



**PRODUCT
CATALOGUE
2022**

FUJITSU GENERAL AIR CONDITIONING (UK) LIMITED

Control Systems & Optional Parts



Light Commercial & Commercial, Residential

CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
- C-006 Best Control Solution for Each Building Structure
- C-008 Comparison Table of Controllers
- C-058 Optional Parts Overview



A wide product lineup to meet a variety of needs

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



CONTROL SYSTEM



INDIVIDUAL CONTROL

- C-010 Wired Remote Controller (with touch panel)
- C-012 Wired Remote Controller Compact Wired Remote Controller
- C-013 Simple Remote Controller



INDIVIDUAL CONTROL

- C-014 Wired Remote Controller
- C-015 Wireless Remote Controller
- C-016 IR Receiver Unit



INDIVIDUAL CONTROL

- C-017 Wireless Remote Controller IR receiver unit for Duct and Cassette



WIRELESS LAN ADAPTERS

- C-018 WLAN Adapter Options
- C-019 WLAN Adapter
- C-021 Home Automation WLAN Adapter



CENTRALIZED CONTROL

- C-022 Central Remote Controller



CONVERTERS / ADAPTERS

- C-023 Network Converter for single split type



CENTRALISED CONTROL

- C-024 Central Remote Controller
- C-026 Touch Panel Controller
- C-030 System Controller **Software**
- System controller Lite **Software**



CONVERTERS / ADAPTERS

- C-034 Signal Amplifier



CONVERTERS / ADAPTERS

- C-034 External switch controller



BMS INTERFACES

- C-035 KNX® converter MODBUS® Converter
- C-036 KNX® Interface
- C-037 MODBUS® Interface BACnet® Gateway



BMS INTERFACES

- C-038 BACnet® Gateway **Software**
- C-039 BACnet® Gateway **Hardware** Home Automation LAN adapter
- C-040 BACnet® / MODBUS® Router
- C-041 BACnet® / MODBUS® Cloud Device
- C-042 MODBUS® Converter
- C-043 KNX® Converter Network Converter for LONWORKS™

OTHER CONTROLS

- C-045 Leak Detection
- C-046 PAC DX Kits
- C-048 VRF DX Kits

- C-050 Control System List

OPTIONAL PARTS



- C-060 Silver Ion Filter
- C-061 Auto Louver Grille Kit



- C-062 Pressure Sensor Kit

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- C-064 Optional Parts List
 - C-068 Function List
 - C-072 Separation Tube and other piping products



SPLIT



MULTI-SPLIT



VRF J Series



VRF V Series

Specifications subject to change without notice, images are for illustration purposes only

Control System Overview

for Split & Multi-Split

All indoor units* are equipped with a wireless or wired remote controller as standard. Additional options are available, such as individual remote controllers and central remote controllers. 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.

* Except for some products



Air Conditioning Individual control



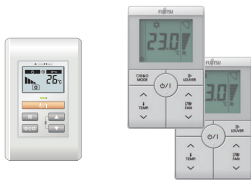
Wired remote controller

A built-in thermo sensor monitors and controls room temperature accurately.



Wireless remote controller

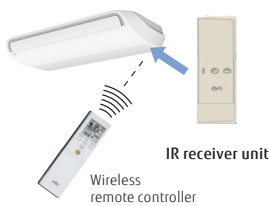
Simple and versatile operations with a choice of 4 different types of timers



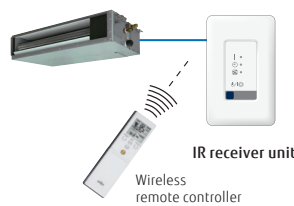
Simple remote controller

Compact remote controller with basic functionality

For Ceiling type



For Duct type



For Cassette type



IR receiver unit

This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.

Air Conditioning Centralized control



Central remote controller for 5-unit Multi-split type

Enables individual and central control.



Converters / Adapters

For external control via BMS / Home Automation Systems

MODBUS® converter
for indoor units
UTYVMSX



MODBUS® interface
for indoor units



KNX® converter
for indoor units
UTYVKSX



KNX® interface
for indoor units



WLAN adapter



Network converter

DC power supply type
UTYVTGX



AC power supply type
UTYVTGXV

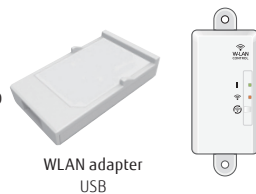


Online Control (Wireless Control via Smartphone / Tablet)

With the WLAN adapter and the FGLair app, you can control the heating and cooling of your home anytime, anywhere.

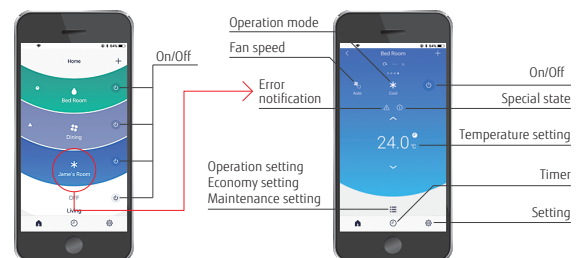
WLAN adapter

The dedicated WLAN adapter enables the air conditioner to be operated by smartphone or tablet computer from outside the home.



Simple, user-friendly interface design

The designed screen display makes it easier than ever to operate.



Control System Overview

for VRF

To meet the diverse needs of customers, we offer a variety of control options for our VRF systems, such as individual control, centralized control, and building management system (BMS) options.

Air Conditioning Individual control



Wired remote controller (with touch pane)
UTYRNRZY5



Compact wired remote controller
UTYRCRYZ1



Simple remote controller
UTYRSRY
UTYRHRV
Without operation mode



Wireless Remote Controller
UTYLNHY



For Duct type



For One-way flow cassette Series / duct type

IR receiver unit

UTBYWC for duct type
UTYTRHX for One-way flow cassette Series / duct type



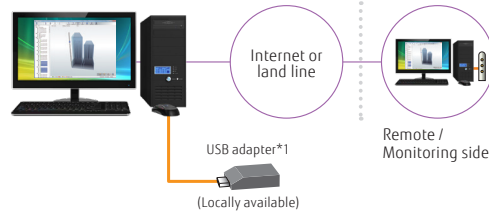
For Cassette type



for Circular flow cassette Series

UTYLRHYB1 for cassette type
UTYLBHDX for Circular flow cassette Series

Air Conditioning Centralized control



System controller Software
UTYAPGXZ1 / UTYALGXZ1 (Lite version)

Up to **1600**^{*2}
Indoor units

*1: Echelon® U10 USB Network Interface
*2: The Lite version controls up to 400 indoor units.



Touch panel controller
UTYDTGYZ1

Up to **400**
Indoor units



Central remote controller
UTYDCGYZ2

Up to **100**
Indoor units



Converters / Adapters

For external control via BMS / Home Automation Systems

BACnet® gateway
UTYABGXZ1 **Software**



UTYVVBGX **Hardware**



Network converter
(For LONWORKS™)
UTYVVLGX



MODBUS® converter
for Indoor units
UTYVMSX



for VRF
UTYVMGX



KNX® converter
for Indoor units
UTYVKXS



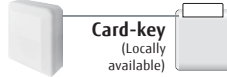
for VRF
UTYVKGX



WLAN adapter
UTYTFSXZ1



External switch controller
UTYTERX



DX Kits for connection to air handling units



BMS / BAS*3



BMS*3, Home automation system



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

Converters / Adapters for system expansion

Network converter
DC power supply type
UTYVTGX



Network converter
AC power supply type
UTYVTGXV



Signal amplifier
UTYVSGXZ1










Leak Detection Sensors and monitoring panels














Best control solution for each building structure

Fujitsu General provides the best control solutions suitable for various building structures.

SHOP

Type	Individual control				Integrating control (Interface)		
							
	Wired remote controller	Central remote controller	Touch panel controller	System controller	Network converter for LONWORKS™	MODBUS® Converter	KNX® converter
	UTYRNRZ5 UTYRVNYM UTYRCRYZ1	UTYDCGYZ2	UTYDTGYZ1	UTYAPGXZ1 UTYALGXZ1	UTYVVGX	UTYVMGX	UTYVKGX
Automatic control of air conditioning (Schedule timer, Weekly timer, etc.)	●	●	●	●			
Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc.		●	●	●	●	●	●
Group control		●	●	●			
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.				●			
Remote monitoring management		●	●	●			
Manage multiple sites		●	●	●			
Monitor energy consumption				●			
Control third-party products				●			
Integrate Fujitsu General air conditioning into BMS					●	●	●

HOTEL









Type	Individual control			Centralized control			Integrating control (Interface)				
											
	Wired remote controller	Simple remote controller	Wireless remote controller	Central remote controller	Touch panel controller	System controller	BACnet® gateway	Network converter for LONWORKS™	MODBUS® converter	KNX® converter	External switch controller
	UTYRNRZ5 UTYRCRYZ1	UTYRSRY UTYRHRV UTYRSNYM	UTYLNHY UTYLNTY	UTYDCGYZ2	UTYDTGYZ1	UTYAPGXZ1 UTYALGXZ1	UTYABGXZ1 UTYVBGX	UTYVVGX	UTYVMGX	UTYVKGX	UTYTERX
Local control for hotel guests	●	●	●								
Centralized air conditioning control for common areas				●	●	●	●	●	●	●	
Limited control for hotel guests				●	●	●	●	●	●	●	
Remote monitoring management				●	●	●					
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.						●	●				
Monitor energy consumption						●					
Control third-party products						●					
Integrate Fujitsu General air conditioning into BMS							●	●	●	●	
Interlock with window contact											●
Interlock with key card											●

OFFICE

Type	Individual control			Centralized control			Integrating control (Interface)				
	Wired remote controller	Simple remote controller	Wireless remote controller	Central remote controller	Touch panel controller	System controller	BACnet® gateway	Network converter for LONWORKS™	MODBUS® converter	KNX® converter	External switch controller
	UTYRNRVZ5 UTYRCRYZ1	UTYRSRY UTYRHRY UTYRSNYM	UTYLNHY UTYLNTY	UTYDCGVZ2	UTYDTGYZ1	UTYAPGXZ1 UTYALGXZ1	UTYABGXZ1 UTYVBGX	UTYVLGX	UTYVMGX	UTYVKGX	UTYTERX
Local control for office staff	●	●	●	●							
Automatic control of air conditioning (Schedule timer, Weekly timer, etc.)	●		●	●	●	●	●				
Centralized air conditioning control for management				●	●	●	●	●	●	●	
Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc.				●	●	●	●	●	●	●	
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.						●	●				
Remote monitoring management				●	●	●					
Electricity charge apportionment					●	●	●				
Monitor energy consumption						●					
Control third-party products						●					
Integrate Fujitsu General air conditioning into BMS							●	●	●	●	
Interlock with door contact											●
Interlock with Human sensor for meeting room				●							●

Comparison table of controllers

Item					
	Wired remote controller (with touch panel)	Wired remote controller	Compact wired remote controller	Simple remote controller	Simple Remote Controller
Model name	UTYRNRZ5	UTYRVNYM	UTYRCRYZ1	UTYRSNYM	UTYRSRY
Maximum number of controllable remote controller groups	1	1	1	1	1
Maximum number of controllable indoor unit	16	16	1	16	16
Maximum number of controllable group	—	—	—	—	—
Air conditioning control functions	ON / OFF	●	●	●	●
	Operation mode setting	●	●	●	●
	Fan speed control	●	●	●	●
	Room temperature setting	●	●	●	●
	Setting temperature range limitation	●	●	—	—
	Test operation	●	●	●	●
	Vertical louver setting	●	●	●	—
	Horizontal louver setting	●	●	●	—
	Individual louver control	●	—	●	—
	Group setting	—	—	—	—
	Remote controller prohibition	—	—	—	—
	Anti-freeze setting	●	—	●	—
	Set temperature auto return	●	●	—	—
	Economy mode setting	●	●	●	—
Human sensor control	●	—	—	—	
Displayed items	Error	●	●	●	●
	Defrosting	●	●	●	●
	Current time	●	●	—	—
	Day of week	●	●	—	—
	Remote controller prohibition	●	●	●	●
	Address display	●	●	●	●
	Room temperature	●	●	●	—
	Multiple language support	●	●	—	—
	Setting for daylight saving time	●	●	—	—
	Name registration	●	—	—	—
	Backlighting	●	●	●	●
	2D floor layout / 3D building display	—	—	—	—
	Refrigerant leak detector	—	—	—	—
	Timer	Schedule timer	Period	Week	Week
ON / OFF, Temp, Mode, Times per day			8	8	—
ON / OFF timer		●	●	● (OFF only)	—
Sleep timer		—	—	—	—
Program timer		—	—	—	—
Auto-off timer		●	●	—	—
Day off		●	●	—	—
Minimum unit of timer setting (minutes)	10 • 30	30	—	—	
Control	Remote monitoring management system	—	—	—	—
	Electricity charge apportionment	—	—	—	—
	Error history	●	●	—	—
	Emergency stop	—	—	—	—
	Remote monitoring management	—	—	—	—
	Energy-saving management	—	—	—	—
	E-mail notification in case of failure	—	—	—	—
	Key lock	● Child lock	● Child lock	—	—
	Low noise mode	—	—	—	—
	Multi System Control	●	—	—	—

								
	Simple remote controller*1	Wireless remote controller	Wireless remote controller	Central remote controller (for 8-unit multi-split type)	Central remote controller	Touch panel controller	System controller Lite Software	System controller Software
	UTYRHR1	UTYLNHY	UTYLNTY	UTYDMMYM	UTYDCGY2	UTYDTGYZ1	UTYALGXZ1	UTYAPGXZ1
	1	1	1	1	100	400	400	1600
	16	16	16	8	100	400	400	1600
	-	-	-	-	50	400	400	1600
	●	●	●	●	●	●	●	●
	-	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●
	●	-	-	-	●	●	●	●
	●	●	●	-	-	●	-	-
	●	●	●	-	●	●	●	●
	-	●	-	-	●	●	●	●
	-	-	-	-	●*3	●	-	-
	-	-	-	-	●	●	●	●
	-	-	-	●	●	●	●	●
	-	-	-	-	●	●	●	●
	-	-	-	-	-	●	-	-
	-	●	●	●	●	●	●	●
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	●	-	-	●	●	●	●	●
	●	-	-	-	●	●	●	●
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	●	-	-	●	●	●	●	●
	●	-	-	-	-	●	●	●
	●	-	-	-	●*4	●*4	●*4	●*4
	-	-	-	●	●	●	●	●
	-	-	-	●	●	●	●	●
	-	-	-	-	●	●	●	●
	●	-	-	●	●	●	-	-
	-	-	-	-	-	-	-	●
	-	-	-	-	●	●	●	●
	-	-	-	Week	Week	Year	Year	Year
	-	-	-	4	20	20	144	144
	-	●	●	-	-	-	-	-
	-	●	●	-	-	-	-	-
	-	●	●	-	-	-	-	-
	-	-	-	-	●	●	-	-
	-	-	-	●	●	●	●	●
	-	5	5	5	10	10	10	10
	-	-	-	-	●	●	●	●
	-	-	-	-	-	○	○	●
	-	-	-	-	●	●	●	●
	-	-	-	-	●*2	●*2	-	-
	-	-	-	-	●	●	○	●
	-	-	-	-	-	-	○	○
	-	-	-	-	●	●	●	●
	-	-	-	●	●	●	●	●
	-	-	-	Child lock	●	●	●	●
	-	-	-	●	-	●	●	●
	-	-	-	-	-	-	-	-

*1 "Operation mode" setting not available. *2 Available only for external input control.
 *3 Equipped only with individual air volume batch reset. *4 Available only when using Wired remote controller.
 ●: Supported ○: Optional function - : Unsupported

Wired Remote Controller (with touch panel)

UTYRNRYZ5 - Please refer to page C-050 for splits and C-052 for VRF compatibility



NEW



Easy operation due to large high-resolution STN-LCD touch panel screen

- Touch screen LCD
- Built-in daily / weekly timer (ON / OFF, temperature, modes)
- Backlit screen for easy operation in the dark.
- Room temperature display
- Controls up to 16 indoor units
- Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish
- nonpolar 2-core type

Up to **16** indoor units

Up to **1** group

High performance and compact size

A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.



Accurate control for comfort

A thermo sensor built into the remote controller monitors room temperature accurately.



Room temperature display
Room temperature sensor

Energy saving controls

Custom Auto

- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models

Auto-off timer

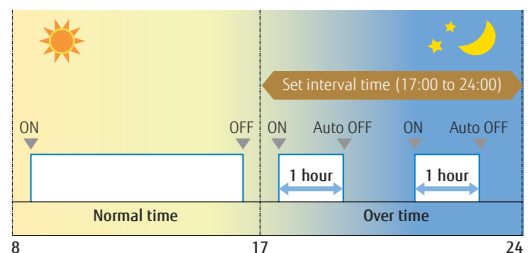
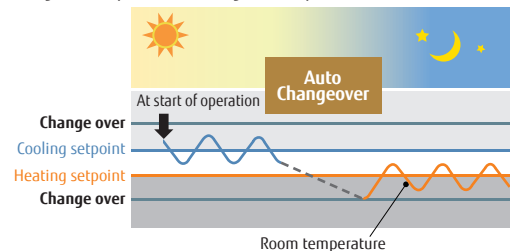
- While the Auto-timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
- A desired time frame can be specified for the Auto-off timer.
- The off-time can be set from 30 to 240 minutes.

2-setting weekly timer

Set temperature auto return

Setting temperature range limitation

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



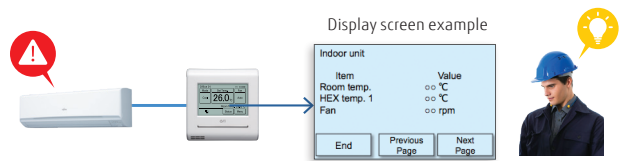
e.g.) Between 17:00 and 24:00 (over time hours), when the 1 hour set off time has elapsed, the system will automatically turn off the indoor unit as it

Features: Wired Remote Controller (Touch Panel)

NEW Refrigerant cycle monitor (Option)

Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

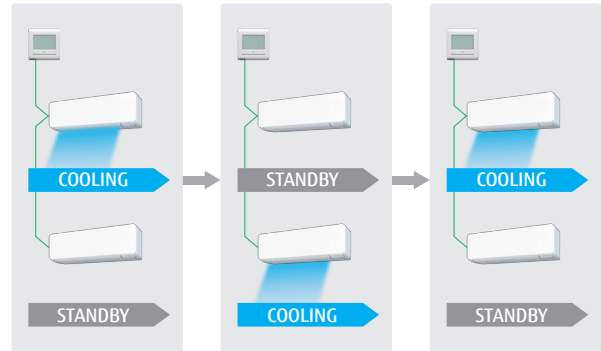
* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



NEW Multi System Control*1

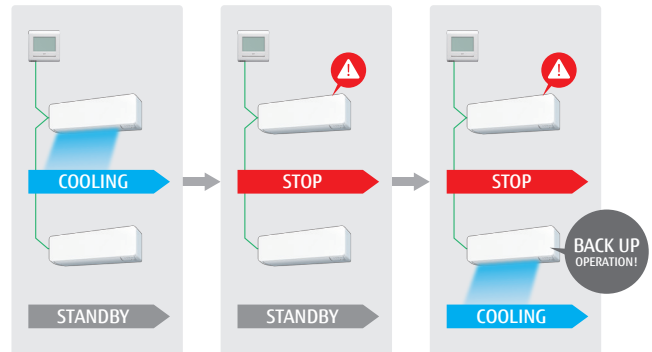
1) Lead Lag Operation

Standby Indoor Unit can be selected in lead lag operation. By this, the Indoor units will last longer than operating by nonstop.



