CONTROL SYSTEM

PRODUCT LINEUP

CONTROL SYSTEM
& OPTIONAL PARTS

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PRODUCT LINEUP: CONTROL SYSTEM

CONTROL SYSTEM OVERVIEW for SPLIT & MULTI SPLIT

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

Air Conditioning

**Individual Control**

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

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

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

Air Conditioning

**Centralized Control**

- **Central Remote Controller**
  Necessary to control all duct type by Wireless Remote Controller.

**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.

**Convertor/Adaptor**

For external control via BMS/Home Automation Systems

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

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

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

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

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

**User friendly app**

User friendly screen display facilitates easy operation.

- **Wireless LAN Interface**
  The exclusive Wi-Fi adapter enables the operation of the air conditioner by smartphone or tablet PC from outside.

- **Download Free**
  +

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

- MODBUS® Convertor
  For indoor unit
  UTY-VMSX

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

- KNX® Convertor
  For indoor unit
  UTY-VKSX

- KNX® Interface
  For indoor unit
  FJ-RC-KNX-1i
User’s needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

**Control System Overview for VRF**

**Air Conditioning Centralized Control**

- **System Controller**: UTY-APXZ1/UTY-ALXZ1 (Lite edition)
- **Central Remote Controller**: UTY-DCGY
- **Group Remote Controller**: UTY-DDGF
- **Network Converter** (For Group Remote Controller): UTY-VGXXZ1
- **Wired Remote Controller**: UTY-RLRY
- **Simple Remote Controller**: UTY-RLRY
- **Wireless Remote Controller**: UTY-LRHY
- **IR Receiver Unit**: UTY-IRY2Z2
- **IR Receiver Unit**: UTY-IRY2YB1

**Max. Controllable**
- 1600 indoor units
- 400 indoor units
- 100 indoor units
- 8 controllable groups

**Convertor/Adaptor**

- **For external control via BMS/Home automation Systems**
  - **BACnet® Gateway**
    - UTY-ABGXZ1
  - **BACnet® Gateway**
    - UTY-VBGX
  - **Network Converter** (For LONWORKS®)
    - UTY-VLGX
  - **MODBUS® Converter**
    - UTY-VMGX
  - **MODBUS® Interface**
    - FJ-RC-MBS-1
  - **KNX® Convertor For VRF**
    - UTY-VKGX
  - **KNX® Interface**
    - FJ-RC-KNX-1i
  - **Wireless LAN Interface**
    - FJ-RC-WIFI-1
  - **External Switch Controller**
    - UTY-TKXX

**For system expansion**

- **Network Converter** (AC power supply)
  - UTY-VGXX
- **Network Converter** (DC power supply)
  - UTY-VGXXV
- **Signal Amplifier**
  - UTY-VGXXZ1

**BMS/BAS**

*1: *BMS (Building Management System) or BAS (Building Automation System)

**Card-key**

*2: BMS/BAS: Building Management System/Building Automation System

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

*4: *BMS (Building Management System) or BAS (Building Automation System)

**BMS, Home automation system**

For external control via BMS/Home automation Systems
## PRODUCT LINEUP: CONTROL SYSTEM

### Best Control Solution for Each Property

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

### SHOP

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<th>Type</th>
<th>Individual Control</th>
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<td>Wired Remote Controller</td>
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</table>

- Automatic control of A/C (Schedule timer, Weekly timer etc.)
- Centralized control for shop A/C (Production, Display area etc.)
- Group Central
- Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)
- Remote Management
- Monitor energy consumption
- Control third party products
- Integrate FGL A/C into BMS

### HOTEL

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<th>Type</th>
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</table>

- Local control for hotel staff
- Automatic control of A/C (Schedule timer, Weekly timer etc.)
- Centralized A/C control for common space
- Group Central
- 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

### OFFICE

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<th>Type</th>
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</table>

- Local control for office staff
- Automatic control of A/C (Schedule timer, Weekly timer etc.)
- Centralized A/C control for common space
- Group Central
- 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

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</tbody>
</table>
PRODUCT LINEUP: CONTROL SYSTEM - INDIVIDUAL CONTROL

Wired Remote Controller (Touch Panel)

UTY-RNRYZ2

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)

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

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

Various energy saving control
Custom Auto
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.
  * This function is not available for some models.

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

2 schedules Weekly Timer
- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>UTY-RNRYZ2</td>
</tr>
<tr>
<td>Power Source</td>
<td>DC 12 V</td>
</tr>
<tr>
<td>Dimensions (W × D × H)(mm)</td>
<td>120 × 120 × 20.4</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>220</td>
</tr>
</tbody>
</table>

DC 12 V is supplied by the indoor unit.

