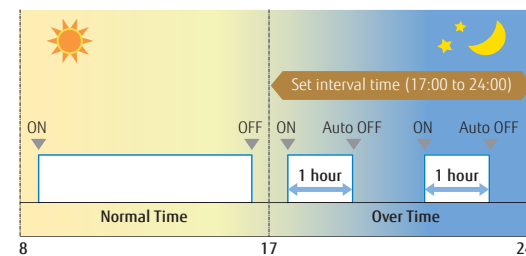
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* 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-RNRYZ3
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY



- 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

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 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.

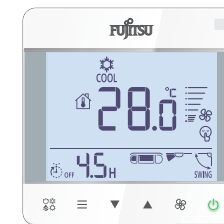


Compact Wired Remote Controller

UTY-RCRYZ1



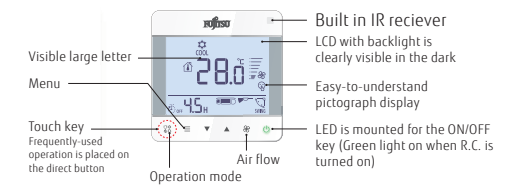
NEW



- Simple design to match the stylish interior
- Easy to install : Body of controller is designed to fit in European standard junction box
- Can be operated both by wireless and wired remote controller.
- 2-wire type

Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

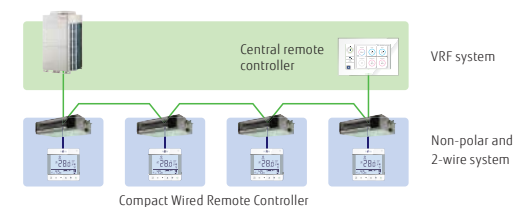


Max. Controllable
1 single indoor unit

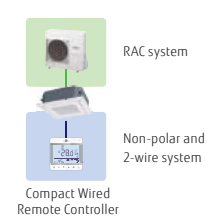
Max. Controllable
1 Group

System overview

VRF connection



RAC connection



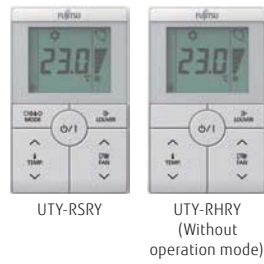
Specifications

Model name	UTY-RLRY	UTY-RCRYZ1
Power Source	DC 12 V	DC12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

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



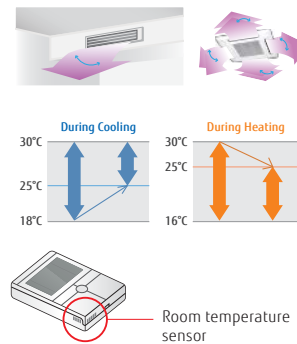
Compact remote controller provides access to basic functions

- 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

Max. Controllable
16 indoor units
Max. Controllable
1 Group

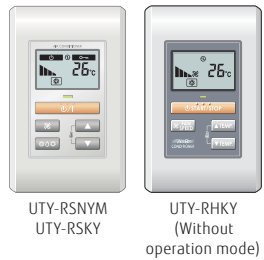
Corresponding to various applications

- **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-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

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-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.

MODBUS® Convertor for Indoor Unit

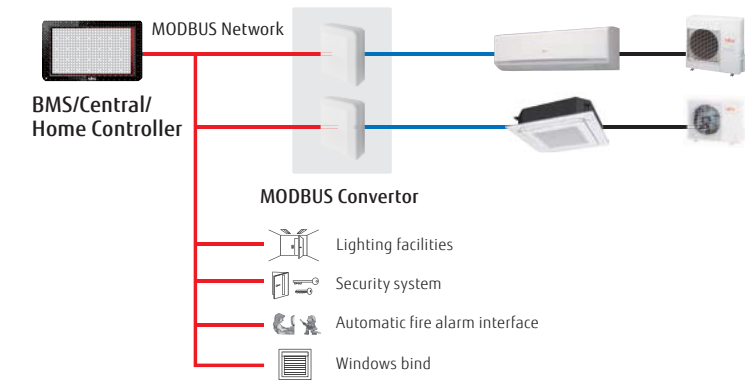
UTY-VMSX



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.

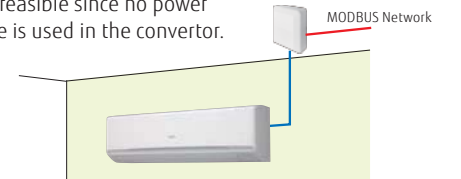


Basic control

- 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.



KNX® Convertor for Indoor Unit

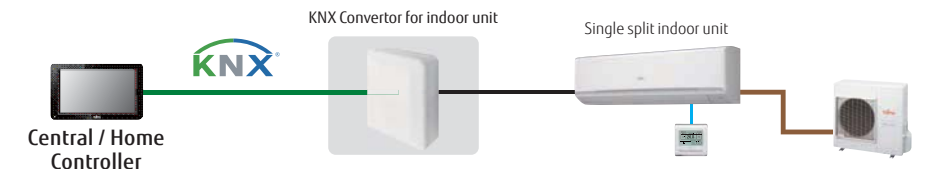
UTY-VKSX



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 Fujitsu General indoor unit.
- Compact and light weight design



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)

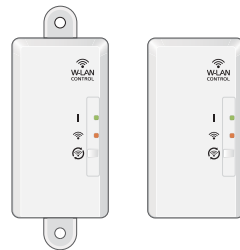
Model name	UTY-VKSX
Power supply	DC 12 V
Power consumption (W)	0.6
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	215

Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2

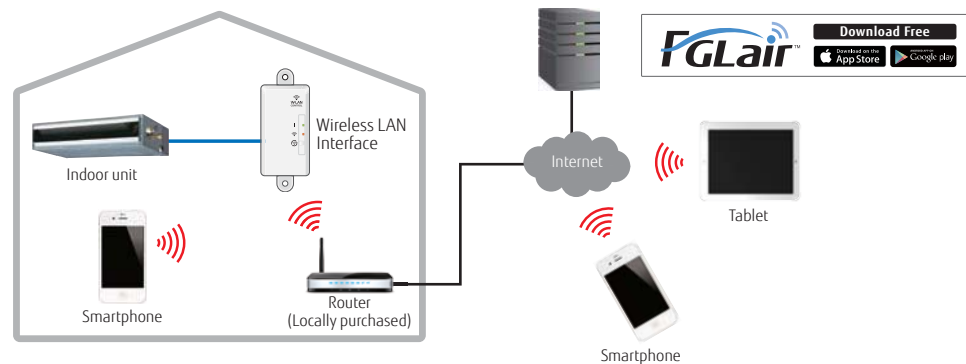


USB type for single split models
UTY-TFSXF2



UTY-TFNXZ1
UTY-TFSXZ1 UTY-TFSXW1

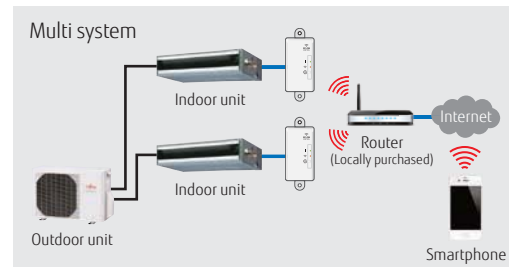
- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



Max. Connectable
1 Single indoor unit

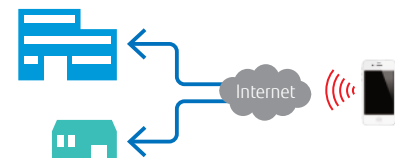
Basic control

- 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



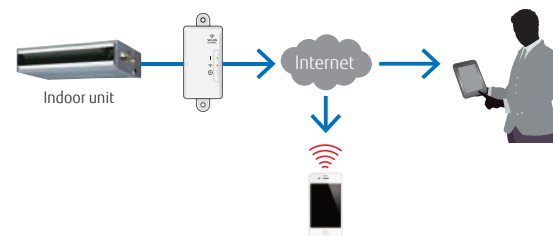
Multiple air conditioning management

- 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.



Wireless LAN Interface (USB type) UTY-TFSXF2

New compact USB type is available. Specialized installation work is not required and it can be installed to indoor unit easily.



Specifications

Model name	UTY-TFNXZ1 / UTY-TFSXZ1	UTY-TFSXW1	UTY-TFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	30

External Switch Controller

UTY-TERX



Max. Controllable
1 group

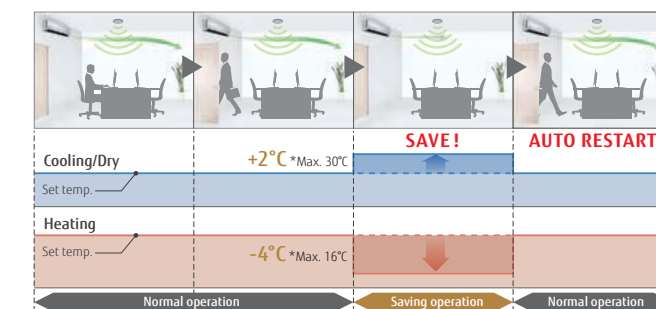
Air conditioner switching can be controlled by connecting other sensor switches

- 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.
- 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.



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.

MODBUS® Interface

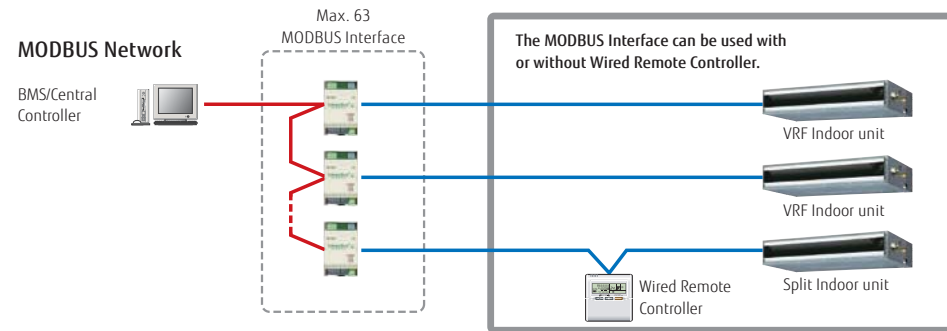
FJ-RC-MBS-1



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.

