

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



For Duct



For 1-Way Flow Cassette/3D Flow Cassette/Duct

IR Receiver Unit

UTB-YWC For Duct

UTY-TRHX

For 1-Way Flow Cassette/3D Flow Cassette/Duct



For Cassette



For Circular Flow Cassette

UTY-LRHYB1 For Cassette
UTY-LBHXD

For Circular Flow Cassette

Air Conditioning Centralized Control



USB Adaptor*1

(Locally purchased)

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)



Convertor/Adaptor

For system expansion

Network Converter

(DC power supply)

UTY-VTGX



Single split



Network Converter

(AC power supply)

UTY-VTGXV



Single split

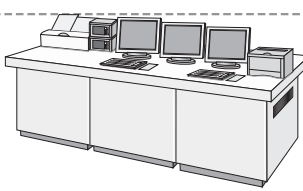


Signal Amplifier

UTY-VSGXZ1



BMS/BAS^{*3}



BMS^{*3}, Home automation system










^{*3}: BMS/BAS: Building Management System/Building Automation System











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® Convertor	KNX® Convertor
	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® Convertor	KNX® Convertor	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® Convertor	KNX® Convertor	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	Period	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	●	●	●	—	—	—		—	—	—	●	●	●	●
Control	Min. unit of timer setting (Minutes)		10 • 30	30	30	—	—		—	5	5	5	10	10	10
	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



Max. Controllable
16 indoor units

Max. Controllable
1 Group

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

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

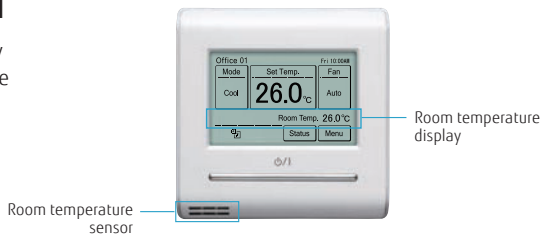
High performance and compact size

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



Accurate and comfortable control

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

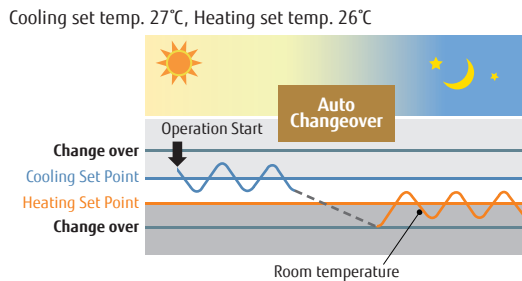


Various energy saving control

Custom Auto

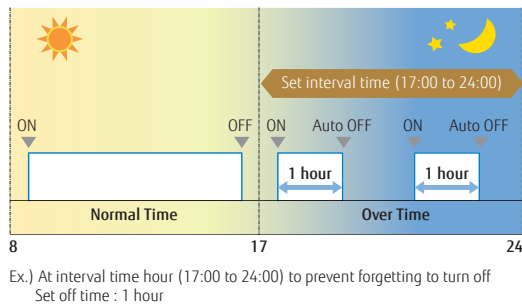
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.



