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MULTI SPLIT



SMALL VRF



LARGE VRF

# **CONTROL SYSTEM** OVERVIEW for SPLIT & MULTI SPLIT

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

# Air Conditioning Individual Control



#### Wired Remote Controller

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



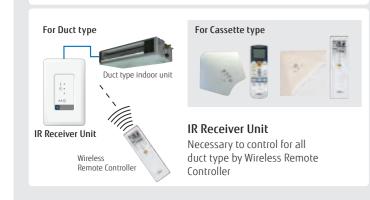
#### Wireless Remote Controller

Simple and sophisticated operations with a choice of 4



#### Simple Remote Controller

Compact remote controller provides access to basic functions





# Air Conditioning **Centralized** Control



#### **Central Remote Controller** For 5-6 & 8 Rooms Multi

Central Remote Controller allows individual and central control

# **Online** Control

(Wireless Control via Smart Phone/Tablet)

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



## Wireless LAN Interface

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



## User friendly app

User friendly screen display facilitates easy operation.

Convertor/Adaptor

For external control via BMS/

**Home Automation Systems** 

MODBUS® Convertor

MODBUS® Interface

UTY-VMSX

FJ-RC-MBS-1

KNX® Convertor For indoor unit UTY-VKSX

KNX® Interface

For indoor unit

FJ-RC-KNX-1i

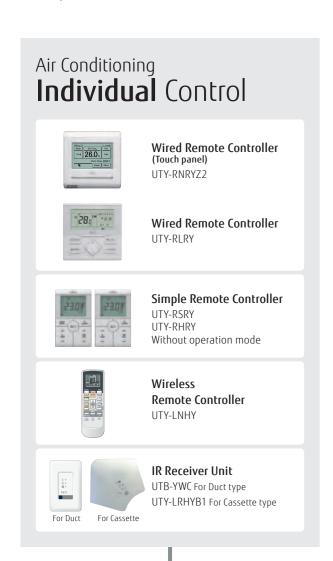


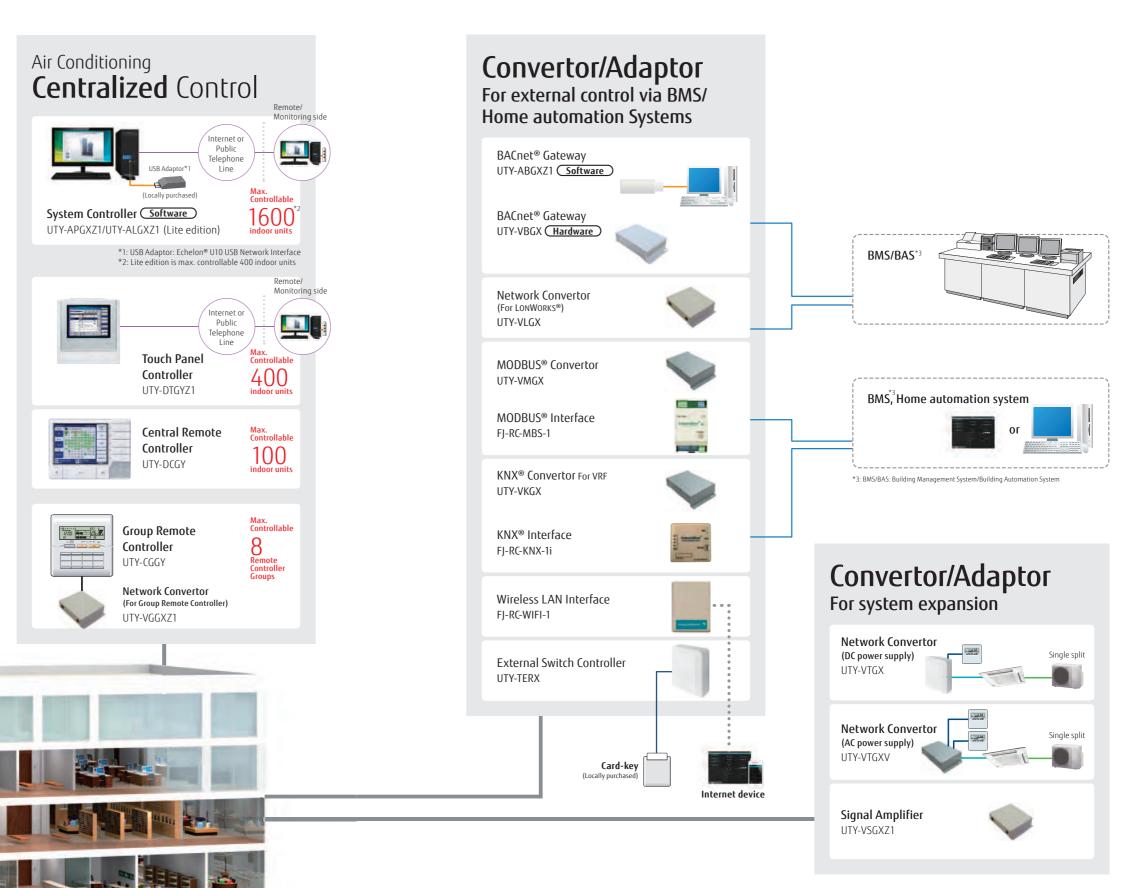
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CONTROL SYSTEM

# 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.





# **Best Control Solution for Each Property**

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

SHOP

Туре	Individual Control		Centralize	ed Control		Integ	rating Control (Inte	erface)
100						<b>\Q</b>	<b>\</b>	-
TO THE REAL PROPERTY.	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor
To the	UTY-RNRYZ2, UTY-RLRY, UTY-RVNYM	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	•	•	•	•	•			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			•	•	•	•	•	•
Group Control		•	•	•	•			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					•			
Remote Management				•	•			
Manage multiple sites				•	•			
Monitor energy consumption					•			
Control third party products					•			
Integrate FGL A/C into BMS						•	•	•

# HOTEL

Туре	Individ	lual Control			Centraliz	ed Control			Integratio	ng Control (I	nterface)	
		55					<b>_</b> [	<b>Q</b>	0	<b>\</b>	<b>\</b>	
33	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controlle
	UTY-RNRYZ2, UTY-RLRY, UTY-RVNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	•	•	•									
Centralized A/C control for common space				•	•	•	•	•	•	•	•	
Limited control for hotel guests					•	•	•	•	•	•	•	
Remote Management						•	•					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							•	•				
Monitor energy consumption							•					
Control third party products							•					
Integrate FGL A/C into BMS								•	•	•	•	
Interlock with window contact												•
Interlock with key-card												•

OFFICE

Туре	In	dividual Control			Centraliz	ed Control			Integrati	ng Control (I	nterface)	
1		E 58					<b></b> 6	0	0	<b>\</b>	<b>\</b>	
CHEST TOP	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
Est. St.	UTY-RNRYZ2, UTY-RLRY	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY- DTGYZ1	UTY- APGXZ1, UTY- ALGXZ1	UTY- ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	•	•	•	•	•							
Automatic control of A/C (Schedule timer, Weekly timer etc.)	•		•	•	•	•	•	•				
Centralized A/C control for management					•	•	•	•	•	•	•	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)					•	•	•	•	•	•	•	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							•	•				
Remote Management						•	•					
Energy Charge Apportionment						•	•	•				
Monitor energy consumption							•					
Control third party products							•					
Integrate FGL A/C into BMS								•	•	•	•	
Interlock with door contact												•
Interlock with human sensor for meeting room												•