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



Wireless LAN Interface

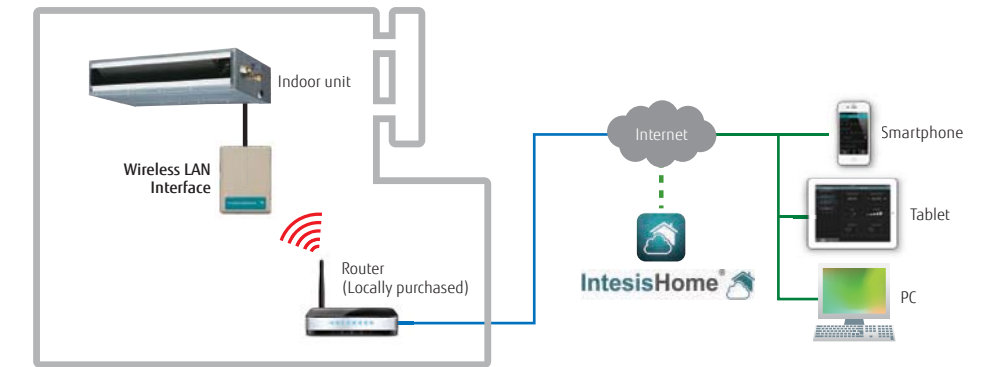
FJ-RC-WIFI-1



IntesisHome

- 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 unit and group controlled (up to 16) indoor units

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



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)

KNX® Interface

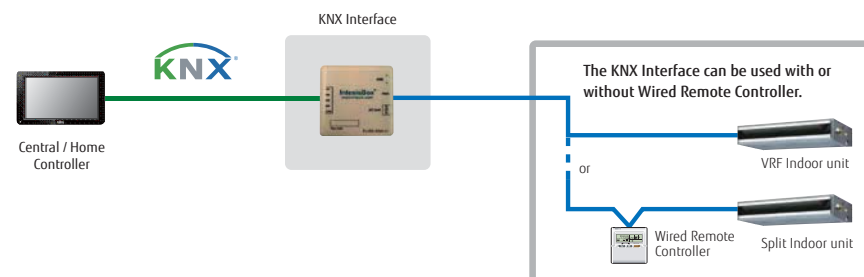
FJ-RC-KNX-1i



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 unit and group controlled (up to 16) indoor units.

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



Specifications

Model name	FJ-RC-MBS-1	FJ-RC-KNX-1i
Dimensions (H × W × D) (mm)	93 × 53 × 58	70 × 70 × 28
Weight (g)	85	70

Specifications

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

Wired Remote Controller

UTY-RVNYM

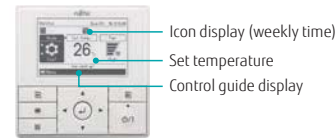


Hi-grade individual control using various functions.

- 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.



Max. Controllable
16 indoor units

Max. Controllable
1 Group

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

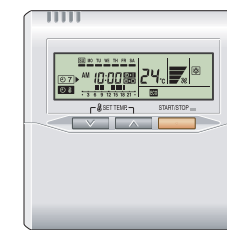
Specifications

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-RNNYM

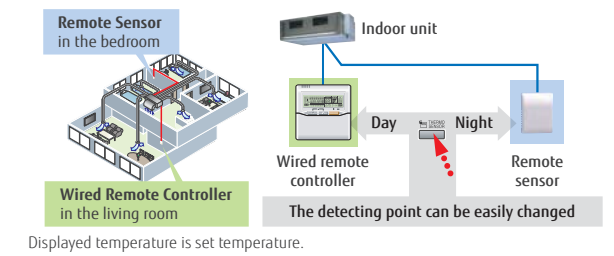


- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Accurate and comfortable

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

Example of changing sensor



Max. Controllable
16 indoor units

Max. Controllable
1 Group

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

Wireless Remote Controller

UTY-LNTY



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

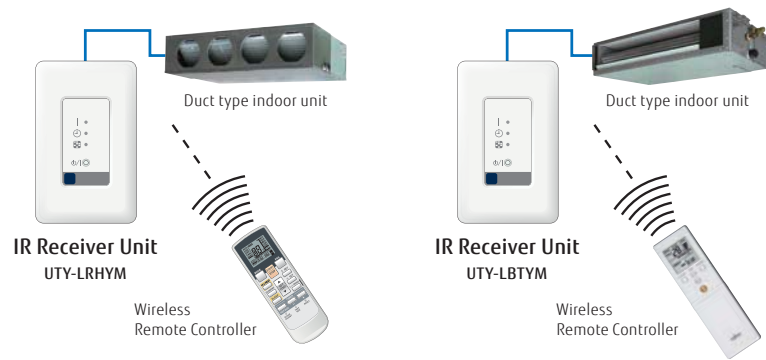
Specifications

Model name	UTY-RNNYM	UTY-LNTY
Power Source	DC 12 V	DC5V
Dimensions (H × W × D) (mm)	120 × 120 × 18	145 × 90 × 30
Weight (g)	160	150

DC 12 V is supplied by the indoor unit.

IR Receiver Unit for Duct

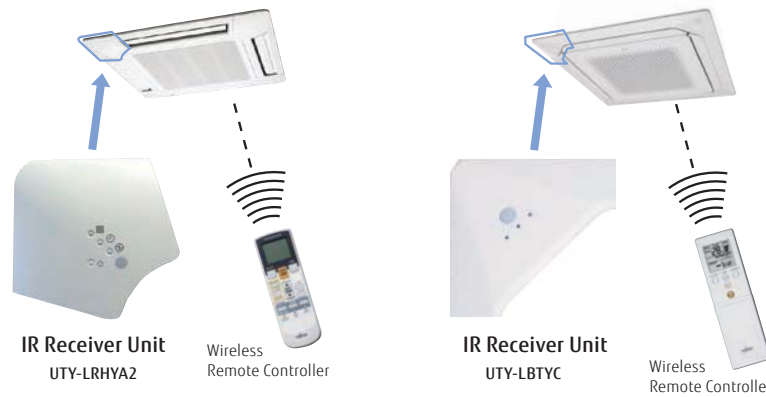
UTY-LRHYM, UTY-LBTYM



Duct type indoor units can be controlled with Wireless Remote Controller

IR Receiver Unit for Cassette

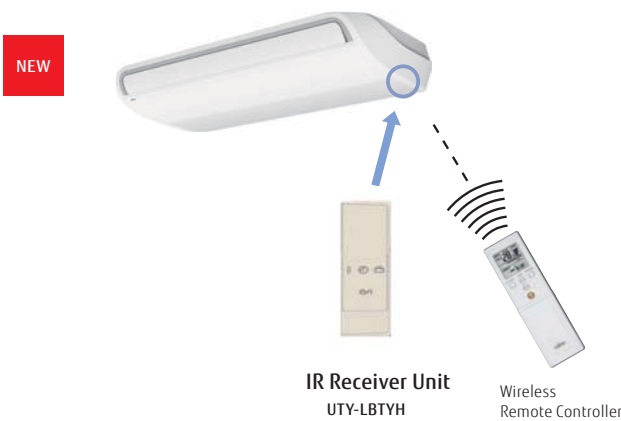
UTY-LRHYA2, UTY-LBTYC



Cassette type indoor unit can be controlled with Wireless Remote Controller

IR Receiver Unit for Ceiling

UTY-LBTYH



Ceiling type indoor unit can be controlled with Wireless Remote Controller

Specifications

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LRHYA2	UTY-LBTYC	UTY-LBTYH
Battery	DC5V	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	174.8 × 48.6 × 23.1
Weight (g)	150	150	140	140	TBA

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DMMYM

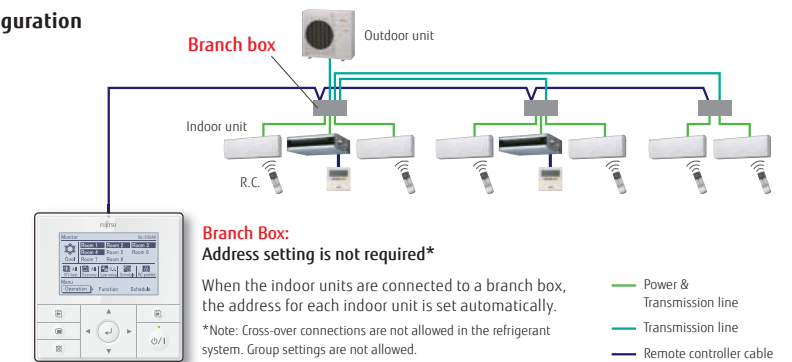


Max. Controllable
1 multi system
Max. Controllable
8 indoor units

For 5-unit, 6-unit, 8-unit multi-split type

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

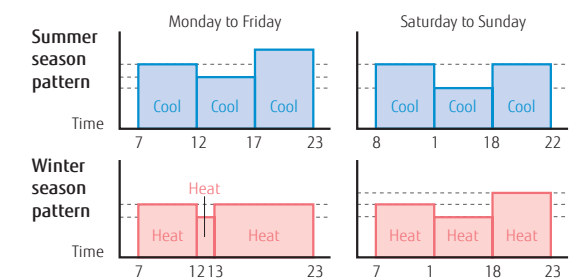
System configuration



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

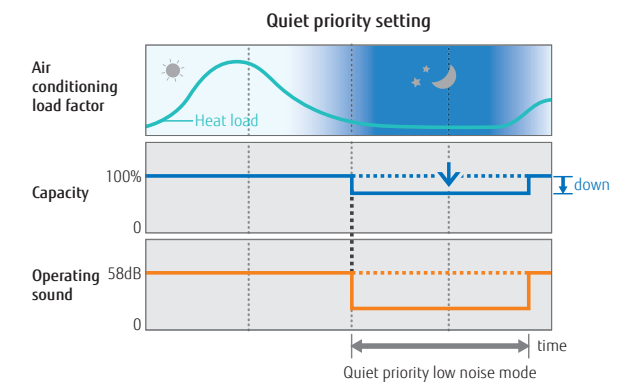
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

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-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.

