PRODUCT LINEUP: OPTIONAL PARTS

CONTROL SYSTEM

& OPTIONAL PARTS

CONTROL SYSTEM

& OPTIONAL PARTS

CONTROL SYSTEM

& OPTIONAL PARTS

OPTIONAL PARTS

PRODUCT LINEUP: OPTIONAL PARTS

CONTROL SYSTEM

& OPTIONAL PARTS

OPTIONAL PARTS

PRODUCT LINEUP: OPTIONAL PARTS

CONTROL SYSTEM

& OPTIONAL PARTS

OPTIONAL PARTS

PRODUCT LINEUP: OPTIONAL PARTS

CONTROL SYSTEM

& OPTIONAL PARTS

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

Online Control
(Wireless Control via Smart Phone/Tablet)

- **Online Control**
  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.

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-1

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

For Duct type
Duct type indoor unit

For Cassette type
Cassette type indoor unit

Wireless LAN Interface
The exclusive Wi-Fi adapter enables the air conditioner by smartphone or tablet PC from outside.
User’s needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

### Air Conditioning

#### Individual Control
- **Wired Remote Controller** (Touch panel) UTY-BRSGZ2
- **Wired Remote Controller** UTY-RLRG
- **Simple Remote Controller** UTY-RLRG
- **Wireless Remote Controller** UTY-LNHG
- **IR Receiver Unit** (For Duct) UTY-ERGH1 For Duct type
- **IR Receiver Unit** (For Cassette) UTY-ERGH1 For Cassette type

#### Centralized Control
- **System Controller** (Software) UTY-APOZ1/UTY-ALOZ1 (Lite edition)
- **Central Remote Controller** UTY-DCGG
- **Group Remote Controller** (For Group Remote Controller) UTY-VGCGZ1
- **Network Converter** (For Group Remote Controller) UTY-VGCGZ1

#### Convertor/Adaptor
- **Conversion Switch Controller** (For Single Split) UTY-TERX
- **KNX® Convertor For VRF** UTY-VKGX
- **Wireless LAN Interface** FJ-RC-WIFI-1
- **External Switch Controller** UTY-TIERX

### Convertor/Adaptor

#### For external control via BMS/Home automation Systems
- **BACnet® Gateway** UTY-ABGZ1
- **MODBUS® Convertor** UTY-VMGX
- **MODBUS® Interface** FJ-RC-MBS-1
- **KNX® Interface** FJ-RC-KNX-1
- **Wireless LAN Interface** FJ-RC-WIFI-1
- **External Switch Controller** UTY-TIERX

#### For system expansion
- **Network Converter** (DC power supply) UTY-VGCGZ1
- **Signal Amplifier** UTY-VGCGZ1

*1: BMS/BAS: Building Management System/Home automation System
*2: Lite edition is max. controllable 400 indoor units
*3: BMS, Home automation system

**CONTROL SYSTEM OVERVIEW for VRF**

**PRODUCT LINEUP: CONTROL SYSTEM**
PRODUCT LINEUP: CONTROL SYSTEM

Best Control Solution for Each Property

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

### SHOP

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual Control</th>
<th>Centralized Control</th>
<th>Integrating Control [Interface]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wired Remote Controller</td>
<td>Group Remote Controller</td>
<td>Central Remote Controller</td>
</tr>
<tr>
<td></td>
<td>Touch Panel Controller</td>
<td>Systems Controller</td>
<td>Network Controller for Connectivity®</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MODBUS® Convertor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>KNX® Convertor</td>
</tr>
</tbody>
</table>

- Automatic control of AC
(Schedule timer, Weekly timer etc.)

- Centralized A/C control for management

- Remote Management

- Monitor energy consumption

- Control third party products

- Integrate FGL A/C into BMS

### OFFICE

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual Control</th>
<th>Centralized Control</th>
<th>Integrating Control [Interface]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wired Remote Controller</td>
<td>Single Remote Controller</td>
<td>Multiple Remote Controller</td>
</tr>
<tr>
<td></td>
<td>Group Remote Controller</td>
<td>Central Remote Controller</td>
<td>Touch Panel Controller</td>
</tr>
<tr>
<td></td>
<td>Systems Controller</td>
<td>Network Controller for Connectivity®</td>
<td>MODBUS® Convertor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>KNX® Convertor</td>
</tr>
</tbody>
</table>

- Local control for office staff

- Automatic control of AC
(Schedule timer, Weekly timer etc.)

- Centralized A/C control for management

- 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

### HOTEL

<table>
<thead>
<tr>
<th>Type</th>
<th>Individual Control</th>
<th>Centralized Control</th>
<th>Integrating Control [Interface]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wired Remote Controller</td>
<td>Simple Remote Controller</td>
<td>Wireless Remote Controller</td>
</tr>
<tr>
<td></td>
<td>Group Remote Controller</td>
<td>Central Remote Controller</td>
<td>Touch Panel Controller</td>
</tr>
<tr>
<td></td>
<td>Systems Controller</td>
<td>Network Controller for Connectivity®</td>
<td>MODBUS® Convertor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>KNX® Convertor</td>
</tr>
</tbody>
</table>

- Local control for hotel guest

- Centralized A/C control for common area

- Remote Management

- Advanced Energy Saving
(On/off, 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
## PRODUCT LINEUP: CONTROL SYSTEM