VENTILATION

CONTROL SYSTE

AIK 10 WAIEK

# Comparison Table of Controllers

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		Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite Software	System Controller Software
Model name		UTY-RNRYZ2	UTY-RLRY	UTY-RVNYM	UTY-RSNYM	UTY-RSRY	UTY-RHRY	UTY-LNHY	UTY-DMMYM	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote of	controller groups	1	1	1	1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor u	ınits	16	16	16	16	16	16	16	8	128	100	400	400	1600
Max. controllable groups		-	_	-	_	_	-	-	-	-	16	400	400	1600
On / Off		•	•	•	•	•	•	•	•	•	•	•	•	•
Operation mode settin	ng	•	•	•	•	•	_	•	•	•	•	•	•	•
Fan speed setting		•	•	•	•	•	•	•	•	•	•	•	•	•
Room temp. setting		•	•	•	•	•	•	•	•	•	•	•	•	•
Room temp. set point	limitation	•	•	•	-	•	•	_	-	-	•	•	•	•
Test operation		•	•	•	•	•	•	•	-	-	•	•	-	-
Up/down air direction I	flap setting	•	•	•		•	•	•		-	•	•	•	•
Right/left air direction	flap setting	•	•	•		-	-	•		-	•	•	•	•
Individual louver contr	rol	•	-	-	=	-	-	-	-	-	=	•	-	-
Group setting		-	=	-	=	-	-	-	-	=	•	•	•	•
RC prohibition		-	-	-	-	-	-	_	•	-	•	•	•	•
Anti freeze setting		•	-	-	-	-	-	_	-	-	•	•	•	•
Set temp. auto return		•	•	•	-	-	-	-	-	-	-	•	-	-
Economy mode setting	g	•	•	•	-	_	-	•	•	-	•	•	•	•
Human sensor control		•	-	-	-	-	_	-	•	-	_	•	•	•
Error		•	•	•	•	•	•	-	•	•	•	•	•	•
Defrosting		•	•	•	•	•	•	-	_	-	•	•	•	•
Current time		•	•	•	_	_	_	•	•	•	•	•	•	•
Day of week		•	•	•	_	_	-	-	_	•	_	•	•	•
R.C. prohibition		•	•	•	•	•	•	_	•	•	•	•	•	•
Cooling/heating priorit	ity	•	•	_	•	•	•	_	_	•	•	•	•	•
Address display		•	•	•	•	•	•	_	_	•	•	•	•	•
Room temp		•	_	•	_	•	•	_	_	-	-	•	-	_
Multi language		•	_	•	_	_	_	_	•		•	•	•	•
Summer time		•	_	•	_	_	_	_	•	-	•	•	•	•
Name registration		•	_	_	_	_	_	_	_	-	•	•	•	•
Backlight		•	_	•	•	•	•	_	•	-	•	•	_	_
2D floor layout / 3D bu	uilding display	_	_	_	_	_	_	<del>-</del>	_		_	_	_	•
Refrigerant leakage de		_	_	_	_	_	_	=	_	_	_	•	•	•
Period		Week	Week	Week	_	_	_	_	Week	Week	Week	Year	Year	Year
Schedule on/off,	, Temp, Mode, per day	8	4	8	_	_	-	-	4	4	20	20	144	144
On/off timer		•	•	•	_	-	_	•	_	-	_	_	_	-
Sleep timer		-	_	_	_	_	_	•	_	=	_	_	_	_
Program timer		_	_	_	_	_	_	•	_		_	_	_	_
Auto off timer		•	•	•	=	_	_		=		=	•	_	_
Day off		•	•	•	_	_	_		•	_	•	•	•	•
Min. unit of timer setti	ing (Minutes)	10 • 30	30	30	_	_	_	5	5	10	10	10	10	10
Status monitoring syst		-	-	_	_	_	_		_		•	•	•	•
Electricity charge appo		_	_	_	_	_	_	_	_	_	_	0	0	•
Error history		•	•	•	_	_	_	_	_	•	•	•	•	•
Emergency stop		_	_	_	_	_	_	_	_	_	●* <sup>2</sup>	<b>●*</b> <sup>2</sup>	_	_
Remote management		_	_	_	_	_	_	_	_		_	•	0	•
Energy saving manage		_	_	_	_	_	_		_		_	_	0	0
E-mail notification for		_	_	_	_	_	_	_	_		_	•	•	•
Key lock	Giranedoli	• Child lock	• Child lock	• Child lock	_	_	_	<del>_</del>	• Child lock	• Child lock	• Password	• Password	• Password	• Password
Low noise mode		Child lock	Child lock	- Child lock	_	_	_	-	Child lock	- Child lock	setting —	setting	setting —	setting —

# Wired Remote Controller (Touch Panel)







Max. Controllable 16 indoor units

Max. Controllable I 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.



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

Change ove

## 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.

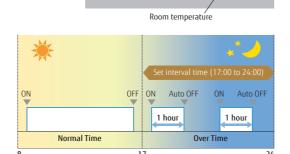
#### Auto OFF timer

- The indoor unit automatically is turned off when it reaches to the preset operating time
- 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



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

#### **Specifications**

Model name	UTY-RNRYZ2
Power Source	DC 12 V
Dimensions (H $\times$ W $\times$ D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

# Wired Remote Controller











Max. Controllable 16 indoor units

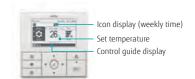
Max. Controllable 1 Group

## 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



CONTROL SYSTEM

Specifications	
Model name	UTY-RVNYM
Power Source	DC 12 V
Dimensions ( $H \times W \times D$ ) (mm)	120 × 120 × 21.3
Weight (a)	220

DC 12 V is supplied by the indoor unit.









Max. Controllable 6 indoor units Max. Controllable I 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.)

## High performance and compact size

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



## High visibility and easy operation

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



# Wired Remote Controller

UTY-RNNYM







Max. Controllable 16 indoor units Max. Controllable

I 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 new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

# Example of changing sensor

Displayed temperature is set temperature

#### **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

#### Specification

198

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

#### DC 12 V is supplied by the indoor unit.

# Simple Remote Controller

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











Without operation mode

# Compact remote controller provides access to basic functions

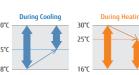
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight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

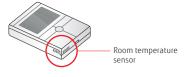
Max. Controllable 16 indoor units Max. Controllable 1 Group

# 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 25. **№** 25° • 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.



operation mode

# Easy-to-use operation

• 3-wire type

• 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

Max. Controllable

Max. Controllable

I Group

16 indoor units

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





Max. Controllable 16 indoor units

Max. Controllable T Group Selectable

4 daily timers

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

• A single controller controls up to 16 indoor units.

#### **Built-in timers**

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

## Easy installation and operation

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

# IR Receiver Unit

UTB-YWC / UTY-LRHYM / UTY-LBTYM

















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

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

# IR Receiver Unit

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

UTY-LRHYA2



**UTY-LBHXD** for VRF





Cassette type indoor unit can be controlled with Wireless Remote Controller

#### **Specifications**

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

DC 12 V is supplied by the indoor unit.

# Group control of indoor units with simple operation

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

CONTROL SYSTEM-CENTRALIZED CONTROL

UTY-CGGY / UTY-VGGXZ1

12:00 26.7.

**Group Remote Controllers** 

UTY-CGGY

Network Convertor UTY-VGGXZ1 For Group Remote Controller

controller groups

92 indoor units in

2 refrigerant circuits

Max. Controllable

Max. Controllable

8 Groups

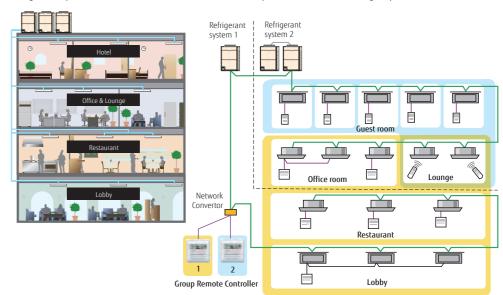
Max. Controllable

remote

8

# Control up to 8 remote controller groups

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



To control office room, lounge, restaurant and lobby (8 remote controller groups)

To control guest room and lounge (7 remote controller groups)

## High performance and compact size

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



## Built-in weekly timers

The weekly timer is provided as a standard function

DC 12 V is supplied by the indoor unit.