Network Converter for Single Split

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type

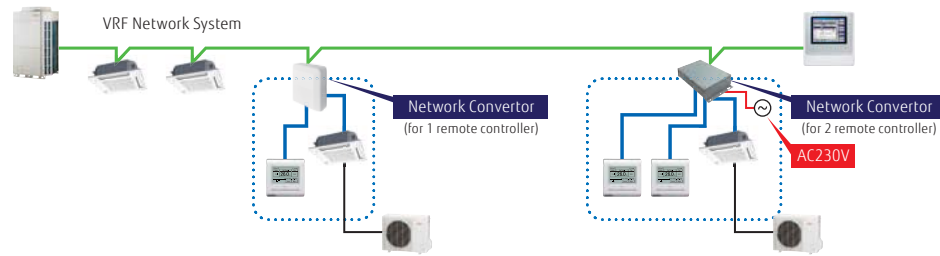


UTY-VTGXV
AC power supply type

- The network converters 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.

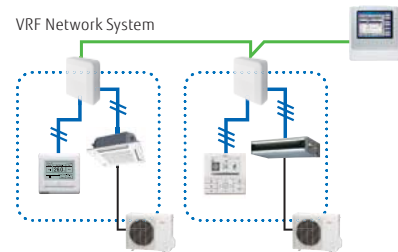


Max. Controllable
16
single indoor units

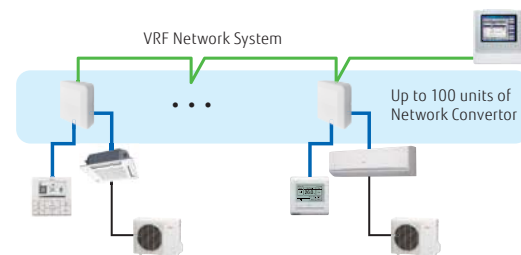
Max. Controllable
1 Group

Max. Controllable
100
Network Convertors

- 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 Converter 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

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

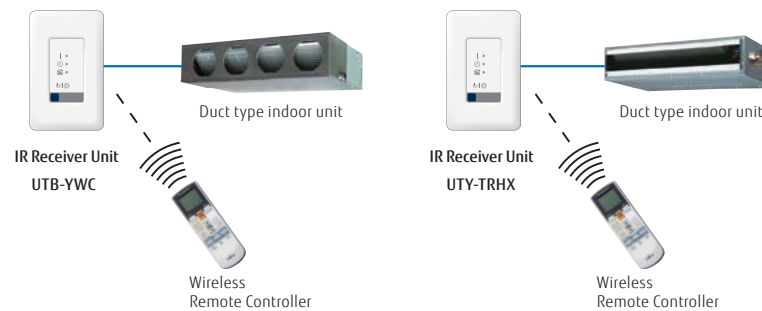
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

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

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



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

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

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHxD, UTY-TRHX



Cassette type indoor unit can be controlled with Wireless Remote Controller

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

Specifications

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1	UTY-LBHxD	UTY-TRHX
Battery	1.5 V (R03 / LR03 / AAA)×2	DC 5 V	DC5V	DC5V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight (g)	85	150	140	140	150

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DCGYZ1



For small- and medium-sized buildings and tenants

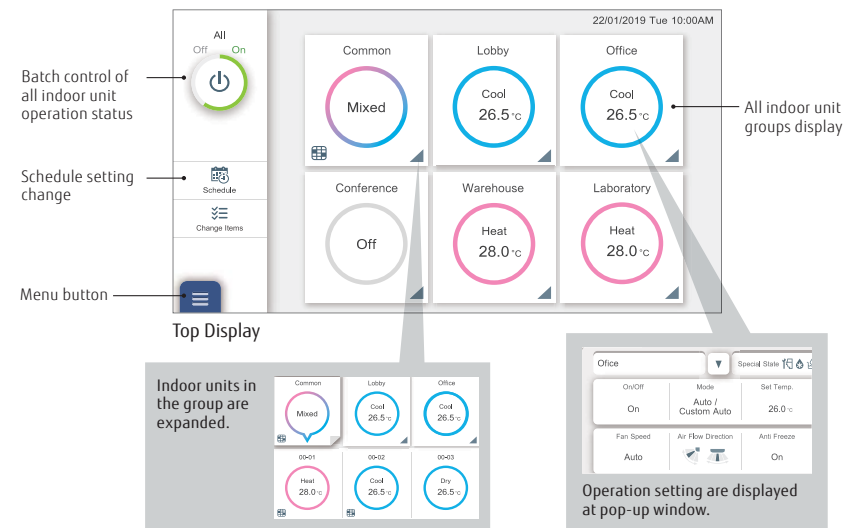
- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

Max. Controllable
100 indoor units

Max. Controllable
50 groups

Easy operation

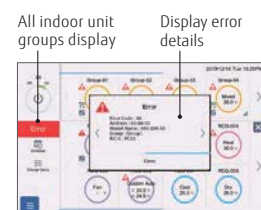
- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top display and the following operations are displayed at pop-up window.



Trouble support function

Display error details

Display descriptive explanation when an error occurs



Sensor value monitoring function

Monitor sensor data of indoor unit / outdoor unit, send mail

Notify room temperature by email*

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

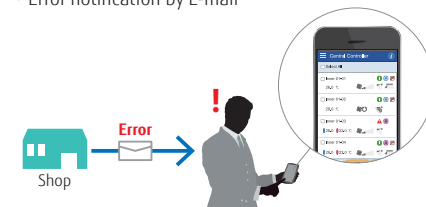
*This function is available only when using wired remote controller.

Remote monitoring / Remote operation

New central remote controller can control your tenant's air conditioner anytime and anywhere.

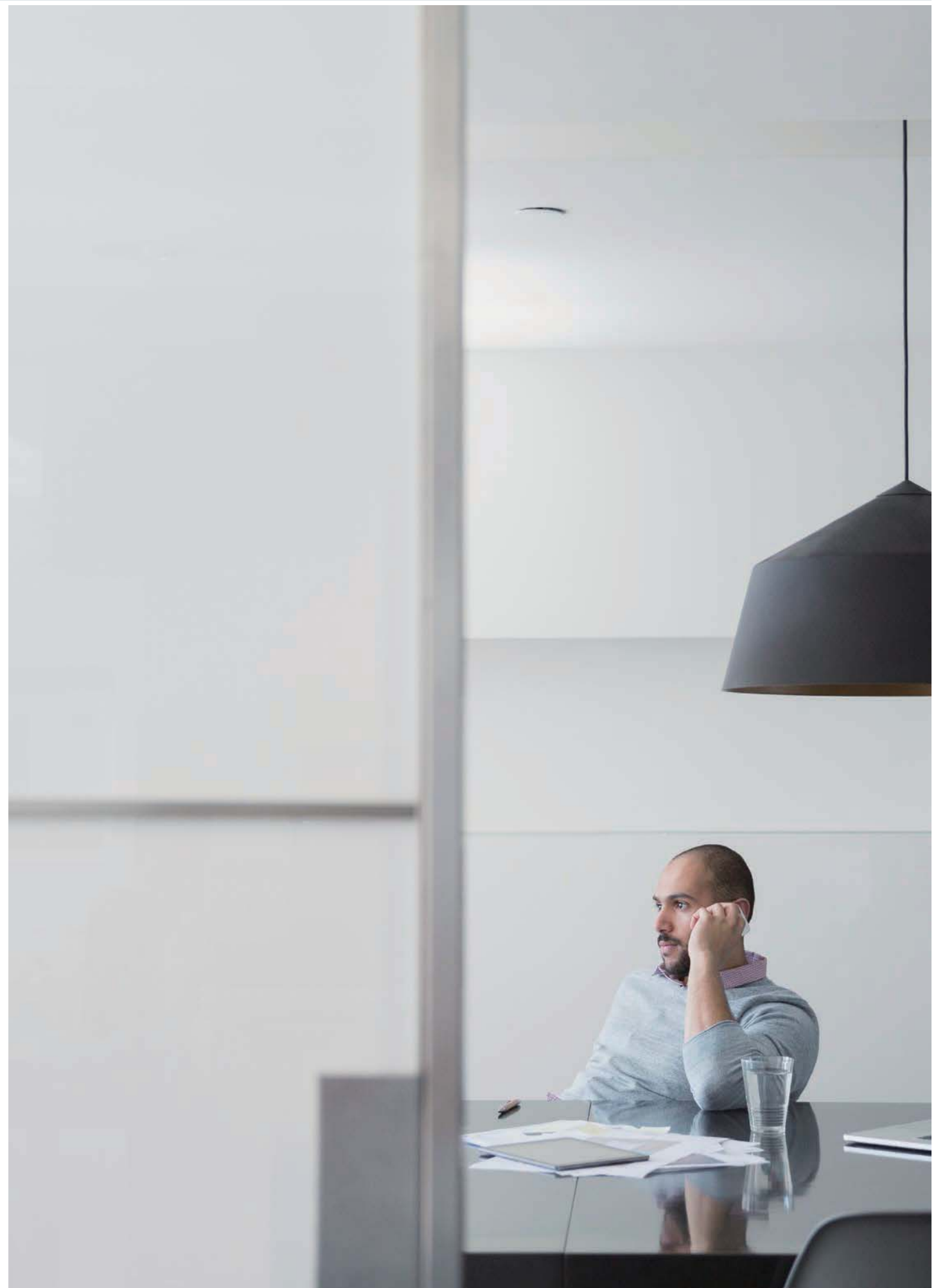
Example

- Control / Monitoring Fujitsu air conditioner
- Error notification by E-mail



Specifications

Model name	UTY-DCGYZ1
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800



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 system

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 .