### Comparison Table of Controllers

<table>
<thead>
<tr>
<th>Item</th>
<th>Wired Remote Controller (Touch panel)</th>
<th>Wired Remote Controller</th>
<th>Simple Remote Controller</th>
<th>Simple Remote Controller**</th>
<th>Wireless Remote Controller</th>
<th>Central Remote Controller (For 1 room only)</th>
<th>Group Remote Controller</th>
<th>Central Remote Controller</th>
<th>Touch Panel Controller</th>
<th>System Controller Lite</th>
<th>System Controller 10000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model name</td>
<td>UTY-RNRGZ2</td>
<td>UTY-RLRG</td>
<td>UTY-RVNGM</td>
<td>UTY-RSNGM</td>
<td>UTY-RSRG</td>
<td>UTY-LNHG</td>
<td>UTY-DMMGM</td>
<td>UTY-CGGG</td>
<td>UTY-DCGG</td>
<td>UTY-DTGGZ1</td>
<td>UTY-ALGXZ1</td>
</tr>
<tr>
<td>Max. controllable remote control groups</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Max. controllable indoor units</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Air conditioning control function</td>
<td>On / Off</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation mode setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan speed setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room temp. setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Room temp. set point limitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test operation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8SGRZQDLUGLUHFWLRQÁDSVHWWLQJ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5LJKWOHIWDLUGLUHFWLRQÁDSVHWWLQJ</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Individual louver control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC prohibition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anti freeze setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Set temp. auto return</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economy mode setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human sensor control</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display error</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Defrosting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day of week</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R.C. prohibition</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling/heating priority</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address display</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A.M. time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi language</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleep timer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low noise mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24-hour clock / 24-hour display</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antisperient / anti-seepage function</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule timer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry day</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Key lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td>Child lock</td>
<td></td>
</tr>
<tr>
<td>Low noise mode</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 “Operation mode” setting is not available for this model.  
*2 This function is available only through external input control.  
S: Supported  O: Optional function  —: Not supported yet
Hi-grade individual control using various functions.
- 3.7-inch LCD backlit 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
- 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
- Can be set up to 8 times per day (On/Off, mode,temp).
- 2 pattern settings like Summer/Winter setting are available.

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

Specifications
- Model name: UTY-RVNGM
- Max. Controllable: 16 indoor units
- Max. Controllable: 1 Group
- Specifications
  - Model name: UTy-RVNGM
  - Power Source: DC 12 V
  - Dimensions (H × W × D) (mm): 120 × 120 × 21.3
  - Weight (g): 220
- DC 12V is supplied by the indoor unit.

Specifications
- Model name: UTY-RNRGZ2
- Max. Controllable: 16 indoor units
- Max. Controllable: 1 Group
- Specifications
  - Model name: UTY-RNRGZ2
  - Power Source: DC 12 V
  - Dimensions (H × W × D) (mm): 120 × 120 × 20.4
  - Weight (g): 220
- DC 12V is supplied by the indoor unit.
PRODUCT LINEUP: CONTROL SYSTEM - INDIVIDUAL CONTROL

Wired Remote Controller
UTY-RLRG

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

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

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

Wired Remote Controller
UTY-RNNGM

- Simple operation with built-in weekly / daily timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

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

Example of changing sensor
Remote Sensor
in the bedroom
Wired Remote Controller
in the living room
Indoor unit

Set contents can be displayed clearly with large LCD.
Sophisticated control buttons Simple operation with easy 4-way navigation pad.

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-RSRG / UTY-RHRG

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 enables easy operation in dark.
- 2-wire type

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.

Easy-to-use operation
- Provides access to basic operations, such as start / stop, fan control, operation mode switching, and room temperature setting.
- A large ON / OFF button is provided in the center of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Specifications
Model name UTY-RSRG UTY-RHRG
Power Source DC 12 V DC 12 V
Dimensions (H × W × D) (mm) 120 × 75 × 19.4 120 × 75 × 19.4
Weight (g) 120 90

UTY-RNGM, UTY-RNNGM, UTY-RSKG, UTY-RHKG

Without operation mode

Specifications
Model name UTY-RSRG UTY-RHRG UTY-RNGM, UTY-RSKG UTY-RHKG
Power Source DC 12 V DC 12 V DC 12 V DC 12 V
Dimensions (H × W × D) (mm) 120 × 75 × 19.4 120 × 75 × 19.4 120 × 75 × 19.4 120 × 75 × 19.4
Weight (g) 120 90 120 90

DC 12V is supplied by the indoor unit.

DC 12 V is supplied by the indoor unit.
Wireless Remote Controller
UTY-LNHG

Simple and sophisticated operations with a choice of 4 daily timers
- A single controller controls up to 16 indoor units.

Built-in timers
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/DFF 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-LNHG / UTY-LBTGM

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
Model name UTY-LNHG UTY-LNHG / UTY-LNGC / UTY-LBTGM UTY-LRHGB1 / UTY-LBHCX / UTY-LRHGA2 / UTY-LBTGC
Battery 1.5 V (R03 / LR03 / AAA) × 2 DC 5 V 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) 83 150 149

Group Remote Controller/Network Convertor
UTY-CGGG / 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)
- 5 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
Model name UTY-CGGG
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) 1500
PRODUCT LINEUP: CONTROL SYSTEM-CENTRALIZED CONTROL

Central Remote Controller

UTY-DKGG

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

Max. Controllable
100 indoor units
Max. Controllable
16 groups

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

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

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

Central Remote Controller

for 5-6 Rooms Multi, 8 Rooms Multi

UTY-DMMGM

- 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

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

System configuration

Central Remote Controller Functions

Weekly schedule timer
The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.