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

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Model name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>UTY-RVNYM</td>
</tr>
<tr>
<td>Power Source</td>
<td>DC 12 V</td>
</tr>
<tr>
<td>Dimensions (W × D × H)(mm)</td>
<td>120 × 120 × 21.3</td>
</tr>
<tr>
<td>Weight (g)</td>
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</table>

DC 12 V is supplied by the indoor unit.
PRODUCT LINEUP: CONTROL SYSTEM-INDIVIDUAL CONTROL

**Wired Remote Controller**

**UTY-RSRY**

- **Max. Controllable Indoor Units:** 16 indoor units
- **Max. Controllable Groups:** 1 group
- **Portable Remote Controller**
- **Wired Remote Controller**
- **Model Name:** UTY-RNNYM
- **Features:**
  - Various timer setup (ON / OFF / WEEKLY) are possible.
  - The room temperature can be controlled by detecting the temperature accurately with a built-in thermal sensor.
  - When a failure occurs, the error code is displayed.
  - Error history (last 16 error codes can be accessed).
  - 2-wire type

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>UTY-RSRY</th>
<th>UTY-RNNYM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>DC 12 V</td>
<td>DC 12 V</td>
</tr>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>52 × 87 × 10</td>
<td>52 × 87 × 10</td>
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<tr>
<td>Weight (g)</td>
<td>110</td>
<td>110</td>
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</tbody>
</table>

**High performance and compact size**

In addition to the individual control, weekly timer, and various energy-saving controls, it 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 is set according to the icon.
- Control guide is displayed and operation is simple and straightforward.

**Simple Remote Controller**

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

**Compact remote controller provides access to basic functions**

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

**Corresponding to various applications**

- Vertical louver control: Vertical airflow 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 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.

**Easy-to-use operation**

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

**Wired Remote Controller**

**UTY-RSRY**

- **Max. Controllable Indoor Units:** 16 indoor units
- **Max. Controllable Groups:** 1 group
- **Portable Remote Controller**
- **Wired Remote Controller**
- **Model Name:** UTY-RSNYM
- **Features:**
  - 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 thermal sensor in the body of the wired controller. This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

**Built-in timers**

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

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

**Easy-to-use operation**

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

**Wireless Remote Controller**

UTY-LNHY

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 for VRF

**UTY-LRHYM**

**UTY-LBTYM** for Split

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

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

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

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-LNHY</th>
<th>UTY-YBCY / UTY-LRHYM / UTY-LBTYM</th>
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<tbody>
<tr>
<td>Battery</td>
<td>1.5 V (R03 / LR03 / AAA) × 2 DC 5 V</td>
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<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>170 × 56 × 19 145 × 90 × 30 193.9 × 193.9 × 31.2</td>
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<tr>
<td>Weight (g)</td>
<td>85 150 140</td>
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</table>

**CONTROL SYSTEM-CENTRALIZED CONTROL**

**Group Remote Controller/Network Convertor**

UTY-CGGY / UTY-VGGXZ1

**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)
- 3-wire type

**Control up to 8 remote controller groups**

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

**High performance and compact size**

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

**Built-in weekly timers**

The weekly timer is provided as a standard function.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-CGGY</th>
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<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12 V</td>
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<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>120 × 120 × 18</td>
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<thead>
<tr>
<th>Model name</th>
<th>UTY-VGGXZ1</th>
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<tr>
<td>Power Supply</td>
<td>208-240 V 50/60 Hz, Single phase</td>
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<td>Dimensions (H × W × D) (mm)</td>
<td>67 × 288 × 211</td>
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<td>Weight (g)</td>
<td>1,500</td>
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</table>
Central Remote Controller

**PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL**

**Central Remote Controller**

**UTY-DCGY**

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DCGY</th>
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<tbody>
<tr>
<td>Power Supply</td>
<td>100-240 V, 50-60 Hz, Single phase</td>
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<tr>
<td>Power Source</td>
<td>DC 5 V</td>
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<td>Dimensions (H × W × D) (mm)</td>
<td>120 × 162 × 25.7</td>
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<td>Weight (g)</td>
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</tbody>
</table>

**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

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

**UTY-DMMVM**

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DMMVM</th>
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<tbody>
<tr>
<td>Power Supply</td>
<td>DC 12 V</td>
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<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>120 × 120 × 21.3</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>220</td>
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</tbody>
</table>

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

- 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 time.