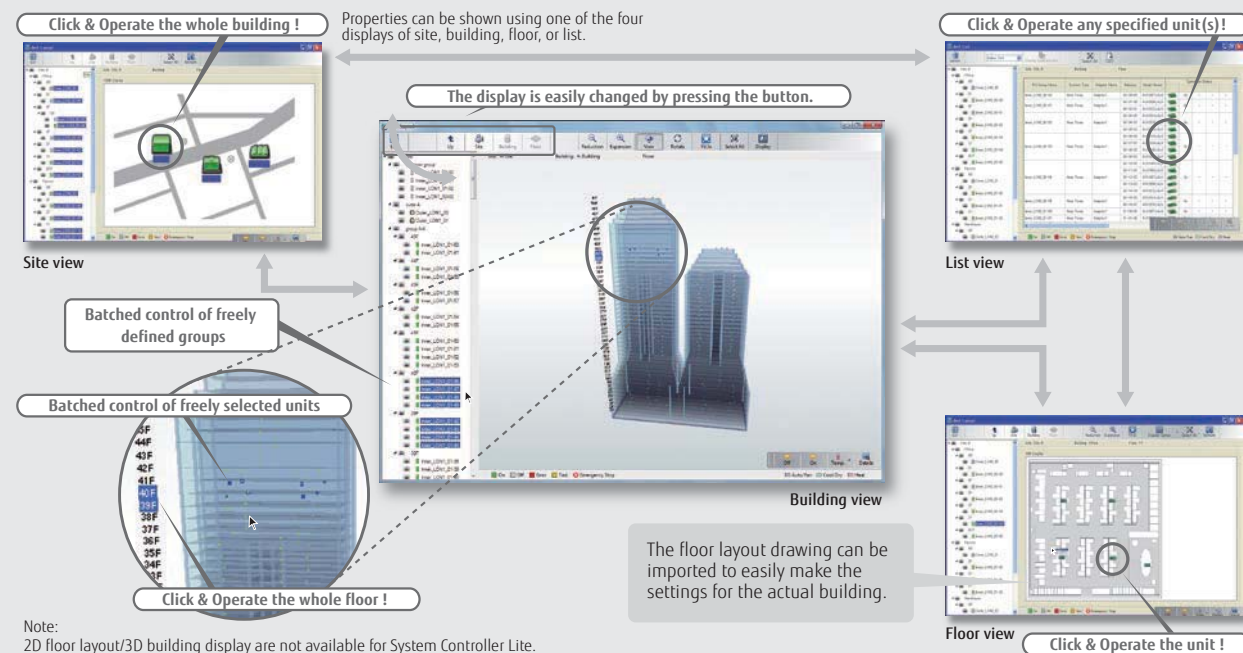
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages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



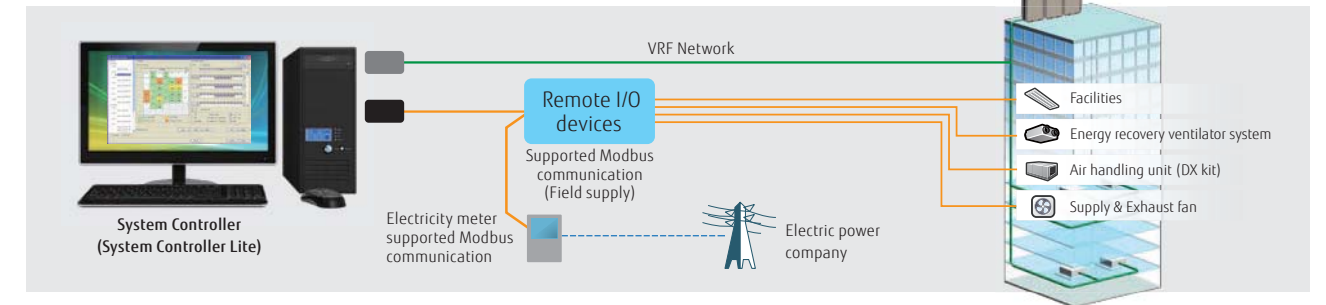
Note: 2D floor layout/3D building display are not available for System Controller Lite.

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

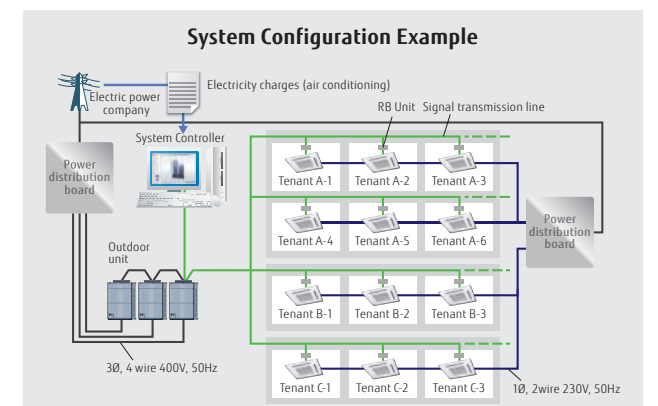
The time setting of each controller can be set in batch automatically.

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.



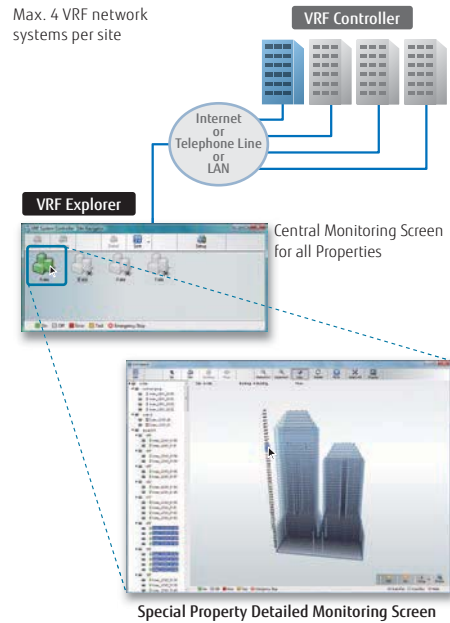
Features: System Controller/System Controller Light

Remote management

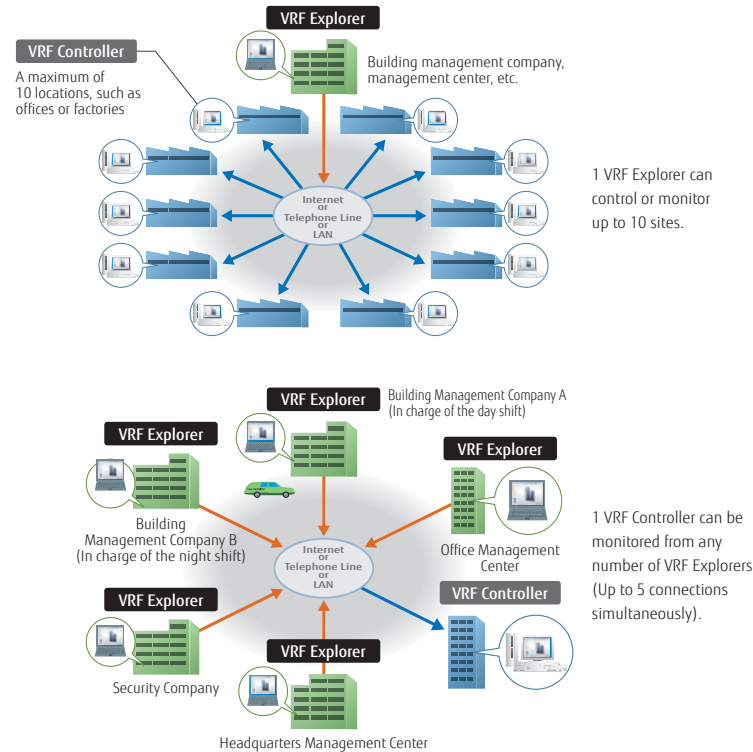
- Standard for System Controller
- Option for System Controller Lite UTU-PLGXR2

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 UTU-PEGXZ1
- Option for System Controller Lite UTU-PLGXE2

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 UTU-PEGXZ1	UTY-ALGXZ1	Option UTU-PLGXR2	Option UTU-PLGXA2	Option UTU-PLGXE2	Option UTU-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	●	—	●	—	—	—	—	
	Individual control	●	—	●	—	—	—	—	
	Individual management	On/Off	●	—	●	—	—	—	—
		Operation mode*	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Air flow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Room temperature set point limitation	●	—	●	—	—	—	—
	Antifreeze	●	—	●	—	—	—	—	
Other	●	—	●	—	—	—	—		
Schedule	Outdoor unit low noise setting	●	—	●	—	—	—	—	
	Remote control prohibition setting	●	—	●	—	—	—	—	
Remote management	Temperature upper and lower limit setting	●	—	●	—	—	—	—	
	Filter sign reset	●	—	●	—	—	—	—	
	Memory operation	●	—	●	—	—	—	—	
	Pattern operation	●	—	●	—	—	—	—	
Electricity charge apportionment	Annual Schedule	●	—	●	—	—	—	—	
	Special day setting	●	—	●	—	—	—	—	
	On / off per day	72	—	72	—	—	—	—	
	On / off per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
Energy saving management	Min. unit of timer setting (Minutes)	10	—	10	—	—	—	—	
	Low noise mode Weekly schedule	●	—	●	—	—	—	—	
	Web Operation	●	—	●	—	—	—	—	
External Device Control	Remote monitoring	●	—	●	—	—	—	—	
	Remote operation control	●	—	●	—	—	—	—	
	Remote function setting	●	—	●	—	—	—	—	
	Apportionment charge/bill calculation	●	—	●	—	—	—	—	
Others	Tenant (block) setting	●	—	●	—	—	—	—	
	Common facilities apportionment setting	●	—	●	—	—	—	—	
	Rated power consumption allotment setting	●	—	●	—	—	—	—	
Energy saving management	Individual calculation at cooling and heating	●	—	●	—	—	—	—	
	Electricity meter supported	●	—	●	—	—	—	—	
External Device Control	Indoor unit rotation	●	—	●	—	—	—	—	
	Peak cut control	●	—	●	—	—	—	—	
Others	Outdoor unit capacity save	●	—	●	—	—	—	—	
	Record of energy saving operation	●	—	●	—	—	—	—	
	Energy saving information	●	—	●	—	—	—	—	
External Device Control	Power consumption monitor	●	—	●	—	—	—	—	
	Electricity meter supported	●	—	●	—	—	—	—	
Others	Monitor	●	—	●	—	—	—	—	
	Control	●	—	●	—	—	—	—	
Others	Database import/export	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
	Multi language	7 languages	—	7 languages	—	—	—	—	
	Refrigerant leakage detection function	●	—	●	—	—	—	—	
Others	Power shutdown	●	—	●	—	—	—	—	
	Power shutdown	●	—	●	—	—	—	—	

●: 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"> 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	<ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) 	<ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space	40 GB or more of free space
Display	1024 x 768 or higher resolution	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 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.	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 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	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	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.