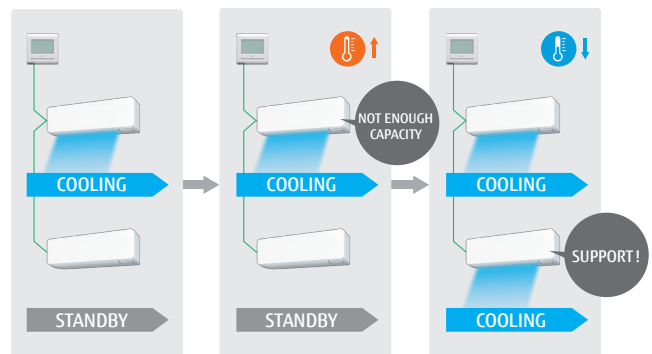
2) Back up operation

In case of unexpected Indoor unit error, other Indoor units will start providing back up operation.



3) Lag Operation

In case of unexpected room temperature rise, other Indoor Units will start providing lag operation.



*1: "Lead Lag Setting" is an easy-to-use function for room temperature control when using multiple indoor units, while reducing the burden placed on each indoor unit. If you wish to make use of this function, ensure you use indoor units equipped with a "Special Cooling" function. For Split products with "Special Cooling" function, refer to S-054 to S-057. If you use indoor units that do not have a "Special Cooling" function, under certain conditions, there is a chance that "Backup operation" may not operate correctly, and the "Lead Lag Setting" function will not give the expected results. Additionally, for rooms that require strict conditions, such as server rooms, please consider other appropriate measures. Please note that we will not provide compensation for any damages suffered to your appliances or data as a result of using this function. For more details, please confirm with your nearest retail store.

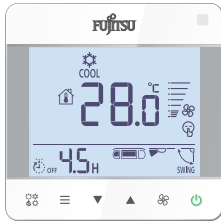
Specifications

Model name	UTYRNRYS
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Compact Wired Remote Controller

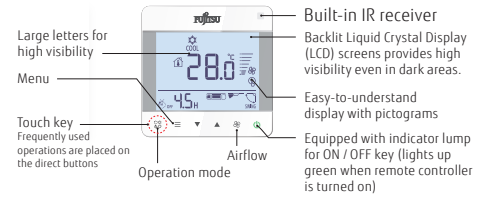
UTYRCRYZ1 - Please refer to page C-050 for splits and C-052 for VRF compatibility



- Simple design that matches stylish interiors
- The body of the controller, which is easy to install, is designed to conform to the European standard junction box.
- Can be operated both by wireless and wired remote controller.
- nonpolar 2-core type

Large screen and simple display

- Large screen but compact size
- Large, easy-to-read letters are used.
- The controls are simple and easy to understand.

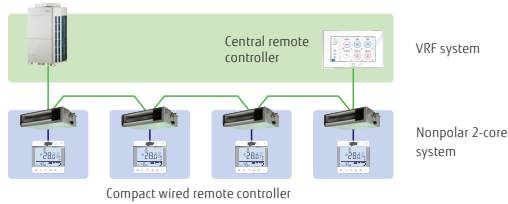


Up to
1 indoor unit

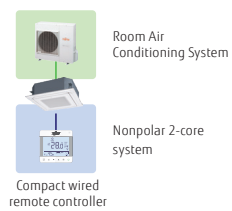
Up to
1 group

System overview

VRF connection



RAC connection



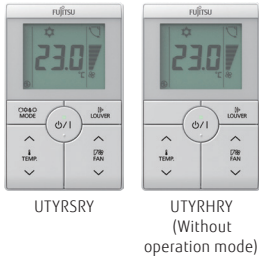
Specifications

Model name	UTYRLRY	UTYRCRYZ1
Power source	12 V DC	12 V DC
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

12 V DC supplied by an indoor unit

Simple Remote Controller

UTYRSRY / UTYRHRY (without operation mode) - Please refer to page C-050 for splits and C-052 for VRF compatibility



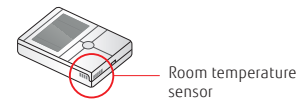
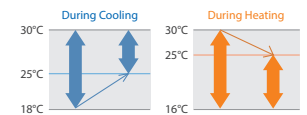
Compact remote controller with basic functionality

- 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.
- Simple design that matches stylish interiors
- Large LCD screen and easy-to-use control buttons
- Backlight: White backlight makes it easy to operate in the dark.
- nonpolar 2-core type

Up to
16 indoor units
Up to
1 group

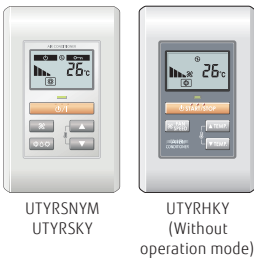
Supports a variety of applications

- **Vertical louver control:** Adjusts the vertical airflow direction of a duct-type indoor unit with an auto louver or a cassette type installed in a hotel room or a conference room.
- **Setting temperature range limitation:** Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.
- **Built-in room temperature sensor:** Monitors and controls room temperature accuracy.



Simple Remote Controller

UTYRSNYM, UTYRSKY / UTYRHKY (without operation mode) - Please refer to page C-050 for splits and C-052 for VRF compatibility



Compact remote controller with basic functionality

- 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.
- Backlit screen for easy operation in the dark.
- polar 3-core type

Up to
16 indoor units
Up to
1 group

Easy-to-use operation

- Enables basic control of an indoor unit, such as ON / OFF, fan speed, operation mode select, and room temperature setting.
- A large ON / OFF button is located in the middle for quick access.
- Works with other individual control units.
- When something goes wrong, an error indicator will appear, and diagnostics can be performed with the remote controller.

Specifications

Model name	UTYRSRY	UTYRHRY	UTYRSNYM, UTYRSKY	UTYRHKY
Power source	12 V DC	12 V DC	12 V DC	12 V DC
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

12 V DC supplied by an indoor unit

Specifications subject to change without notice, images are for illustration purposes only

Wired Remote Controller

UTYRVNYM - Please refer to page C-050 for splits compmatibility

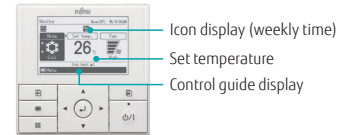


Hi-grade individual control with a wide range of functions.

- 3.7-inch backlit LCD screen.
- Supports energy-saving functions with simple operation.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish

Visually intuitive operation

- Each function is displayed as an icon.
- Main functions are indicated by large icons: "Mode," "Set Temp," and "Fan"
- Easy operation with control guide display
- Simple operation with easy 4Way navigation pad



Up to 16 indoor units

Up to 1 group

High performance and compact size

- A single remote controller controls each connected indoor unit and provides a variety of energy-saving options.



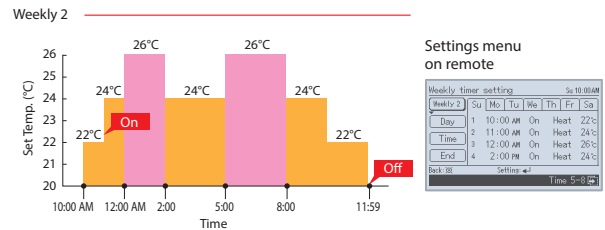
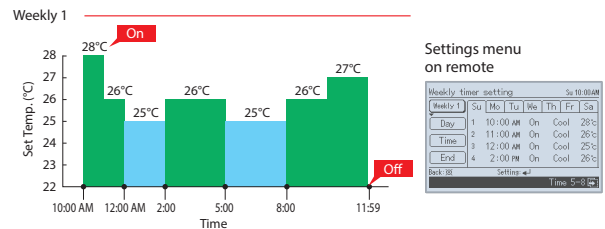
Energy-saving controls

Weekly Timer

- ON / OFF, mode and temperature can be set up to 8 times a day.
- 2 setting patterns are available (e.g., for Summer / Winter).

Auto-off timer

- Set temperature auto return
- Setting temperature range limitation



Specifications

Model name	UTYRVNYM
Power source	12 V DC
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

12 V DC supplied by an indoor unit

Wireless Remote Controller

UTYLNTY - Please refer to page C-050 for splits compatibility



Up to
16 indoor units

Up to
1 group

Up to
4 different daily timers

Simple and versatile operations with a choice of 4 different types of timers

- Controls up to 16 indoor units.

Built-in timer

4 timer programs: ON / OFF / Program / Sleep

Program timer: Sets ON / OFF time once for every 24 hours.

Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy installation and operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.

Wide and precise transmitting range

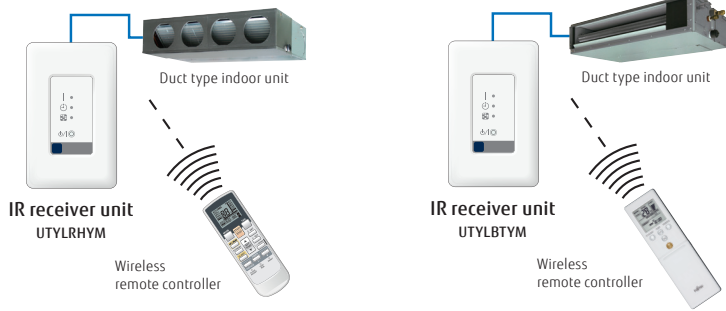
Specifications

Model name	UTYRNNYM	UTYLNTY
Power source	12 V DC	1.5 V (R03 / LR03 / AAA)
Dimensions (H × W × D) (mm)	120 × 120 × 18	205 × 61 × 17
Weight (g)	160	125

12 V DC supplied by an indoor unit

IR Receiver Unit for duct type

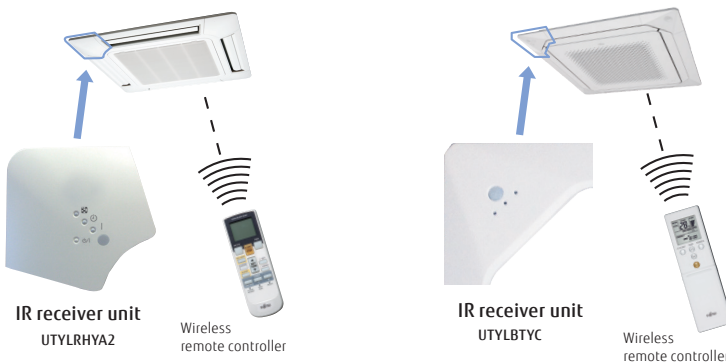
UTYLRHYM, UTYLBTYM - Please refer to page C-050 for splits comppatibility



The wireless remote controller controls duct type indoor units.

IR Receiver Unit for Cassette

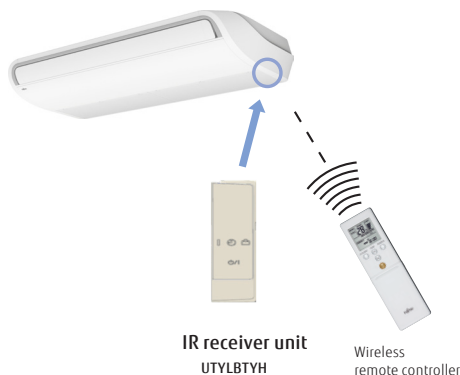
UTYLRHYA2, UTYLBTYC - Please refer to page C-050 for splits comppatibility



Cassette type indoor unit can be controlled with a Wireless remote controller.

IR Receiver Unit for ceiling type

UTYLBTYH - Please refer to page C-050 for splits comppatibility



The wireless remote controller controls ceiling type indoor units.

Specifications

< Wireless Remote Controller >

Model name	UTYLRHYM	UTYLBTYM	UTYLRHYA2	UTYLBTYC	UTYLBTYH
Battery	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)
Dimensions (H × W × D) (mm)	170 × 56 × 19	205 × 61 × 17	170 × 56 × 19	205 × 61 × 17	205 × 61 × 17
Weight (g)	85	125	85	125	125

< IR Receiver Unit>

Battery	DC5V	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 30	-*	-*	-*
Weight (g)	150	150	140	140	100

DC 5 V is supplied the indoor unit.

*It will replace the parts of the indoor unit to be connected.

Wireless Remote Controller

UTYLNHY - Please refer to page C-052 for VRF compatibility



Up to
16 indoor units

Up to
1 group

Up to
4 different daily timers

Simple and versatile operations with a choice of 4 different types of timers

- Controls up to 16 indoor units.

Built-in timer

4 timer programs: ON / OFF / Program / Sleep

Program timer: Sets ON / OFF time once for every 24 hours.

Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

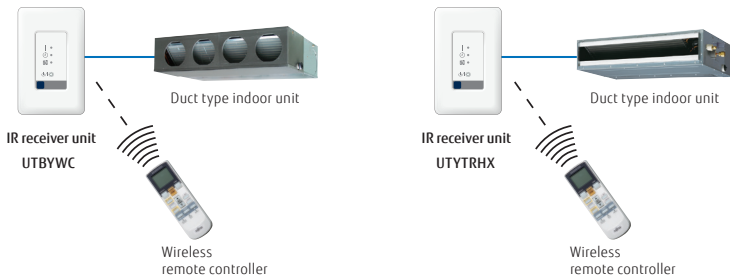
Easy installation and operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.

Wide and precise transmitting range

IR Receiver Unit for duct type

UTBYWC, UTYTRHX - Please refer to page C-052 for VRF compatibility



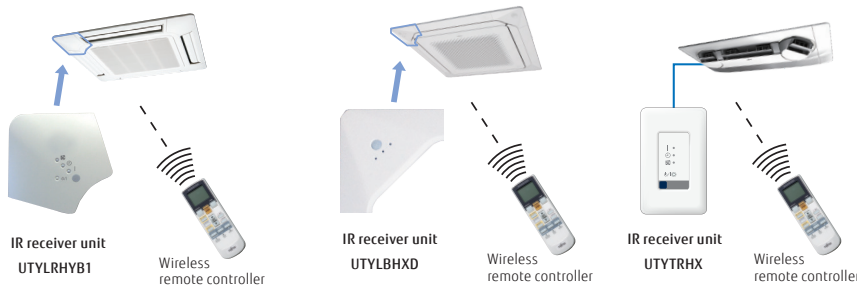
The wireless remote controller controls duct type* indoor units.

*Large airflow duct types do not work with this IR receiver unit.

*A separate wireless remote control (model: UY-LNHY) is required.

IR Receiver Unit for Cassette

UTYLRHYB1, UTYLBHXD, UTYTRHX - Please refer to page C-052 for VRF compatibility



Cassette type indoor unit can be controlled with a Wireless remote controller.

*A separate wireless remote control (model: UY-LNHY) is required.

Specifications

< Wireless Remote Controller >

Model name	UTYLNHY	UTBYWC	UTYLRHYB1	UTYLBHXD	UTYTRHX
Battery	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)	1.5 V (R03 / LR03 / AAA)
Dimensions (H × W × D) (mm)	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19
Weight (g)	85	85	85	85	85

< IR Receiver Unit >

Battery	-	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	-	145 × 90 × 30	-*	-*	145 × 90 × 30
Weight (g)	-	150	140	140	150

DC 5 V is supplied the indoor unit.

*It will replace the parts of the indoor unit to be connected.

WLAN Adapter Options



FGLair

- ON / OFF
- 24 Devices
- Operation mode
- Fan speed
- Louver position
- Set temperature control
- Weekly timer
- Minimum heat
- (10l heat)
- Error display
- Email notification
- Single IU Control
- No Alexa, Google enabled control

Intesis

- ON/OFF
- 50 Devices (can increase)
- Operation mode
- Set temperature control
- Ambient temperature
- Fan speed
- Louver position
- Email and Push notifications
- Weekly Timer and Scenes
- Alexa, Google, IFTTT enabled
- Error display and Descriptions
- Operating Hours
- Group Control (3-Wire WRC)

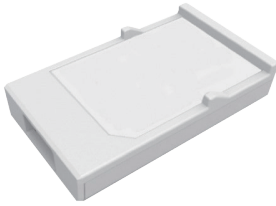
Intesis Pro (subscription)

- Maintenance and Filter cleaning
- Schedule calendar
- Multi-Site
- Multi-User
- Temperature limitation



WLAN Adapter

UTYTFNXZ1 / UTYTFSXZ1, UTYTFSXF2 - Please refer to page C-052 for splits and C-056 for VRF compatibility

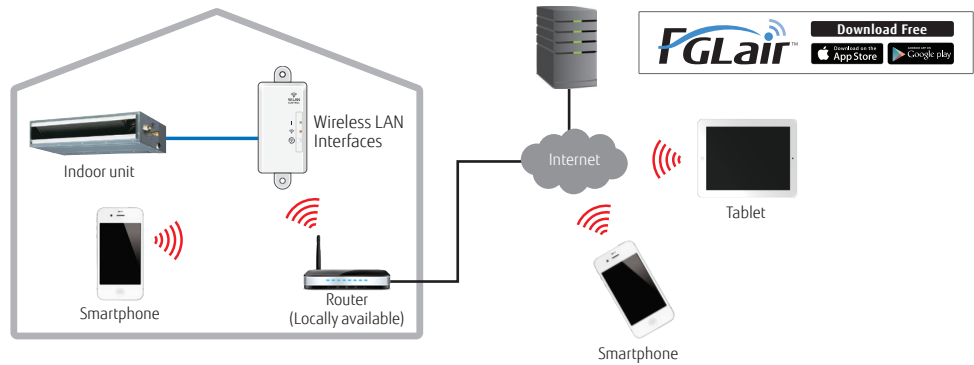


USB type for single-split models
UTYTFSXF2



UTYTFNXZ1
(3Wire RClone type)
UTYTFSXZ1
(CN connector type)

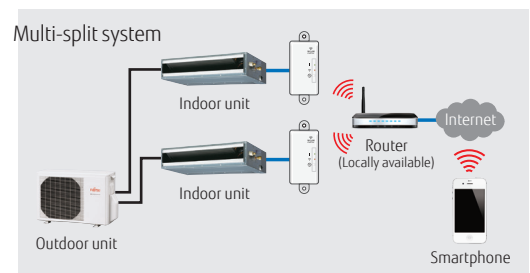
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required
- Can be used for a single indoor unit and multi-split indoor units.



Up to
1 indoor unit

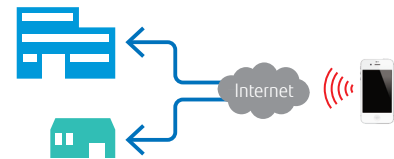
Basic control

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



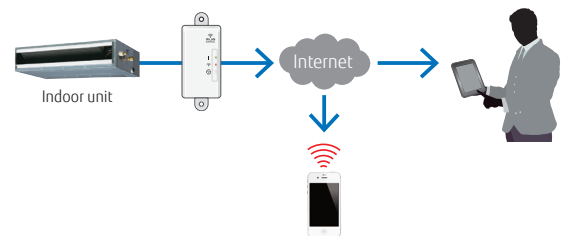
Multiple air conditioning management

- Manage multiple air conditioning systems in different locations.



Error alert and e-mail notice

- E-mail notification alerts
- Air conditioning malfunction alert
- Enables quick service response when errors occur.



WLAN adapter (USB type) UTYTFSXF2

A compact USB type is available. No need for specialized installation. Easily installed on the indoor unit.