Auto OFF timer

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



2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

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



Max. Controllable
16 indoor units

Max. Controllable
1 Group

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

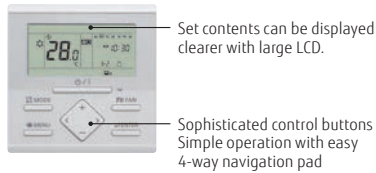
High performance and compact size

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



High visibility and easy operation

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

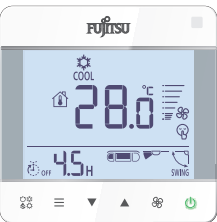


Compact Wired Remote Controller

UTY-RCRYZ1



NEW



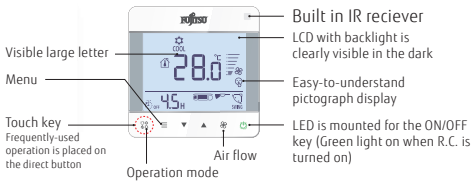
Max. Controllable
1 single indoor unit

Max. Controllable
1 Group

- 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

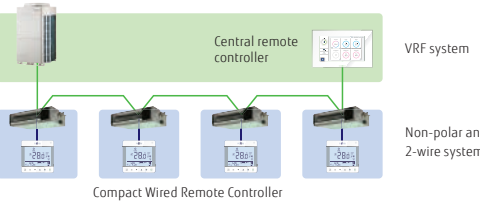
Large screen and simple display

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

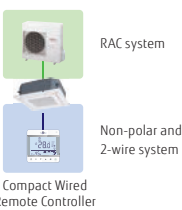


System overview

VRF connection



RAC connection



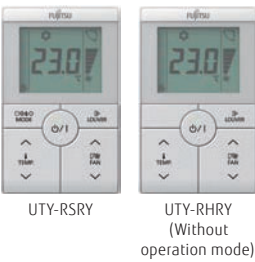
Specifications

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)



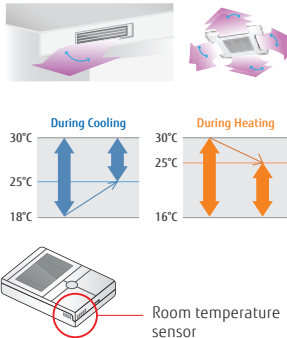
Compact remote controller provides access to basic functions

- 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

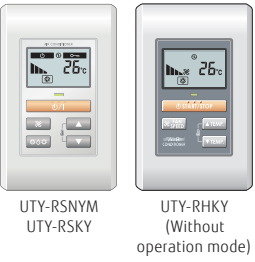
Corresponding to various applications

- **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

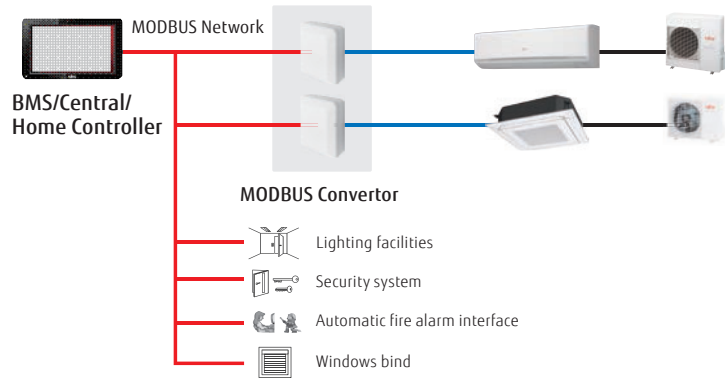
UTY-VMSX



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.

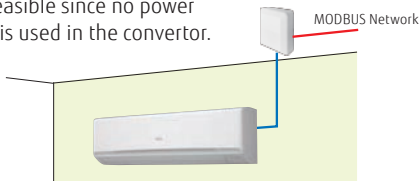


Basic control

- 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

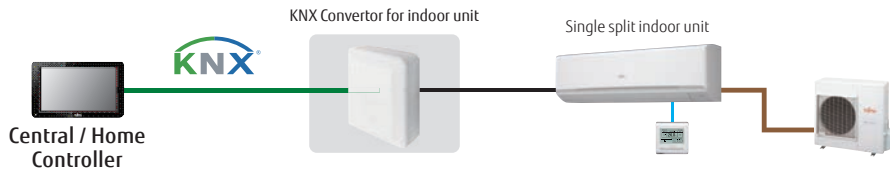
UTY-VKSX



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)

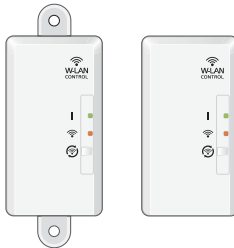
Model name	UTY-VKSX
Power supply	DC 12 V
Power consumption (W)	0.6
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	215