BACnet® Gateway

UTY-ABGXZ1 (Software)



WHITE-USB-KEY (Software Protection Key)

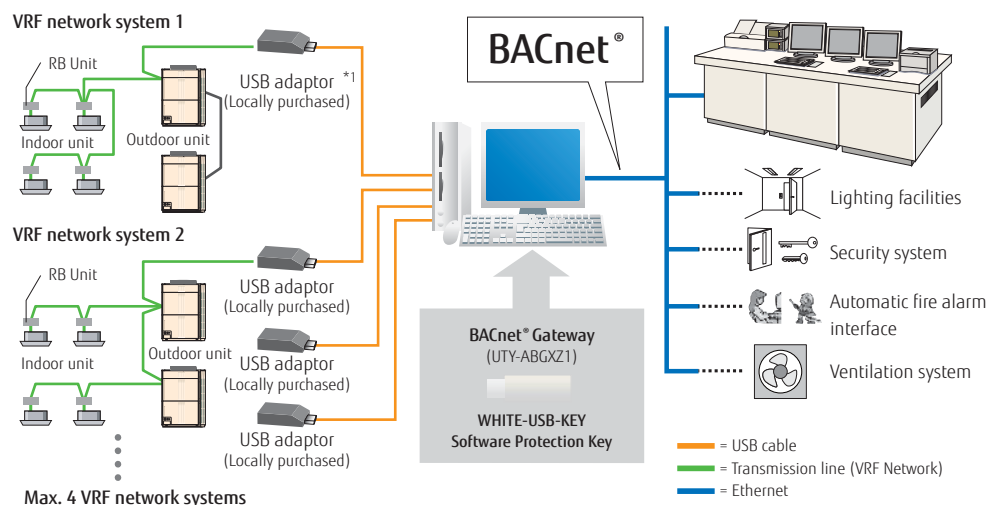


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- Max. Controllable 4 VRF network systems
- Max. Controllable 400 outdoor units
- Max. Controllable 1,600 indoor units

- 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



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

Personal computer system requirements

	UTY-ABGXZ1
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) • USB ports (Maximum of 5 ports) - 1 USB port is 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 ports depends on the applicable system configurations.
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 (Hardware)



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Max. Controllable 1 VRF network system

Max. Controllable 32 refrigerant systems

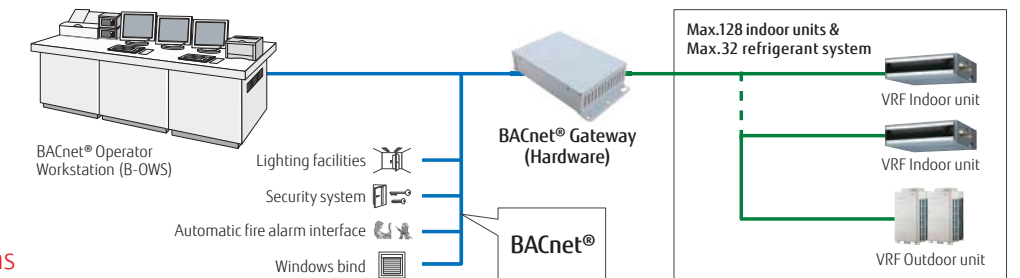
Max. Controllable 128 indoor units

Specifications

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4

Model name	UTY-VBGX
Power Supply	Single phase, 100-240V, 50/60 Hz
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1,200

Installation example



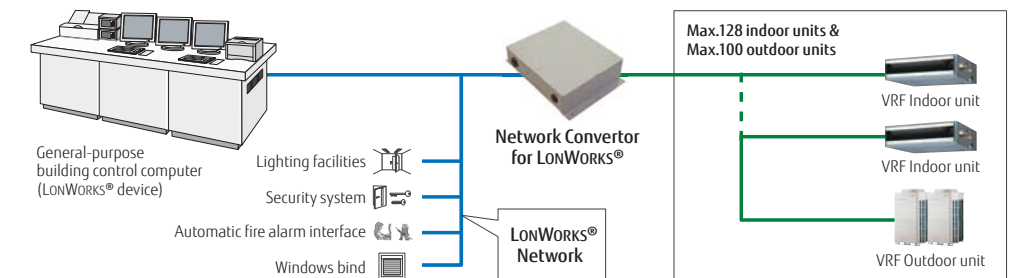
Network Convertor for LONWORKS®

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 Convertor 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 VRF

UTY-VMGX



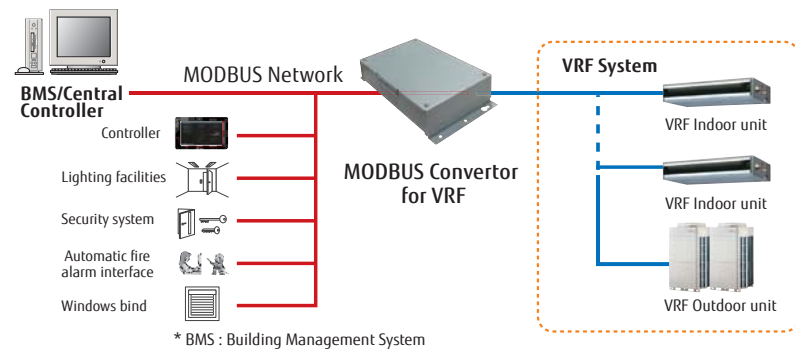
The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- 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.

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units



KNX® Convertor for VRF

UTY-VKGX

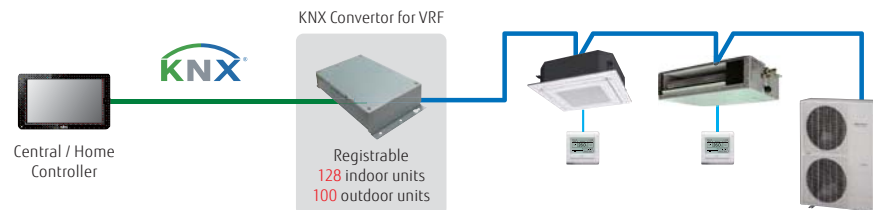


KNX Convertor is useful for centralized control in a system.

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

Max. Controllable
100 outdoor units

Selectable
128 indoor units



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	UTY-VKGX
Power supply	220-240 V 50/60 Hz
Power consumption (W)	1.5
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,200

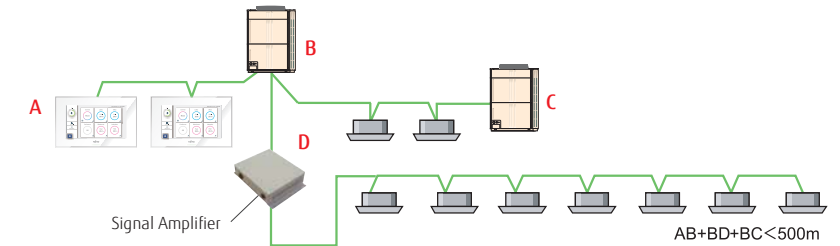
Signal Amplifier

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-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



Controller System List (available) For Split/Multi-split

Controller Options / Accessories:



Type	Indoor unit								Indoor unit								
	Wall Mounted				Cassette				Cassette				Ceiling	Multi-split			
	Flagship Series	Designer Series		Standard Series	ECO Series	Compact 4-way Flow Series	Circular Flow Series	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure	Compact Cassette		Mini Duct	Slim Duct		
ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTA	ASYG 30/36KMTA	ASYG 07/09/12 KPCA	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG 45/54KHTA	ABYG 18/22/24/30/36/45/54 KR1A	AUXG 07KVLA	ARXG 07/09/12/14 KSLAP	ARXG 07KLLAP	
Wired Remote Controller		● UTY-RNRYZ3+ UTY-TWRXZ2		● UTY-RNRYZ3+ UTY-TWRXZ2				● UTY-RNRYZ3						● UTY-RNRYZ3			
		● UTY-RLRY+ UTY-TWRXZ2		● UTY-RLRY+ UTY-TWRXZ2				● UTY-RLRY						● UTY-RLRY			
		● UTY-RCRYZ1+ UTY-TWRXZ2		● UTY-RCRYZ1+ UTY-TWRXZ2				● UTY-RCRYZ1						● UTY-RCRYZ1			
				● UTY-RVNYM+ UTY-TWBXF2				● UTY-RVNYM						● UTY-RVNYM			
				● UTY-RNNYM+ UTY-TWBXF2				● UTY-RNNYM						● UTY-RNNYM			
Simple Remote Controller	 2-wire type	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2		● UTY-RSNYM+ UTY-TWBXF2		● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2		● UTY-RSRY, UTY-RHRY, UTY-RSNYM				● UTY-RSNYM	● UTY-RSRY, UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSNYM			
Central Remote Controller																	
Wireless Remote Controller								● UTY-LNTY						● UTY-LNTY			
IR Receiver Unit with Wireless Remote Controller	 For Duct For Cassette																
	 For Duct For Cassette For Ceiling							● UTY-LBTYC		● UTY-LBTYM				● UTY-LBTYH	● UTY-LBTYM	● UTY-LBTYM	
Interface	MODBUS Converter	● UTY-VMSX		● UTY-VMSX*1	● UTY-VMSX	● UTY-VMSX*1		● UTY-VMSX						● UTY-VMSX			
	MODBUS Interface							● FJ-RC-MBS-1						● FJ-RC-MBS-1			
	KNX Converter	● UTY-VKSX		● UTY-VKSX*1	● UTY-VKSX	● UTY-VKSX*1		● UTY-VKSX						● UTY-VKSX			
	KNX Interface							● FJ-RC-KNX-1i						● FJ-RC-KNX-1i			
	Wireless LAN Interface		● Accessory	● UTY-TFSXW1	● UTY-TFSXW1				● UTY-TFSXZ1		● UTY-TFNXZ1				● UTY-TFSXZ1		
					● UTY-TFSXF2	● UTY-TFSXF2										● FJ-RC-WIFI-1	
External Switch Controller		● UTY-TERX+UTY-TWRXZ2		● UTY-TERX+ UTY-TWBXF2	● UTY-TERX+UTY-TWRXZ2						● UTY-TERX						
Network Converter for Single Split	 DC Power Supply Type AC Power Supply Type	● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGV+UTY-TWRXZ2		● UTY-VTGX+UTY-TWBXF2 or UTY-VTGV+UTY-TWBXF2	● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGV+UTY-TWRXZ2						● UTY-VTGX UTY-VTGV						