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

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

# Central Remote Controller







Max. Controllable 100 indoor units

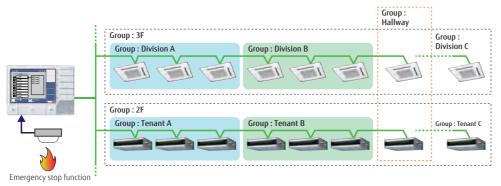
Max. Controllable 16 groups

# For small- and medium-sized buildings and tenants

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

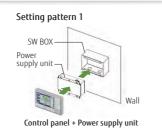
## System overview

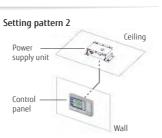
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



# **Easy Installation**

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





### **Functions**

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

#### **Specifications**

Model name	UTY-	DCGY
	Control Panel	Power Supply Unit
Power Supply	DC 5 V	100-240 V, 50-60 Hz, Single phase
Dimensions (H × W × D) (mm)	120 × 162 × 25.7	99 × 135 × 39.2
Weight (g)	308	355

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

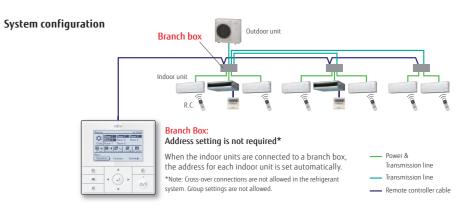


Max. Controllable multi system

Max. Controllable

8 indoor units

- 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,
- Large backlight LED screen
- Large easy-to-see operation panel



#### **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

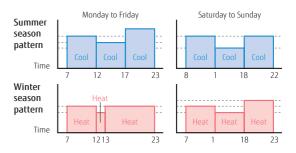
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

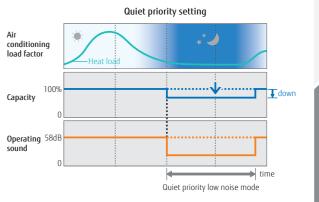
#### **Economy operation**

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

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

DC 12 V is supplied by the indoor unit.

# **Touch Panel Controller**

UTY-DTGYZ1







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

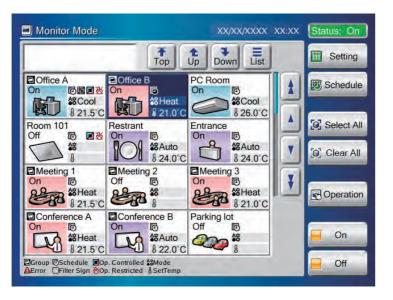
Max. Controllable 400 indoor units

Max. Controllable 100 outdoor units

Max. Controllable 400 groups

## **Easy Operation**

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



# Easy maintenance

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

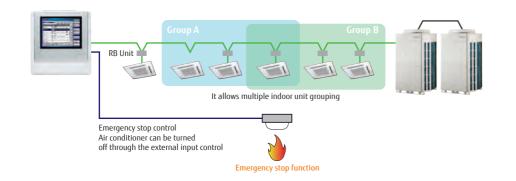


# Easy installation

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



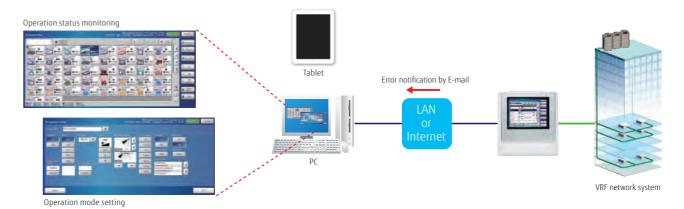
# Up to 400 indoor units can be controlled



#### Features: Touch Panel Controller

## Control & monitoring

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



#### **Smart Phone**

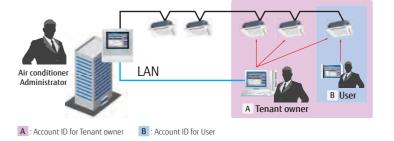
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

## Tablet

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

# Flexible access permission for Point each level user.

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



# Additional languages function

Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.
Additional language can be integrated on remote device by

Additional language can be integrated on remote device by creating language database.

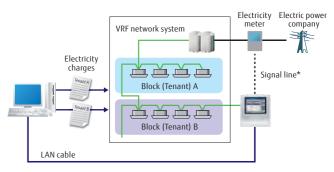
Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



7 Languages + Other languages

# Electricity charge apportionment (Option: UTY-PTGXA)

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.
- Apportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation at cooling and heating
- Electricity meter supported



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

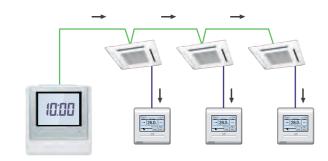
# Automatic summer time setting

#### Providing function

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

#### Automatic clock adjustment

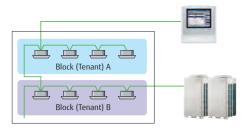
2) The time setting of each controller can be set in batch automatically.



# Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment.

The operation time can be set using the timer.



# Quiet priority setting

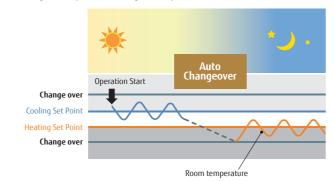
# NEW Various energy saving control

#### **Custom Auto**

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.
- \* This function is not available for some models.



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



# NEW Refrigerant leakage detection function

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



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

<ul><li>Supported</li></ul>	O: Optional function	<ul> <li>Not supported yet</li> </ul>
*1 O I	II et I	

\*1 Only setting cancellation can be operated.

\*2 This function is available only through external input control.

#### **FUNCTIONS SUMMARY**

		UTY-DTGYZ1	Monitoring
Timer			
	Period	Year	Year
Schedule timer	On/off, Temp, Mode, Times per day	20	20
On/off timer		_	_
Sleep timer		_	_
Program timer		_	_
Auto off timer		_	•
Day off		•	•
Min. unit of time	setting (Minutes)	10	10
Control			
Status monitorin	g system	•	•
Electricity charge	apportionment	0	0
Error history		•	•
Emergency stop		●* <sup>2</sup>	●* <sup>2</sup>
Remote manager	ment	-	•
Energy saving ma	anagement	-	_
E-mail notification	on for malfunction	_	•
Key lock		Password setting	_
Low noise mode		•	•

CONTROL SYSTEM

#### Specifications

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





Max. Controllable

Max. Controllable 400 outdoor units

Max. Controllable 1,600 indoor units

4 VRF network systems 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

VRF network systems

Max. Controllable 100 outdoor units

Max. Controllable

400 indoor units

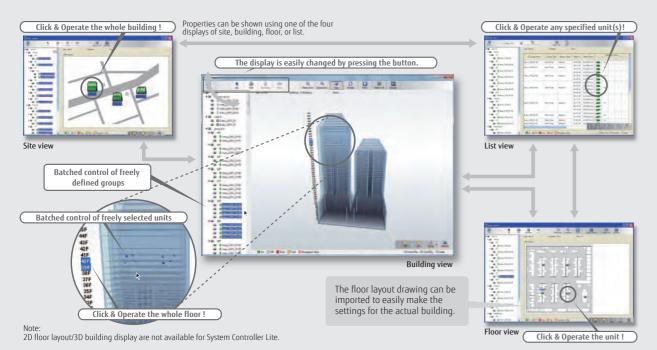
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings.

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

# High visibility and Easy operation

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

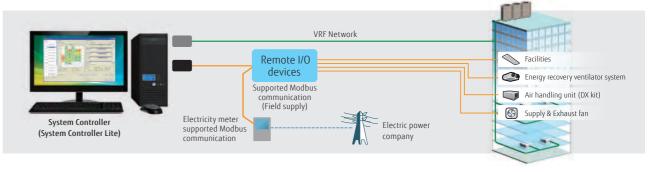
Freely define groups for batched control: Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



## 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
- 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.

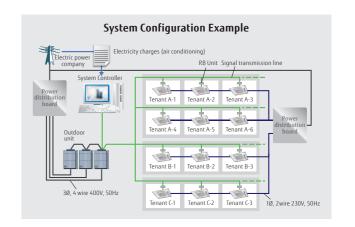
# Electricity charge apportionment

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.