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

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

Economy operation
Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibited Settings
- The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms.
- The central remote controller also has a key lock function to prevent children from playing with it, etc.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DKGG</th>
<th>Model name</th>
<th>UTY-DMMGM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Panel</td>
<td>Power Supply Unit</td>
<td>Power Supply Unit</td>
<td>Power Source</td>
</tr>
<tr>
<td>Dimensions (W × D × H (mm)</td>
<td>128 × 93 × 25.7</td>
<td>100-240 V, 50-60 Hz, Single phase</td>
<td></td>
</tr>
<tr>
<td>Weight (g)</td>
<td>335</td>
<td>220</td>
<td>DC 12 V is supplied by the indoor unit.</td>
</tr>
</tbody>
</table>

PACKING LIST
Control Panel, Power Supply Unit, Connecting cable, etc.

Specifications

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-DMMGM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td>Power Supply Unit</td>
</tr>
<tr>
<td>Dimensions (W × D × H (mm))</td>
<td>100-240 V, 50-60 Hz, Single phase</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>220</td>
</tr>
</tbody>
</table>
PRODUCT LINEUP: CONTROL SYSTEM—CENTRALIZED CONTROL

Touch Panel Controller
UTY-DTGGZ1

- Large-sized 7.5-inch TFT color
- LED Easy finger touch operation
- Stylish shape and design to suit all applications
- 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 switch 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-glace 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 it 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 all 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.

Operation status monitoring

Operation route setting

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

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

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

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

Electricity charge apportionment
(Option: UTY-PTGXA)

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

Features: Touch Panel Controller

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

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

Electricity charge apportionment
(Option: UTY-PTGXA)

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

Features: Touch Panel Controller

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

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

Electricity charge apportionment
(Option: UTY-PTGXA)

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

Features: Touch Panel Controller

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

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

Electricity charge apportionment
(Option: UTY-PTGXA)

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.
- Apportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation at cooling and heating
- Electricity meter supported
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>Air conditioning control functions</th>
<th>UTY-DFSG21</th>
<th>Monitoring side</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/OFF</td>
<td>●</td>
<td>●</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>Room temp. set point limitation</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Schedule timer On/off, Temp, Mode, Times per day</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Program timer</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Auto off timer</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Day off</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Max unit of timer setting (Minutes)</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Status monitoring system</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Electric charge apportionment</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Emergency stop</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Remote management</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Energy saving management</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>E-mail notification for malfunction</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Key lock</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Language setting</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Filter sign reset</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>

*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-DFSG21</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>100-240V x 50/60 Hz, 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

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)

Max. Controllable

4 VRF network systems
400 outdoor units
1,600 indoor units

System Controller Lite

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)

Max. Controllable

1 VRF network systems
100 outdoor units
400 indoor units

High visibility and Easy operation

Click & Operate: The property is shown visually from the perspective most suitable for operation and operation 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 hierarchical structure, such as by section, division or department is possible.

3rd party devices connected by Modbus can be controlled.

Features: System Controller/System Controller Lite

Remote controller prohibition
- This prohibits changes to the operation mode, temperature, start/stop, etc.

Error display & E-mail notification
- If the 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

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

Diverse control of indoor unit and outdoor unit
- Indoor unit operation state, operation mode, etc. are displayed.
- Indoor unit start/stop and operation mode switching.
- Room temperature set point limitation.
- Outdoor unit low noise setting.

Data base import/export
- Imports/exports registration data, layout data, and image data.
- 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.
- Only the administrator can make this setting.

Electricity charge apportionment

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 changes 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

**Option 1** for System Controller

**Option 2** for System Controller Lite

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. 4 VRF network systems per site

### Remote central control

1 VRF Controller can be controlled in number up to 10 sites.

## Energy saving management

**Option 1** for System Controller UTY-PLGXE2

**Option 2** for System Controller Lite UTY-PLGXR2

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 high summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 10% to 50% of the capacity upper limit.

### Energy saving graph data

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year.

**Energy saving management Main Screen**

![Energy saving management Main Screen](image)

**Special Property Detailed Monitoring Screen**

![Special Property Detailed Monitoring Screen](image)

**Building Monitoring Screen**

![Building Monitoring Screen](image)

**Central Monitoring Screen**

![Central Monitoring Screen](image)

**Remote control prohibition setting**

![Remote control prohibition setting](image)

**Available** / **Not available**

**Personal computer system requirements**

The required PC specifications are shown in the following table.

<table>
<thead>
<tr>
<th>System Controller</th>
<th>System Controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating system</strong></td>
<td></td>
</tr>
<tr>
<td>Windows (both 32-bit and 64-bit)</td>
<td></td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td></td>
</tr>
<tr>
<td>2 GB or more (64-bit)</td>
<td>1 GB or more (32-bit)</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td></td>
</tr>
<tr>
<td>1024 x 768 or higher resolution</td>
<td></td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td></td>
</tr>
<tr>
<td>Port: VRF Controller, System Controller, and System Controller Lite</td>
<td></td>
</tr>
<tr>
<td><strong>Software</strong></td>
<td></td>
</tr>
<tr>
<td>Echelon® U10 USB Network Interface (UNIX, Linux, and Windows)</td>
<td></td>
</tr>
</tbody>
</table>