Wireless LAN Interface

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



USB type for single split models
UTY-TFSXF2

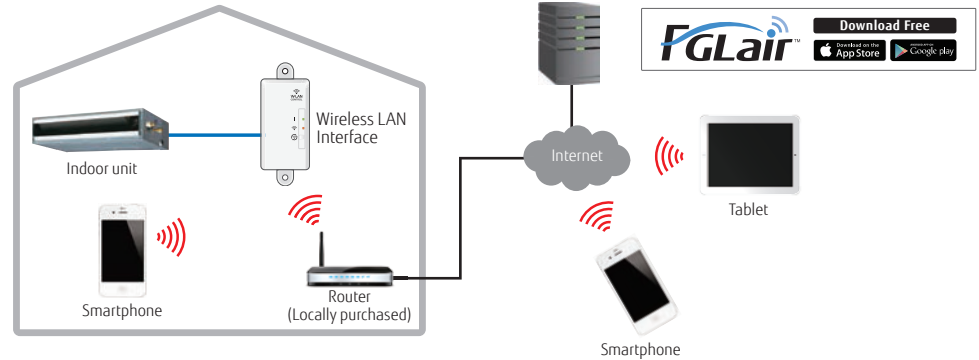


UTY-TFNXZ1
UTY-TFSXZ1

UTY-TFSXW1

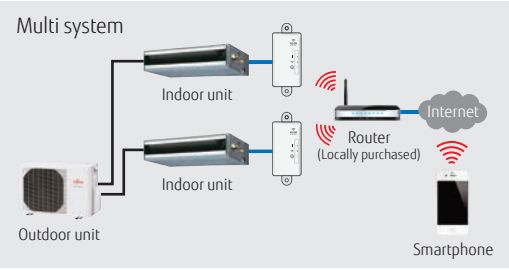
Max. Connectable
1 Single indoor unit

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



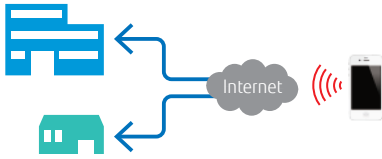
Basic control

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



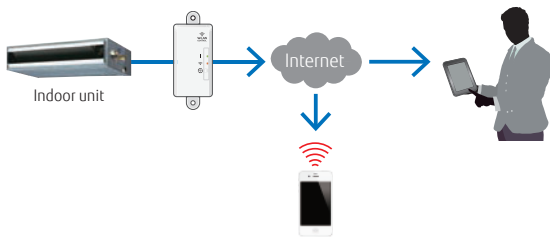
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

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



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

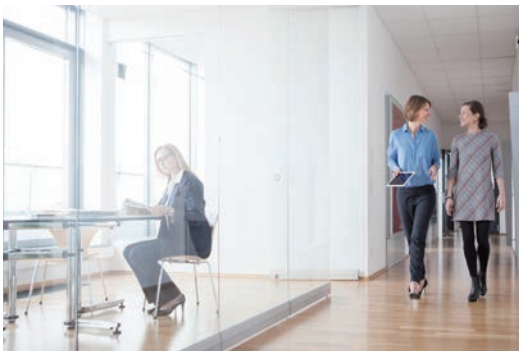
UTY-TERX



Max. Controllable
1 group

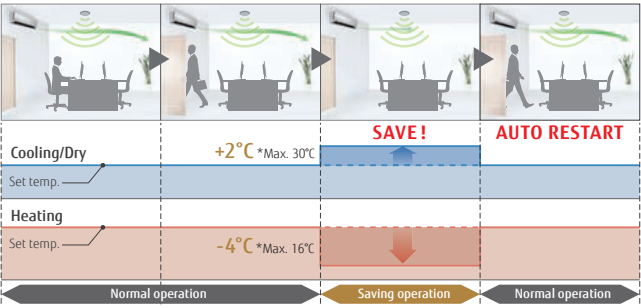
Air conditioner switching can be controlled by connecting other sensor switches