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CONTROL SYSTEM

System Controller may be used on site or remotely over various networks for remote central control.

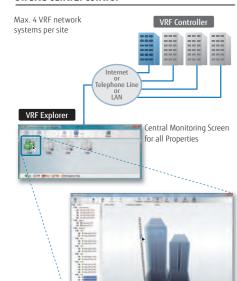
System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system.

VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller.

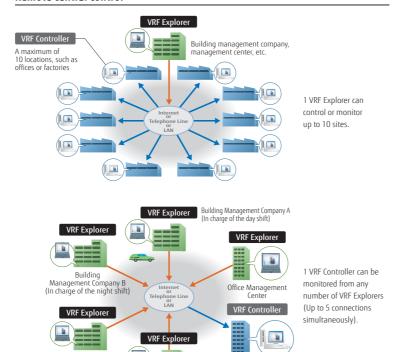
VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.

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**



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.

Special Property Detailed Monitoring Screen



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**

			System o	ontroller	System controller lite				
Function	Туре		UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
	Max. VRF netwo	orks supported	4	_	1	_	_	_	_
System	Max. indoor unit / remote controller groups per VRF network		400	-	400	-	-	-	_
specification		nits per VRF network	100	_	100	_	_	_	_
specification		its / remote controller groups per System controller	1600	_	400	_	_	_	_
		nits per System controller	400	_	100	-	_	_	-
	Multi site displa		10	_	10	-	_	_	_
	Number of build		20	_	_	-	_	_	-
	Number of floo		200	_	_	-	_	_	_
Site	Number of floo		50	_	_	-	_	_	_
supervision	3D graphical la	yout view	•	_	_	-	_	_	-
30pci vision	2D graphical la	yout view	•	_	_	_	_	_	_
	List display		•		•	_	_	_	_
	Tree display		•		•		_	_	_
	Group display		•	_	•	_	_	_	_
Error	Error notification	n	•	_	•	_	_	_	_
management	Audible alarm		•	_	•	_	_	_	_
management	Error e-mail no	tification	•	_	•	_	_	_	_
	Error history		•	_	•	_	_	_	_
History	Operation histo	гу	•	_	•	_	_	_	-
	Control history		•		•				_
		On/Off	•	_	•	_	_	_	_
	İ	Operation mode*	•	_	•	_	_	_	_
	İ	Room temperature	•	_	•	_	_	_	_
	1. 1 1	Fan speed	•	_	•	_	_	_	_
	Individual	Air flow direction	•	_	•	_	-	_	_
	control	Economy mode	•	_	•	_	-	_	-
Operation		Room temperature set point limitation	•	_	•	_	_	_	_
control		Antifreeze	•		•	_	_	_	_
control		Outdoor unit low noise setting	•	_	•	_	_	_	_
		Remote control prohibition setting	•	_	•	_	_	_	_
	Individual management	Temperature upper and lower limit setting	•	_	•	_	_	_	_
		Filter sign reset	•	_	•	_	_	_	_
		Memory operation	•	_	•	_	-	_	_
	Other	Pattern operation	•	_	•	_	_	_	_
	Annual Schedul		•	_	•	_	_	_	_
	Special day sett		•	_	•	_	_	_	_
	On /off per day	ing	72		72				_
Schedule	On / off per wee	ak	504		504				
Juliedule	Day off	zv.	0	_	904			_	_
		er setting (Minutes)	10	_	10	_		_	_
		e Weekly schedule	•	_	•			_	_
	Web Operation	e weekly scriedule			•			_	_
Remote	Remote monito	ring	•		_	•		_	_
management	Remote operati		•	_		•		_	_
manayement	Remote functio		•	_	_	•	_	_	_
		charge/bill calculation				_	•	_	_
	Tenant (block)						•	_	_
Electricity		ies apportionment setting	•	_			•	_	
charge .			•		-	_	•		
apportionment		nsumption allotment setting		•	-	_	•	_	-
		ulation at cooling and heating	_	•	_		•		_
	Electricity mete		_	•			_	•	
	Indoor unit rota			•				•	
F	Peak cut contro		_	•				•	_
Energy	Outdoor unit ca		_	•		_	_	•	_
saving	Record of energy saving operation		_	•	-	_	_	_	_
management	Energy saving information Power consumption monitor		-					•	_
			-	•	_	_	_	•	_
-	Electricity mete	er supported		•		_		•	_
External Device	Monitor		•	-	-	_	_	-	•
Control	Control		•	-	_	_	_	-	•
	Database impo		•	-	•	-	-	-	-
Others	Automatic clock	k adjustment	•	-	•	_	_	-	_
Others	Multi language		7 languages	-	7 languages	_	-	-	_
		kage detection function	•		•			_	_

#### • : Available. - : Not available.

#### Personal computer system requirements

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  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  - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface	The required PC s	pecifications are shown in the following table.					
Microsoft® Windows® 1. (32-bit or 64-bit), Windows® 1. Pro (32-bit or 64-bit)     Microsoft® Windows® 1. (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)     Microsoft® Windows® 1. (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)     Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish    Intel® CoreTM i3 2 GHz or higher		System Controller	System Controller Lite				
* 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 ### Up	Operating system	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)	i-bit)				
### 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)  ### 4 GB or more of free space  ### 1024 x 768 or higher resolution  ### 1025 y or higher resolution  ### 1026 y or higher resolution  ### 1026 y or higher resolution  ### 1026 y or higher resolution  ### 1026 y or higher resolution  ### 1026 y or higher resolution  ##	CPU	Intel® CoreTM i3 2 GHz or higher					
1024 x 768 or higher resolution  • 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 umber of required USB port depends on the applicable system configuration.  Graphic accelerator  * Microsoft® DirectX® 9.0c compatible							
•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 umber of required USB port depends on the applicable system configuration.  Graphic accelerator  • 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 - Maximum on 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - The maximum number of required USB port depends on the applicable system configuration.	HDD	40 GB or more of free space					
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.  Graphic accelerator  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 - 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 sy configuration.	Display	1024 x 768 or higher resolution					
· · · · · · · · · · · · · · · · · · ·	Interface	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	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				
Software Adobe® Reader® 9.0 or later	Graphic accelerator	Microsoft® DirectX® 9.0c compatible					
	Software	Adobe® Reader® 9.0 or later					

CONTROL SYSTEM

#### **PACKING LIST**

Туре	For System	controller	For System controller Lite				
		Option		Option			
	System Controller	Energy manager	System Controller Lite	Remote access	Electricity charge apportionment	Energy saving	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

<sup>\*1:</sup> 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.

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

UTY-ABGXZ1









WHITE-USB-KEY (Software Protection Key)



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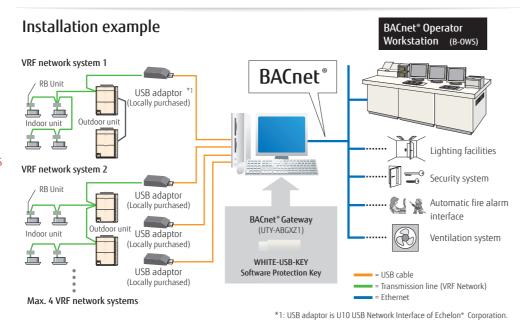
Max. Controllable

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.



#### 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

<sup>•</sup>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** 









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

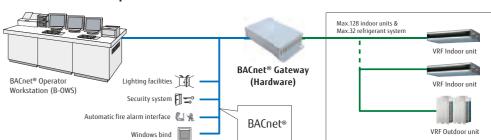
Max. Controllable 1 VRF network system

 $\frac{\text{Max. Controllable}}{32 \text{ refrigerant system}}$ 

Max. Controllable 128 indoor units

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

## Installation example



## Specifications

Nodel name	UTY-VBGX	Model name
lumber of controllable indoor units	128	Power Supply
lumber of controllable refrigerant system	32	Power Consumption (W)
lumber of controllable VRF network	1	Dimensions (H × W × D) (mm)
lumber of connectable units / one VRF network	4	Weight (g)

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

# Network Convertor for Lonworks®







Max. Controllable

4 units to BMS

Max. Controllable

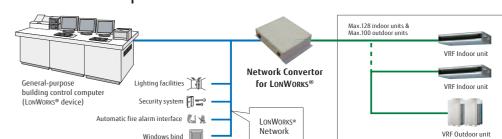
Max. Controllable

100 outdoor units

128 indoor units

- 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



#### 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)

. ,	<u> </u>
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.)