Specifications

Model name	UTYTFNXZ1(3Wire RClone type)	UTYTFSXZ1(CN connector type)	UTYTFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	30

WLAN Adapter

FGRCWIF1Z2 / FGIRWIF1Z1 / FGACWIF1Z1 - Please refer to page C-052 for splits and C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



FGRCWIF1Z2
(3Wire RLine type)



FGACWIF1Z1
(CN connector type)



FGIRWIF1Z1
(IR type)

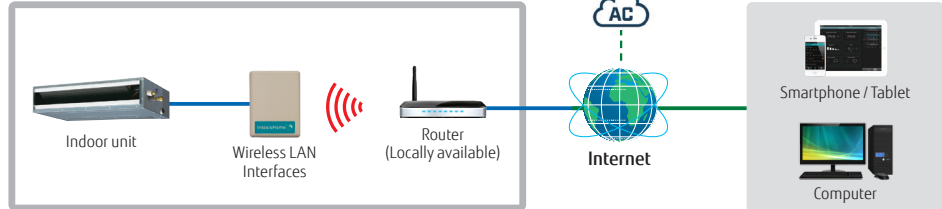
Up to
1 indoor unit

AC Cloud Control

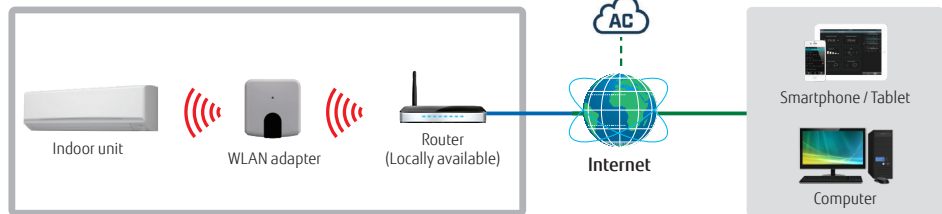
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

Installation example

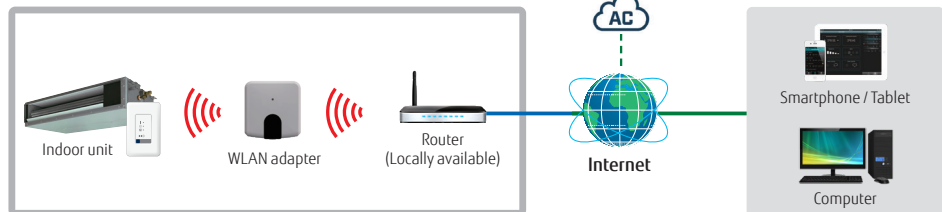
[3Wire RLine type / CN connector type]



[IR type] Connection to wall-mounted type



[IR type] Connects to the product with the optional receiver kit



*IR receiver required.

Basic control

- Turning air conditioner on and off
- Mode select (Heat, Cool, Dry, Auto, Fan)
- Louver position (airflow direction setting)
- Fan speed control
- Room temperature display
- Setting temperature
- Multiple language support
- One single scene is created.

Advanced control (optional functions)

- Climate Based operation modes (ECO, Comfort, and Powerful) (to be available in the future)
- Schedule functions (ON / OFF, modes, set temperature, fan speed, louver position)
- Setting temperature range limitation
- Multiple Scenes and Calendars are created.
- Smart Speaker compatibility
- Advanced internet service connections

Notification and operation history

- E-mail notification alerts
- Air conditioning malfunction alert
- Connectivity monitoring and alert
- Operation history (to be available in the future)

Specifications

Model name	FGRCWIF1Z2 (3Wire RLine type)	FGACWIF1Z1 (CN connector type)	FGIRWIF1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	108 × 70 × 28	81 × 78 × 28	127 × 50 × 17
Weight (g)	80	76	80

Home Automation WLAN Adapter

FGRCWMP1Z1 / FGIRWMP1Z1 / FGACWMP1Z1 - Please refer to page C-052 for splits and C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways

Intesis
BY HMS NETWORKS



FGRCWMP1Z1
(3Wire RCLine type)

AC Cloud Control

- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

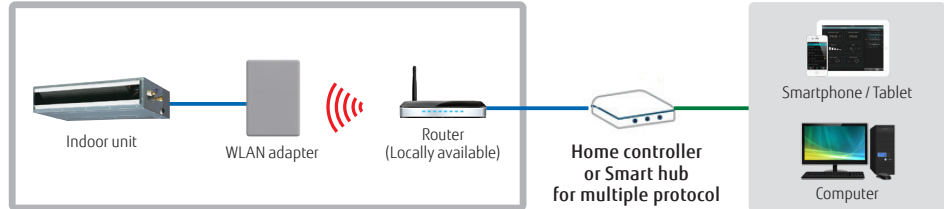
Intesis
BY HMS NETWORKS



FGACWMP1Z1
(CN connector type)

Installation example

[3Wire RCLine type / CN connector type]

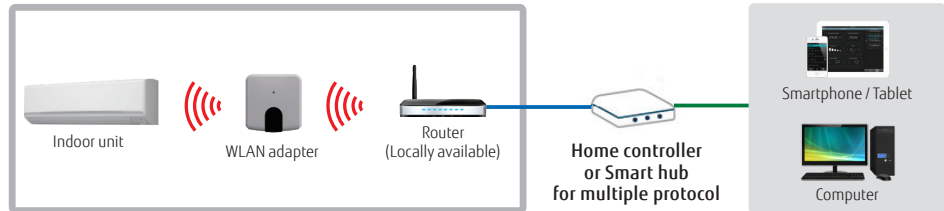


Intesis
BY HMS NETWORKS

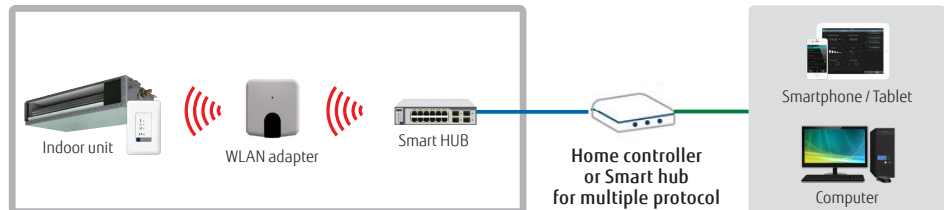


FGIRWMP1Z1
(IR type)

[IR type] Connection to wall-mounted type



[IR type] Connection to a product other than wall-mounted type



*IR receiver required.

Up to
1 indoor unit

Specifications

Model name	FGRCWMP1Z1 (3Wire RCLine type)	FGACWMP1Z1 (CN connector type)	FGIRWMP1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	70 × 100 × 28	127 × 50 × 17	81 × 78 × 28
Weight (g)	98	80	76

Specifications subject to change without notice, images are for illustration purposes only

Central Remote Controller

UTYDMMY1 - Please refer to page C-050 for splits compatibility



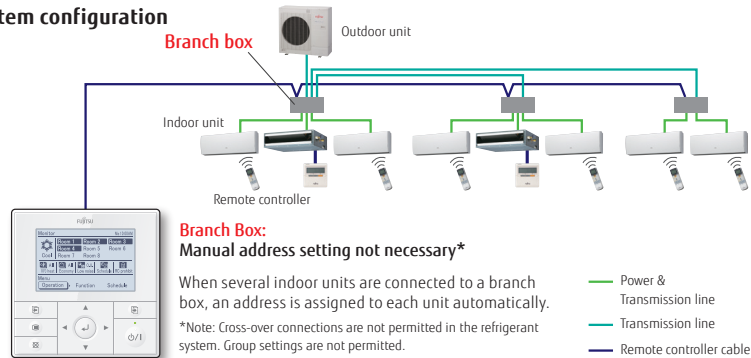
Up to 1 multi-split system

Up to 5 indoor units

For 5-unit multi-split type

- Batched control of up to 8 indoor units For all indoor units connected to the remote controllers, the Central remote controller sets room temperature, airflow volume, and remote controller prohibition from other remote controllers at once.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish.
- Large backlit LED screen
- Large, easy-to-see operation panel

Example of system configuration



Central remote controller

Weekly timer

Up to 4 ON / OFF settings can be programmed per day. Two weekly patterns can be set, one for the cooling season and the other for the heating season.

Low noise operation

You can choose from 4 low noise levels depending on the installation environment. ON / OFF timing of low noise mode can be set with the timer.

10 °C heat operation

When you leave the house, the air conditioner runs a minimum heating operation to maintain the room temperature at 10°C.

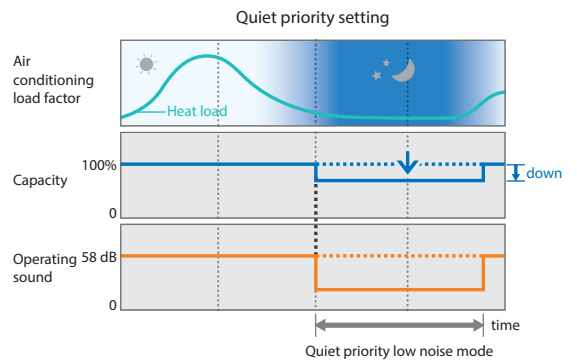
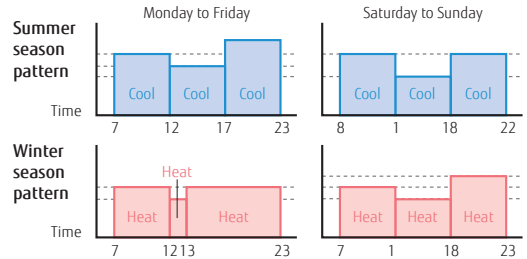
*Consult your dealer for conditions of use.

Economy operation

When you select energy-saving economy mode, the temperature setting for the indoor unit increases (during cooling operation) or decreases (during heating operation) by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibiting local control, including settings such as child lock

The Central Remote Controller is equipped with a lock function to prevent unauthorized operation from the remote controllers of the indoor unit in each room. The central remote controller is equipped with a child lock to prevent children from accidentally turning the air conditioner on or off or changing its settings.



Specifications

Model name	UTYDMMY1
Power source	12 V DC
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

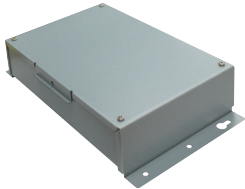
12 V DC supplied by an indoor unit

Network Converter for single-split type

UTYVTGX / UTYVTGXV - Please refer to page C-052 for splits compatibility



UTYVTGX
DC power supply type

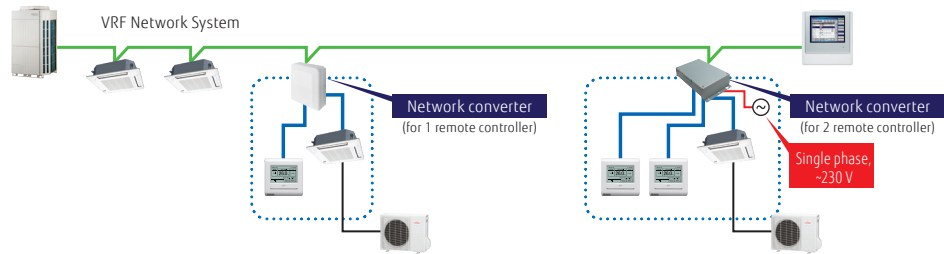


UTYVTGXV
AC power supply type

- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation example

- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50 / 60 Hz) is required for the 2-remote-controllers type.

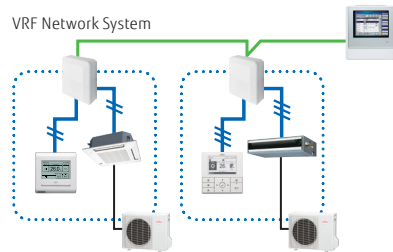


Up to
16
single indoor units

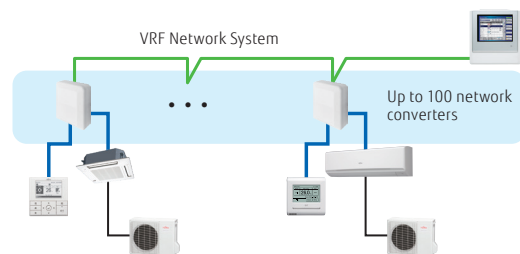
Up to
1 group

Up to
100
Network Converters

- Both nonpolar 2-core and polar 3-core type Wired remote controllers can be connected.



- Central control can be provided for single-split systems. (Up to 100 network converters can be connected in a VRF network system)



Specifications

Model name	UTYVTGX		UTYVTGXV
Power supply	polar 3-core 12 V DC	nonpolar 2-core DC 12 V	Single phase ~220 to 240 V 50 / 60 Hz
Input power (W)	Max. 1.2 W		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Central Remote Controller

UTYDCGYZ2 - Please refer to page C-054 for VRF compatibility



NEW



For tenants in small to midsize commercial premises

- Individual control and monitoring of up to 100 indoor units
- 7.0inch TFT color screen
- Visually intuitive operation
- Room temperature display by indoor unit sensor & remote controller sensor
- 50 Remote Controller Groups Display & remote controller group rename
- Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish

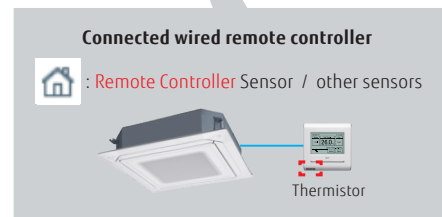
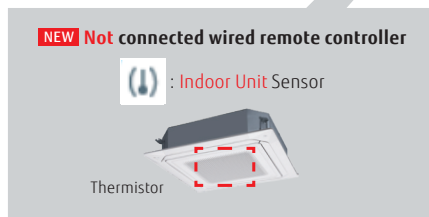
Up to **100** indoor units

Up to **50** groups

Easy Operation

Air conditioning management by detecting room temperatures of each room

The room temperature detected with indoor unit sensor or remote controller sensor can be displayed. New model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.



*Room temperature is displayed only when indoor unit operates.

NEW 50 Remote Controller Groups Display

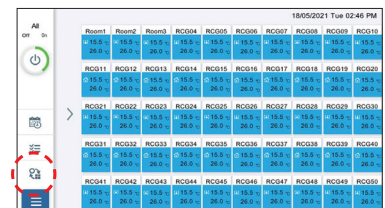
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor
by each Groups

50 Remote Controller Groups Display

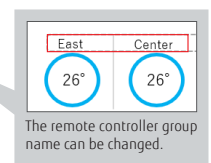


Manage & Monitor
by 50 Remote Controller Groups



NEW Remote Controller Groups Rename

The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.

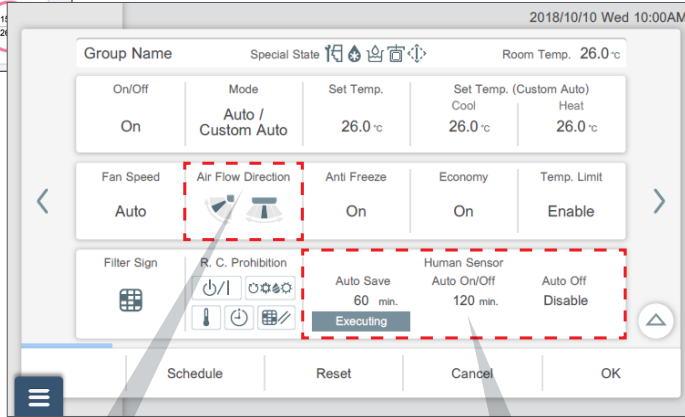


Features: Central Remote Controller

- Easy intuitive operation from the touch panel display.
- All functions can be accessed through the monitoring screen showing a pop-up window for detailed operation.



Monitoring screen



Individual setting

NEW Added individual wind direction control

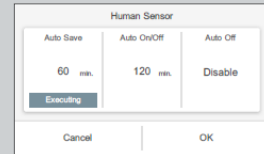
Individual wind direction has been added.
Circular Flow cassette / 3D Flow cassette



Circular flow cassette

NEW Human Sensor Compatible

Human sensor setting
 • Auto save
 • Auto on / off
 • Auto off detection time
 • Enable and disable



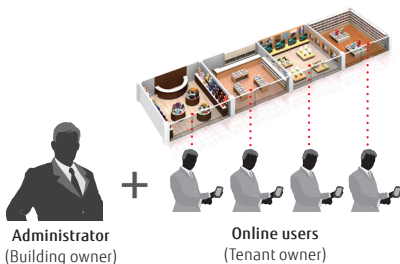
Remote Management

Remote monitoring / Remote operation

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

When the central remote controller manages the indoor units of some tenants, air conditioning of each tenants can be managed separately online.

NEW Increased the Number of Accounts



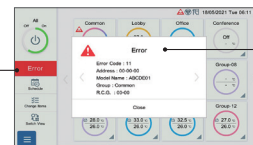
Maximum **30** accounts

Trouble support function

Display error details

Display descriptive explanation when an error occurs

All indoor unit groups display



Display error details

- Indoor unit error
- Outdoor unit error
- Central remote controller error

Sensor value monitoring function

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

Notify room temperature by email*

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

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

Specifications

Model name	UTYDCGYZ2
Power Supply	100-240 V 50 / 60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800

Specifications subject to change without notice, images are for illustration purposes only

Touch Panel Controller

UTYDTGYZ1 - Please refer to page C-054 for VRF compatibility



- Large 7.5-inch TFT color LCD screen
- Touch screen operation
- Stylish design to fit nicely in any room environment
- Controls up to 400 indoor units.
- Icon or list view can be selected in monitoring mode.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.
- Mounted with LAN adapter for remote control & operation, external input / output with emergency stop and batch ON / OFF

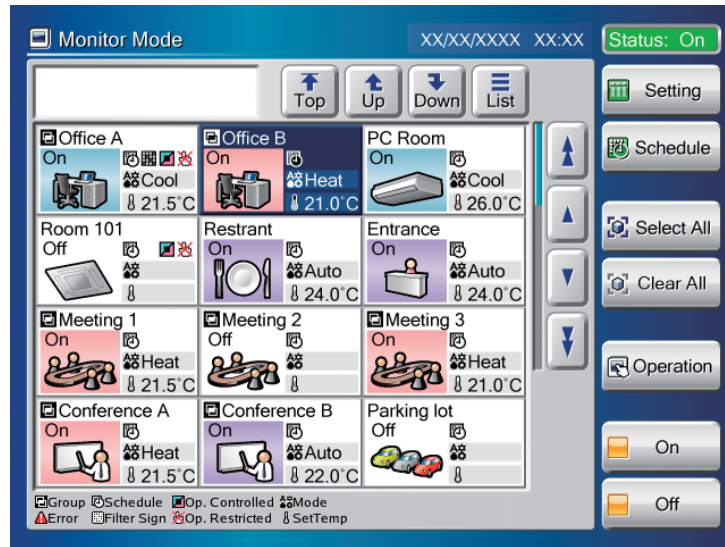
Up to **400** indoor units

Up to **100** outdoor units

Up to **400** groups

Easy operation

- Wide range of simple-to-understand icons
- Operate by pressing the icons on the screen with your finger or a stylus.
- The color on the back identifies the current control operation; blue is for monitoring and green is for operational control.



Easy maintenance

- The flat touch panel can be easily cleaned.
- Touch panel controller with non-glare coating to prevent finger marks
- Front cover for easy removal.