- 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

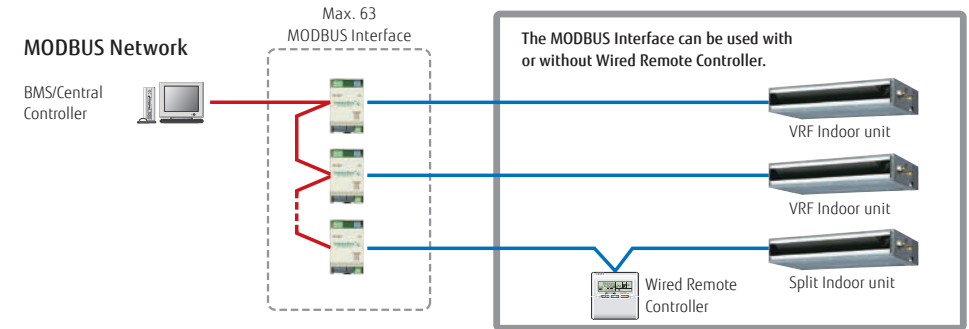
FJ-RC-MBS-1



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

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

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



KNX® Interface

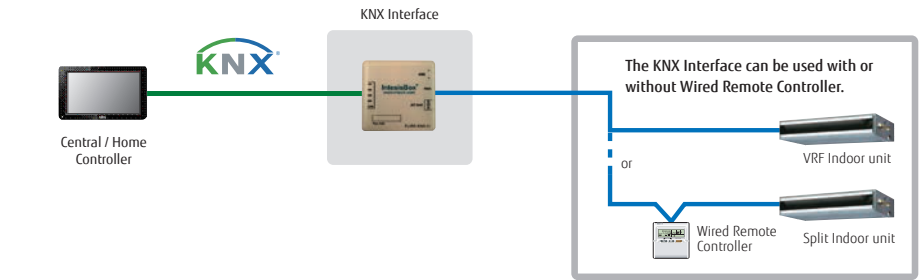
FJ-RC-KNX-1i



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

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

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



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

Wireless LAN Interface

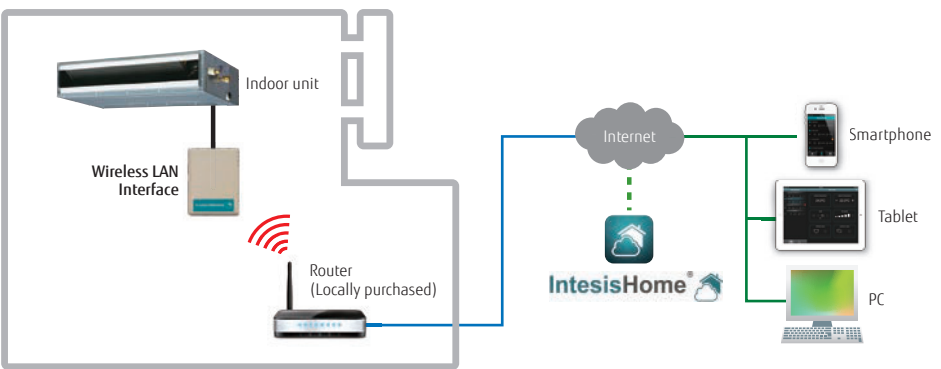
FJ-RC-WIFI-1



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



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



Basic control

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



(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

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

Specifications

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

Wired Remote Controller

UTY-RVNYM



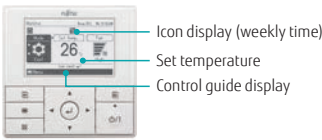
Max. Controllable
16 indoor units
Max. Controllable
1 Group

Hi-grade individual control using various functions.

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

High visibility and Easy operation

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



High performance and compact size

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



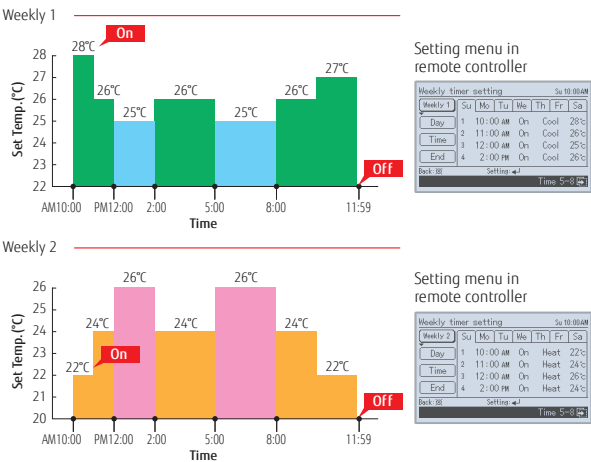
Various energy saving control

Weekly Timer function

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

Auto OFF Timer

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



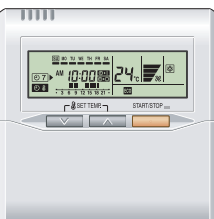
Specifications

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

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RNNYM



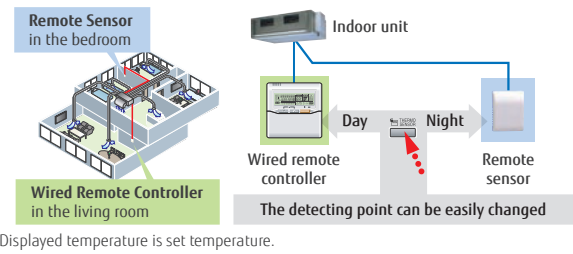
Max. Controllable
16 indoor units
Max. Controllable
1 Group