*There are no optional parts for KL series.

*1: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed.

Controller System List (available) For Split/Multi-split

Controller Options / Accessories:



Type	Indoor unit														Indoor unit				Outdoor unit	Other				
	Wall Mounted					Cassette			Duct		Duct				Floor	Floor/Ceiling	Ceiling	Multi-split			Single Phase	Branch Box (8 Rooms Multi)		
	Designer Series		Standard Series			Compact 4-way Flow Series	Circular Flow Series	4-way Flow Series	Mini	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure	Big	AGYG 09/12/14 LVCA	ABYG 18/LVTA, ABYG 24/LVTA	ABYG 30/36/LRTE, ABYG 36/45/54 LRTA	Compact Cassette	Mini Duct	Slim Duct	Floor Ceiling	5-unit, 6-unit multi-split	UTP-PY03A UTP-PY02A	
ASYG 09/12/LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30/LFCA, ASYG24/LFCC	ASYG 30/36/LMTA	AUYG 12/14/18 LVLB, AUYG24/LVLA	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 LH1BP	ARYG 24/36/45 LMLA, ARYG 30/36/LMLE	ARYG 45/54/60 LHTA	ARYG 72/90/LHTA				AUYG 07/09/LVLA	ARYG 07/09/LSLAP	ARYG 07/09/LLTA	ABYG 14/LVTA	AOYG 36/LBLA5, AOYG 45/LBLA6			
Wired Remote Controller					• UTY-RNRYZ3+ • UTY-TWRX		• UTY-RNRYZ3		• UTY-RNRYZ3				• UTY-RNRYZ3									• UTY-RNRYZ3		
					• UTY-RLRY+ • UTY-TWRX		• UTY-RLRY		• UTY-RLRY				• UTY-RLRY									• UTY-RLRY		
					• UTY-RCRYZ1+ • UTY-TWRX		• UTY-RCRYZ1		• UTY-RCRYZ1				• UTY-RCRYZ1									• UTY-RCRYZ1		
		• 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-XCBXZ2	• UTY-RNNYM	• UTY-RNNYM+ • UTY-XWNX	• UTY-RNNYM									• UTY-RNNYM									
Simple Remote Controller		• UTY-RSNYM+ • UTY-TWBXF	• UTY-RSNYM+ • UTY-XCBXZ2	• UTY-RSNYM	• UTY-RSNYM+ • UTY-XWNX, • UTY-RSRY, • UTY-RHRY+ • UTY-TWRX	• UTY-RSNYM	• UTY-RSRY, • UTY-RHRY, • UTY-RSNYM	• UTY-RSNYM	• UTY-RSRY, • UTY-RHRY, • UTY-RSNYM			• UTY-RSNYM	• UTY-RSRY, • UTY-RHRY, • UTY-RSNYM			• UTY-RSNYM					• UTY-RSRY, • UTY-RHRY, • UTY-RSNYM	• UTY-RSNYM		
Central Remote Controller																						• UTY-DMMYM		
Wireless Remote Controller																		• UTY-LNTY						
IR Receiver Unit with Wireless Remote Controller							• UTY-LRHYA2					• UTY-LRHYM	• UTY-LRHYM	• UTY-LRHYM (60)	• UTY-LRHYM							• UTY-LRHYM		
							• UTY-LBTYC		• UTY-LBTYM			• UTY-LBTYM		• UTY-LBTYM								• UTY-LBTYM		
Interface	MODBUS Converter				• UTY-VMSX		• UTY-VMSX		• UTY-VMSX			• UTY-VMSX		• UTY-VMSX								• UTY-VMSX		
	MODBUS Interface		• FJ-RC-MBS-1+ • UTY-TWBXF	• FJ-RC-MBS-1+ • UTY-XCBXZ2	• FJ-RC-MBS-1	• FJ-RC-MBS-1+ • UTY-XWNX	• FJ-RC-MBS-1										• FJ-RC-MBS-1							
KNX Converter					• UTY-VKSX		• UTY-VKSX		• UTY-VKSX			• UTY-VKSX		• UTY-VKSX								• UTY-VKSX		
KNX Interface		• FJ-RC-KNX-1i+ • UTY-TWBXF	• FJ-RC-KNX-1i+ • UTY-XCBXZ2	• FJ-RC-KNX-1i	• FJ-RC-KNX-1i+ • UTY-XWNX	• FJ-RC-KNX-1i											• FJ-RC-KNX-1i							
Wireless LAN Interface		• UTY-TFNXZ1+ • UTY-TWBXF	• UTY-TFNXZ1+ • UTY-XCBXZ2	• UTY-TFNXZ1	• UTY-TFNXZ1+ • UTY-XWNX	• UTY-TFNXZ1					• UTY-TFNXZ1		• UTY-TFNXZ1		• UTY-TFNXZ1		• UTY-TFNXZ1				• UTY-TFNXZ1	• UTY-TFNXZ1	• UTY-TFNXZ1	
		• FJ-RC-WIFI-1+ • UTY-TWBXF	• FJ-RC-WIFI-1+ • UTY-XCBXZ2	• FJ-RC-WIFI-1	• FJ-RC-WIFI-1+ • UTY-XWNX	• FJ-RC-WIFI-1												• FJ-RC-WIFI-1						
External Switch Controller		• UTY-TERX+ • UTY-TWBXF	• UTY-TERX+ • UTY-XCBXZ2	• UTY-TERX	• UTY-TERX+ • UTY-TWRX/ • UTY-XWNX	• UTY-TERX															• UTY-TERX			
Network Converter for Single Split		• UTY-VTGX+ • UTY-TWBXF or • UTY-VTGXV+ • UTY-TWBXF	• UTY-VTGX+ • UTY-XCBXZ2 or • UTY-VTGXV+ • UTY-XCBXZ2	• UTY-VTGX	• UTY-VTGX+ • UTY-TWRX / UTY-XWNX or • UTY-VTGXV+ • UTY-TWRX / UTY-XWNX	• UTY-VTGX • UTY-VTGXV															• UTY-VTGX • UTY-VTGXV			

*There are no optional parts for LLC series.

Controller System List (available) For VRF

Controller Options:



Type	Refrigerant	Indoor unit																											
		Cassette						Duct						Duct						Floor		Indoor unit							
		3D Flow	Compact Grid type / Standard type	Slim type		Large type		Low Static Pressure Duct			Medium Static Pressure			High Static Pressure			-	EEV external	Ceiling/Floor	Ceiling	Wall Mounted								
				4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)	Slim High Efficiency	Normal	High Efficiency	Normal	High Efficiency	-	EEV external					-	EEV external	-	EEV external	-	EEV external			
R410A	AUXS 018/024 GLEH	AUXD 004/007/009/012/014/018/024GLEH	AUXD 18/24GALH	AUXA 18/24/30/34/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030/034/036/045/054GLEH	AUXK 018/024/030/034/036/045/054GLEH	ARXK 004/007/009/012/014/018/024GLH	ARXD 04GALH	ARXD 007/009/012/014/018/024 GLEH	ARXP 009/012/014/018 GLAH	ARXA 024/030/036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 45/60GATH	ARXC 036/072/090/096 GTEH	ARXO 030GTAH	AGYA 004/007/009/012/014 CCGH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASYA 004/007/009 GCGH	ASYE 004/007/009 GCEH	ASYA 012/014GCGH	ASYE 012/014GCEH	ASYA 18/24G8CH	ASYA 030/034GTEH			
Controllers		● UTY-RNRYZ3																											
		● UTY-RLRY																											
		● UTY-RCRYZ1																											
		● UTY-RSRY ● UTY-RHRY	● UTY-RSRY, UTY-RHRY, ● UTY-RSKY, UTY-RHKY	● UTY-RSRY ● UTY-RHRY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY	● UTY-RSRY, ● UTY-RHRY, ● UTY-RSKY, ● UTY-RHKY			
		● UTY-LNHY																											
		● UTY-DCGYZ1																											
Interface		● UTY-APGXZ1, UTY-ALGXZ1																											
		● UTY-APGXZ1, UTY-ALGXZ1																											
		● UTY-ABGXZ1, UTY-VBGX																											
		● UTY-VLGX																											
		● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX
		● UTY-VMGX																											
			● FJ-RC-MBS-1		● FJ-RC-MBS-1 (GLAH)			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1
		● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX
		● UTY-VKGX																											
			● FJ-RC-KNX-1i		● FJ-RC-KNX-1i (GLAH)			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i
		● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1
			● FJ-RC-WIFI-1		● FJ-RC-WIFI-1 (GLAH)			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1			● FJ-RC-WIFI-1
		● 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