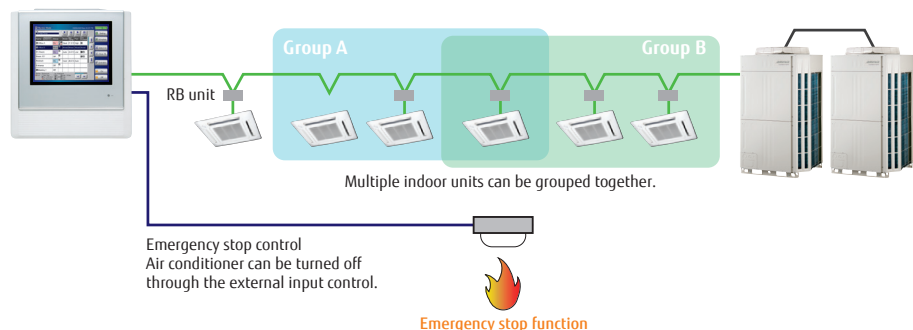


Easy installation

- The touch panel controller can be mounted on a wall.
- Flat back surface enables easy installation anywhere on a wall.
- No additional parts or components required for installation



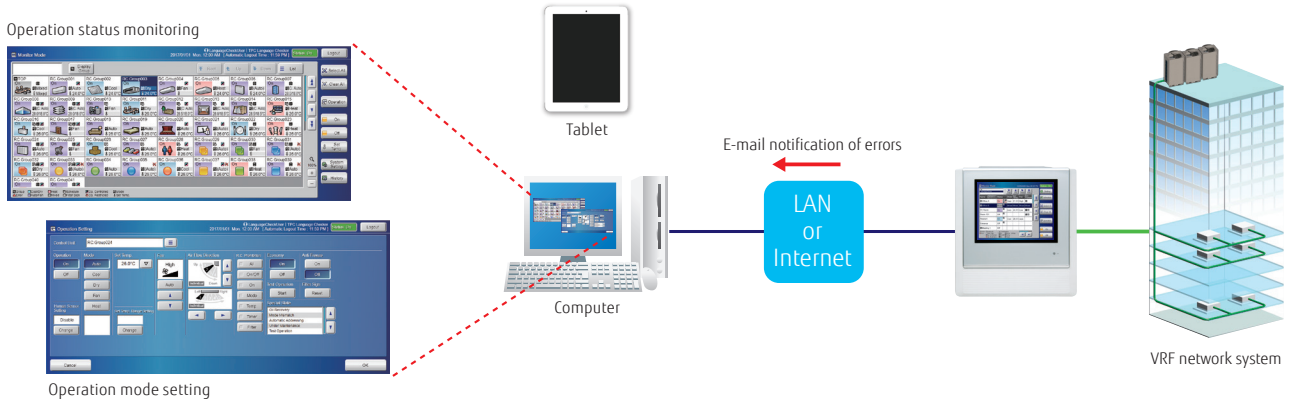
Controls up to 400 indoor units.



Features:

Control & monitoring

- Control and monitor Fujitsu General air conditioners via LAN or internet.
- Users and tenants can manage their assigned equipment from anywhere by computer or tablet.
- When something goes wrong, an error notice is sent by e-mail for prompt troubleshooting.



Smartphone

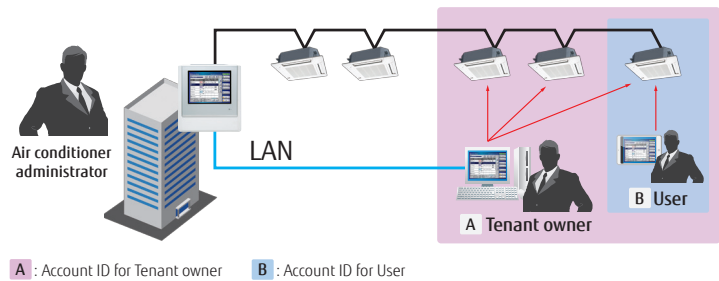
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

Tablet

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

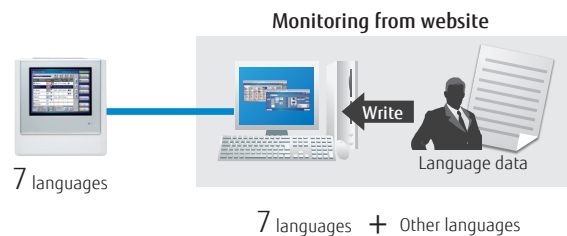
Flexible access permissions can be granted to users at each point level.

The administrator can register multiple users and permit them to access any indoor unit and any functions.



Additional languages

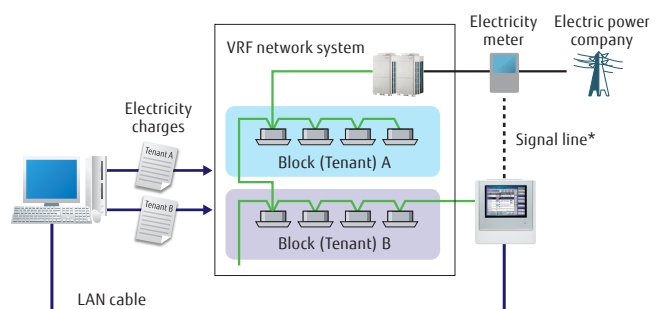
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



Electricity charge apportionment (Option: UTYPTGXA)

- Energy cost can be calculated and allocated to each billing user in proportion to the amount of energy used for air conditioning.

- Apportionment charge / bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculations for cooling and heating
- Electricity meter supported



* An electricity usage meter can be connected to an external input connector of the Touch panel controller. In that case, the meter cannot be connected to an outdoor unit at the same time.

Features:

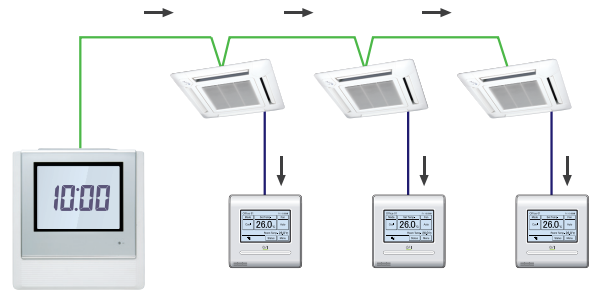
Automatic setting for daylight saving time

Functions provided

- 1) Schedule setting for daylight saving time
 - It prevents the user from forgetting to set daylight saving time. In addition, it saves time and effort for the user.

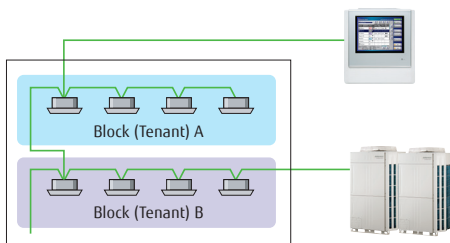
Automatic clock adjustment

- 2) Time can be set for all controllers in a batch automatically.

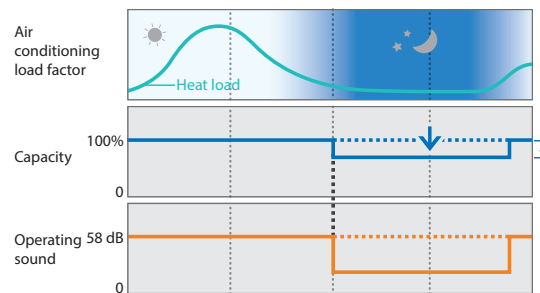


Outdoor unit low noise operation

You can choose from 4 low noise levels depending on the installation environment. ON / OFF timing of low noise mode can be set with the timer.



Quiet priority setting

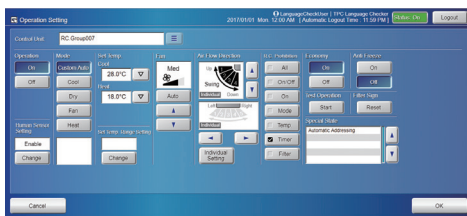


Energy-saving controls

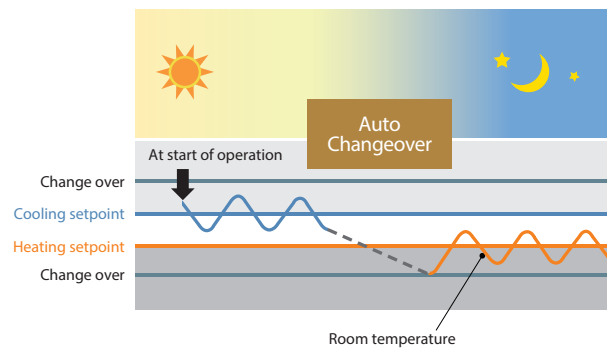
Custom Auto

- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models

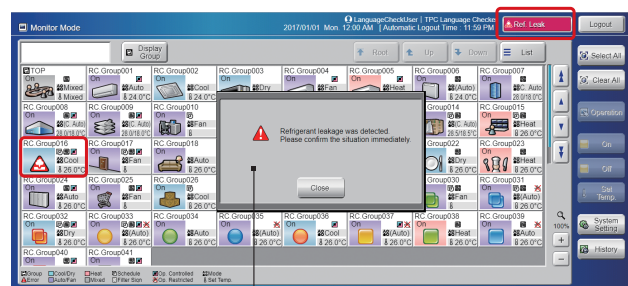


Cooling set temp. 28°C, Heating set temp. 18°C





Refrigerant leak detector

Refrigerant leakage status is indicated by the management equipment. A pop-up message is displayed to notify the user, and the refrigerant is shut off.



Pop-up highlighting

FUNCTIONS SUMMARY



	 UTYDTGVZ1	 Monitoring side
Air conditioning control functions		
ON / OFF	●	●
Operation mode setting*	●	●
Fan speed control	●	●
Room temperature setting	●	●
Setting temperature range limitation	●	●
Test operation	●	●
Vertical louver setting	●	●
Horizontal louver setting	●	●
Individual louver control	●*1	●
Group setting	●	●
Remote controller prohibition	●	●
Anti-freeze setting	●	●
Set temperature auto return	—	●
Energy-saving controls	—	●
Economy mode setting	●	●
Human sensor control	—	●
Displayed items		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
Remote controller prohibition	●	●
Cooling / heating priority	●	●
Address display	●	●
Room temperature	●*3	●*3
Multiple language support	●	●
Setting for daylight saving time	●	●
Time zone setting	●	●
Name registration	●	●
Backlighting	●	●
Language setting	7	7+ other
Filter sign reset	●	●
Memory operations	●	●
Refrigerant leak detector	●	●

●: Supported ○: Optional function —: Not supported

*1 Only setting cancellation can be operated.

*2 Only available for external input control.

*3 Available only when using a Wired remote controller.

	 UTYDTGVZ1	 Monitoring side	
Timer			
	Period	Year	Year
Schedule timer	ON / OFF, Temp, Mode, Times per day	20	20
ON / OFF timer		—	—
Sleep timer		—	—
Program timer		—	—
Auto-off timer		—	●
Day off		●	●
Minimum unit of timer setting (minutes)		10	10
Control			
Remote monitoring management system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote monitoring management		—	●
Energy-saving management		—	—
E-mail notification in case of failure		—	●
Key lock		● Password setting	—
Low noise mode		●	●

Specifications

Model name	UTYDTGVZ1
Power supply	Single phase ~100 to 240 V 50 / 60 Hz
Dimensions (H × W × D) (mm)	260 × 246 × 54
Weight (g)	2,150
Interfaces	Transmission / LAN / USB / EXT IN / EXT OUT / Reset SW

System Controller

UTYAPGXZ1 **Software** - Please refer to page C-054 for VRF compatibility

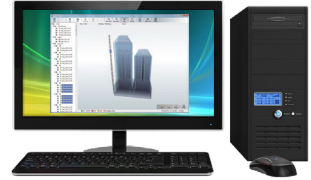
Up to **4** VRF network systems

Up to **400** outdoor units

Up to **1,600** indoor units

System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- Up to 1,600 indoor units and 400 outdoor units on up to 4 VRF network systems can be controlled.
- To accommodate facility management needs, the system controller offers—in addition to precise air conditioning control—remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.



System Controller Lite

UTYALGXZ1 **Software**

Up to **1** VRF network system

Up to **100** outdoor units

Up to **400** indoor units

System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.



Visually intuitive operation

Click & Operate: The visual representation of the property is shown on the screen from the perspective most suitable for operation (Click & Operate) You can select from among 4 display options: site, building, floor, and list.

Freely define groups for batched control: Indoor units can be grouped for simplified batch control from the tree menu. They can be grouped by organizational hierarchy, such as by division, department, and section.

Click & Operate the whole building! You can select from among 4 display options: site, building, floor, and list.

The display can be easily changed by pressing the button.

Click & Operate any specified unit(s)!

Batched control of freely defined groups

Batched control of freely selected units

Click & Operate the whole floor!

The floor layout drawing can be imported to easily make the settings for the actual building.

Click & Operate the unit!

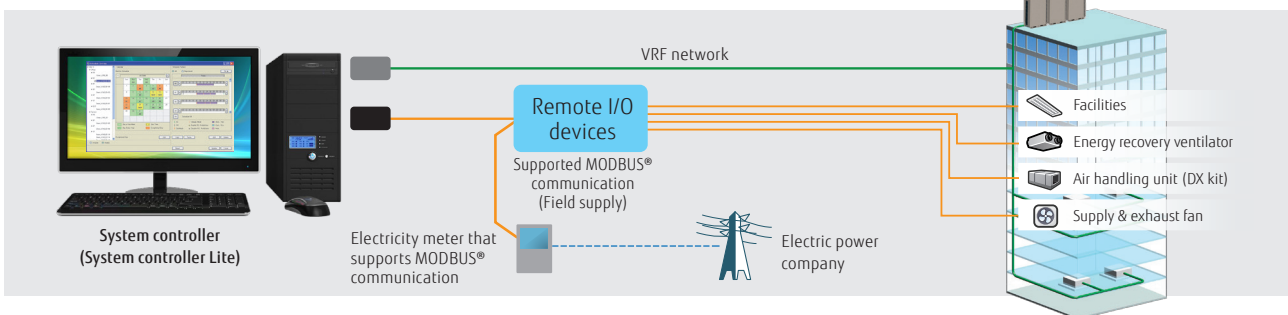
Note: 2D floor layout or 3D perspective of a building is not available on System controller Lite.

Features:

Third-party devices connected via MODBUS® can be controlled.

Standard for System Controller **Option** for System controller Lite UTYPGXX2

When a MODBUS® adapter (locally available) is connected to a computer, electrical equipment and devices supported by MODBUS® can be monitored and controlled centrally from the computer. The central control can reduce wasted energy throughout an entire building resulting from a failure to turn equipment off during or after work, as well as reduce the need for on-site patrols.

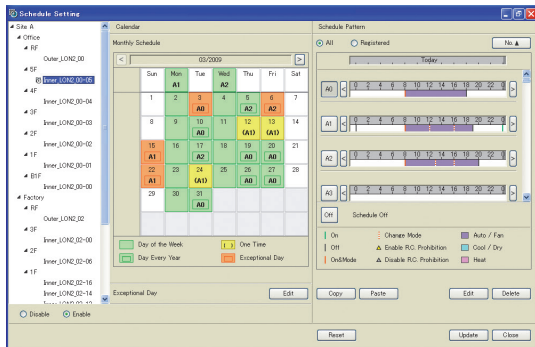


Wide-ranging operation and data management

Standard System controller and System controller Lite

Schedule management

- An annual schedule can be arranged for each remote controller group or user-defined group.
- ON / OFF, operation mode, remote controller prohibition, and temperature settings can be programmed for up to 143 times per day at 10-minute intervals and for up to 101 configurations for each remote controller group.
- Settings can be programmed for a period that spans midnight.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.
- Low noise operation of outdoor units can be scheduled.



Wide-ranging control of indoor and outdoor units

- The operation status and mode of each indoor unit are displayed.
- Turn on and off each indoor unit and switch its operation mode.
- Setting temperature range limitation
- Low noise setting of outdoor units

Remote controller prohibition

Prohibits the operation mode, temperature setting, or ON / OFF of an indoor unit.

Error alert and e-mail notice

When something goes wrong, an error message is shown in a popup on a computer display with a chime, and an e-mail notice is sent. Errors of the past one year are logged and can be reviewed.

Operation and control history

A history of operation status and control can be maintained and retrieved.

Importing and exporting databases

Only an administrator is authorized to import and export registration, layout, and image data.

Automatic clock adjustment

Time can be set for all controllers in batch automatically.

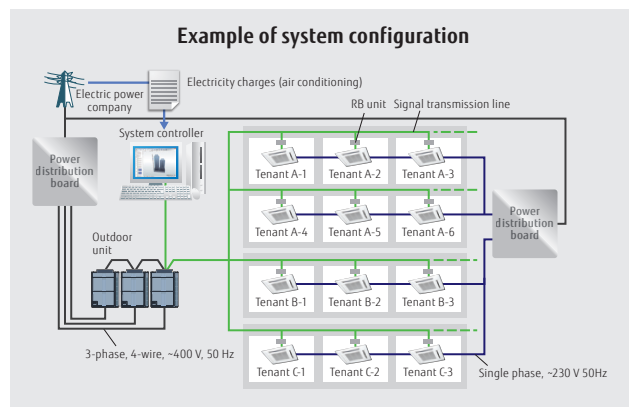
Electricity charge apportionment

Standard on System controller

Option System controller Lite UTYPGXA2

Electricity charge apportionment method

This is a method to calculate monthly energy costs to be allocated to each tenant based on the amount of energy used by their air conditioners. The first step is to determine exactly how much energy is consumed by air conditioners in each tenant space. The second step is to divide the total energy charge billed by an electric power company based on the amount of energy used by each tenant to determine the energy cost to be allocated to each of them. (See figure on right)
The calculation takes into consideration such factors as the number of unused rooms and nighttime electricity rate, which are shown in detail on an energy cost allocation schedule.



Specifications subject to change without notice, images are for illustration purposes only

Features:

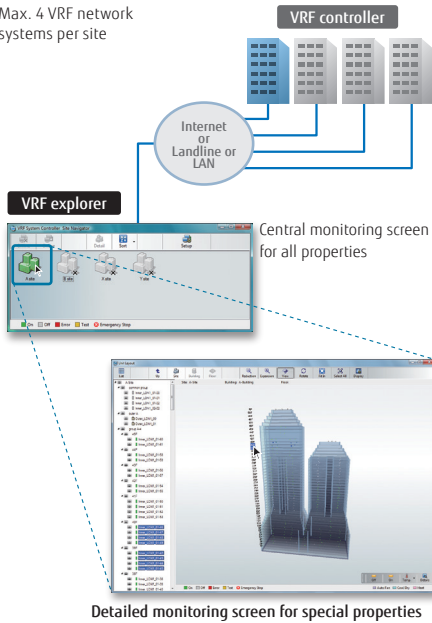
Remote monitoring management

- Standard** on System controller
- Option** System controller Lite UTYPGX2

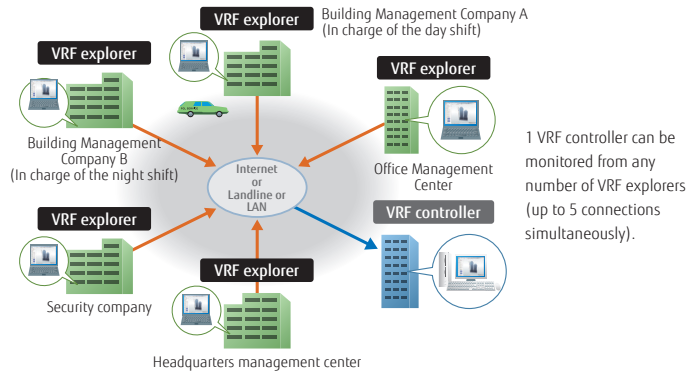
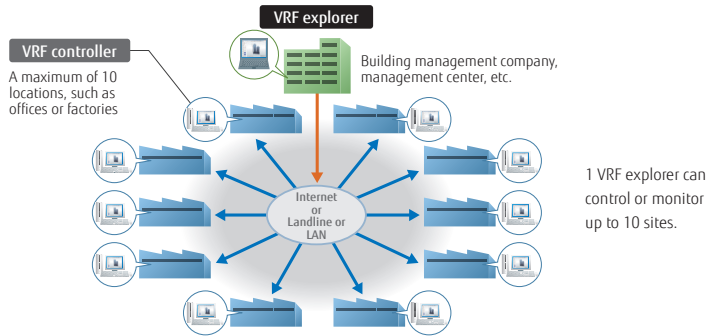
The System controller can be used on site or remotely over networks for remote central control. The System controller requires 2 software programs working together: The VRF controller runs on site and communicates with the VRF system; The VRF explorer, which runs at a remote location, provides a user interface and communicates with the VRF controller. The VRF controller and the VRF explorer run on a single computer or on different computers connected on a network. A computer running VRF explorer can centrally control up to 10 VRF system sites having up to 20 buildings each.