### Packing List

**System Controller**

<table>
<thead>
<tr>
<th>Type</th>
<th>System Controller</th>
<th>System Controller Lite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy manager</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>System controller Lite</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Remote access</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Availability</td>
<td><strong>Available</strong></td>
<td><strong>Available</strong></td>
</tr>
</tbody>
</table>

**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.

---

1) Software protection keys to be inserted in a USB cluttering System Controller or System Controller Lite System Controller or System Controller Lite has only one on SITE, with another USB KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.
PRODUCT LINEUP: CONTROL SYSTEM-CONVERTOR/ADAPTOR

**BACnet® Gateway**

**UTY-ABGZ1**

- 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 6 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 all 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 Energy Charge 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-ABGZ1**

- **Operating system**
  - Windows® XP Home (32-bit) & XP Professional (32-bit & 64-bit SP1)
  - Windows® XP Professional (32-bit & 64-bit SP2)
  - Windows® 7 Professional (32-bit & 64-bit), Windows® 8 Pro (32-bit & 64-bit)
  - Windows® 10 Home (32-bit & 64-bit), Windows® 10 Pro (32-bit & 64-bit)
- **Language**
  - English, Chinese, French, German, Russian, Spanish, Polish
- **CPU**
  - 2.0 GHz or above
- **Memory**
  - 1GB or above
- **HDD**
  - 40GB or more of free space
- **Interface**
  - USB (Port No. 1-4)
  - USB (Port No. 5-8)
  - Network interface
- **Software**
  - BACnet® USB Network Interface – Echelon Corporation
  - BACnet® Operator Workstation (B-OWS)
  - Workstation (B-OWS)
  - BACnet® Operator

### Installation example

- **VRF network system 1**
  - USB adapter (locally purchased)
- **VRF network system 2**
  - USB adapter (locally purchased)

### Specifications

**UTY-VBGX**

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

**UTY-VLGX**

- **Model name** UTY-VLGX
- **Number of connectable units / one VRF network** 4
- **Number of controllable indoor units** 128

---

**Network Convertor for LonWorks®**

**UTY-VLZX**

- 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-VLZX permits central monitoring and control of a VRF network system from a BMS through a LonWorks® interface.
- Top to 128 Indoor units can be connected to one Network Convertor for LonWorks®

### Installation example

- **General feature**
  - General feature of a network convertor (LonWorks® device)
- **Automatic fire alarm interface**
- **Security system**
- **Lighting facilities**

### Specifications

**UTY-VLZX**

- **Model name** UTY-VLZX
- **Power Supply** 100-240V 50/60Hz single phase
- **Dimensions** (W × D × H) (mm) 67 × 288 × 211
- **Weight (g)** 1,500

---

**Transmitter specifications (BMS side)**

- **Power Supply** 20mA (±20% ±50mA) single phase
- **Power Consumption (W)** 4.5
- **Dimensions** (W × D × H) (mm) 67 × 200 × 113
- **Weight** 1.7kg

---

**BACnet® Gateway**

**UTY-VBGX**

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

### Installation example

- **General feature**
  - General feature of a network convertor (LonWorks® device)
- **Automatic fire alarm interface**
- **Security system**
- **Lighting facilities**

### Specifications

**UTY-VBGX**

- **Model name** UTY-VBGX
- **Power Supply** 100-240V 50/60Hz single phase
- **Dimensions** (W × D × H) (mm) 67 × 288 × 211
- **Weight** 1.7kg

---

---

**BACnet® Gateway**

**UTY-VLGX**

- **Model name** UTY-VLGX
- **Number of connectable units / one VRF network** 4
- **Number of controllable indoor units** 128

**Installation example**

- **General feature**
  - General feature of a network convertor (LonWorks® device)
- **Automatic fire alarm interface**
- **Security system**
- **Lighting facilities**

### Specifications

**UTY-VLGX**

- **Model name** UTY-VLGX
- **Power Supply** 200-240V 50/60Hz single phase
- **Dimensions** (W × D × H) (mm) 67 × 200 × 113
- **Weight** 1.7kg

---

---
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 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.

**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)

**Easy Installation**

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

---

MODBUS® Convertor

**UTY-VMGX**

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller
- Up to 9 converters can be connected to a VRF network. The simultaneous controls such as DNOFF 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
- **9 units to one VRF (Max. Controllable):**
- **100 outdoor units (Max. Controllable):**
- **128 indoor units (Selectable):**

**Easy Installation**

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

---

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

**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

**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:** MODBUS Interface
- **Maximum cable length:** 1000m (3280 ft)
**KNX® Convertor for VRF**

**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.

Max. Connectable
- 100 outdoor units
- Selectable
- 128 indoor units

**KNX® Convertor for 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

Max. Connectable
- 1 Single indoor unit

**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.

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

**Specifications**

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

**KNX® Convertor for VRF**

**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.

Max. Connectable
- 100 outdoor units
- Selectable
- 128 indoor units

**KNX® Convertor for 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

Max. Connectable
- 1 Single indoor unit

**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.

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

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VFGX</th>
<th>UTY-VKSX</th>
<th>UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>71 × 38 × 15</td>
<td>71 × 38 × 15</td>
<td>71 × 38 × 15</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**KNX® Convertor for 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

Max. Connectable
- 1 Single indoor unit

**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.

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

**Specifications**

<table>
<thead>
<tr>
<th>Model name</th>
<th>UTY-VFGX</th>
<th>UTY-VKSX</th>
<th>UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H × W × D) (mm)</td>
<td>71 × 38 × 15</td>
<td>71 × 38 × 15</td>
<td>71 × 38 × 15</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
</tbody>
</table>