**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.
PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

Touch Panel Controller
UTY-DTGYZ1

- Large-sized 7.5-inch TFT color
- LED 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 icons.
- 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

<table>
<thead>
<tr>
<th>Model name</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nexus 6P (Android 7.1.1)</td>
<td>Google Chrome 5.5</td>
</tr>
<tr>
<td>iPhone 7 (iOS 10.1)</td>
<td>Safari 10</td>
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</tbody>
</table>

Tablet

<table>
<thead>
<tr>
<th>Model name</th>
<th>Browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPad Pro 9.7inch (iOS 10.2.1)</td>
<td>Safari 10</td>
</tr>
</tbody>
</table>

Flexible access permission for Point each level user.
Administrator can register multiple user to permit which indoor unit(s) and which function can access.

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

Monitoring from web site

Electricity charge apportionment
(Options: UTY-PTGZX)
- 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

- 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.

*: Electricity meter (1unit) can be connected to external input connector of the TPC unit.
In this case, electricity meter cannot be connected to outdoor unit simultaneously.
PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

Features: Touch Panel Controller

Automatic summer time setting

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

Automatic clock adjustment

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

Outdoor low noise operation

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

Various energy saving control

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

Refrigerant leakage detection function

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

FUNCTIONS SUMMARY

<table>
<thead>
<tr>
<th>Function</th>
<th>UTY-DTGYZ2</th>
<th>Monitoring side</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air conditioning control function</td>
<td></td>
<td>UTY-DTGYZ1</td>
</tr>
<tr>
<td>On / Off</td>
<td></td>
<td>UTY-DTGYZ1</td>
</tr>
<tr>
<td>Operation mode setting*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan speed setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room temp. setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room temp. set point limitation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High/low air direction stop setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Night 2 air direction stop setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual louver control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HVAC prohibition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anti-freeze setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set temp. auto return</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan speed setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room temp. set point limitation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleep timer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human sensor control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote management</td>
<td></td>
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<tr>
<td>Remote management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Memory operation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Refrigerant leakage detection function</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Supported | - Optional function | - Not supported yet
*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DTGYZ2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>100-240V, 50/60Hz, Single phase</td>
</tr>
<tr>
<td>Dimensions (W × D × H (mm))</td>
<td>260 × 246 × 54</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>2.150</td>
</tr>
<tr>
<td>Interface</td>
<td>Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW</td>
</tr>
</tbody>
</table>
PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

**System Controller**

**UNITY-APGXZ1**

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

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

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

**System Controller Lite**

**UNITY-APGXZ2**

- Max. Controllable: 1 VRF network system
- Max. Controllable: 100 outdoor units
- Max. Controllable: 400 indoor units

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

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

**Features: System Controller/System Controller Lite**

3rd party devices connected by Modbus can be controlled.

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

When Modbus Adapter (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 Controllers and System Controller Lite

**Schedule management**

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

**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

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)

The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.
PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

Features: System Controller/System Controller Light

Remote management

| Standard | for System Controller
| Option | for System Controller Lite UTY-PLGXE2

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

- Max. 5 VRF networks operate per site

Remote central control

- 1 VRF Controller can control up to 10 sites.

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.

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 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 10% to more of the capacity upper limit.

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.

FUNCTIONS SUMMARY

| Function Type | System controller | System controller Lite
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>System controller</td>
<td>System controller Lite</td>
<td></td>
</tr>
<tr>
<td>Energy manager</td>
<td>System controller Lite</td>
<td></td>
</tr>
<tr>
<td>System controller Lite</td>
<td>System controller Lite</td>
<td></td>
</tr>
<tr>
<td>Remote access</td>
<td>System controller Lite</td>
<td></td>
</tr>
<tr>
<td>Electricity charge monitoring</td>
<td>System controller Lite</td>
<td></td>
</tr>
<tr>
<td>Energy saving</td>
<td>System controller Lite</td>
<td></td>
</tr>
<tr>
<td>Central control</td>
<td>System controller Lite</td>
<td></td>
</tr>
</tbody>
</table>

PACKING LIST

<table>
<thead>
<tr>
<th>For System controller</th>
<th>For System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>System controller</td>
</tr>
<tr>
<td></td>
<td>Energy manager</td>
</tr>
<tr>
<td></td>
<td>System controller Lite</td>
</tr>
<tr>
<td></td>
<td>Remote access</td>
</tr>
<tr>
<td></td>
<td>Electricity charge monitoring</td>
</tr>
<tr>
<td></td>
<td>Energy saving</td>
</tr>
<tr>
<td></td>
<td>Central control</td>
</tr>
</tbody>
</table>

PACKING LIST

<table>
<thead>
<tr>
<th>Type</th>
<th>System controller</th>
<th>System controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

*Software protection key is embedded in a USB memory and System Controller or System Controller Lite
System Controller or System Controller Lite helps only run on a PC with WHITE USB KEY. However, WHITE USB KEY is not required for remote VRF Explorer software.
PRODUCT LINEUP: CONTROL SYSTEM-CONVERTOR/ADAPTOR