On site central control

Max. 4 VRF network systems per site



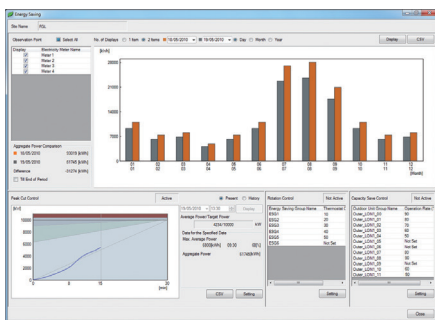
Remote central control



Energy-saving management

- Option** System controller UTYPGXZ1
- Option** System controller Lite UTYPGX2

A variety of energy-saving options can be selected depending on the season, weather, and time of day. Excellent energy-saving operation is performed while keeping users comfortable.



Main screen for energy-saving management

Energy saving graph data: This chart compares the energy consumption for the current month with the previous month and with the same month of the previous year to keep track of the energy-saving performance.

Indoor unit rotation

Indoor units can be automatically rotated to operate within a group in accordance with a predetermined annual schedule to reduce power consumption while keeping users comfortable. The operation stoppage rate can be selected for an indoor unit.

Peak-cut mode

The system controller monitors the connected power meter and controls the energy to maintain the target power consumption set for each time period by changing the set temperature of the indoor units or turning off the thermostat so as to keep the users comfortable. Indoor units to be controlled can be grouped in many ways, and the control level can be set for each group.

Capacity saving for outdoor unit

The upper limit on the capacity of an outdoor unit can be adjusted to reduce power consumption during a hot summer or cold winter by averaging out the power-saving performance of each refrigerant system. The upper limit on capacity can be set at 50% of the rated capacity or more.

Summary of functions

Functions	Type	System controller		System controller Lite				
		UTYAPGXZ1	Option UTYPEGXZ1	UTYALGXZ1	Option UTYPLGXR2	Option UTYPLGXA2	Option UTYPLGXE2	Option UTYPLGXX2
Specifications	Max. number of VRF networks supported	4	—	1	—	—	—	—
	Max. number of indoor unit and remote controller groups per VRF network	400	—	400	—	—	—	—
	Max. number of outdoor units per VRF network	100	—	100	—	—	—	—
	Max. number of indoor units and remote controller groups per System controller	1600	—	400	—	—	—	—
	Max. number of outdoor units per System controller	400	—	100	—	—	—	—
Site supervision	Multiple site display	10	—	10	—	—	—	—
	Number of buildings per site	20	—	—	—	—	—	—
	Number of floors per site	200	—	—	—	—	—	—
	Number of floors per building	50	—	—	—	—	—	—
	3D graphical layout view	●	—	—	—	—	—	—
	2D graphical layout view	●	—	—	—	—	—	—
	List display	●	—	●	—	—	—	—
Error management	Error notification	●	—	●	—	—	—	—
	Audible alarm	●	—	●	—	—	—	—
	E-mail notification of errors	●	—	●	—	—	—	—
History	Error history	●	—	●	—	—	—	—
	Operation history	●	—	●	—	—	—	—
Operation control	Individual control	Control history	●	—	●	—	—	—
		ON / OFF	●	—	●	—	—	—
		Operation mode*	●	—	●	—	—	—
		Room temperature	●	—	●	—	—	—
		Fan speed	●	—	●	—	—	—
		Airflow direction	●	—	●	—	—	—
		Economy mode	●	—	●	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—
		Anti-freeze	●	—	●	—	—	—
		Low noise setting of outdoor units	●	—	●	—	—	—
	Individual management	Remote controller prohibition	●	—	●	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—
		Filter sign reset	●	—	●	—	—	—
	Other	memory operations	●	—	●	—	—	—
		Pattern operations	●	—	●	—	—	—
Schedule	Annual Schedule	●	—	●	—	—	—	
	Setting for a specific date	●	—	●	—	—	—	
	ON / OFF per day	72	—	72	—	—	—	
	ON / OFF per week	504	—	504	—	—	—	
	Day off	●	—	●	—	—	—	
	Minimum unit of timer setting (minutes)	10	—	10	—	—	—	
Remote monitoring management	Weekly schedule for low noise mode	●	—	●	—	—	—	
	Web Operation	●	—	●	—	—	—	
	Remote monitoring	●	—	●	—	—	—	
	Remote operation control	●	—	●	—	—	—	
Electricity charge apportionment	Remote function setting	●	—	●	—	—	—	
	Apportionment charge / bill calculation	●	—	●	—	●	—	
	Tenant (block) setting	●	—	●	—	●	—	
	Common facilities apportionment setting	●	—	●	—	●	—	
	Rated power consumption allotment setting	●	—	●	—	●	—	
	Individual calculations for cooling and heating	—	●	—	—	—	—	
Energy-saving management	Electricity meter supported	—	●	—	—	●	—	
	Indoor unit rotation	—	●	—	—	●	—	
	Peak cut control	—	●	—	—	●	—	
	Capacity saving for outdoor unit	—	●	—	—	●	—	
	Record of energy-saving operation	—	●	—	—	●	—	
	Information on energy saving	—	●	—	—	●	—	
Control of external devices	Power consumption monitor	—	●	—	—	●	—	
	Electricity meter supported	—	●	—	—	●	—	
Others	Monitor	●	—	—	—	—	●	
	Control	●	—	—	—	—	●	
	Importing and exporting databases	●	—	●	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	
	Multiple language support	7 languages	—	7 languages	—	—	—	
Power shutdown	Refrigerant leak detector	●	—	●	—	—	—	
	Power shutdown	●	—	●	—	—	—	

●●: Available - : Not available

Computer requirements

The specifications required for the computer are shown in the table below:

	System controller	System controller Lite
Operating system	<ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32Bit or 64Bit) SP1, Windows® 7 Professional (32Bit or 64Bit) SP1 Microsoft® Windows® 8.1 (32Bit or 64Bit), Windows® 8.1 Pro (32Bit or 64Bit) Microsoft® Windows® 10 Home (32Bit or 64Bit), Windows® 10 Pro (32Bit or 64Bit) Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish	<ul style="list-style-type: none"> Microsoft® Windows® 7 Professional (32Bit or 64Bit) SP1 Microsoft® Windows® 8.1 (32Bit or 64Bit), Windows® 8.1 Pro (32Bit or 64Bit) Microsoft® Windows® 10 Home (32Bit or 64Bit), Windows® 10 Pro (32Bit or 64Bit) Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32Bit]) 4 GB or more (for Windows® 7 [64Bit], Windows® 8.1, and Windows® 10) 	<ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32Bit]) 4 GB or more (for Windows® 7 [64Bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space	40 GB or more of free space
Displayed items	1024 × 768 or higher resolution	1024 × 768 or higher resolution
Interfaces	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via land line) Up to 6 USB ports (Only required for a server computer working as a VRF controller) - Maximum of 2 USB ports are required to connect to a White-USB-key / WibuKey - Up to 4 USB ports required to connect to an Echelon® U10 USB network interface * Maximum number of required USB ports depends on the applicable system configuration. 	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via land line) Up to 6 USB ports (Only required for a server computer working as a VRF controller) - Maximum of 4 USB ports are required to connect to a White-USB-key / WibuKey - 1 USB port is required for an Echelon® U10 USB Network interface * The maximum number of required USB ports depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	Microsoft® DirectX® 9.0c compatible
Software	Adobe® Acrobat Reader® 9.0 or later	Adobe® Acrobat Reader® 9.0 or later

• Echelon® U10 USB Network interface - TP / FT-10 Channel (Model name: 75010R) (Required for each VRF Network)

Packing list

Type	For System controller			For System controller Lite			
	System controller	Option Energy manager	System controller Lite	Remote access	Electricity charge apportionment	Energy saving	Centralized control
Model name	UTYAPGXZ1	UTYPEGXZ1	UTYALGXZ1	UTYPLGXR2	UTYPLGXA2	UTYPLGXE2	UTYPLGXX2
White-USB-key	1	1	1	1	1	1	1

*1: Software protection key to be inserted in a USB slot running System controller or System controller Lite. Specifications subject to change without notice. Images are for illustration purposes only. System controller or System controller Lite may only run on a PC with a WHITE-USB-KEY. However, a WHITE-USB-KEY is not required for remote VRF explorer software.

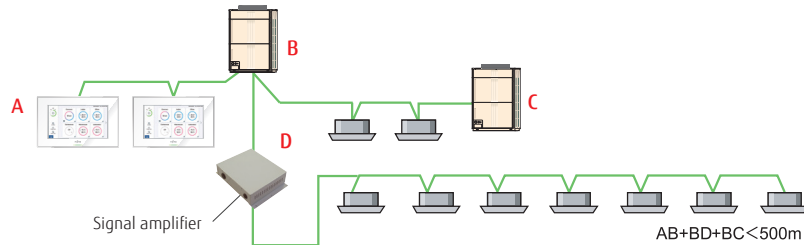
Signal Amplifier

UTYVSGXZ1 - Please refer to page C-056 for VRF compatibility



- The transmission line can be extended up to 3,600 m using multiple Signal amplifiers.
- Up to 8 Signal amplifiers can be added in a VRF network system.
- A Signal amplifier is required.
 - (1) When the total wiring length of the transmission line exceeds 500 m.
 - (2) When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

Model name	UTYVSGXZ1
Power supply	Single phase ~208 to 240 V 50 / 60 Hz
Power consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

External Switch Controller

UTYTERX - Please refer to page C-052 for splits and C-056 for VRF compatibility



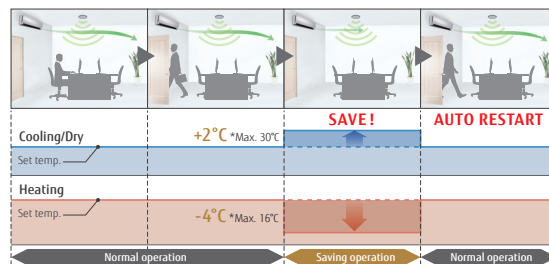
Air conditioner switching can be controlled by connecting this external switch controller to other sensor switches.

- In combination with a commercially available card-key switch or other sensors, this External switch controller enables the control of ON / OFF, room temperature, and fan speed of connected air conditioners as well as master control functions. This makes this product an ideal choice for use in hotel rooms.
- Card key or other sensor switches are locally available.
- The set temperature can be specified at two points each for cooling and heating operations (4 points in total).

Up to
1 group

Installation example

Human sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.



Human sensor equipment needs to be purchased separately. Human sensor is not mounted on an External switch controller.

Specifications

Model name	UTYTERX	FGACBAC1Z1 (CN connector type)
Power supply	6.5 to 16 V DC	-
Dimensions (H × W × D) (mm)	140 × 117 × 43	93 × 53 × 58
Weight (g)	250	85

12 V DC supplied by an indoor unit

KNX® Converter for indoor unit

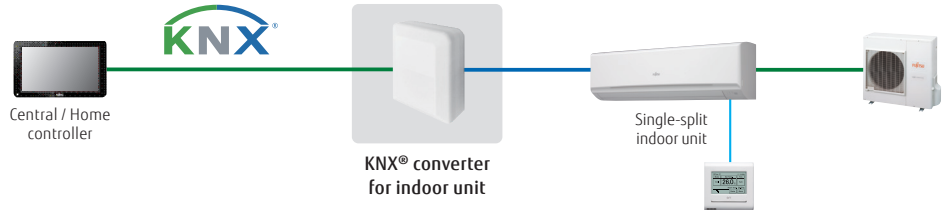
UTYVKSX - Please refer to page C-052 for splits and C-056 for VRF compatibility



KNX® Converter enables individual control of an indoor unit.

- The new KNX® converter connects a central or home controller and a Fujitsu General indoor unit.
- Compact and lightweight design

Up to
1 indoor unit



Specifications

Model name	UTYVMSX
Power supply	12 V DC
Input power (W)	Max. 1.2 W
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200
Maximum number of connectable indoor units per MODBUS® converter	1

Modbus communication specifications

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

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

MODBUS® Converter for Indoor unit

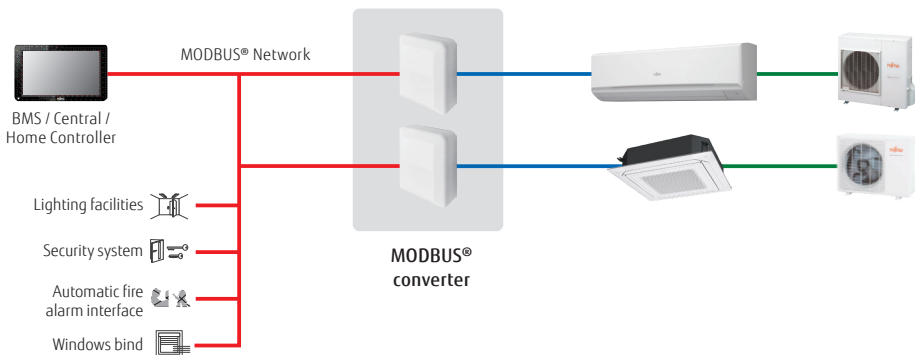
UTYVMSX - Please refer to page C-052 for splits and C-056 for VRF compatibility



MODBUS® converter enables air conditioners to be fully integrated into a MODBUS® network.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS® converter must be connected to an indoor unit on a one-to-one basis.
- The MODBUS® converter enables central monitoring and control of air conditioners from BMS, central, or home controller.

Up to
1 indoor unit

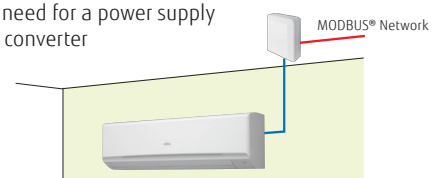


Basic control

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

Easy Installation

Easy to install with minimal wiring and without the need for a power supply cable to the converter



KNX® Interface

FGRCNX1Z1 / FGACKNX1Z1 / FGIRKNX1Z1 - Please refer to page C-052 for splits and C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



FGRCNX1Z1
(3Wire RCLine type)

The KNX® interface enables air conditioners to be fully integrated into a KNX® network system.

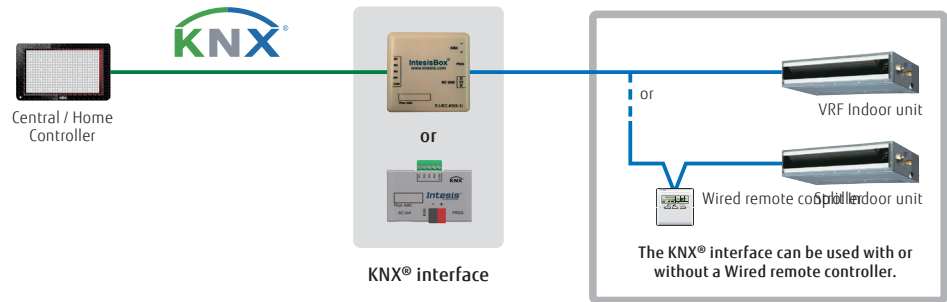
- Simple installation due to small and compact size.
- No separate external power supply required (only KNX® bus power required)



FGACKNX1Z1
(CN connector type)

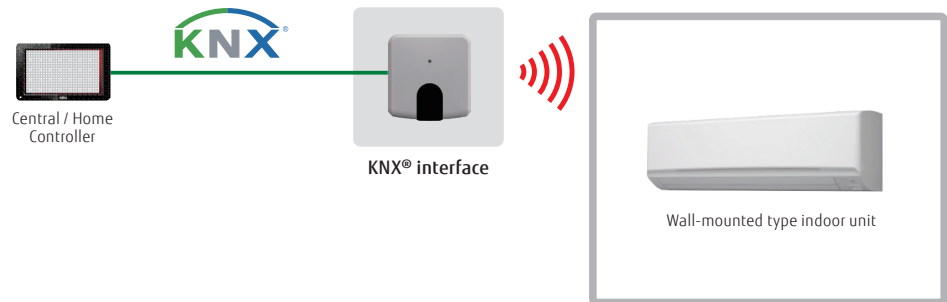
Installation example

[3Wire RCLine type / CN connector type]



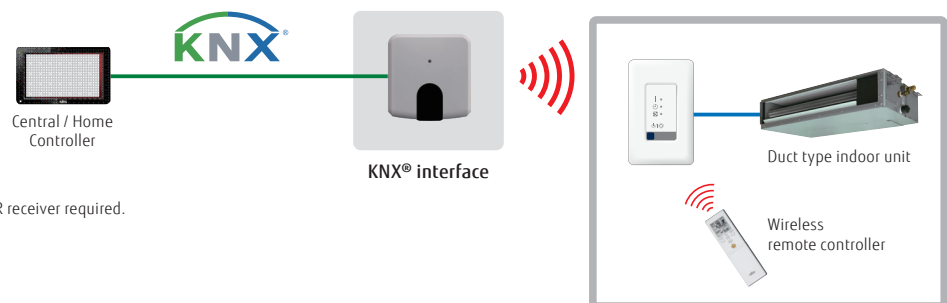
FGIRKNX1Z1
(IR type)

[IR type] Connection to wall-mounted type



Up to
1 indoor unit

[IR type] Connection to a product other than wall-mounted type



*IR receiver required.

Specifications

Model name	FGRCNX1Z1 (3Wire RCLine type)	FGACKNX1Z1 (CN connector type)	FGIRKNX1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	70 × 70 × 28	45 × 59 × 21	81 × 78 × 28
Weight (g)	70	35	76

MODBUS® Interface

FGRCMBS1Z1 / FGACMBS1Z1 - Please refer to page C-052 for splits and C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways

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FGRCMBS1Z1
(3Wire RLine type)

MODBUS® interface enables air conditioners to be fully integrated into a MODBUS® network.

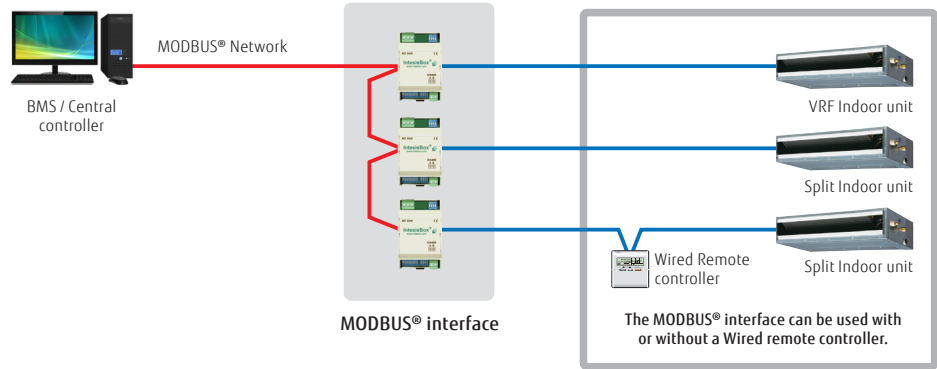
- Small, compact, and easy to install on DIN rails.
- No separate external power supply required.
- MODBUS® interface enables central monitoring and control of air conditioners from BMS.