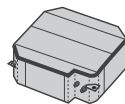
Cassette Grille

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



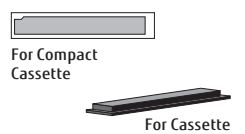
Fresh Air Intake Kit

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



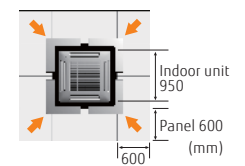
Insulation for High Humidity

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



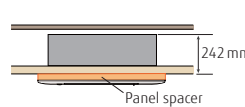
Air Outlet Shutter Plate

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



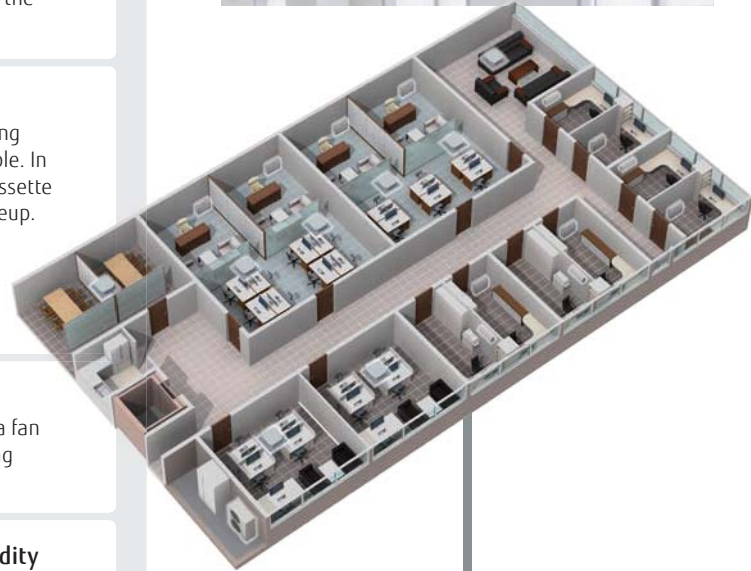
Wide Panel

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

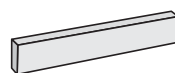


Panel Spacer

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



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



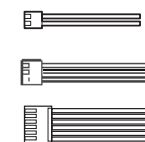
External Input and Output PCB

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

For Wall Mounted type



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-split type or VRF system.



External Power Supply Unit

External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the 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

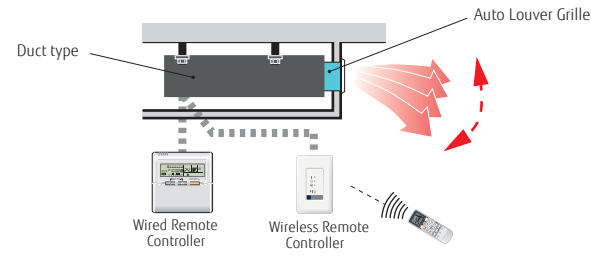


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

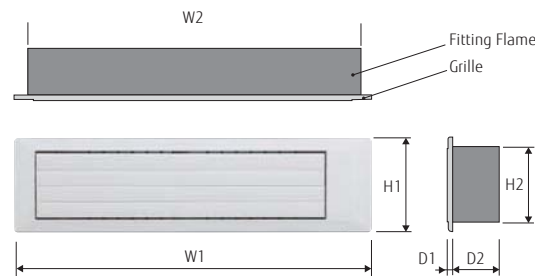


Flexible Control

- 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	ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (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	

External Power Supply Unit

UTZ-GXXA

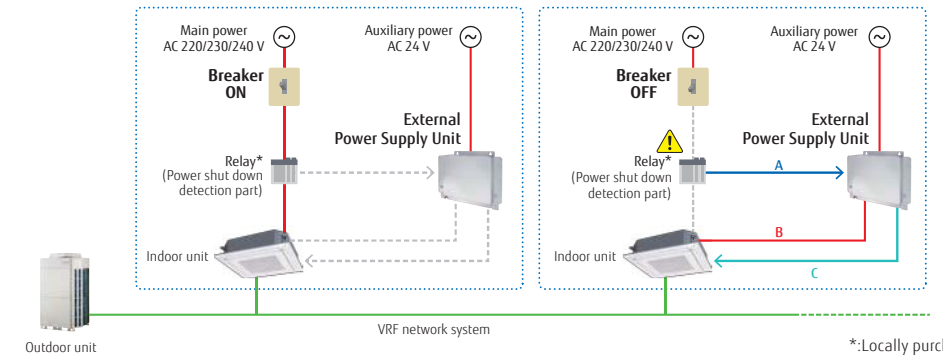


External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

Power is supplied to the indoor unit from auxiliary power by connecting to External Power Supply Unit. This makes it possible to operate continuously without system error.

High Reliability

- A: Main power shut down can be detected at power shut down detection part.
- B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
- C: Power supply from External Power Supply Unit is notified.



- Note**
- When changing the power supply voltage to AC24V, use a power transformer with an insulation structure equivalent to CLASS 2.
 - Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

Specifications

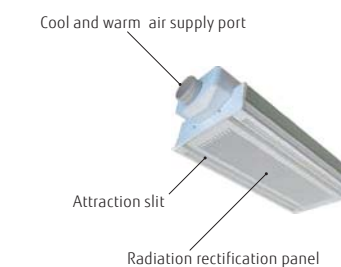
Model name	UTZ-GXXA
Power Supply	AC 24 V 50/60 Hz, single phase
Dimensions (H × W × D) (mm)	65 × 186 × 178
Weight (g)	500

AIR BEAM Radiation Air Outlet Unit

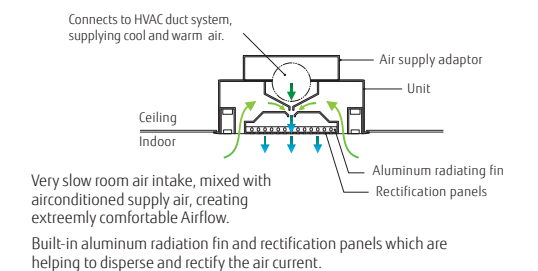
*Production by order
Please get in touch with us for more details.



Key component



Cross-section view



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

Optional Parts List For Split/Multi-split



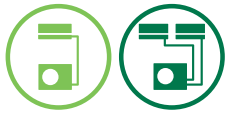
Type	Refrigerant	Indoor unit										Indoor unit									
		Cassette			Duct			Duct				Floor	Ceiling		Wall Mounted		Wall Mounted	Multi-split			
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim		Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure	Big		ABYG 18/22/24/30/36/45/54 KRTA	ABYG30/36LRTE, ABYG 36/45/54 LR1A	ASYG 07/09/12 KPCA	ASYG 07/09/12 LLCE		ASYG14KMCC	4-way flow Compact Cassette	Mini Duct	Slim Duct
R32	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB		ARXG 09/12/14/18 KLLAP		ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG45/54KHTA		ABYG 18/22/24/30/36/45/54 KRTA	ABYG30/36LRTE, ABYG 36/45/54 LR1A	ASYG 07/09/12 KPCA	ASYG 07/09/12 LLCE	ASYG14KMCC	AUYG07KVLA	ARYG 07/09/12 KSLAP	ARYG07KLLAP				
R410A	AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUYG30/36LRLE, AUYG 36/45/54 LRLA	ARYG12/14/18LSLAP		ARYG12/14/18LLTB	ARYG 12/14/18/24/30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG30/36LMLE	ARYG45/54/60LHTA		ABYG 09/12/14 LVCA	ABYG30/36LRTE, ABYG 36/45/54 LR1A	ASYG 07/09/12 LLCE	ASYG14KMCC	AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA	ABYG14LVTA			
Human Sensor Kit			• UTY-SHZXC																		
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.						• UTY-XSZX					• UTY-XSZX							• UTY-XSZX		
Cassette Grille		• UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA, LVLB)	• UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B	• UTG-UGYA-W														• UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA)			
Auto Louver Grille Kit					• UTD-GXTA-W (09/12/14) • UTD-GXTB-W (18)	• UTD-GXSA-W (12/14) • UTD-GXSB-W (18) • UTD-GXTA-W (12/14) • UTD-GXTB-W (18)												• UTD-GXTA-W (07/09/12)			
Long Life Filter							• UTD-LFNA (36/45/54) • UTD-LFNB (18/22/24/30) • UTD-LFNC (12/14)	• UTD-LF25NA	• UTD-LF60KA (45/54)			• UTD-LFKA									
Flange								• UTD-SF045T • UTD-RF204				• UTD-RF204									
Drain Pump Unit								• UTZ-PX1NBA				• UTZ-PX1NAB			• UTR-DPB24T						
Wide Panel			• UTG-AKXA-W	• UTG-AGYA-W																	
Panel Spacer			• UTG-BKXA-W	• UTG-BGYA-W																	
Fresh Air Intake Kit		• UTZ-VXAA	• UTZ-VXRA	• UTZ-VXGA														• UTZ-VXAA			
Air Outlet Shutter Plate		• UTR-YDZB	• UTR-YDZK	• UTR-YDZC														• UTR-YDZB			
Insulation for High Humidity		• UTZ-KXGC	• UTZ-KXRA	• UTZ-KXGA														• UTZ-KXGC			
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.										• UTR-STA										
L-type Piping Kit												• UTP-FX24A (18/22/24) • UTP-FX35A (30/36/45/54)									
Remote Controller Holder															• UTR-RXLA						
Adapter																		• Adapter H			