**Wireless LAN Interface**

**KNX® Convertor for VRF**

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

Max. Connectable
- 1 Single indoor unit

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

**Multiple air conditioning management**
- Multiple air conditioning management at different locations.

**Error display & E-mail notification**
- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.
### Wireless LAN Interface

**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 outdoor units and group controlled (up to 16) indoor units.

![Application screen image](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FJ-RC-WIFI-1</td>
<td>108 × 70 × 28</td>
<td>80</td>
</tr>
</tbody>
</table>

### 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-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 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**

![Installation example](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TERX</td>
<td>140 × 117 × 43</td>
<td>250</td>
</tr>
</tbody>
</table>

### Signal Amplifier

**UTY-VSGXZ1**

- DC 12 V is supplied by the indoor unit.
- Human sensor equipment needs to be purchased locally.
- Human sensor is not mounted on the External Switch Controller.

![Signal Amplifier](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VSGXZ1</td>
<td>67 × 288 × 211</td>
<td>1,500</td>
</tr>
</tbody>
</table>

**Internal Switch Controller**

- 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-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 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**

![Installation example](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VSGXZ1</td>
<td>67 × 288 × 211</td>
<td>1,500</td>
</tr>
</tbody>
</table>

### 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 outdoor units and group controlled (up to 16) indoor units.

![Application screen image](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FJ-RC-WIFI-1</td>
<td>108 × 70 × 28</td>
<td>80</td>
</tr>
</tbody>
</table>

### 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-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 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**

![Installation example](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-TERX</td>
<td>140 × 117 × 43</td>
<td>250</td>
</tr>
</tbody>
</table>

### Signal Amplifier

**UTY-VSGXZ1**

- DC 12 V is supplied by the indoor unit.
- Human sensor equipment needs to be purchased locally.
- Human sensor is not mounted on the External Switch Controller.

![Signal Amplifier](image)

**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Dimensions (H × W × D) (mm)</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-VSGXZ1</td>
<td>67 × 288 × 211</td>
<td>1,500</td>
</tr>
</tbody>
</table>
**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.

**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>non-polar 2-wire DC 12 V</td>
</tr>
<tr>
<td>Input power (W)</td>
<td>Max. 1.2</td>
<td>Max. 3</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>

**Network Convertor for Single Split (UTY-VTGX / UTY-VTGXV)**

16 single indoor units

1 Group

100 Network Convertors

**Control System List**

For SPLIT & MULTI SPLIT

For VRF

- 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**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wall Mounted</th>
<th>Controller</th>
<th>Interface</th>
<th>Remote</th>
<th>Central</th>
<th>Switch</th>
<th>External</th>
<th>2-wire type</th>
<th>3-wire type</th>
<th>Optional</th>
<th>E-call</th>
<th>Multi Function</th>
<th>Multi Room</th>
<th>Model</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Split</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td></td>
</tr>
<tr>
<td>Multi</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td>LSY TFSXZ2</td>
<td></td>
</tr>
</tbody>
</table>
# PRODUCT LINEUP: CONTROL SYSTEM

## CONTROL SYSTEM LIST for VRF

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Ceiling/Floor</th>
<th>High Static Pressure</th>
<th>Control System</th>
<th>Installation</th>
<th>Wall Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wired Remote Controller</td>
<td>UTY-RNRGZ2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wired Remote Controller</td>
<td>UTY-RLRG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple Remote Controller</td>
<td>UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless Remote Controller</td>
<td>UTY-LNHG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group Remote Controller</td>
<td>UTY-CGGG + UTY-VGGXZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Remote Controller</td>
<td>UTY-DCCG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touch Panel Controller</td>
<td>UTY-DTGGZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Controller, System Controller Lite</td>
<td>UTY-APGXZ1, UTY-ALGXZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface BACnet Gateway</td>
<td>UTY-ABGXZ1, UTY-VBGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Convertor for LONWORKS</td>
<td>UTY-VLGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODBUS Convertor</td>
<td>UTY-VMGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODBUS Interface</td>
<td>FJ-RC-MBS-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNX Convertor</td>
<td>UTY-VKGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNX Interface</td>
<td>FJ-RC-KNX-1i</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless LAN Interface</td>
<td>UTY-TFSXZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Switch Controller</td>
<td>UTY-TERX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>Name</th>
<th>Indoor unit</th>
<th>Outdoor unit</th>
<th>Ceiling/Floor</th>
<th>High Static Pressure</th>
<th>Control System</th>
<th>Installation</th>
<th>Wall Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wired Remote Controller</td>
<td>UTY-RNRGZ2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wired Remote Controller</td>
<td>UTY-RLRG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple Remote Controller</td>
<td>UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless Remote Controller</td>
<td>UTY-LNHG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group Remote Controller</td>
<td>UTY-CGGG + UTY-VGGXZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Central Remote Controller</td>
<td>UTY-DCCG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Touch Panel Controller</td>
<td>UTY-DTGGZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Controller, System Controller Lite</td>
<td>UTY-APGXZ1, UTY-ALGXZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interface BACnet Gateway</td>
<td>UTY-ABGXZ1, UTY-VBGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Convertor for LONWORKS</td>
<td>UTY-VLGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODBUS Convertor</td>
<td>UTY-VMGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODBUS Interface</td>
<td>FJ-RC-MBS-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNX Convertor</td>
<td>UTY-VKGX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNX Interface</td>
<td>FJ-RC-KNX-1i</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless LAN Interface</td>
<td>UTY-TFSXZ1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Switch Controller</td>
<td>UTY-TERX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**PRODUCT LINEUP: OPTIONAL PARTS**