Intesis
BY HMS NETWORKS



(CN connector type)

Installation example



Up to
1 indoor unit

Specifications

Model name	FGRCMBS1Z1 (3Wire RLine type)	FGACMBS1Z1 (CN connector type)
Number of controllable groups	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	85	85

BACnet® Gateway

FGACBAC1Z1 - Please refer to page C-052 for splits and C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways

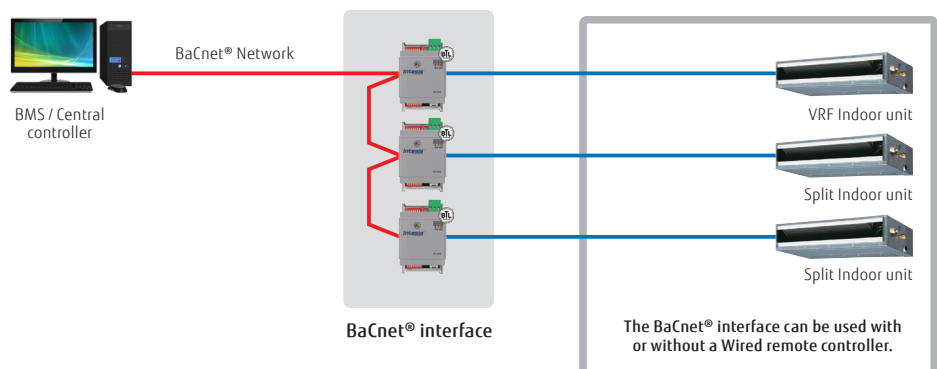
Intesis
BY HMS NETWORKS



FGACBAC1Z1
(CN connector type)

- BACnet® Gateway connects BMS and a Fujitsu General split / multi-split / VRF system.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application-specific controller (B-ASC)
- Compatible with BACnet® / IP over Ethernet.

Installation example



Up to
1 indoor unit

BACnet® Gateway

UTYABGXZ1 (Software) - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



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

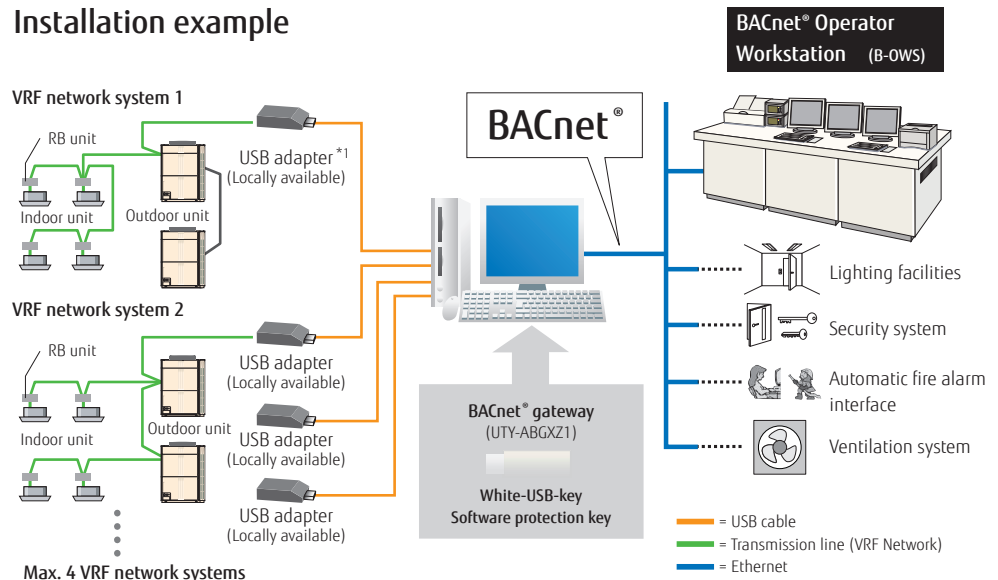
- A medium to large BMS can be connected to a VRF network system via BACnet®, a standard communication protocol for open networks.
- Up to 1,600 indoor units on up to 4 VRF network systems (up to 400 indoor units and 100 outdoor units per system) can be connected to a single BACnet® gateway.
- The VRF network system can be controlled or monitored from BMS via BACnet® gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet® / IP over Ethernet.
- Scheduling, alarm and event setting, and energy cost allocation are provided on the BACnet® gateway.
- The VRF network system can be connected to a computer via a U10 USB interface. Note that Fujitsu General does not supply a U10 USB interface or a computer. They must be purchased separately by the user.
- Corresponds to 7 different languages: English, Chinese, French, German, Spanish, Russian, Polish.

Up to
4
VRF network systems

Up to
400 outdoor units

Up to
1,600 indoor units

Installation example



*1: U10 USB network interface available from Echelon® Corporation.

Computer requirements

	UTYABGXZ1
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Home Premium (32Bit or 64Bit) SP1, Windows® 7 Professional (32Bit or 64Bit) SP1 • Microsoft® Windows® 8.1 (32Bit or 64Bit), Windows® 8.1 Pro (32Bit or 64Bit) • Microsoft® Windows® 10 Home (32Bit or 64Bit), Windows® 10 Pro (32Bit or 64Bit) Supported languages: Chinese, English, French, German, Polish, Russian, and Spanish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> • 2 GB or more (for Windows® 7 [32Bit]) • 4 GB or more (for Windows® 7 [64Bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Displayed items	1024 × 768 or higher resolution
Interfaces	<ul style="list-style-type: none"> • Ethernet port (for getting access to the internet using LAN) • Up to 5 USB ports <ul style="list-style-type: none"> - 1 USB port required to connect to a White-USB-key / WibuKey - Up to 4 USB ports required to connect to an Echelon® U10 USB network interface *The maximum number of required USB ports varies depending on the applicable system configuration.
Software	Adobe® Acrobat Reader® 9.0 or later

•Echelon® U10 USB Network interface – TP / FT-10 Channel (Model name: 75010R) (Required for each VRF Network)

Packing list

Name and shape	Quantity	Application
White-USB-key	1	Includes the software, user's manual, and license for BACnet® gateway.

BACnet® Gateway

UTYVBGX (Hardware) - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



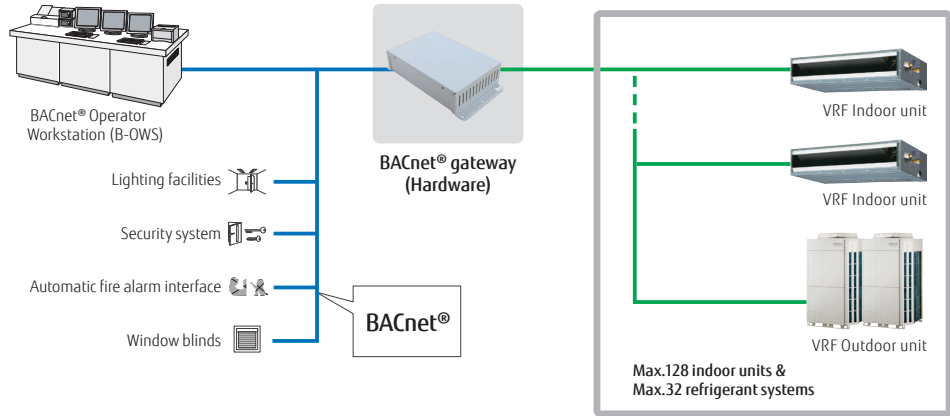
- BACnet® gateway connects BMS and a Fujitsu General VRF system.
- Up to 128 indoor units and 32 refrigerant systems can be connected to a single BACnet® gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application-specific controller (B-ASC)
- Compatible with BACnet® / IP over Ethernet.



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- Up to **1** VRF network system
- Up to **32** refrigerant systems
- Up to **128** indoor units

Installation example



Specifications

Model name	UTYVBGX
Number of controllable indoor units	128
Number of controllable refrigerant systems	32
Number of controllable VRF networks	1
Number of connectable units / one VRF network	4

Model name	UTYVBGX
Power supply	Single phase, 100-240 V, 50 / 60 Hz
Power consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1200

Home Automation LAN Adapter

FGTLMBS16Z1 - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways

Intesis
BY HMS NETWORKS

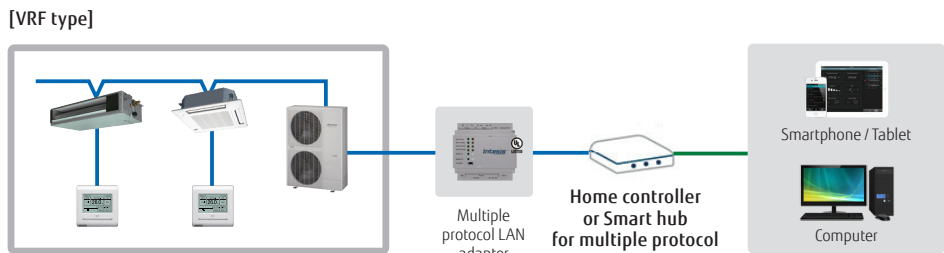


FGTLMBS16Z1 (VRF type)

No separate external power supply required

- Can be used for 16 indoor units.

Installation example



- Up to **16** indoor units

Specifications

Model name	FGTLMBS16Z1 (VRF type)
Power supply	9 to 36 V DC, Max.: 140 mA or 24 V AC 50 / 60 Hz, Max.: 127 mA.*
Input power (W)	1.7
Dimensions (H × W × D) (mm)	90 × 88 × 56
Weight (g)	330

*24 V DC power supply is recommended.

Specifications subject to change without notice, images are for illustration purposes only

BACnet® / MODBUS® Router

FGRTRBAC3Z21 / FGRTRMBS3Z21 - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



FGRTRBAC3Z21
(BAC net)



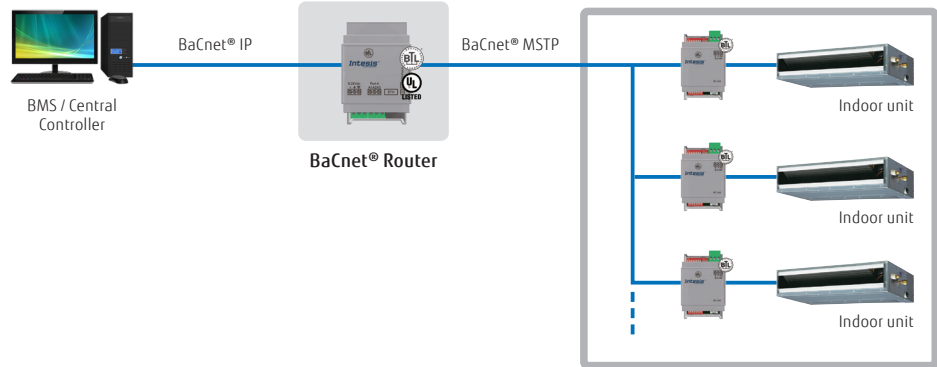
FGRTRMBS3Z21
(MODBUS®)

Routing between BaCnet® MS / TP and BaCnet® IP networks

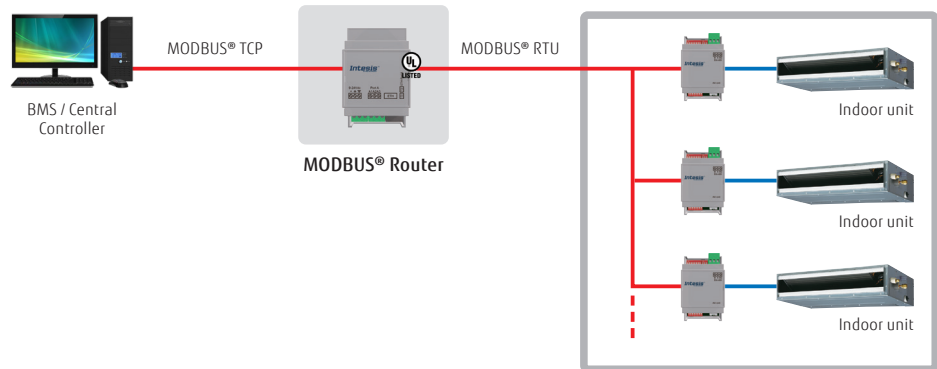
- Routing between BaCnet® MS / TP and BaCnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

Installation example

[BaCnet® type]



[MODBUS® type]



Specifications

Model name	FGRTRBAC3Z21 (MS / TP to IP)	FGRTRMBS3Z21 (RTU to TCP)
Number of routable devices (max.)	32	32
Power supply	9 to 36 V DC, Max.: 140 mA or 24 V AC 50 / 60 Hz, Max.: 127 mA	9 to 36 V DC, Max.: 140 mA or 24 V AC 50 / 60 Hz, Max.: 127 mA
Power consumption (W)	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150

BACnet® / MODBUS® Cloud Device

FGCLDBMG4Z1 / FGCLDBMG8Z1 / FGCLDBMG16Z1 / FGCLDBMG32Z1 - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways

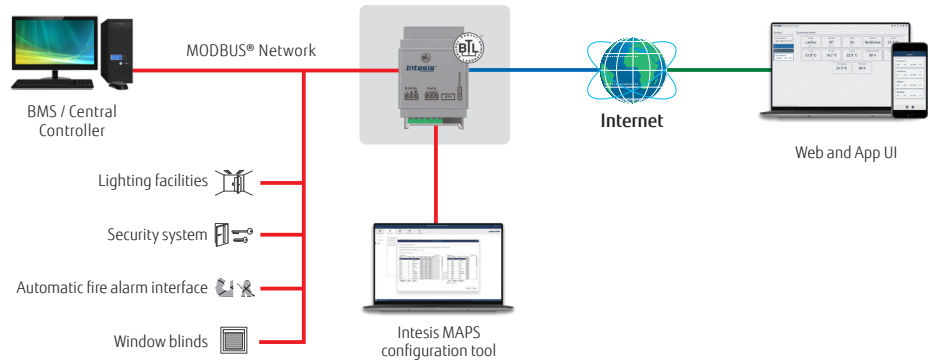
Intesis®
BY HMS NETWORKS



FGCLDBMG4 / 8 / 16 / 32Z1

- The most powerful configuration tool common to all BACnet® gateways provides the system integrators with the power to configure and monitor their systems in an easy and reliable manner.
- A simple, easy-to-use description for the ST Cloud Web and App User Interface, with all widgets customizable to the user's needs, enabling system integrators to easily offer the best user experience to customers who are in control of their BaCnet® or MODBUS® devices.

Installation example



*BMS: Building Management System

Gateway features

- BaCnet® IP / MSTP or MODBUS® TCP / RTU connectivity
- Up to 32 devices can be connected to each gateway.
- Up to 12 widgets per device
- Easy device configuration with Intesis MAPS

Next-generation services

- Industrial-grade connectivity now for building automation
- Fast and scalable real-time edge connectivity over HMS HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

System Features

- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices
- Calendar that shows the daily planned installation commands
- Notifications keep you updated about system status
- Device sharing and usage permissions management
- Multiple site management from a common dashboard

Specifications

Model name	FGCLDBMG4Z1	FGCLDBMG8Z1	FGCLDBMG16Z1	FGCLDBMG32Z1
Number of connectable BaCnet® (IP / MSTP) or MODBUS® (TCP / RTU) devices	4	8	16	32
Power supply	9 to 24 V DC, 50 / 60Hz	9 to 24 V DC, 50 / 60Hz	9 to 24 V DC, 50 / 60Hz	9 to 24 V DC, 50 / 60Hz
Power consumption (W)	1.7	1.7	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150	150	150

Specifications subject to change without notice, images are for illustration purposes only

MODBUS® Convertor for VRF

UTYVMGX / FGTLMBS16Z1 - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



UTYVMGX

MODBUS® convertor enables air conditioners to be fully integrated into a MODBUS® network.

- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® convertor enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTYVMGX). Simultaneous control, such as Power ON / OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

Up to **9** units per VRF system

Up to **100** outdoor units

Up to **128** indoor units

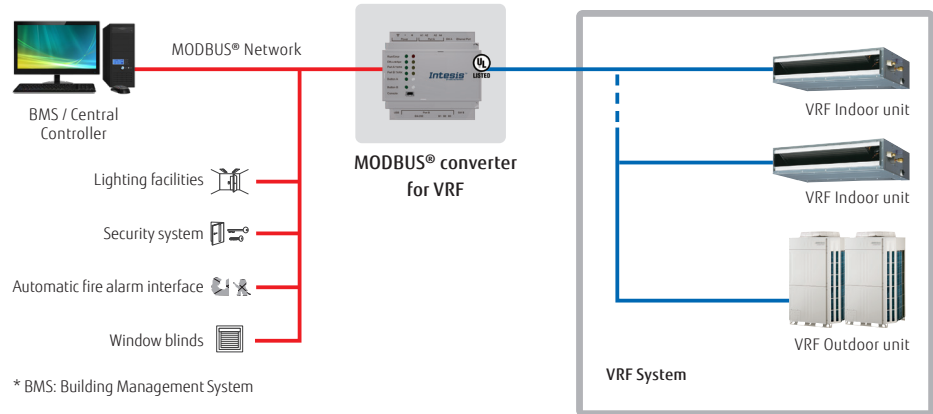
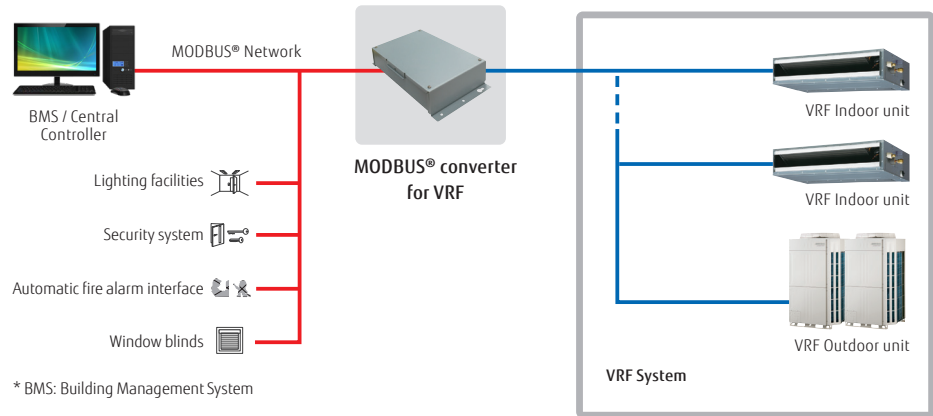


FGTLMBS16Z1

Up to **16** indoor units

Up to **16** outdoor units

Installation example



Specifications

Model name	UTYVMGX	FGTLMBS16Z1
Power supply	Single phase ~220 to 240 V 50 / 60 Hz	9 to 36 V DC, Max.: 140 mA or 24 V AC 50 / 60 Hz, Max.: 127 mA.*
Input power (W)	Max. 2	1.7
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,100	330

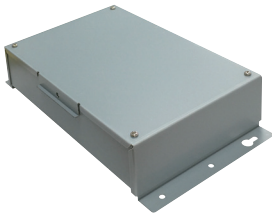
*24 V DC power supply is recommended.