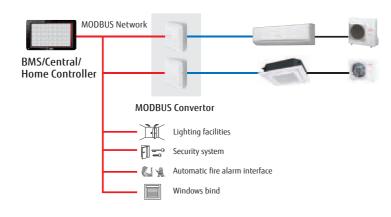


Max Connectable

Single indoor unit

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

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

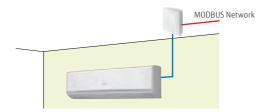


#### Basic control

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

# **Easy Installation**

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



### **Specifications**

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

## Modbus communication specifications

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

# MODBUS® Convertor

UTY-VMGX







Max. Controllable

9 units to one VRF

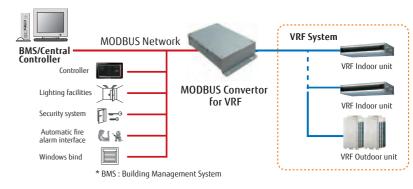
Max. Controllable

100 outdoor units

128 indoor units

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central
- 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



# MODBUS® Interface

FJ-RC-MBS-1











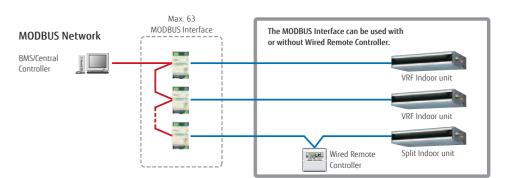
Max. Connectable

Single indoor unit

Max. Controllable I Group

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

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



#### Specifications

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 (q)	1,100

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

UTY-VKGX







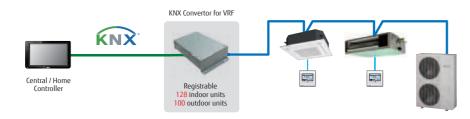


Max. Controllable 100 outdoor units

128 indoor units

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

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



# KNX® Convertor for Indoor Unit





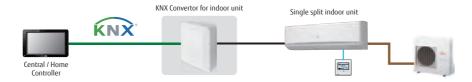




Max. Connectable 1 Single indoor unit

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

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



# KNX® Interface

FJ-RC-KNX-1i





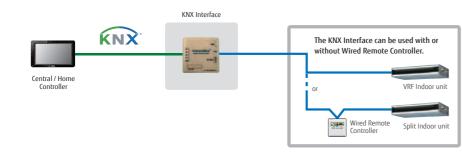




# Max. Connectable 1 Single indoor unit Max. Controllable 1 Group

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

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



#### **Specifications**

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

# Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1











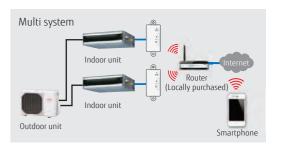
Max. Connectable Single indoor unit

- 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



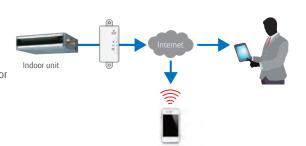
# Multiple air conditioning management

• 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



#### Specifications

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













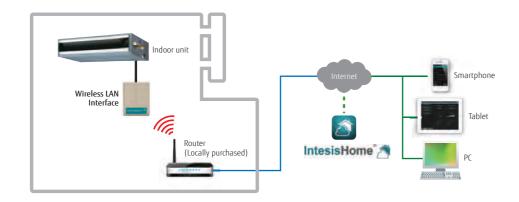
Max. Connectable

1 Single indoor unit

Max. Controllable I Group

# IntesisHome A

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



#### Basic control

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



(Application screen image)

# Advanced control (Optional functions)

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

# Notifications and history

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

#### Specifications

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

# **External Switch Controller**











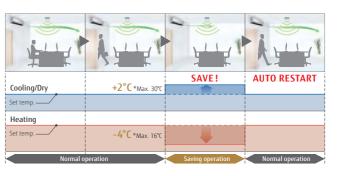
Max. Controllable I group

## 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.

# 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 AB+BD+BC<500m

#### Specifications

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

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







UTY-VTGX DC power supply type



AC power supply type

Max. Controllable 16 single indoor units

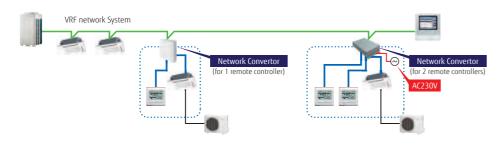
Max. Controllable 1 Group

Max. Controllable 100 **Network Convertors** 

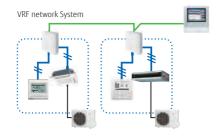
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

# Installation example.

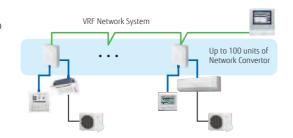
- 2 types of 1 remote controller type and 2 remote controllers type are available. Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



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



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



## Specifications

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	x. 1.2	Max. 3
Dimensions (H × W × D) (mm)	140 ×	117 × 43	54 × 260 × 150
Weight (g)	2	50	1,100



220

# CONTROL SYSTEM LIST for SPLIT/MULTI SPLIT



							Indoor unit											Indoor unit						Outdoor unit	Other
		Flagship	Designer Range	Standard	ECO Range		Mounted ier Range		Standard Range	1	ECO Range	Cassette 4-way Flow	Cas Circular Flow	sette 4-way Flow	Mini	Slim	Du Medium Static	Medium Static	High Static	Big	Floor	Floor/Ceiling	Ceiling	Single Phase 5-6 Rooms	Branch Box (8 Rooms Multi)
	Туре	ASYG 09/12KXCA	ASYG 07/09/12/14 KGTA	ASYG 07/09/12/14 KMTA	ASYG 18/24KLCA	ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE	Compact  AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG18LVTB, ABYG24LVTA	ABYG 30/36 LRTE, ABYG 36/45/54 LRTA	Multi AOYG36LBLA5 AOYG45LBLA6	
Controllers	**************************************		UTY-RNRYZ2+ UTY-TWRXZ2							UTY-RNRYZ2+ UTY-TWRX			UTY-RNRYZ2		UTY-RNRYZ2		UTY-RNRYZ2			UTY-RNRYZ2					
Wired Remote	28.7%		UTY-RLRY+ UTY-TWRXZ2							UTY-RLRY+ UTY-TWRX			UTY-RLRY		UTY-RLRY		UTY-RLRY			UTY-RLRY					
Remote Controller	b i i					UTY-F	• RVNYM+ TWBXF	UTY-RVNYM+ UTY-XCBXZ2	UTY-RVNYM	UTY-RVNYM+ UTY-XWNX		UTY-RVNYM						UTY-RVNYM							
				UTY-RNNYM+ UTY-TWBXF		UTY-R	● RNNYM+ TWBXF	UTY-RNNYM+ UTY-XCBXZ2	UTY-RNNYM	UTY-RNNYM+ UTY-XWNX		UTY-RNNYM						UTY-RNNYM							
Simple Remote Controller	2-wire type 3-wire type		UTY-RSRY, UTY-RHRY	UTY-RSNYM+ UTY-TWBXF		UTY-F	● RSNYM+ TWBXF	UTY-RSNYM+ UTY-XCBXZ2	UTY-RSNYM	UTY-RSNYM+ UTY-XWNX, UTY-RSRY UTY-RHRY+ UTY-XWRX		UTY-RSNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-RSNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-RSNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM		SNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-RSNYM	UTY-R			
Central Remote Controller																								UTY-DI	
IR Receiver Unit with Wireless Remote	For Duct For Cassette													UTY-LRHYA2		UTY-LRHYM		UTY-LRHYM	UTY-LRHYM (60 only)	UTY-LRHYM					
Wireless Remote Controller	For Duct For Cassette												UTY-LBTYC		UTY-LBTYM		UTY-LBTYM			UTY-LBTYM					
Interface MODBUS Convertor				• -VMSX						UTY-VMSX			UTY-VMSX		UTY-VMSX		UTY-VMSX			UTY-VMSX					
MODBUS Interface								FJ-RC-MBS-1				FJ-RC-MBS-1						FJ-RC-MBS-1							
KNX Convertor			UTY	-VKSX						UTY-VKSX			UTY-VKSX		UTY-VKSX		UTY-VKSX			UTY-VKSX					
KNX Interface							1	FJ-RC-KNX-1i FJ-RC-KNX-1i				FJ-RC-KNX-1i						FJ-RC-KNX-1i							
Wireless			UTY-T	• FFSXW1				UTY-TFNXZ1				UTY-TFNXZ1	UTY-T	FNXZ1	UTY-TFSXZ1		UTY-TF	-NXZ1		UTY-TFSXZ1		UTY-TFNXZ1			
Wireless LAN Interface								● FJ-RC-WIFI-1				FJ-RC-WIFI-1						● FJ-RC-WIFI-1							
External Switch Controller			UTY	• '-TERX				UTY-TERX				UTY-TERX						UTY-TERX							