**BACnet® Gateway**

**UTY-ABGXZ1**

- It is possible to connect medium to large-sized BMS to VRF network via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 5 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® 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 UI0 USB interface. However, both UI0 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

### Operating system
- *Maximum number of required USB ports depends on the applicable system configurations.*
  - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface
  - 1 USB port is required for WHITE-USB-KEY/WibuKey connection
- **USB ports (Maximum of 5 ports)**
  - Ethernet port (for getting access to the Internet using LAN)

### Specification
- **Model name**: UTY-ABGXZ1
- **Number of connectable units / one VRF network**: 4
- **Number of controllable VRF network**: 1

### Model name: UTY-VLGX

- **For connection between VRF network system and a LowWorks® 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 LowWorks® interface.**
- **Up to 128 Indoor units can be connected to one Network Convertor for LowWorks®.**

#### Transceiver Specifications (BMS side)
- **Model name**: UTY-VLGX
- **Transmission speed**: 9.6 kbps
- **Transmission way form**: Full duplex
- **Terminal resistor**: 5 kΩ (It attaches at the terminal of a network.)

### Installation example

#### Installation example

- **Max. Controllable**: 1 VRF network system
- **Max. Controllable**: 32 refrigerant system
- **Max. Controllable**: 128 indoor units

### Specifications
- **Model name**: UTY-VLGX
- **Number of connectable indoor units**: 128
- **Number of controllable indoor units**: 128
- **Number of controllable VRF network**: 1
- **Number of connectable units via VRF network**: x

### Personal computer system requirements

#### UTY-VBGX

- **CPU**: i3 2 GHz or higher
- **RAM**: 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
- **Operating system**: Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1

### UTY-VLGX

- **CPU**: i3 2 GHz or higher
- **RAM**: 2 GB or more (for Windows® 7 [32-bit])
- **HDD**: 40 GB or more of free space
- **Display**: 1024 x 768 or higher resolution
- **Operating system**: Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1

### BACnet® Gateway

**UTY-VBGX**

- **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® over Ethernet.**
MODBUS® Convertor for Indoor Unit

UTY-VMSX

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 Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.

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

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.

MODBUS® Convertor for VRF

UTY-VMGX

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

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

MODBUS® Interface

FJ-RC-MBS-1

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

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

Specifications
- Model name: FJ-RC-MBS-1
- Dimensions (H × W × D) (mm): 93 × 53 × 58
- Weight (g): 85
PRODUCT LINEUP: CONTROL SYSTEM - CONVERTOR/ADAPTOR

**KNX® Convertor for VRF**

UTY-VKGX

**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.

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power supply</th>
<th>Power consumption (W)</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VKGX</td>
<td>220-240 V 50/60 Hz</td>
<td>1.5</td>
<td>54 × 260 × 150</td>
<td>1,200</td>
</tr>
<tr>
<td>UTY-VKSX</td>
<td>220-240 V 50/60 Hz</td>
<td>0.6</td>
<td>140 × 117 × 43</td>
<td>215</td>
</tr>
<tr>
<td>FJ-RC-KNX-1i</td>
<td>120 V (DC 12 V)</td>
<td>0.1</td>
<td>70 × 70 × 28</td>
<td>70</td>
</tr>
</tbody>
</table>

Max. Connectable

100 outdoor units

Selectable

128 indoor units

**KNX® Convertor for Indoor Unit**

UTY-VKX

**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

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power supply</th>
<th>Power consumption (W)</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VKX</td>
<td>220-240 V 50/60 Hz</td>
<td>0.1</td>
<td>54 × 260 × 150</td>
<td>1,200</td>
</tr>
<tr>
<td>UTY-VKSX</td>
<td>220-240 V 50/60 Hz</td>
<td>0.1</td>
<td>140 × 117 × 43</td>
<td>215</td>
</tr>
<tr>
<td>FJ-RC-KNX-1i</td>
<td>120 V (DC 12 V)</td>
<td>0.1</td>
<td>70 × 70 × 28</td>
<td>70</td>
</tr>
</tbody>
</table>

Max. Connectable

1 Single indoor unit

**KNX® Interface**

FJ-RC-KNX-1i

**KNX® Interface**

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**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power supply</th>
<th>Power consumption (W)</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VTFXZ1 / UTY-TFSXZ1</td>
<td>220-240 V 50/60 Hz</td>
<td>0.1</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
<tr>
<td>UTY-TFSXW1</td>
<td>220-240 V 50/60 Hz</td>
<td>0.1</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
</tbody>
</table>