**OPTIONAL PARTS OVERVIEW**
for SPLIT & MULTI SPLIT, VRF

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

### Optional Parts

#### For Cassette

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

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

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

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

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

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

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

### Optional Parts

#### For Floor

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

### Optional Parts

#### For Duct & Ceiling

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

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

**Long Life Filter**
Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.

**Flange**
Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.

**Drain Pump Unit**
This device can drain the collected water during operation.

### Connection Parts

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

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

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

**External Input and Output PCB Box & Bracket**
These are the box and bracket for installing the External input and output PCB.
# 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>W1</th>
<th>W2</th>
<th>H1</th>
<th>H2</th>
<th>D1</th>
<th>D2</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTD-GXTA-W</td>
<td>683</td>
<td>645</td>
<td>180</td>
<td>148</td>
<td>9</td>
<td>84</td>
</tr>
<tr>
<td>UTD-GXTB-W</td>
<td>883</td>
<td>845</td>
<td>180</td>
<td>148</td>
<td>9</td>
<td>84</td>
</tr>
<tr>
<td>UTD-GXTC-W</td>
<td>1,083</td>
<td>1,045</td>
<td>180</td>
<td>148</td>
<td>9</td>
<td>84</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><strong>Applicable Indoor Unit</strong></td>
<td>ARHG07/09LLTA</td>
<td>ARHG12/14LLTB</td>
<td>ARXD04/07/09/12/14GALH (For VRF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ARXK07/09/12/14GCLH (For VRF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ARXD18GALH (For VRF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ARXK18GCLH (For VRF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ARXD24GALH (For VRF)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ARXK24GCLH (For VRF)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Connecting with control box of indoor unit</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fixing of Auto Louver Grille</strong></td>
<td>Fixing of Auto Louver Grille with control box</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Dimension (W × H × D) (mm)</strong></td>
<td>180 × 683 × (84 + 9)</td>
<td>180 × 883 × (84 + 9)</td>
<td>180 × 1083 × (84 + 9)</td>
</tr>
<tr>
<td><strong>Net Weight (kg)</strong></td>
<td>2.0 (4.4)</td>
<td>2.5 (5.6)</td>
<td>3.0 (6.7)</td>
</tr>
<tr>
<td><strong>Gross Weight (kg)</strong></td>
<td>3.0 (6.7)</td>
<td>3.5 (7.8)</td>
<td>4.0 (8.9)</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Louver Motor</strong></td>
<td>Stepping Motor</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Accessories</strong></td>
<td>Fitting Flame, etc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Function List

- Separation Tube etc.

### Optional Parts List

For SPLIT & MULTI SPLIT

For VRF
## OPTIONAL PARTS LIST for SPLIT/MULTI SPLIT

<table>
<thead>
<tr>
<th>Category</th>
<th>Indoor Unit</th>
<th>Design</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-way Flow</td>
<td>Circular Flow</td>
<td>V-way Flow</td>
<td>V-way Flow</td>
</tr>
<tr>
<td>Mix</td>
<td>Mix</td>
<td>Mix</td>
<td>Mix</td>
</tr>
<tr>
<td>Wide Static Pressure</td>
<td>Wide Static Pressure</td>
<td>Wide Static Pressure</td>
<td>Wide Static Pressure</td>
</tr>
<tr>
<td>High Static Pressure</td>
<td>High Static Pressure</td>
<td>High Static Pressure</td>
<td>High Static Pressure</td>
</tr>
<tr>
<td>Rigi</td>
<td>Rigi</td>
<td>Rigi</td>
<td>Rigi</td>
</tr>
<tr>
<td>Flow</td>
<td>Flow</td>
<td>Flow</td>
<td>Flow</td>
</tr>
<tr>
<td>Cooling</td>
<td>Cooling</td>
<td>Cooling</td>
<td>Cooling</td>
</tr>
<tr>
<td>Air Conditioning</td>
<td>Air Conditioning</td>
<td>Air Conditioning</td>
<td>Air Conditioning</td>
</tr>
<tr>
<td>Pressure</td>
<td>Pressure</td>
<td>Pressure</td>
<td>Pressure</td>
</tr>
<tr>
<td>Medium</td>
<td>Medium</td>
<td>Medium</td>
<td>Medium</td>
</tr>
<tr>
<td>High</td>
<td>High</td>
<td>High</td>
<td>High</td>
</tr>
<tr>
<td>Pressure</td>
<td>Pressure</td>
<td>Pressure</td>
<td>Pressure</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>Indoor Unit</td>
<td>Indoor Unit</td>
<td>Indoor Unit</td>
</tr>
<tr>
<td>Human Kit</td>
<td>Human Kit</td>
<td>Human Kit</td>
<td>Human Kit</td>
</tr>
<tr>
<td>Kit</td>
<td>Kit</td>
<td>Kit</td>
<td>Kit</td>
</tr>
<tr>
<td>Concealed</td>
<td>Concealed</td>
<td>Concealed</td>
<td>Concealed</td>
</tr>
<tr>
<td>Half</td>
<td>Half</td>
<td>Half</td>
<td>Half</td>
</tr>
<tr>
<td>Panel</td>
<td>Panel</td>
<td>Panel</td>
<td>Panel</td>
</tr>
<tr>
<td>Spacer</td>
<td>Spacer</td>
<td>Spacer</td>
<td>Spacer</td>
</tr>
<tr>
<td>600 (mm)</td>
<td>600 (mm)</td>
<td>600 (mm)</td>
<td>600 (mm)</td>
</tr>
<tr>
<td>UTG-UKGA-B</td>
<td>UTG-UKGA-B</td>
<td>UTG-UKGA-B</td>
<td>UTG-UKGA-B</td>
</tr>
<tr>
<td>UTG-UKGC-W</td>
<td>UTG-UKGC-W</td>
<td>UTG-UKGC-W</td>
<td>UTG-UKGC-W</td>
</tr>
<tr>
<td>UTG-UFGC-W</td>
<td>UTG-UFGC-W</td>
<td>UTG-UFGC-W</td>
<td>UTG-UFGC-W</td>
</tr>
<tr>
<td>UTG-UFGE-W</td>
<td>UTG-UFGE-W</td>
<td>UTG-UFGE-W</td>
<td>UTG-UFGE-W</td>
</tr>
</tbody>
</table>