Optional Parts List For VRF



Type	Refrigerant	Indoor unit														Indoor unit				Wall Mounted						
		3D Flow	Compact Grid type / Standard type	Cassette		Duct		Duct		Duct		Duct		Floor		Floor / Ceiling	Ceiling	Wall Mounted								
				Slim type	Large type	Slim type	Large type	Low Static Pressure Duct	Medium Static Pressure	High Static Pressure	Normal	High Efficiency	Normal	High Efficiency	Normal			High Efficiency	EEV external	EEV external	EEV external					
R410A	AUXS 018/024GLEH	AUXB 004/007/009/012/014/018/024GLEH	AUXD 18/24GALH	AUXA 18/24/30/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/034/036/045/054GLEH	ARXX 004/007/009/012/014/018/024GLGH	ARXD 04GALH	ARXD 007/009/012/014/018/024 GLEH	ARXP 009/012/014/018 GLAH	ARXA 024/030/036/045 GLEH	ARXD 018/024GTAH	ARXP 024/030GTAH	ARXC 45/60GATH	ARXC 036/072/090/096 GTEH	ARXD 030GTAH	AGYA 004/007/009/012/014 CCGH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASYA 004/007/009/012/014 CCGH	ASYE 004/007/009/012/014 GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH		
IR Receiver Unit		•		•		•	•	•			•	•	•													
Human Sensor Kit						•																				
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.								•																	
Cassette Grille	 UTG-USYA-W UTG-UFYE-W UTG-UFYC-W UTG-UKYC-W UTG-UKYA-B UTG-UGYA-W	•	•	•	•																					
Auto Louver Grille Kit								•		•																
Long Life Filter										•	•	•	•	•												
Flange										•	•	•											•			
Drain Pump Unit										•	•												•			
Wide Panel				•	•																					
Panel Spacer				•	•																					
Fresh Air Intake Kit*1	 For Compact Cassette For Cassette		•	•	•																					
Air Outlet Shutter Plate	 For Compact Cassette For Cassette		•	•	•																					
Insulation for High Humidity	 For Compact Cassette type/ Cassette type		•	•	•	•																				
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.																	•								
External Power Supply Unit		•				•			•		•				•								•		•	

Function List For Split/Multi-split



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

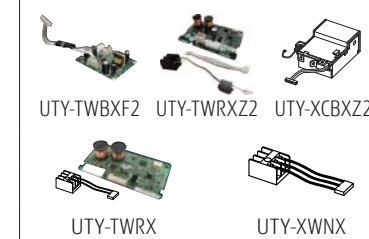
Type	Refrigerant	Indoor unit																		Indoor unit										Multi-split				Outdoor unit																				
		Wall Mounted																		Cassette			Duct				Floor	Ceiling	Floor/Ceiling	Ceiling	Mini Duct	Slim Duct	Compact Cassette	Single Split																				
		Designer Series			Standard Series			ECO Series			Designer Series			Standard Series			ECO Series			Compact 4-way Flow Series	Circular Flow Series	4-way Flow Series	Mini	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)								High Static Pressure	Big	Single Phase	8-unit multi-split	Simultaneous Multi																
		ASYG 07/09/12/14 KCB	ASYG 07/09/12/14 KETA	ASYG 07/09/12/14 KMCC	ASYG 18/24/KMTA	ASYG 30/36/KMTA	ASYG 07/09/12 KPCA	ASYG 18/24/KLCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30/LFCA, ASYG24LFCC	ASYG 30/36/LMTA	ASYG 07/09/12 LLCE	AUYG 08/12/21/4 KVLA	AUYG 18/22/24/30/36/45/54 KAKRELB	AUYG 12/14/18 LRLB, AUYG24LVLVA	AUYG 18/24/30/36/45/54 LRLB	AUYG 30/36/36/36 E, AUYG 36/45/54 LELA	ARYG 09/12/14/18KLLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/22/24/30/36/45/54 KHTAP	ARYG 22/24/30/36/45 KMLA	ARYG 45/54 KHIA	ARYG 45/54/60 LHIA	ARYG 22/24/30/36/45/54 LHTA	ARYG 07/09/12/14 KSLAP								ARYG 07KLLAP	AUYG 07KVLVA	AOYG 30/36/45/54 KBTB, AOYG 36/45/54 KETA	AOYG 36/45/54 KBTB, AOYG 36/45/54 KETA	AOYG 45/54/60 LATI	AOYG 45/54/60/72/90/LRLA	AOYG 45/LBTB	AOYG 36/45/LBTB	AOYG 36/45/54 LATI												
Operation/Stop	● UTY-XWZ2+ UTY-XWZX	● UTY-XWZ2+ UTY-XWZ25	● UTY-XWBZ2+ UTY-XWZ25	● UTY-XCSXZ2+ UTY-XWZ25			● UTY-XWZ25+ UTY-XWBZ2	● UTY-XWZ25+ UTY-XCBZ2	● UTY-XWZ2	● UTY-XWZ2 or ● UTY-XWZ2+ UTY-XCSZ2 + UTY-GXOB	● PCB Terminal or ● UTY-XCSX+ UTY-GABA	● UTY-XWZ2	● PCB Terminal or ● UTY-XCSX+ UTY-GABA	● UTY-XWZ2			● PCB Terminal	● UTD-ESSA	● PCB Terminal or ● UTY-XCSX+ UTY-GABA	● PCB Terminal	● UTD-ESSA	● PCB Terminal or ● UTY-XCSX	● UTY-XWZ2	● PCB Terminal or ● UTY-XCSX+ UTY-GXA	● UTY-XWZ2	● PCB Terminal	● UTD-ESSA	● PCB Terminal	● UTY-XWZ2	● PCB Terminal	● UTD-ESSA								● UTY-XWZ23				● UTY-XWZ23											
Batch Stop																																												● UTY-XWZ23										
Forced Stop	● UTY-XWZ2+ UTY-XWZX	● UTY-XWZ2+ UTY-XWZ25	● UTY-XWBZ2+ UTY-XWZ25	● UTY-XCSXZ2+ UTY-XWZ25			● UTY-XWZ25+ UTY-XWBZ2	● UTY-XWZ25+ UTY-XCBZ2	● UTY-XWZ2	● UTY-XWZ2 or ● UTY-XWZ2+ UTY-XCSZ2 + UTY-GXOB	● PCB Terminal	● UTY-XWZ2	● PCB Terminal	● UTY-XWZ2			● PCB Terminal	● UTD-ESSA	● PCB Terminal	● UTY-XWZ2	● PCB Terminal	● UTD-ESSA	● PCB Terminal or ● UTY-XCSX	● UTY-XWZ2	● PCB Terminal	● UTY-XWZ2	● PCB Terminal	● UTD-ESSA	● PCB Terminal	● UTY-XWZ2	● PCB Terminal	● UTD-ESSA	● PCB Terminal																					
Emergency Stop																																															● UTY-XWZ23							
Forced Thermostat off	● UTY-XWZ2+ UTY-XWZX			● UTY-XCSZ2+ UTY-XWZ25						● UTY-XWZ2 or ● UTY-XWZ2+ UTY-XCSZ2 + UTY-GXOB	● UTY-XCSX+ UTY-GABA		● UTY-XCSX+ UTY-GABA							● UTY-XCSX		● UTD-ESSA	● UTY-XCSX																															
Low Noise Mode Operation																																																● UTY-XWZ23	● UTY-XWZ23		● UTY-XWZ23		○ UTY-XWZ2Z	
Cooling / Heating Priority																																																						
Outdoor Unit Operation Peak Control																																																						

*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-SPLIT

Communication Kit



External input and output PCB



UTY-XCSXZ2 for Wall Mounted type
UTY-XCSX for Duct and Cassette type

External input and output PCB Box



UTZ-GXXB
UTZ-GXRA (For Cassette)
UTZ-GXEA (For Ceiling)
UTZ-GXNA

External input and output PCB Bracket

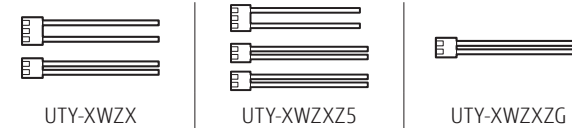


UTZ-GXNA

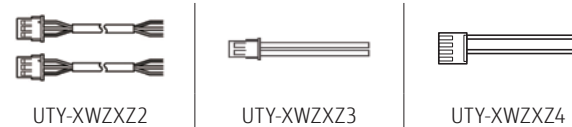
Communication system

External Connect Kit

For Indoor Unit

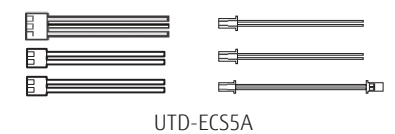


For Outdoor Unit



External Control Set

For Indoor unit



Separation Tube etc.



For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

Separation Tube		Branch Box	
UTP-SX236A / UTP-SX254A For 3 phase simultaneous multi-split UTP-SX272A For Simultaneous multi-split Twin / Triple / Double Twin 	UTP-SX354A For 3 phase simultaneous multi-split UTP-SX372A For Simultaneous multi-split Twin / Triple / Double Twin 	UTP-SX248A For 8-unit multi-split Liquid pipe Gas pipe 	UTP-PY03A UTP-PY02A For 8-unit multi-split 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 	UTP-J0906A / UTP-J1806A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-J0908A / UTP-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
Model code \leq 09 : UTR-EV09XB Model code \geq 12 : UTR-EV14XB For Compact Wall Mounted type

RB Unit			
UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type 	UTP-RX04BH Multi-split type 	NEW UTP-RX08AH Multi-split type 	NEW UTP-RX12AH Multi-split type

Specifications

Separation Tube

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

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

Header

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

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

Outdoor unit Branch kit

Model name	UTP-CX567A (for V-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	ASYE004GCEH ASYE007GCEH ASYE009GCEH	AGYE004GCEH AGYE007GCEH AGYE009GCEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

Type	Single type			Multi-split type			
	Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	230/1/50						
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW	Q \leq 8.0	Q \leq 18.0	Q \leq 28.0	Q \leq 56.1*1	Q \leq 72.0	Q \leq 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q \leq 8.0	Q \leq 18.0	Q \leq 28.0	Q \leq 18.0	Q \leq 8.0	Q \leq 8.0
Maximum number of connectable indoor units per branch		3	8	8	8	7	7
Dimensions (H×W×D)	mm	198×298×268			260×658×428	298×660×618	298×990×618

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