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

Accurate 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



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

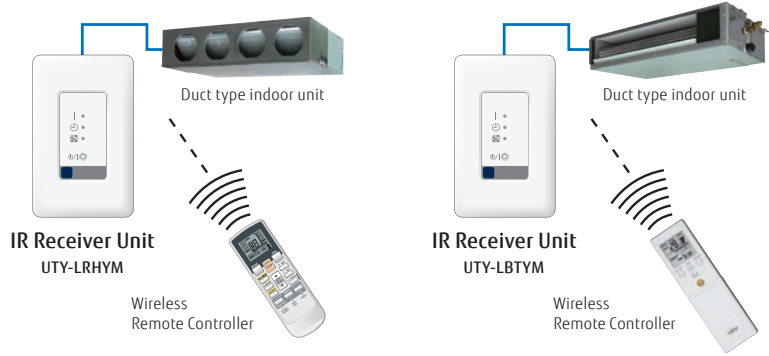
Specifications

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

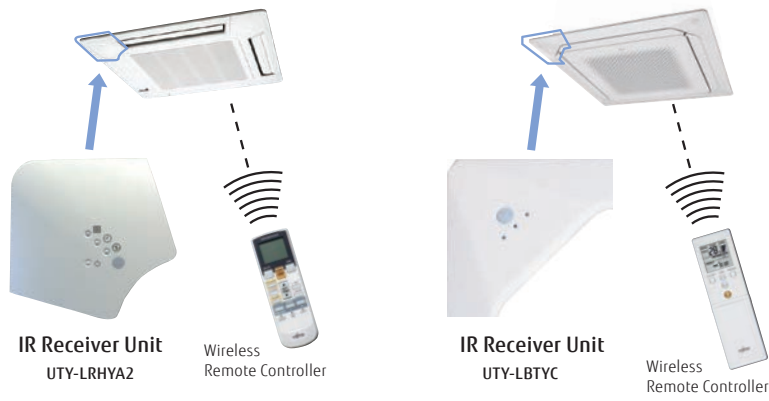
UTY-LRHYM, UTY-LBTYM



Duct type indoor units can be controlled with Wireless Remote Controller

IR Receiver Unit for Cassette

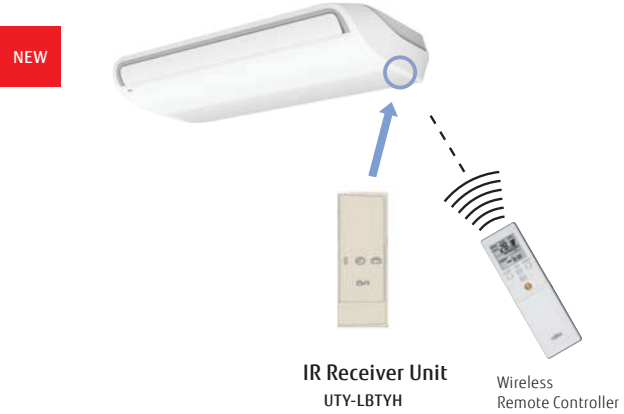
UTY-LRHYA2, UTY-LBTYC



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

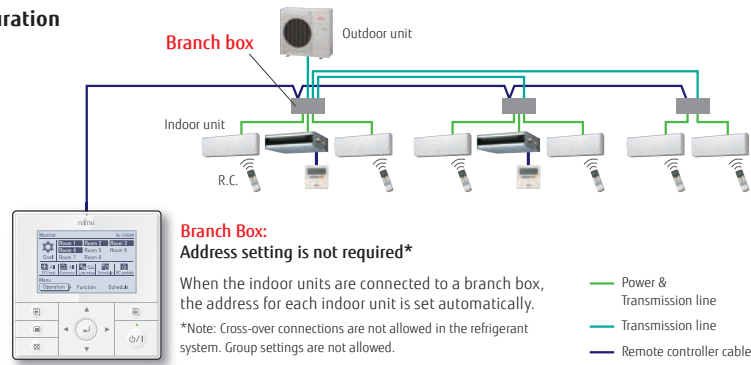


Max. Controllable
1 multi system
Max. Controllable
8 indoor units

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

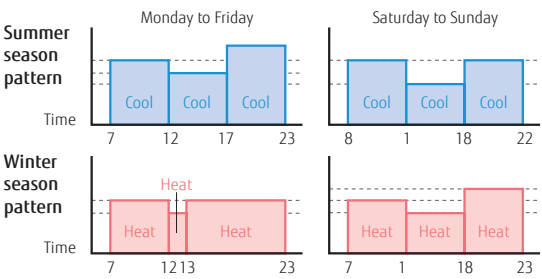
System configuration



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

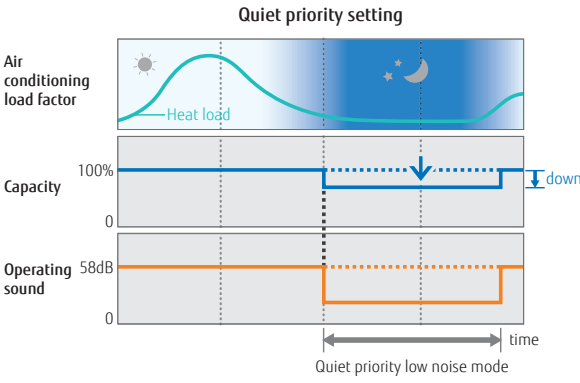
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