Max. Connectable

1 Single indoor unit

Max. Controllable

1 Group

**Wireless LAN Interface**

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1

**It is the most advanced solution to remotely manage an Air Conditioning system using all sorts 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

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>Power supply</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TFNXZ1 / UTY-TFSXZ1</td>
<td>220-240 V 50/60 Hz</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
<tr>
<td>UTY-TFSXW1</td>
<td>220-240 V 50/60 Hz</td>
<td>71 × 38 × 15</td>
<td>35</td>
</tr>
</tbody>
</table>

Max. Connectable

1 Single indoor unit

**Basic control**

• Turning the units on and off
• Mode control (Heat, Cool, Dry, Auto, Fan)
• Fan speed setting
• Lower 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.
PRODUCT LINEUP: CONTROL SYSTEM-CONVERTOR/ADAPTOR

Wireless LAN Interface
FJ-RC-WIFI-1

- It is the most advanced solution to remotely manage an Air Conditioning system using all sorts 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

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

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

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)

External Switch Controller
UTY-TERX

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

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

Signal Amplifier
UTY-VSAEZ1

- 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
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 5.5-16 V
Dimensions (H × W × D) (mm): 140 × 117 × 43
Weight (g): 250

Model name: UTY-VSAEZ1
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
PRODUCT LINEUP: CONTROL SYSTEM-CONVERTOR/ADAPTOR

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.

VRF network System
Network Convertor
(UTY-VTGX)
Network Convertor
(UTY-VTGXV)
AC230V

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VTGX</th>
<th>UTY-VTGXV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>3-wire DC 12 V</td>
<td>2-wire DC 12 V</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>Max. 1.2</td>
<td>Max. 3.0</td>
</tr>
<tr>
<td>Dimensions (H × W × D (mm))</td>
<td>140 × 117 × 43</td>
<td>54 × 260 × 150</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>250</td>
<td>1,100</td>
</tr>
</tbody>
</table>

• 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)
# PRODUCT LINEUP: CONTROL SYSTEM

## CONTROL SYSTEM LIST

**For SPLIT/MULTI SPLIT**

| Type                                      | Installation | Wall Mounted | Standard Range | ECO Range | Remote Central Controller | Controller | ECO Range | Central Controller | Interface | Size | Flow | Control System | Reference | Unit | Size | Code
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Standard/ Indoor Type</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<td>Standard</td>
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<td>Indoor/ Outdoor Type</td>
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<tr>
<td>2-wire type</td>
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<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**For Duct**

| Type                                      | Installation | Wall Mounted | Standard Range | ECO Range | Remote Central Controller | Controller | ECO Range | Central Controller | Interface | Size | Flow | Control System | Reference | Unit | Size | Code
<table>
<thead>
<tr>
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<td>Indoor/ Outdoor Type</td>
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<td>2-wire type</td>
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<td>1</td>
<td>Standard</td>
<td>1</td>
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</tr>
</tbody>
</table>

**For Cassette**

| Type                                      | Installation | Wall Mounted | Standard Range | ECO Range | Remote Central Controller | Controller | ECO Range |Central Controller | Interface | Size | Flow | Control System | Reference | Unit | Size | Code
<table>
<thead>
<tr>
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</thead>
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<td>Indoor/ Outdoor Type</td>
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</tr>
<tr>
<td>2-wire type</td>
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</table>
# PRODUCT LINEUP: CONTROL SYSTEM

## CONTROL SYSTEM LIST for VRF

<table>
<thead>
<tr>
<th>Type</th>
<th>Control Unit Type</th>
<th>Indoor Unit</th>
<th>Duct</th>
<th>Ceiling</th>
<th>Connection Type</th>
<th>Outdoor Unit Type</th>
<th>High Static Pressure</th>
<th>Remote Control</th>
<th>Linking Flow</th>
<th>Ceiling Type</th>
<th>Material Type</th>
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</thead>
<tbody>
<tr>
<td>Control Unit Type Standard Type</td>
<td>3-way</td>
<td>5-way</td>
<td>3-way</td>
<td>5-way</td>
<td>4-way</td>
<td>5-way</td>
<td>6-way</td>
<td>8-way</td>
<td>10-way</td>
<td>---</td>
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</tr>
</tbody>
</table>

### Indoor Unit

- **Cassette Duct**
  - Compact
  - Grid type / Standard type
  - 4-way (Slim)
  - 4-way (Large)
  - Circular Flow (Slim)
  - Circular Flow (Large)
  - Mini (With drain pump)
  - Slim (With drain pump)
  - Medium Static Pressure
  - High Static Pressure

### 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 GALH
- AUXK 018/024/030/034/036/045/054 GALH
- 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