## OPTIONAL PARTS LIST for VRF

<table>
<thead>
<tr>
<th>Category</th>
<th>Indoor Unit</th>
<th>Design</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mix</td>
<td>Mix</td>
<td>Mix</td>
<td>Mix</td>
</tr>
<tr>
<td>Wide Static Pressure</td>
<td>Wide Static Pressure</td>
<td>Wide Static Pressure</td>
<td>Wide Static Pressure</td>
</tr>
<tr>
<td>High Static Pressure</td>
<td>High Static Pressure</td>
<td>High Static Pressure</td>
<td>High Static Pressure</td>
</tr>
<tr>
<td>Indoor Unit</td>
<td>Indoor Unit</td>
<td>Indoor Unit</td>
<td>Indoor Unit</td>
</tr>
<tr>
<td>Human Kit</td>
<td>Human Kit</td>
<td>Human Kit</td>
<td>Human Kit</td>
</tr>
<tr>
<td>Kit</td>
<td>Kit</td>
<td>Kit</td>
<td>Kit</td>
</tr>
<tr>
<td>Concealed</td>
<td>Concealed</td>
<td>Concealed</td>
<td>Concealed</td>
</tr>
<tr>
<td>Half</td>
<td>Half</td>
<td>Half</td>
<td>Half</td>
</tr>
<tr>
<td>Panel</td>
<td>Panel</td>
<td>Panel</td>
<td>Panel</td>
</tr>
<tr>
<td>Spacer</td>
<td>Spacer</td>
<td>Spacer</td>
<td>Spacer</td>
</tr>
<tr>
<td>600 (mm)</td>
<td>600 (mm)</td>
<td>600 (mm)</td>
<td>600 (mm)</td>
</tr>
<tr>
<td>UTG-UKGA-B</td>
<td>UTG-UKGA-B</td>
<td>UTG-UKGA-B</td>
<td>UTG-UKGA-B</td>
</tr>
<tr>
<td>UTG-UKGC-W</td>
<td>UTG-UKGC-W</td>
<td>UTG-UKGC-W</td>
<td>UTG-UKGC-W</td>
</tr>
<tr>
<td>UTG-UFGC-W</td>
<td>UTG-UFGC-W</td>
<td>UTG-UFGC-W</td>
<td>UTG-UFGC-W</td>
</tr>
<tr>
<td>UTG-UFGE-W</td>
<td>UTG-UFGE-W</td>
<td>UTG-UFGE-W</td>
<td>UTG-UFGE-W</td>
</tr>
</tbody>
</table>

* There are no optional parts for Floor/Ceiling type and Wall/Mounted type.
# PRODUCT LINEUP: OPTIONAL PARTS

## FUNCTION LIST for SPLIT/MULTI SPLIT

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

<table>
<thead>
<tr>
<th>Outdoor unit</th>
<th>Indoor unit</th>
<th>Communication Kit</th>
<th>External input and output PCB</th>
<th>External input and output PCB Box</th>
<th>External Input and output PCB/Bracket</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-XWZXZ2</td>
<td>UTY-TWBXF2</td>
<td>UTY-XWZXZ5</td>
<td>UTY-XCSXZ2</td>
<td>UTY-XCSXZ1</td>
<td>UTY-XCSXZ1+ or UTY-XCSXZ1</td>
</tr>
<tr>
<td>UTY-XWZXZ5</td>
<td>UTY-XWZXZ5+</td>
<td>UTY-XCSXZ1</td>
<td>UTY-XCSXZ2</td>
<td>UTY-XCSXZ1</td>
<td>UTY-XCSXZ1 or UTY-XCSXZ1</td>
</tr>
<tr>
<td>UTY-XWZXZ5+</td>
<td>UTY-XWZXZ5+</td>
<td>UTY-XCSXZ1</td>
<td>UTY-XCSXZ2</td>
<td>UTY-XCSXZ1</td>
<td>UTY-XCSXZ1 or UTY-XCSXZ1</td>
</tr>
</tbody>
</table>

### Communication system

#### External Connect Kit

- For Indoor Unit
  - UTY-XWZXZ5
  - UTY-XWZXZ3
  - UTY-XWZXZG

- For Outdoor Unit
  - UTY-XWZXZ2
  - UTY-XWZXZ3
  - UTY-XWZXZ4

#### External Control Set

- UTY-XWZXZ2
- UTY-XWZXZ3
- UTY-XWZXZ4

---

*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA)  
*2: This function is for installing at server room.
## PRODUCT LINEUP: OPTIONAL PARTS

### FUNCTION LIST for VRF

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

<table>
<thead>
<tr>
<th>Function</th>
<th>Symbol</th>
<th>Indoor Unit</th>
<th>Outdoor Unit</th>
<th>RB Unit</th>
<th>Central Remote Controller</th>
<th>Touch Panel Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation / Stop</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Batch Stop</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Emergency Stop</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Low Noise Mode Operation</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Cooling/Heating Priority</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Outdoor Unit Operation Peak Control</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Power Usage Information from Electricity Meter</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Operation Status</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Error Status</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Indoor Unit Fan Operation Status</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Auxiliary Heater Output</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
<tr>
<td>Base Heater</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
<td>UTY-XWZXZ2</td>
</tr>
</tbody>
</table>

* 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.