KNX® Converter for VRF

UTYVKGX / FGTLKNX16Z1 - Please refer to page C-056 for VRF compatibility



To check compatibility of the Intesis device please visit www.intesis.com/products/ac-interfaces/fujitsu-gateways



UTYVKGX



FGTLKNX16Z1

KNX® converter enables centralized control of a system.

- KNX® converter connects a central or home controller and a Fujitsu General VRF system.
- Up to 128 indoor units and 100 outdoor units can be connected to a single KNX® converter. (UTYVKGX)

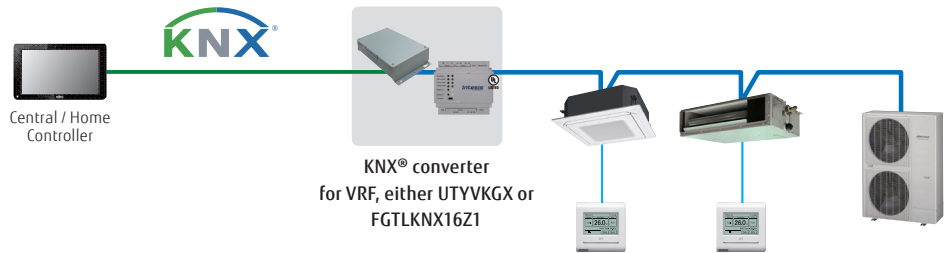
Up to **100** outdoor units

Up to **16** indoor units

Up to **128** indoor units

Up to **16** outdoor units

Installation example



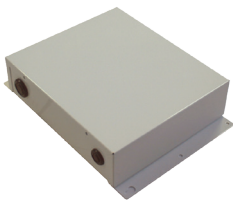
Specifications

Model name	UTYVKGX	FGTLKNX16Z1
Power supply	Single phase ~220 to 240 V 50 / 60 Hz	9 to 36 V DC, Max.: 140 mA or 24 V AC 50 / 60 Hz, Max.: 127 mA.*
Input power (W)	1.5	1.6
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,200	340

*24 V DC power supply is recommended.

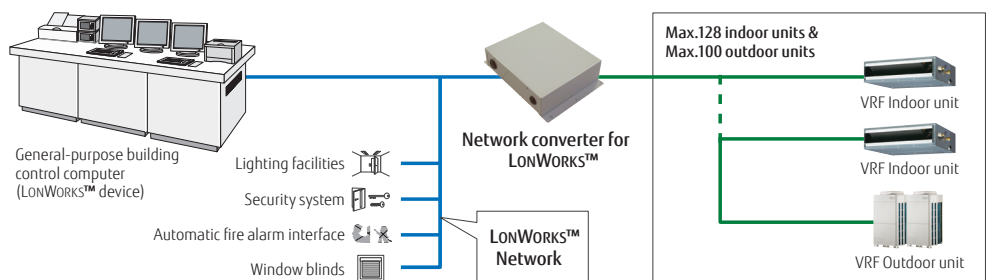
Network Converter for LONWORKS™

UTYVLGX



- Connects the VRF network system to a LONWORKS™ open network to manage small and mid sized BMS and VRF network system.
- The UTYVLGX enables centralized monitoring and control of VRF network system from a BMS via a LONWORKS™ interface.
- Up to 128 Indoor units can be connected to one network converter for LONWORKS™

Installation example



Up to **4** units to BMS

Up to **100** outdoor units

Up to **128** indoor units

Specifications

Model name	UTYVLGX
Power supply	Single phase ~208 to 240 V 50 / 60 Hz
Power consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Transmission specifications (BMS side)

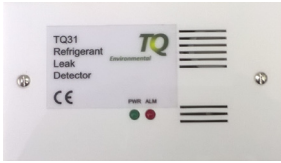
Transmission speed	78 kbps
Transceiver	FT-X1 (available from Echelon® Corporation)
Transmission line form	Free topology
Terminal resistor	None (converter to be attached at the terminal of a network)

Specifications subject to change without notice, images are for illustration purposes only



Single Point Standalone Refrigerant Leak Detector

TQ31



Stand alone, single point refrigerant detector and alarm unit ideal for room monitoring. The TQ31 is specifically designed to monitor for the build up of refrigerant gases typically used in air conditioning systems.

Resistant to cross sensitivity from hairspray and deodorants so can be used in hotel or office applications. Designed as a single point, self-contained unit but can be connected to a TQ32 Area Alarm panel for remote monitoring and group alarms.

- Monitors all refrigerant gases typically used in air conditioning systems.
- Standalone sensor for room monitoring, designed for flush mounting.
- Simple installation replaces electrical socket, 220/240v 50Hz mains supply
- Power and Alarm LED's plus internal sounder for local indication.
- Alarm relay outputs can be used for local switching of equipment and remote monitoring.
- Long service life, no in service calibration.

Refrigerant Area Alarm Panel with Room Indication

TQ32 - 32 Channel

TQ32 - 64 Channel



The TQ32 Area Alarm Panel combined with the TQ31 or TQ33 sensors, enables the group monitoring of individual rooms for common refrigerants used in air conditioning systems or CO2 build up. Designed for hotel or office use, a single alarm panel will typically monitor 1 or 2 floors depending on the number of sensor needed. The 3 digit LED display shows individual room numbers. Configurable alarm outputs can provide plant trip signals and alert the reception desk, via an optional TQ34 indicator panel or 3rd party alarm.

- Allows the monitoring of standalone refrigerant room sensors for group alarms.
- up to 64 individual sensor inputs gives wide area coverage.
- Totally configurable for indication of individual room numbers.
- Small size and 220/240v 50Hz mains supply for ease of installation.
- local visual and audible alarm indication with simple operator controls.
- Output relays can be configured for specific groups to provide plant trip and security alarms.
- Long service life, no in service maintenance.

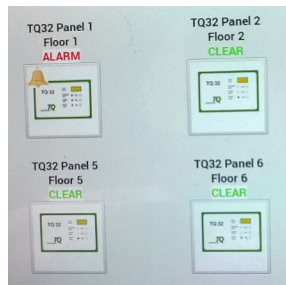
Central Alarm Panel

TQ35

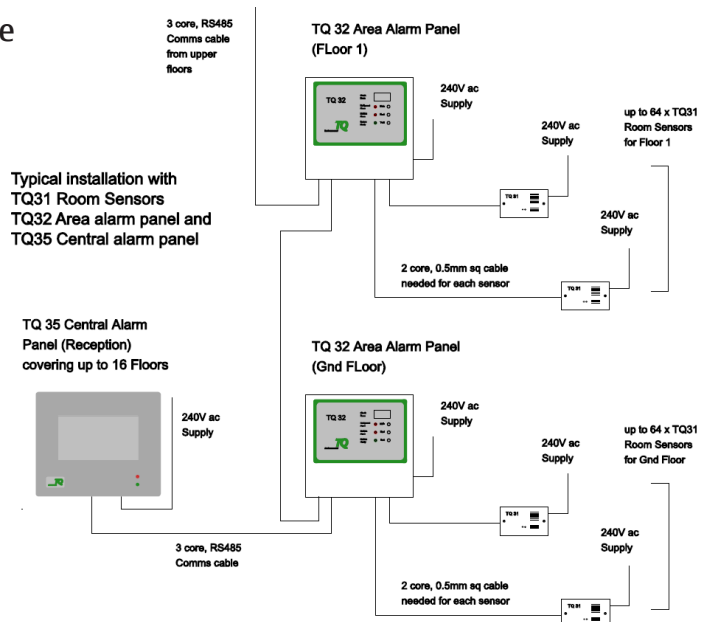


The TQ35 is a central alarm panel used to signal potential faults or alarms from multiple TQ32 remote alarm panels. Typically used in manned reception or security stations. Incorporates an internal buzzer and local mute to alert reception staff. Touchscreen display can quickly and easily be used to mute local sounders and identify specific locations in alarm.

- Used to remotely signal alarms or panel faults from multiple control panels
- 7" TFT display with touchscreen control
- Up to 16 remote control panels for separate locations or floors can be connected
- Using the touch screen will access individual alarm list for each connected panel, showing individual room locations.
- Power and Alarm LED's plus internal sounder with simple mute for local indication.
- Alarm relay output can be used for remote signalling of alarms.
- Long service life, no in service adjustment necessary.



Installation example



PAC DX Kit - For Single Split Outdoor Units

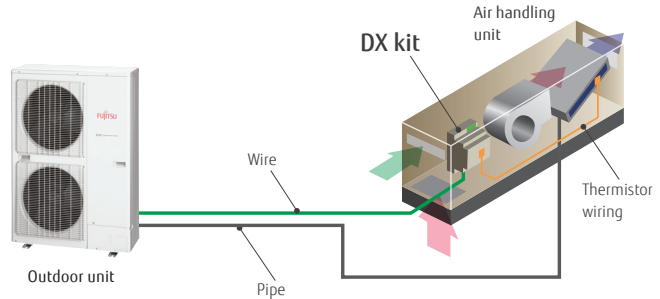
UTYXDZXUK



With this kit, other manufacturers' Air handling units (AHUs) and fan coil units (FCUs) can be incorporated into Fujitsu General Split outdoor units.

Flexible connectivity

This kit allows connections to third-party equipment. This control unit can also be used in conjunction with Fujitsu General single-split outdoor units, providing a perfect solution when a stand-alone Air handling unit is needed.



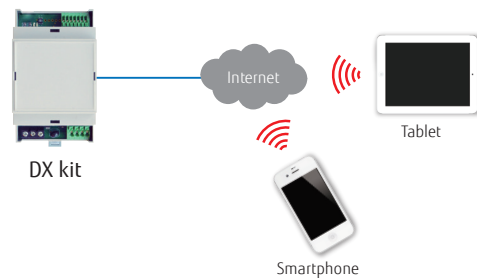
Supports a wide range of capacity classes

Capable of connecting large capacities in the range of 3.5 kW to 22.0 kW (Nominal)



Mobile devices allow for operation from anywhere

Can be operated and managed remotely using your smartphone or tablet.



Summary of functions

Inputs

- On/Off
- Heating/Cooling operation modes
- Capacity demand (analogue 0 to 10 V)
- Heat exchanger temperature

Outputs

- Status of Compressor, Defrost, and Errors (Potential free relays)
- Status indicator with LED

Wireless LAN Control

Wireless LAN control through cloud connectivity enables secure remote monitoring and control from anywhere.

Specifications

BTU			12	14	18	24	30	36	45	54	60	72	90
Capacity (Nominal)	Cooling Heating	kW	3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.3	15.0	19.0	22.0
			4.1	5.0	6.0	7.8	10.0	10.8	13.3	15.8	18.0	22.4	27.0

Model name	UTY-XDZX	
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	90.2 × 53.3 × 57.5
Weight	g	110

Note: Specifications are based on the following conditions.
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
 Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
 Pipe length: 5.0 m Voltage: 230 [V].

PAC DX Kit - For Single Split Outdoor Units

UTI-INV-U (AOYG/R410)
 UTI-INV-R32 (AOYG/R32)



The UTI-INV module is used for direct control of Fujitsu outdoor inverter units, when you need to connect heat exchangers of different producer or of different construction.

- The module with IP20 protection is designed to be attached to the DIN rail situated inside the electrical switchboard or installation box. In the outdoor environment, it must be used only in facilities with adequate protection. It's also possible to install the module inside the outdoor unit (only if there is enough space for installation).
- The ON, DEF and ERR outputs are a SSR (Solid State Relay) type. They can be used for status indication or supply power to the power elements (with regard to the maximum allowable output current).

Installation example

⚠ CAUTION!

Pay extra attention to the correct connection of the module to the outdoor unit! Incorrect cable wiring may result in the destruction of the module or the electronics of the outdoor unit!

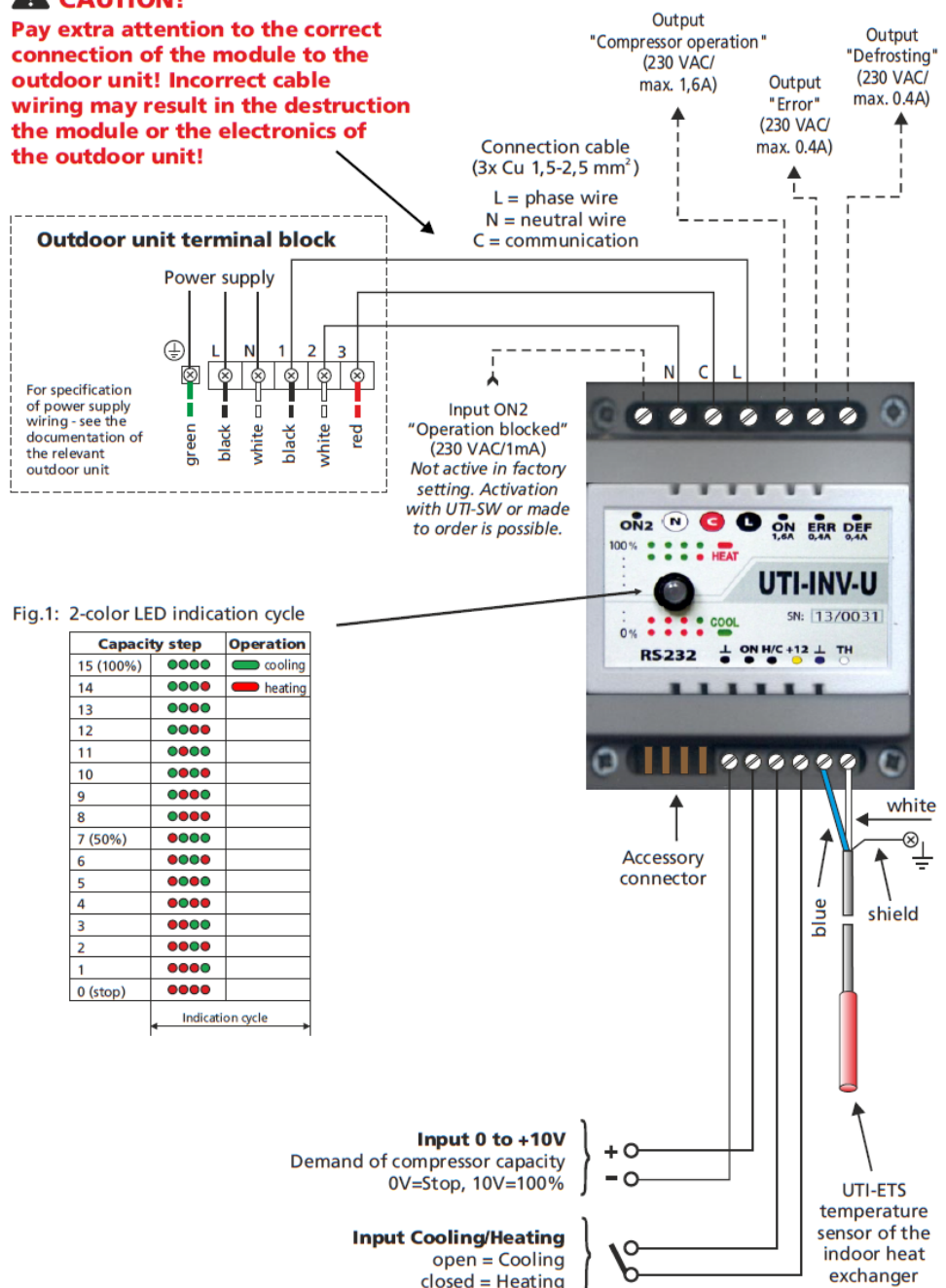


Fig.1: 2-color LED indication cycle

Capacity step	Operation
15 (100%)	●●●●● cooling
14	●●●●● heating
13	●●●●●
12	●●●●●
11	●●●●●
10	●●●●●
9	●●●●●
8	●●●●●
7 (50%)	●●●●●
6	●●●●●
5	●●●●●
4	●●●●●
3	●●●●●
2	●●●●●
1	●●●●●
0 (stop)	●●●●●

Indication cycle

DX Kit for Air Handling Applications (VRF Outdoors)



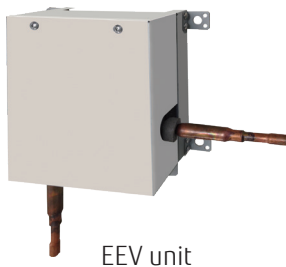
Control unit: UTYVDGX

EEV unit: UTPVX30A / UTPVX60A / UTPVX90A



Control unit
UTYVDGX

These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).



EEV unit

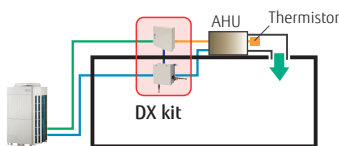
Operation Range

Operation down to -7°C in heating mode

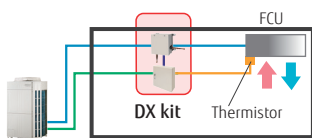
Condition	Inlet Air Temperature
Cooling	5°C to 43°C *
Heating	-7°C to 30°C

* When connecting J-III or J-II series the upper limit is 40°C

Multiple temperature sensors optimally control an Air handling unit and a fan coil unit.

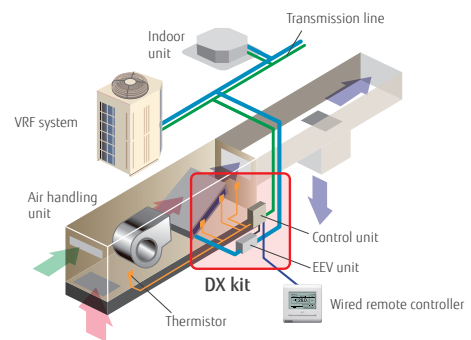


When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.



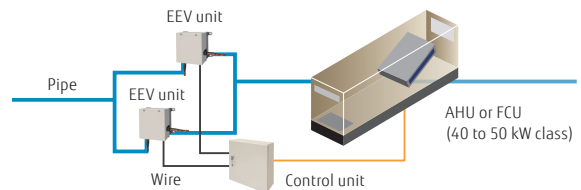
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

Application as part of a VRF system



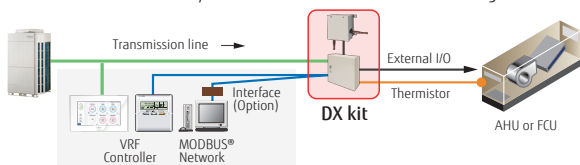
Supports a wide range of capacity classes

- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube required)
- Connectable capacity range: 5 kW to 50 kW

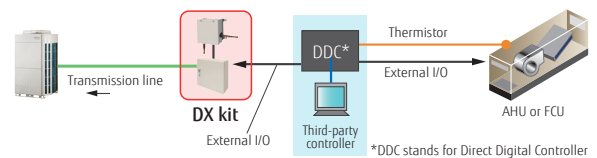


A variety of control options that meet application requirements

Central control enabled by our VRF controllers or central management controllers



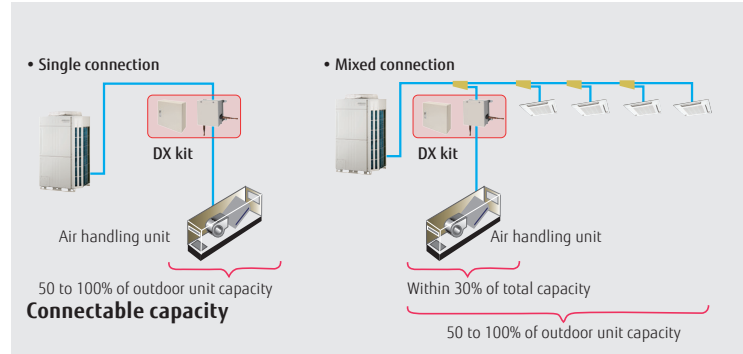
Central control from external controllers



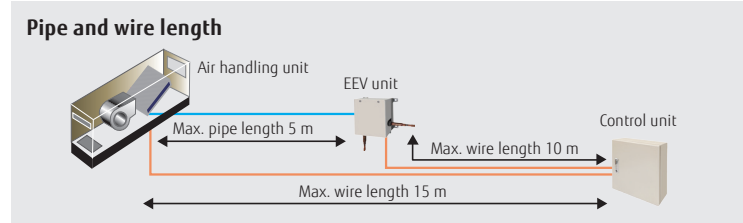
*DDC stands for Direct Digital Controller

Installation requirements

- Connectable VRF Series: All VRF Series
- Capacity range of connectable DX kit systems with outdoor units: 50 to 100% of capacity
- Capacity range of connectable DX kit systems with indoor units: 30% or less of capacity
- Max. wire length from a control unit: 10 m
- Max. pipe length between EEV unit and indoor unit: 5 m
- A control unit (IP54 class) and an EEV unit can be installed outdoors.