### Controllers

- Wired Remote Controller
  - UTY-RNRYZ2
  - UTY-RLRY
- Simple Remote Controller
  - 2-wire type
  - UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY
  - 3-wire type
  - UTY-RSRY
- Wireless Remote Controller
  - UTY-LNHY
- Group Remote Controller
  - UTY-CGGY + UTY-VGGXZ1
- Central Remote Controller
  - UTY-DCGY
- Touch Panel Controller
  - UTY-DTGYZ1
- System Controller, System Controller Lite
  - UTY-APGXZ1, UTY-ALGXZ1
- Interface
  - BACnet Gateway
  - UTY-ABGXZ1, UTY-VBGX
- Network Convertor for LONWORKS
  - UTY-VLGX
- MODBUS Convertor
  - UTY-VMGX
- MODBUS Interface
  - FJ-RC-MBS-1
- KNX Convertor
  - UTY-VKGX
- KNX Interface
  - FJ-RC-KNX-1i
- Wireless LAN Interface
  - UTY-TFSXZ1
- External Switch Controller
  - UTY-TERX

### Interface

- BACnet Gateway
  - UTY-ABGXZ1, UTY-VBGX
  - FJ-RC-MBS-1
  - FJ-RC-MBS-1
- Network Convertor for LONWORKS
  - UTY-VLGX
  - UTY-VLGX
  - FJ-RC-WIFI-1
  - FJ-RC-WIFI-1
  - UTY-TFSXZ1
  - UTY-TFSXZ1
  - UTY-TFSXZ1
  - UTY-TFSXZ1
Optional Parts Overview for SPLIT & MULTI SPLIT, VRF

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

**Optional Parts for Cassette**

- **Human Sensor Kit**
  The room temperature can be controlled by detecting the temperature accurately from the built-in sensor.

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

- **Fresh Air Intake Kit**
  Fresh air can be taken in by a fan which can be connected using external control unit.

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

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

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

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

**Optional Parts for Floor**

- **Half Concealed Kit**
  This kit is used to half conceal floor type indoor unit into the wall.

**Optional Parts for Duct & Ceiling**

- **Auto Louver Grille Kit**
  Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior.

- **Remote Sensor Unit**
  New amenity space can be offered by installing the Remote sensor.

- **Long Life Filter**
  Gril 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**

- **External Connect Kit & Set**
  These wires can connect between the product PCB and external device.

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

- **External Input and Output PCB**
  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.
# PRODUCT LINEUP: OPTIONAL PARTS

## Auto Louver Grille Kit

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

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

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

### Dimensions

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTD-GXTA-W</th>
<th>UTD-GXTB-W</th>
<th>UTD-GXTC-W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Dimension</td>
<td>H × W × D mm</td>
<td>180 × 683 × (84 + 9)</td>
<td>180 × 883 × (84 + 9)</td>
</tr>
<tr>
<td>Weight Net kg</td>
<td>2.0 (4.4)</td>
<td>2.5 (5.6)</td>
<td>3.0 (6.7)</td>
</tr>
<tr>
<td>Weight Gross kg</td>
<td>3.0 (6.7)</td>
<td>3.5 (7.8)</td>
<td>4.0 (8.9)</td>
</tr>
</tbody>
</table>

### Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTD-GXTA-W</th>
<th>UTD-GXTB-W</th>
<th>UTD-GXTC-W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Indoor Unit</td>
<td>APKG24K10A / APKG24K12A / APKG24M10A</td>
<td>APKG24K12A / APKG24M12A</td>
<td>APKG24M10A / APKG24M12A</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Connecting with Control box of indoor unit</td>
<td>Connecting with Control box of indoor unit</td>
<td>Connecting with Control box of indoor unit</td>
</tr>
<tr>
<td>Fixing of Auto Louver Grille</td>
<td>Screwing to Flange or Square Duct</td>
<td>Screwing to Flange or Square Duct</td>
<td>Screwing to Flange or Square Duct</td>
</tr>
<tr>
<td>Net Dimensions</td>
<td>mm</td>
<td>190 × 683 (W × H)</td>
<td>190 × 983 (W × H)</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>3.9</td>
<td>5.0</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>Louver Motor</td>
<td>Stepping Motor</td>
<td>Stepping Motor</td>
<td>Stepping Motor</td>
</tr>
<tr>
<td>Accessories</td>
<td>Fitting Flame, etc.</td>
<td>Fitting Flame, etc.</td>
<td>Fitting Flame, etc.</td>
</tr>
<tr>
<td>Operation range</td>
<td>°C</td>
<td>18 to 32</td>
<td>16 to 30</td>
</tr>
<tr>
<td>Humidity</td>
<td>%RH</td>
<td>80% or less</td>
<td>85% or less</td>
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**OPTIONAL PARTS LIST**