#### Communication system

### External Connect Kit

<table>
<thead>
<tr>
<th>Component</th>
<th>Symbol</th>
<th>For Indoor Unit</th>
<th>For Outdoor Unit</th>
<th>For RB Unit</th>
<th>For Central Remote Controller</th>
<th>For Touch Panel Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
<td>UTY-XWZXZ7</td>
</tr>
<tr>
<td>UTY-XWZXZ8</td>
<td>UTY-XWZXZ8</td>
<td>UTY-XWZXZ8</td>
<td>UTY-XWZXZ8</td>
<td>UTY-XWZXZ8</td>
<td>UTY-XWZXZ8</td>
<td>UTY-XWZXZ8</td>
</tr>
<tr>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZ9</td>
<td>UTY-XWZXZ9</td>
</tr>
<tr>
<td>UTY-XWZXZA</td>
<td>UTY-XWZXZA</td>
<td>UTY-XWZXZA</td>
<td>UTY-XWZXZA</td>
<td>UTY-XWZXZA</td>
<td>UTY-XWZXZA</td>
<td>UTY-XWZXZA</td>
</tr>
</tbody>
</table>

* For Indoor unit, Outdoor unit, RB unit, and Central Remote Controller | For Touch Panel Controller
- **External Connect Kit:**
  - UTY-XWZXZ7
  - UTY-XWZXZ8
  - UTY-XWZXZ9
  - UTY-XWZXZA

* For Touch Panel Controller:
  - Communication system 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.
PRODUCT LINEUP: OPTIONAL PARTS

SEPARATION TUBE etc.

**For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI**

- **Separation Tube**
  - UTP-SX236A / UTP-SX254A
  - For 3-phase Simultaneous Multi
  - UTP-SX272A
  - For Simultaneous Multi Twin / Triple / Double Twin
  - UTP-SX246A
  - For 8 Rooms Multi
  - UTP-PIX03A
  - For 6 Rooms Multi

- **Branch Box**
  - UTP-PIX02A
  - For 6 Rooms Multi

**For VRF**

- **EV Kit**
  - Model code: Q9: UTR-EV09XB
  - Model code: Q12: UTR-EV12XB

- **RB Unit**
  - Model name: UTR-RX01AH / UTR-RX01BH / UTR-RX01CH

**Specifications**

### Separation Tube

- **Model name**
  - UTP-AX054A
  - UTP-AX090A
  - UTP-AX180A
  - UTP-AX567A

- **Total cooling capacity of indoor unit (kW)**
  - 19.6 or less
  - 28.0 or less
  - 28.1 to 56.0
  - 56.1 or more

- **Model name**
  - UTP-BX090A
  - UTP-BX180A
  - UTP-BX567A

- **Model name**
  - UTP-J0906A
  - UTP-J1806A
  - UTP-J0908A
  - UTP-J1808A

- **Header**
  - Model code: 3-6 Branches
    - UTR-H0906L
    - UTR-H1806L
  - Model code: 3-8 Branches
    - UTR-H0908L
    - UTR-H1808L

- **Model name**
  - UTR-J0906B
  - UTR-J1806B
  - UTR-J0908B
  - UTR-J1808B

- **Outdoor Unit Branch**
  - Model code: UTR-CX567A (for V-II/V-III Tropical)
  - UTP-DX567A (for VR-II)

- **EV Kit**
  - Model code: Q9: UTR-EV09XB
  - Model code: Q12: UTR-EV12XB

- **RB Unit**
  - Model name: UTR-RX01AH
  - UTR-RX01BH
  - UTR-RX01CH

### Outdoor unit Branch kit

- Number of branch unit per bundle unit: 4

### EV Kit

- Model code: Q9: UTR-EV09XB
- Application model: ASHE004GTAH
- ASHE007GTAH
- ASHE009GTAH
- AGHE004GCAH
- AGHE007GCAH
- AGHE009GCAH
- ASHE12GACH
- ASHE14GACH
- AGHE012GCAH
- AGHE014GCAH

### RB Unit

- Model code: UTR-RX01AH
- Model code: UTR-RX01BH
- Model code: UTR-RX01CH
- Model code: UTR-RX01AH

- **Power supply**
  - 230 V / 50 Hz
  - 3-phase / 3-wire

- **Input power (W)**
  - 17
  - 24
  - 31
  - 96

- **Minimum number of connectable outdoor units (4)**
  - 1
  - 3
  - 8

- **Maximum number of connectable outdoor units (1)**
  - 3
  - 8
  - 8

- **Dimensions (H×W×D)**
  - 1,000×258×288

*In case of two RB units connected in series, maximum capacity of connectable outdoor units is up to 56.1 kW.