LTI SPLIT

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ONTROL SYSTEM

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# CONTROL SYSTEM LIST for VRF



						Indoor unit											Indoor unit					
		Compact	4-way	Cassette 4-way	Circular Flow		Mini		uct Medium Static	High Static		Duct h Static		loor EEV	Ceiling/	Ceiling		EEV		Nounted EEV		
Туре		d type /Standard type AUXB	(Slim)	(Large)	(Slim)			Slim (With drain pump)	Medium Static Pressure	Pressure		essure		external	Floor	,	_	external	_	external	-	_
	0	04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXM 018/024/030 GLAH	AUXK 018/024/030/ 034/036/045/054 GLAH	ARXK 04/07/09/ 12/14/18/24 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH	72	ARXC DOGBTH, ARXC GGATH	AGYA 004/007/ 009/012/014 GCAH	AGYE 004/007/ 009/012/014 GCAH	ABYA 12/14/18/24 GATH	ABYA 30/36/45/54 GATH	ASYA 004/007/009 GTAH	ASYE 004/007/009 GTAH	ASYA 012/014GCAH	ASYE 012/014GCAH	ASYA 18/24GBCH	ASYA 030/034GTA
red						UTY-RNRYZ2											UTY-RNRYZ2					
ed mote htroller						UTY-RLRY											UTY-RLRY					
mple mote articler 2-wire type 3-w	-wire type				UTY-RSRY	Y, UTY-RHRY, UTY-RSKY,	UTY-RHKY									UTY-RSRY	, UTY-RHRY, UTY-RSKY	Y, UTY-RHKY				
reless mote introller						UTY-LNHY											UTY-LNHY					
oup mote ntroller	•					UTY-CGGY + UTY-VGGXZ	21									1	UTY-CGGY + UTY-VGGX	(Z1				
ntral mote ntroller						UTY-DCGY											UTY-DCGY					
uch nel ntroller						■ UTY-DTGYZ1											UTY-DTGYZ1					
stem ntroller, stem ntroller	[6			UTY-APGXZ1, UTY-ALGXZ1												U	TY-APGXZ1, UTY-ALG)	XZ1				
Cnet teway	<b>&gt;</b>			UTY-ABGXZ1, UTY-VBGX												● UTY-ABGXZ1, UTY-VB(	GX					
etwork nvertor NWORKS						UTY-VLGX											UTY-VLGX					
DDBUS invertor						UTY-VMGX											UTY-VMGX					
DDBUS terface			FJ-RC-MBS-1					FJ-RC-I	MBS-1		FJ-	• C-MBS-1			FJ-RC	● -MBS-1					FJ-RC-MBS-1	
IX nvertor						UTY-VKGX											UTY-VKGX					
IX terface	-		FJ-RC-KNX-1i					FJ-RC-I	KNX-1i		FJ-	C-KNX-1i			FJ-RC-	• KNX-1i					FJ-RC-KNX-1i	
reless N erface					UTY	-TFSXZ1							UTY-	TFSXZ1				UTY-	TFSXZ1			UTY-TFS
riface			FJ-RC-WIFI-1					FJ-RC-	WIFI-1		FJ.	• C-WIFI-1			FJ-RC	-WIFI-1					FJ-RC-WIFI-1	
ernal tch troller						UTY-TERX								1			UTY-TERX	'	1	1		

# **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.



For Cassette

Circular Flow

For Cassette

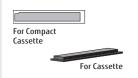
Fresh Air Intake Kit

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



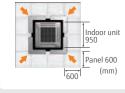
#### Insulation for High Humidity

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



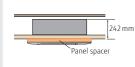
#### Air Outlet Shutter Plate

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



## Wide Panel

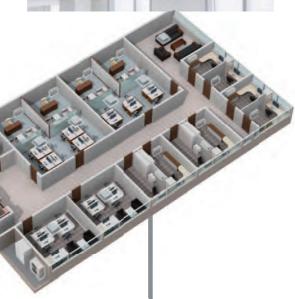
When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide



#### Panel 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



#### 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



For Duct and Cassette type

# **External Input and Output**

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



#### **External Input and Output** PCB Box & Bracket

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



#### **Connection Units**

device.

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

External Connect Kit & Set

the product PCB and external

These wires can connect between

# Auto Louver Grille Kit

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

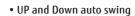


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



## Flexible Control

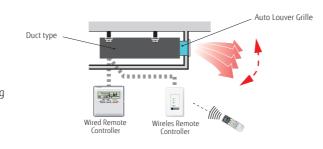
• Operation with indoor unit Auto Louver can be operated by synchronizing remote controller of indoor unit.



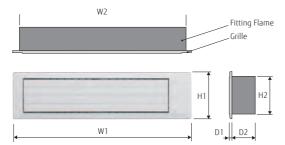
- Auto airflow direction and auto swing
- 4 steps selectable

#### • Auto-closing louver

When operation of indoor unit is stopped, the louver will automatically



## **Dimensions**



					l	Jnit:mm
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				

#### Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor U	nit		ARYGO7/09LLTA ARYG12/14LLTB ARXD04/07/09/12/14GALH (For VRF) ARXK07/09/12/14GCLH (For VRF)	ARYG18LLTB ARXD18GALH (For VRF) ARXK18GCLH (For VRF)	ARXD24GALH (For VRF) ARXK24GCLH (For VRF)
Power Supply				Connecting with Control box of indoor unit	
Fixing of Auto Louve	r Grille			Screw fixing to Flange or Square Duct	
Extension Square Du	ıct Limit		1.0	m (Max. duct length between indoor unit and Gri	lle)
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×883×(84+9)	180×1083×(84+9)
Waiahk	Net	kg	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
Weight	Gross	(lbs)	3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color				White	
Louver Motor				Stepping Motor	
Accessories				Fitting Flame, etc.	
	Caaliaa	°C		18 to 32	
Operation range	Cooling	% RH		80% or less	
	Heating	°C		16 to 30	



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# OPTIONAL PARTS LIST for SPLIT/MULTI SPLIT