For SPLIT & MULTI SPLIT

For VRF

FUNCTION LIST

SEPARATION TUBE etc.
## OPTIONAL PARTS LIST for SPLIT/MULTI SPLIT

<table>
<thead>
<tr>
<th>Part Type</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide Panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human for High Insulation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New amenity space can be offered by installing this kit.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grille</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cassette</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intake Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh Air Spacer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto Louver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concealed Half Plate Shutter</td>
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<td></td>
</tr>
<tr>
<td>Air Outlet</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Optional Parts

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

## OPTIONAL PARTS LIST for VRF

<table>
<thead>
<tr>
<th>Part Type</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide Panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Kit</td>
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</tr>
<tr>
<td>Human</td>
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<tr>
<td>Remote</td>
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<tr>
<td>Grille</td>
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<td></td>
</tr>
<tr>
<td>Cassette</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intake Kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresh Air Spacer</td>
<td></td>
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<tr>
<td>Panel</td>
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<tr>
<td>Drain Pump</td>
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<td></td>
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<tr>
<td>Auto Louver</td>
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<tr>
<td>Kit</td>
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<tr>
<td>Concealed Half Plate Shutter</td>
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<td></td>
</tr>
<tr>
<td>Air Outlet</td>
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</tr>
</tbody>
</table>

### Optional Parts

- There are no optional parts for Floor/Ceiling type and Wall Mounted type.
### Function List for Split/Multi Split

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

<table>
<thead>
<tr>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Output and Input Power</th>
<th>Control Method</th>
<th>Single Split</th>
<th>Multi Split</th>
<th>Vertical Multi</th>
<th>Outdoor Unit Only</th>
<th>Communication Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function</td>
<td>Description</td>
<td>Power Level</td>
<td>Method</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Kit</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>Function</td>
<td>Power Level</td>
<td>Method</td>
<td>Function</td>
<td>Function</td>
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<td>Function</td>
<td>Kit</td>
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<td>Indoor Unit</td>
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<td>Power Level</td>
<td>Method</td>
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<td>Kit</td>
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<td>Indoor Unit</td>
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<td>Method</td>
<td>Function</td>
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<td>Function</td>
<td>Function</td>
<td>Kit</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>Function</td>
<td>Power Level</td>
<td>Method</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Kit</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>Function</td>
<td>Power Level</td>
<td>Method</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Function</td>
<td>Kit</td>
</tr>
</tbody>
</table>

#### Indoor Unit Operation
- Operation Status
- Indoor Unit Operation
- Multi Indoor Unit Operation
- Outdoor Unit Operation
- Operation Status
- Indoor Unit Operation
- Multi Indoor Unit Operation
- Outdoor Unit Operation

#### Outdoor Unit Operation
- Operation Status
- Indoor Unit Operation
- Multi Indoor Unit Operation
- Outdoor Unit Operation
- Operation Status
- Indoor Unit Operation
- Multi Indoor Unit Operation
- Outdoor Unit Operation

#### Communication Kit
- UTY-XBWG
- UTY-XBZG
- UTY-XWXG
- UTY-XWZG

#### Communication System
- External Connect Kit
- External Control Set

---

*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA)
*2: This function is for installing at server room.
## External Input and Output Function/External Connect Kit

<table>
<thead>
<tr>
<th>Function Type</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication system</td>
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</tr>
<tr>
<td>External Connect Kit</td>
<td></td>
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</tr>
<tr>
<td>Touch Panel Controller (For Dry contact or Apply voltage)</td>
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<td></td>
</tr>
<tr>
<td>Touch Panel Controller (For Data Communication)</td>
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<td></td>
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</tr>
<tr>
<td>Touch Panel Controller (For External Control)</td>
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<td>Indoor Unit Controller</td>
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</tr>
<tr>
<td>Wall Mounted Controller</td>
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</tr>
<tr>
<td>J-IIIL</td>
<td>J-III</td>
<td>J-IIS</td>
<td>V-III</td>
</tr>
<tr>
<td>Tropical VR-II</td>
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</tbody>
</table>

### Note:
- Touch Panel Controller has more functions for Dry contact and Apply voltage. However, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.
- Dry Contact: □ Apply Voltage: □