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 Convertor for Single Split

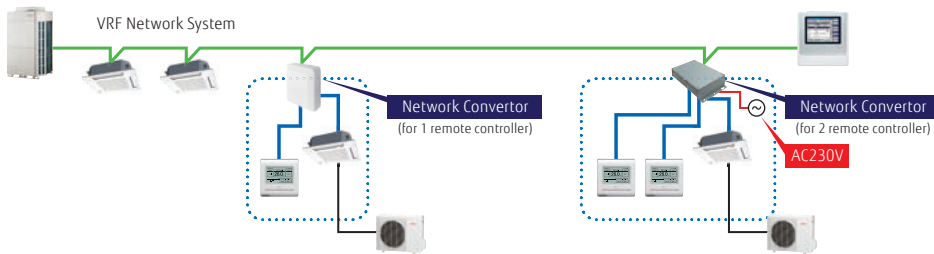
UTY-VTGX / UTY-VTGXV



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

Installation example.

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

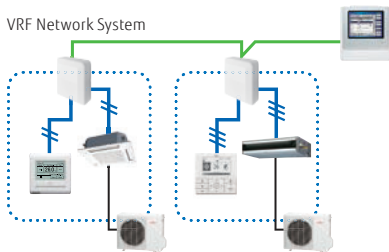


Max. Controllable
16
single indoor units

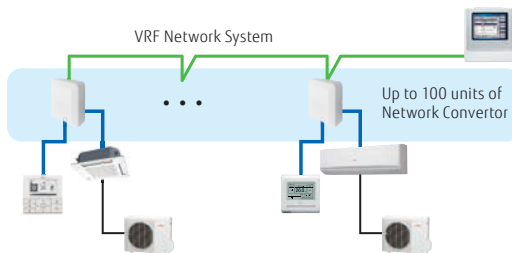
Max. Controllable
1 Group

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 Convertor is connectable in one VRF network system)



Specifications

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

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

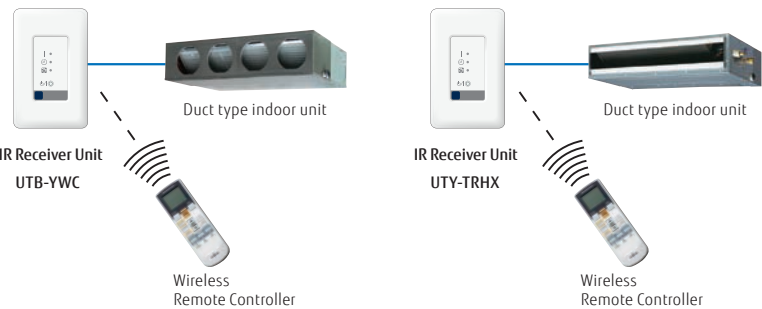
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

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-LBH XD, 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-LBH XD	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.