			Cassette				Indoor unit	uct				
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big	Floor	Ceiling
		AUYG 12/14/18 LVLB, AUYG 24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA
Human Sensor Kit	6		UTY-SHZXC									
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.						UTY-	XSZX				
Cassette Grille	UTG-UFYD-W UTG-UGYA-W UTG-UKYA-W UTG-UKYC-W UTG-UKYA-B	UTG-UFYD-W	UTG-UKYA-W UTG-UKYC-W UTG-UKYA-B	UTG-UGYA-W								
Auto Louver Grille Kit					UTD-GXTA UTD-GX1	I-W (12/14) FB-W (18)						
Long Life Filter							UTD-LFNA UTD-LFNB UTD-LFNC	UTD-LF25NA	● UTD-LF60KA (45/54)	● UTD-LFKA		
Flange	0-							UTD-SF045T UTD-RF204				● UTD-RF204
Drain Pump Unit								UTZ-PX1NBA		UTZ-PX1NAB		UTR-DPB24T
Wide Panel	bodoor unit 950 Panel 600 (mm)		UTG-A	KXA-W								
Panel Spacer	Panel spacer			KXA-W								
Fresh Air Intake Kit	For Compact For Cassette Cassette	UTZ-VXAA		VXRA								
Air Outlet Shutter Plate	For Compact Cassette For Cassette	UTR-YDZB		YDZK								
Insulation for High Humidity	For Compact Cassette type/ Cassette type	UTZ-KXGC		KXRA								
Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.										UTR-STA	

# OPTIONAL PARTS LIST for VRF



				Carabba				Indoor unit	Durch			ri.		
		Compact Grid type / Standard type	4-way (Slim)	Cassette 4-way (Large)	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	Slim (With drain pump)	Duct Medium Static Pressure	High Stati	ic Pressure		EEV external	Ceiling
		AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXM 018/024/030 GLAH	AUXK 018/024/030/ 034/036/045/ 054GLAH	ARXK 04/07/09/ 12/14/18/24 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH	ARXC 72/90GBTH, ARXC 96GATH	AGYA 004/007/ 009/012/014 GCAH	AGYE 004/007/ 009/012/014 GCAH	ABYA 30/36/45/54 GATH
IR Receiver Unit			UTY-LI		UTY-L				UTB-YWC					
Human Sensor Kit	6				UTY-S	5HZXC								
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.								UTY-XSZX					
Cassette Grille	UTG-UFYE-W UTG-UFYC-W UTG-UKYC-W UTG-UKYA-B	UTG-UFYE-W			UTG-U UTG-U	KYC-W KYA-B								
Auto Louver Grille Kit							UTD-G UTD-GXT UTD-GX1	XTA-W, B-W (18),						
Long Life Filter									UTD-LF25NA	● UTD-LF60KA				
Flange	0-								UTD-SF045T UTD-RF204					UTD-RF204
Drain Pump Unit									● UTZ-PX1NBA					UTR-DPB241
Wide Panel	Index unit sold or unit sold or unit sold or unit sold or unit sold (mm)				● KXA-W									
Panel Spacer	Panel spacer				● KXA-W									
Fresh Air Intake Kit <sup>*1</sup>	For Compact For Cassette Cassette	● UTZ-VXAA		UTZ-	● VXRA									
Air Outlet Shutter Plate	For Compact Cassette For Cassette	● UTR-YDZB			● YDZK									
Insulation for High Humidity	For Compact Cassette type/ Cassette type	UTZ-KXGC			● KXRA									
Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.												-STA	

# FUNCTION LIST for SPLIT/MULTI SPLIT

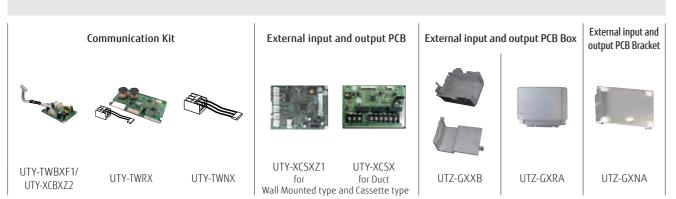
External Input and Output Function/External Connect Kit/Communication Kit

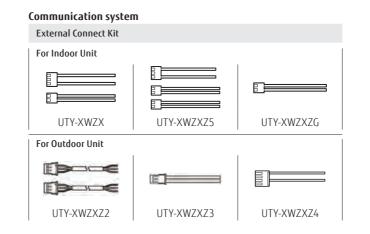
-					Wall	Mounted	Indoor unit					Cassette					Du	b	Indoor unit			T	I			Outdoor unit Single Phase		
	Flagship Range	Designer Range	Standard Range	ECO Range		ner Range		Standard Rang	e	ECO Range	4-way Flow Compact		4-way Flow	Λ	ini	Slim		lium	High Static Pressure	Big	Floor	Floor/Ceiling	Ceiling	Single	e Split	8 Rooms Multi	Simultan	neous Multi
	ASYG 09/12KXCA	ASYG 07/09/12/14 KGTA	ASYG 07/09/12/14 KMTA	ASYG 18/24KLCA	ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE	AUYG 12/14/18 LVLB, AUYG24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36/LRLE, AUYG 36/45/54 LRLA	12/		ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARY36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG18LVTB, ABYG24LVTA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	A0YG 36/45/54/60 LATT	AOYG 45/54LBTA, AOYG 72/90LHTA	AOYG45LBT8	AOYG 36/45LBTB	A0Y0 36/45/ LATT
Operation/Stop		UTY-XCSXZ1+ UTY-XWZX	UTY-TWBXF1+ UTY-XWZXZ5			• 5 + UTY-TWBXF1	UTY-XWZXZ5+ UTY-XCBXZ2	* UTY-XWZX	●UTY-XWZX or ●○ UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		UTY-XWZX	PCB Terminal or OUTY-XCSX + UTZ-GXRA	UTY-XWZX	PCB T	rminal U	JTD-ECS5A	PCB Terminal or O UTY-XCSX + UTZ-GXNA	⊎ UTD-ECS5A	UTD-ECS5A	PCB Terminal or • O UTY-XCSX	UTY-XWZX	UTY-XWZX	UTY-XWZX					
latch Stop																										UTY-XWZXZ3		
orced Stop		UTY-XCSXZ1+ UTY-XWZX				● 5 + UTY-TWBXF1	UTY-XWZXZ5+ UTY-XCBXZ2	• UTY-XWZX	●UTY-XWZX or ●O UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		UTY-XWZX	PCB Terminal	UTY-XWZX	PCB T	rminal U	● JTD-ECS5A	PCB Terminal	● UTD-ECS5A	● UTD-ECS5A	PCB Terminal	● UTY-XWZX	UTY-XWZX	UTY-XWZX					
mergency Stop																										UTY-XWZXZ3		
orced hermostat off									UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB			●○ UTYXCSX + UTZ-GXRA					UTY-XCSX		UTD-ECS5A	UTY-XCSX								
ow Noise Mode Operation																								UTY-XWZXZ2	UTY-XWZXZ3	UTY-XWZXZ3	UTY-XWZXZ3	UTY-X
ooling / Heating Priority																										UTY-XWZXZ3		
utdoor Unit Operation Peak ontrol																								UTY-XWZXZ2	UTY-XWZXZ3	UTY-XWZXZ3	UTY-XWZXZ3	UTY-XI
peration Status		UTY-XCSXZ1+ UTY-XWZX	UTY-TWBXF1+ UTY-XWZXZ5		UTY-XWZXZ5	O 5 + UTY-TWBXF1	O UTY-XWZXZ5+ UTY-XCBXZ2	O UTY-XWZX	●UTY-XWZX ●UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		O UTY-XWZX	UTY-XWZXZG or OUTY-XCSX + UTZ-GXRA	O UTY-XWZX	UTY-)	NZXZG U	O JTD-ECS5A	UTY-XWZXZG  Or  O UTY-XCSX + UTZ-GXNA	O UTD-ECS5A	O UTD-ECS5A	UTY-XWZXZG or UTY-XCSX	O UTY-XWZX	O UTY-XWZX	O UTY-XWZX					
rror Status		UTY-XCSXZ1+ UTY-XWZX	UTY-TWBXF1+ UTY-XWZXZ5			O 5 + UTY-TWBXF1	O UTY-XWZXZ5+ UTY-XCBXZ2	F	●UTY-XWZX ●UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB			UTY-XWZXZG or OUTY-XCSX + UTZ-GXRA					UTY-XWZXZG  or  O UTY-XCSX + UTZ-GXNA							UTY-XWZXZ2	UTY-XWZXZ3	O UTY-XWZXZ3	O UTY-XWZXZ3	UTY-XV
ompressor status		UTY-XCSXZ1+ UTY-XWZX										O12 QXIOX					· OIZ GARA							UTY-XWZXZ2	UTY-XWZXZ3	O UTY-XWZXZ3	O UTY-XWZXZ3	UTY-XW
ndoor Unit Fun Operation tatus									●UTY-XWZX ●UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		UTZ-VXAA*1	UTY-XWZXZG or OUTY-XCSX + UTZ-GXRA	UTZ-VXGA*1		WZXZG U	● JTD-ECS5A	UTY-XWZXZG  or  O UTY-XCSX + UTZ-GXNA	UTD-ECS5A	UTD-ECS5A	UTY-XWZXZG or UTY-XCSX			UTD-ECS5A					
et point attainment status									UTY-XWZX*2																			
uxiliary Heater Output												UTY-XWZXZG or OUTY-XCSX + UTZ-GXRA			WZXZG U	JTD-ECS5A	UTY-XWZXZG Or O UTY-XCSX + UTZ-GXNA	UTD-ECS5A	UTD-ECS5A	UTY-XWZXZG or UTY-XCSX								
ase Heater																										● UTY-XWZXZ4		