## External Connect Kit

### For Indoor Unit

- UTY-XWZXZ7
- UTY-XWZXZ9

### For Outdoor Unit

- UTY-XWZXZ6
- UTY-XWZXZ8

### For RII unit

- UTY-XWZXZE
- UTY-XWZXZC

### For Central Remote Controller

- UTY-XWZXZ7
- UTY-XWZXZ9

### For Touch Panel Controller

- UTY-XWZXZA

#### Communication System

<table>
<thead>
<tr>
<th>External Connect Kit</th>
<th>For Indoor unit</th>
<th>For Outdoor unit</th>
<th>For RII unit</th>
<th>For Central Remote Controller</th>
<th>For Touch Panel Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ6</td>
<td>UTY-XWZXZE</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZA</td>
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<td></td>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZB</td>
<td>UTY-XWZXZC</td>
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<td>UTY-XWZXZA</td>
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<tr>
<td></td>
<td>UTY-XWZXZC</td>
<td>UTY-XWZXZD</td>
<td>UTY-XWZXZF</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZA</td>
</tr>
</tbody>
</table>
PRODUCT LINEUP: OPTIONAL PARTS

SEPARATION TUBE etc.

For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

<table>
<thead>
<tr>
<th>Separation Tube</th>
<th>Branch Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTP-SX236A / UTP-SX254A</td>
<td>For 3-phase Simultaneous Multi</td>
</tr>
<tr>
<td>UTP-SX272A</td>
<td>For Simultaneous Multi Twin / Triple / Double Twin</td>
</tr>
<tr>
<td>UTP-SX248A</td>
<td>For 8 Rooms Multi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI</th>
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</thead>
<tbody>
<tr>
<td>UTP-PI025A</td>
</tr>
<tr>
<td>UTP-PI035A</td>
</tr>
<tr>
<td>UTP-PI075A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>For SIMULTANEOUS TWIN / TRIPLE / DOUBLE TWIN</th>
</tr>
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<td>UTP-PI075A</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>For 3-zones type 2-zones type</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTP-PY02A</td>
</tr>
<tr>
<td>UTP-PY03A</td>
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</table>

For VRF

<table>
<thead>
<tr>
<th>Separation Tube</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTP-BX090A</td>
</tr>
<tr>
<td>UTP-BX100A</td>
</tr>
<tr>
<td>UTP-BX150A</td>
</tr>
<tr>
<td>UTP-BX167A</td>
</tr>
<tr>
<td>UTP-LX100A</td>
</tr>
<tr>
<td>UTP-LX167A</td>
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For VRF

<table>
<thead>
<tr>
<th>Header</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTR-H0906L / UTR-H1806L</td>
</tr>
<tr>
<td>UTR-H0908L / UTR-H1808L</td>
</tr>
<tr>
<td>UTR-J0906A / UTR-J1806A</td>
</tr>
<tr>
<td>UTR-J0908A / UTR-J1808A</td>
</tr>
</tbody>
</table>

For VRF

<table>
<thead>
<tr>
<th>Outdoor Unit Branch Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTP-AX50A</td>
</tr>
<tr>
<td>UTP-AX100A</td>
</tr>
<tr>
<td>UTP-AX120A</td>
</tr>
<tr>
<td>UTP-AX167A</td>
</tr>
</tbody>
</table>

For VRF

<table>
<thead>
<tr>
<th>EV Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTR-EV025A / UTR-EV030A / UTR-EV040A</td>
</tr>
<tr>
<td>UTR-EV050A / UTR-EV060A / UTR-EV080A</td>
</tr>
</tbody>
</table>

For VRF

<table>
<thead>
<tr>
<th>RB Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTR-RX01AH / UTR-RX01BH</td>
</tr>
<tr>
<td>UTR-RX04AH</td>
</tr>
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</table>

For VRF

<table>
<thead>
<tr>
<th>Specifications</th>
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<tbody>
<tr>
<td>Separation Tube</td>
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<tr>
<td>Model name</td>
</tr>
<tr>
<td>Total cooling capacity of indoor unit (kW)</td>
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For VRF

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<tbody>
<tr>
<td>Model name</td>
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<tr>
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<tr>
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For VRF

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<tr>
<th>Outdoor unit Branch kit</th>
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<tbody>
<tr>
<td>Model name</td>
</tr>
<tr>
<td>Number of outdoor units</td>
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</tbody>
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For VRF

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<tr>
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<tbody>
<tr>
<td>Application model</td>
</tr>
<tr>
<td>ASYX6120AH</td>
</tr>
<tr>
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For VRF

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<tr>
<th>RB Unit</th>
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<tbody>
<tr>
<td>Model name</td>
</tr>
<tr>
<td>Power source</td>
</tr>
<tr>
<td>Input power</td>
</tr>
<tr>
<td>Number of branches</td>
</tr>
<tr>
<td>Maximum capacity of connectable indoor units per branch (kW)</td>
</tr>
<tr>
<td>Maximum capacity of connectable indoor units (kW)</td>
</tr>
<tr>
<td>Dimensions (H×W×D) mm</td>
</tr>
</tbody>
</table>

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