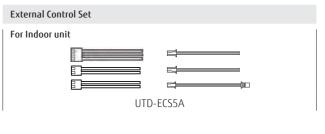
<sup>\*1:</sup> This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) \*2: This function is for installing at server room.

●: Dry Contact ○: Apply Voltage

# For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI







# FUNCTION LIST for VRF

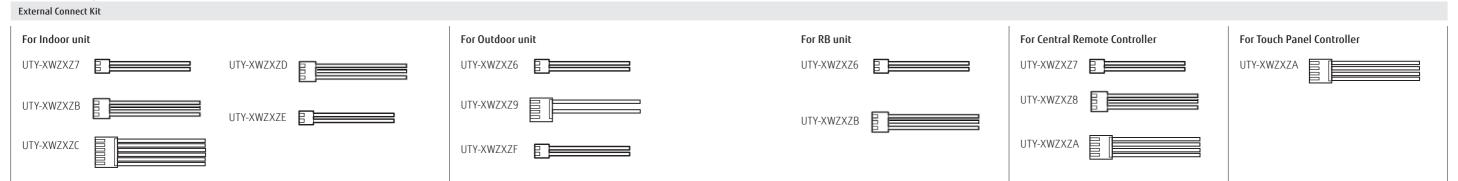
**External Input and Output Function/External Connect Kit** 

				1		Indoor unit							Indoo					Outdo	or unit			Contr	oller	Other
	Compact Grid type / Standard type	Cassette 4-way	Circular Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	FI	EEV external	Floor	Ceilling	_	Wall Mo EEV external		_	J-IIIL	J-III	J-IIS	V-III	V-III Tropical	VR-II	Central Remote Controller	Touch Panel Controller	RB Ui
	AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH, AUXA 18/24/30/ 34/36/45/54 GALH	AUXM 018/024/030 GLAH, AUXK 018/024/030/ 034/036/045/ 054GLAH	ARXK 04/07/09/ 12/14/18/24 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH, ARXC 72/90GBTH, ARXC 96GATH	AGYA 004/007/ 009/012/014 GCAH	AGYE 004/007/ 009/012/014 GCAH	ABYA 12/14/18/24 GATH	ABYA 004/0 30/36/45/54 GI GATH A	TAH, SYA	ASYE 004/007/009 GTAH, ASYE 012/014GCAH	ASYA 18/24GBCH	ASYA 030/034GTAH	AJG 072/090/108/ 126/144 LELAH	AJY 040/045/054 LBLAH, AJY 040/045/054 LELAH	AJY 040/045/054 LCLAH	AJY 072/090/108/ 126/144/162 LNLBH	AJY 072/090/108/ 126/144/162 LALBH	AJYA 072/090/ 108/126/144 GALH	UTY-DCGY	UTY-DTGYZ1	UTP-RX UTP-RX UTP-RX UTP-RX
peration / Stop						UTY-XWZXZE UTY-XWZXZE	)						O UTY-	XWZXZD XWZXZB										
ll On / All Off																						●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
Batch Stop																		• UTY	Z-XWZXZ6					
orced Stop				1		UTY-XWZXZE UTY-XWZXZE							• UTY-											
mergency op						UTY-XWZXZE UTY-XWZXZE	)						• UTY-	XWZXZD XWZXZB				• UTY	-XWZXZ6			●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
orced nermostat if						UTY-XWZXZE UTY-XWZXZZ	<u> </u>						• UTY-	XWZXZE XWZXZ7										
ow Noise Mode Operation																		• UTY	-XWZXZ6					
ooling/ leating Priority																		UTY-XWZXZ6	<u> </u>					●UTY-X OUTY-X
utdoor Unit Operation Peak ontrol																		• UTY	-XWZXZ6					
ower Usage Information from lectricity Meter																		• UTY	-XWZXZF				●*2 ○*2	
peration Status						UTY-XWZXZ0	:						• UTY-	XWZXZC				O UTY	Z-XWZXZ6			O UTY-	XWZXZA	
rror Status						UTY-XWZXZ0	:						• UTY-	XWZXZC				O UTY	Z-XWZXZ6			O UTY-	XWZXZA	
door Unit Fun Operation atus						UTY-XWZXZ0							• UTY-	XWZXZC										
uxiliary Heater Output					• UTY	-XWZXZC																		
ase Heater																	UTY-XWZXZS			UTY-XWZXZ9				

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

●: Dry Contact O: Apply Voltage

Communication system



OPTIONAL PARTS

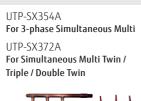
# SEPARATION TUBE etc.



#### For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI Separation Tube

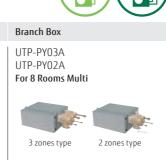
UTP-SX236A / UTP-SX254A For 3-phase Simultaneous Multi For Simultaneous Multi Twin /







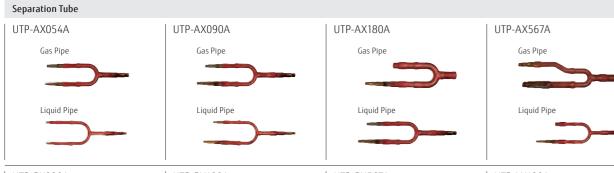






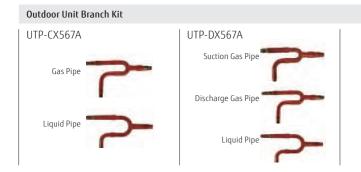


# For VRF











# **Specifications**

#### Separation Tube

Model name	UTP-AX054A	ı	JTP-AX090A	UTP-AX180A	4	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-B	X180A		UTP-BX567A
Total cooling capacity of indoor unit (kW)	28.0 or less		28.1 t	o 56.0		56.1 or more

#### Header

3-6 Branches	UTR-H0906L	UTR-H1806L
3-8 Branches	UTR-H0908L	UTR-H1808L
or unit (kW)	28.0 or less	28.1 to 56.0
3-6 Branches	UTP-J0906A	UTP-J1806A
3-8 Branches	UTP-J0908A	UTP-J1808A
or unit (kW)	28.0 or less	28.1 to 56.0
	3-8 Branches or unit (kW) 3-6 Branches 3-8 Branches	3-8 Branches

#### Outdoor unit Branch kit

Model name		UTP-CX567A (for V-II/V-III/V-III Tropical)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1	
Number of outdoor unit	3 outdoor units	2	

#### EV Kit

Model name	UTR-E	V09XB	UTR-EV14XB		
Application model	ASYE004GTAH ASYE007GTAH ASYE009GTAH	AGYE004GCAH AGYE007GCAH AGYE009GCAH	ASYE12GACH ASYE14GACH	AGYE012GCAH AGYE014GCAH	

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

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