Optional separation tube to connect two EEV units: UTP-LX180A



Summary of functions

Inputs

- On/Off
- Setting temperature
- Capacity demand
- Heating/Cooling operation modes
- Fault information

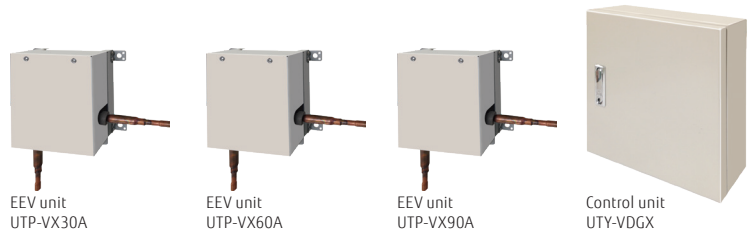
Outputs

- On/Off indication
- Fan On/Off indication
- Thermostat On/Off indication
- Defrost indication
- Fault indication

MODBUS® Control

Can be controlled via a MODBUS®-enabled BMS using an optional interface.

Control unit: UTYVDGX
EEV unit: UTPVX30A / UTPVX60A / UTPVX90A



Specifications

Connectable capacity class		5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating	6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5






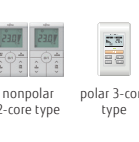




Control unit		UTY-VDGX	
Power source	V/∅/Hz	230/1/50	
Dimensions (H × W × D)	mm	400 × 400 × 120	

EEV unit		UTP-VX30A	UTP-VX60A	UTP-VX90A	UTP-VX90A × 2
Connection pipe diameter (Liquid)	mm	∅9.53	∅12.70	∅12.70	∅12.70
Dimensions (H × W × D)		160 × 220 × 90			

Note: Specifications are based on the following conditions.
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
 Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
 Pipe length: 7.5 m Voltage: 230 [V].

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

Controller Options / Accessories:

Type	Refrigerant	Indoor unit						Cassette		Duct
		Wall-mounted						Compact Series	Circular flow Series	Slim
		Designer Series		Standard Series		ECO Series				
		ASYG 07/09/12/14 KGTE	ASYG 07/09/12/14 KETE, KETEB	ASYG 07/09/12/14 KMCE	ASYG 18/24KMTB	ASYH 30/36KMTB	ASYG 09/12 KPCE	AUXG 09 to 24 KVLA	AUXG 18 to 54 KRLB	ARXG 09/12/14/18 KLLAP
Controllers										
										
		● UTYRNRZY5 + UTYTWRXZ2							● UTYRNRZY5	
		● UTYRCRYZ1 + UTYTWRXZ2							● UTYRCRYZ1	
									● UTYRVNYM	
		nonpolar 2-core type	polar 3-core type	● UTYRSRY UTYRHRHRY + UTYTWRXZ2					● UTYRSRY, UTYRHRHRY, UTYRSNYM	
										
								● UTYLNTY		
IR receiver unit with Wireless remote controller		For Duct type	For Cassette type							
		For Duct type	For Cassette type	For Ceiling type					● UTYLBTYC	● UTYLBTYM



Indoor unit											Outdoor unit	
Duct				BIG	Floor	Ceiling	Multi-split				Single phase	
Medium static (Compact)	Medium static (Standard)	High static pressure					Wall-mounted	Compact cassette	Mini duct	Slim duct	5 unit multi-split	
ARXG 12 to 54 KHTAP	ARXG22KMLB, ARXG 24 to 45 KMLA	ARXG 45 / 54KHTB		ARYG 60LHTA	ARYG 72 / 90LHTA	AGYG 09 / 12 / 14 KVCA	ABYG 18 to 54 KRTA	ASYG 22KMTE	AUXG 07KVLA	ARXG 07 to 18 KSLAP	ARXG 07KLLAP	A0YG36KBTAS
● UTYRNRYZ5				● UTYRNRYZ5	● UTYRNRYZ5 + UTYTWRXZ3	● UTYRNRYZ5	● UTYRNRYZ5 + UTYTWRXZ2	● UTYRNRYZ5				
● UTYRCRYZ1				● UTYRCRYZ1	● UTYRCRYZ1 + UTYTWRXZ3	● UTYRCRYZ1	● UTYRCRYZ1 + UTYTWRXZ2	● UTYRCRYZ1				
● UTYRVNYM				● UTYRVNYM				● UTYRVNYM				
● UTYRSRY, UTYRHRY, UTYRSNYM		● UTYRSNYM	● UTYRSRY UTYRHRY UTYRSNYM	● UTYRSRY UTYRHRY + UTYTWRXZ3	● UTYRSRY UTYRHRY	● UTYRSRY UTYRHRY + UTYTWRXZ2	● UTYRSRY UTYRHRY UTYRSNYM					
								● UTYDMMYM1 *3				
								● UTYLNTY				
				● UTYLRHYM								
● UTYLBTYM				● UTYLBTYM	● UTYLBTYH				● UTYLBTYM	● UTYLBTYM		

*1: Available only when the WLAN adapter (UY-TFSXF2) is removed. *2 Available only when the WLAN adapter (UTYTFXSXZ1) is removed. *3 Consult your dealer for conditions of use.

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

Controller Options / Accessories:

Type	Refrigerant	Indoor unit										
		Wall-mounted						Cassette		Duct		
		Designer Series		Standard Series			ECO Series		Compact Series	Circular flow Series	Slim	
		ASYG 07/09/12/14 KGTE	ASYG 07/09/12/14 KETE, KETEB	ASYG 07/09/12/14 KMCE	ASYG 18/24KMTE	ASYH 30/36KMTB	ASYG 09/12 KPCE	ASYG 18/24 KLCA	AUXG 09 to 24 KVLA	AUXG 18 to 54 KRLB	ARXG 09/12/14/18 KLLAP	
Interfaces	MOD-BUS® Converter	● UTYVMSX						● UTYVMSX				
	MOD-BUS® interface	● FGACMBS1Z1						● FGRCMBS1Z1 FGACMBS1Z1				
	KNX® converter	● UTYVKSX						● UTYVKSX				
	KNX® interface	● FGACKNX1Z1						● FGRCCKNX1Z1 FGACKNX1Z1				
WLAN adapter	IR type	● FGIRKNX1Z1							● FGIRKNX1Z1 + UTYLBTYC	● FGIRKNX1Z1 + UTYLBTYM		
	3Wire R/Cline type CN connector type	● UTYTF SXF2							● UTYTF SXZ1			
	3Wire R/Cline type CN connector type	● FGACWIF1Z1						● FGRCWIF1Z2 FGACWIF1Z1				
	IR type	● FGIRWIF1Z1							● FGIRWIF1Z1 + UTYLBTYC	● FGIRWIF1Z1 + UTYLBTYM		
	3Wire R/Cline type CN connector type	● FGACWMP1Z1						● FGRCWMP1Z1 FGACWMP1Z1				
	IR type	● FGIRWMP1Z1							● FGIRWMP1Z1 + UTYLBTYC	● FGIRWMP1Z1 + UTYLBTYM		
	External switch controller	● UTYTERX + UTYTWRXZ2		● UTYTERX + UTYTWB XF2	● UTYTERX + UTYTWRXZ2			● UTYTERX				
Network converter for single-split type	● UTYVTGX + UTYTWRXZ2 or UTYVTGXV + UTYTWRXZ2		● UTYVTGX + UTYTWB XF2 or UTYVTGXV + UTYTWB XF2	● UTYVTGX + UTYTWRXZ2 or UTYVTGXV + UTYTWRXZ2			● UTYVTGX UTYVTGXV					



Indoor unit										
Duct				Floor	Ceiling	Multi-split				
Medium static (Compact)	Medium static (Standard)	High static pressure				BIG	Wall-mounted	Compact cassette	Mini duct	Slim duct
ARXG 12 to 54 KHTAP	ARXG22KMLB, ARXG 24 to 45 KMLA	ARXG 45 / 54KHTB	ARYG 60LHTA	ARYG 72 / 90LHTA	AGYG 09 / 12 / 14 KVCA	ABYG 18 to 54 KRTA	ASYG 22KMTE	AUXG 07KVLA	ARXG 07 to 18 KSLAP	ARXG 07KLLAP
● UTYVMSX				● UTYVMSX	● UTYVMSX*2	● UTYVMSX	● UTYVMSX*1		● UTYVMSX	
● FGRCMBS1Z1 FGACMBS1Z1			● FGRCMBS1Z1	● FGRCMBS1Z1 FGACMBS1Z1	● FGACMBS1Z1				● FGRCMBS1Z1 FGACMBS1Z1	
● UTYVKSX				● UTYVKSX	● UTYVKSX*2	● UTYVKSX	● UTYVKSX*1		● UTYVKSX	
● FGRCNX1Z1 FGACKNX1Z1			● FGRCNX1Z1	● FGRCNX1Z1 FGACKNX1Z1	● FGACKNX1Z1				● FGRCNX1Z1 FGACKNX1Z1	
● FGIRKNX1Z1 + UTYLBTYM			● FGIRKNX1Z1 + UTYLRHYM	● FGIRKNX1Z1 + UTYLBTYH	● FGIRKNX1Z1	● FGIRKNX1Z1 + UTYLBTYH	● FGIRKNX1Z1		● FGIRKNX1Z1 + UTYLBTYM	
● UTYTFXSZ1			● UTYTFNXZ1	● UTYTFXSZ1					● UTYTFXSZ1	
							● UTYTF SXF2			
● FGRCWIF1Z2 FGACWIF1Z1			● FGRCWIF1Z2	● FGRCWIF1Z2 FGACWIF1Z1	● FGACWIF1Z1				● FGRCWIF1Z2 FGACWIF1Z1	
● FGIRWIF1Z1 + UTYLBTYM			● FGIRWIF1Z1 + UTYLRHYM	● FGIRWIF1Z1 + UTYLBTYH	● FGIRWIF1Z1	● FGIRWIF1Z1 + UTYLBTYH	● FGIRWIF1Z1		● FGIRWIF1Z1 + UTYLBTYM	
● FGRCWMP1Z1 FGACWMP1Z1			● FGRCWMP1Z1	● FGRCWMP1Z1 FGACWMP1Z1	● FGACWMP1Z1				● FGRCWMP1Z1 FGACWMP1Z1	
● FGIRWMP1Z1 + UTYLBTYM			● FGIRWMP1Z1 + UTYLRHYM	● FGIRWMP1Z1 + UTYLBTYH	● FGIRWMP1Z1	● FGIRWMP1Z1 + UTYLBTYH	● FGIRWMP1Z1		● FGIRWMP1Z1 + UTYLBTYM	
● UTYTERX					● UTYTERX + UTYTWRXZ3	● UTYTERX	● UTYTERX + UTYTWRXZ2		● UTYTERX	
● UTYVTGX UTYVTGXV			● UTYVTGX UTYVTGXV		● UTYVTGX + UTYTWRXZ3 UTYVTGXV + UTYTWRXZ3	● UTYVTGX UTYVTGXV	● UTYVTGX + UTYTWRXZ2 or UTYVTGXV + UTYTWRXZ2		● UTYVTGX UTYVTGXV	

*1: Available only when the WLAN adapter (UY-TFSXF2) is removed. *2: Available only when the WLAN adapter (UTYTFXSZ1) is removed.

Controller System List (available) for VRF

Controller Options:

Type	Refrigerant	Indoor unit							
		Cassette			Duct				
		One-way flow	Compact Grid type / Standard type	Large type	Low static pressure duct			Medium static pressure	
Circular Flow	Mini (With drain pump)			Slim (With drain pump)		Normal			
		AUXV 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXB 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH	ARXK 004 / 007 / 009 / 012 / 014 / 018 / 024GLGH	ARXD 04GALH	ARXD 007 / 009 / 012 / 014 / 018 / 024 GLEH	ARXA 024 / 030 / 036 / 045 GLEH	
Controllers	Wired remote controller				● UTYRNRZ5				
					● UTYRCRYZ1				
	Simple remote controller	 nonpolar 2-core type polar 3-core type		● UTYRSRY UTYRHRY		● UTYRSRY UTYRHRY UTYRSKY UTYRHKY		● UTYRSRY UTYRHRY	
	Wireless remote controller				● UTYLNHY				
	IR receiver unit	● UTYTRHX		● UTYLBHXD	● UTYTRHX	● UTBYWC	● UTYTRHX	● UTYTRHX	
	Central remote controller				● UTYDCGYZ2				
	Touch panel controller				● UTYDTGYZ1				
	System controller, System controller Lite				● UTYAPGXZ1, UTYALGXZ1				



Indoor unit											
Duct		Floor		Ceiling / Floor	Ceiling	Wall-mounted					
High static pressure	Normal	-	External EEV			-	External EEV	-	External EEV	-	-
ARXC 036 / 072 / 090 / 096 GTEH	ARXC 045 / 060GTEH	AGYA 004 / 007 / 009 / 012 / 014 GCGH	AGYE 004 / 007 / 009 / 012 / 014 GCEH	ABYA 012 / 014 / 018 / 024 GTEH	ABYA 030 / 036 / 045 / 054 GTEH	ASYA 004 / 007 / 009 GCGH	ASYE 004 / 007 / 009 GCEH	ASYA 012 / 014GCGH	ASYE 012 / 014GCEH	ASYA 018 / 024GCEH	ASYA 030 / 034GTEH

●
UTYRNRYZ5

●
UTYRCRYZ1

●
UTYRSRY
UTYRHRY

●
UTYRSRY
UTYRHRY
UTYRSKY
UTYRHKY

●
UTYRSRY
UTYRHRY

●
UTYRSRY
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UTYRHRY

●
UTYLNHY

●
UTYTRHX

●
UTBYWC







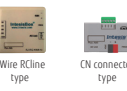


●
UTYDCGYZ2

●
UTYDTGYZ1

●
UTYAPGXZ1, UTYALGXZ1

Controller System List (available) for VRF

Controller Options:

Type	Refrigerant	Indoor unit							
		Cassette			Duct				
		One-way flow	Compact Grid type / Standard type	Large type Circular Flow	Low static pressure duct			Medium static pressure Normal	
					Mini (With drain pump)	Slim (With drain pump)			
	AUXV 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXB 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH	ARXK 004 / 007 / 009 / 012 / 014 / 018 / 024GLGH	ARXD 04GALH	ARXD 007 / 009 / 012 / 014 / 018 / 024GLEH	ARXA 024 / 030 / 036 / 045GLEH		
Interfaces		● UTYABGXZ1, UTYVBGX							
		● FGACBAC1Z1					● FGACBAC1Z1		
	Network converter for LON-WORKS™ 	● UTYVLGX							
	MODBUS® Converter 	● UTYVMSX					● UTYVMSX		
		● UTYVMGX FGTLMBS16Z1							
	MODBUS® interface 	● FGACMBS1Z1					● FGRCMBS1Z1	● FGACMBS1Z1	
	KNX® converter 	● UTYVKSX					● UTYVKSX		
		● UTYVKGX FGTLKNX16Z1							
	KNX® interface 	● FGACKNX1Z1					● FGRCCKNX1Z1	● FGACKNX1Z1	
		● IR type	● FGIRKNX1Z1 + UTYTRHX	● FGIRKNX1Z1	● FGIRKNX1Z1 + UTYLBHXD	● FGIRKNX1Z1 + UTYTRHX	● FGIRKNX1Z1 + UTYBYWC	● FGIRKNX1Z1 + UTYTRHX	
	WLAN adapter 	● UTYTFXSZ1							
		● FGACWIF1Z1					● FGRCWIF1Z2		● FGACWIF1Z1
		● IR type	● FGIRWIF1Z1 + UTYTRHX	● FGIRWIF1Z1	● FGIRWIF1Z1 + UTYLBHXD	● FGIRWIF1Z1 + UTYTRHX	● FGIRWIF1Z1 + UTYBYWC	● FGIRWIF1Z1 + UTYTRHX	
		● FGACWMP1Z1					● FGRCWMP1Z1		● FGACWMP1Z1
		● IR type	● FGIRWMP1Z1 + UTYTRHX	● FGIRWMP1Z1	● FGIRWMP1Z1 + UTYLBHXD	● FGIRWMP1Z1 + UTYTRHX	● FGIRWMP1Z1 + UTYBYWC	● FGIRWMP1Z1 + UTYTRHX	
	External switch controller 	● UTYTERX							



Indoor unit											
Duct		Floor		Ceiling / Floor	Ceiling	Wall-mounted					
High static pressure	Normal	-	external EEV			-	external EEV	-	external EEV	-	-
ARXC 036 / 072 / 090 / 096 GTEH	ARXC 045 / 060GTEH	AGYA 004 / 007 / 009 / 012 / 014 GCGH	AGYE 004 / 007 / 009 / 012 / 014 GCEH	ABYA 012 / 014 / 018 / 024 GTEH	ABYA 030 / 036 / 045 / 054 GTEH	ASYA 004 / 007 / 009 GCGH	ASYE 004 / 007 / 009 GCEH	ASYA 012 / 014GCGH	ASYE 012 / 014GCEH	ASYA 018 / 024GCEH	ASYA 030 / 034GTEH
● UTYABGXZ1, UTYVBGX											
● FGACBAC1Z1					● FGACBAC1Z1						● FGACBAC1Z1
● UTYVLGX											
					● UTYVMSX						● UTYVMSX
● UTYVMGX FGTLMBS16Z1											
● FGACMBS1Z1	● FGRCMBS1Z1				● FGACMBS1Z1					● FGRCMBS1Z1	● FGACMBS1Z1
					● UTYVKSX						● UTYVKSX
● UTYVKGX FGTLKNX16Z1											
● FGACKNX1Z1	● FGRCKNX1Z1				● FGACKNX1Z1					● FGRCKNX1Z1	● FGACKNX1Z1
● FGIRKNX1Z1 + UTBYWC	● FGIRKNX1Z1 + UTYTRHX					● FGIRKNX1Z1					
● UTYTFSXZ1					● UTYTFSXZ1						● UTYTFSXZ1
● FGACWIF1Z1	● FGRCWIF1Z2				● FGACWIF1Z1					● FGRCWIF1Z2	● FGACWIF1Z1
● FGIRWIF1Z1 + UTBYWC	● FGIRWIF1Z1 + UTYTRHX					● FGIRWIF1Z1					
● FGACWMP1Z1	● FGRCWMP1Z1				● FGACWMP1Z1					● FGACWMP1Z1	● FGACWMP1Z1
● FGIRWMP1Z1 + UTBYWC	● FGIRWMP1Z1 + UTYTRHX					● FGIRWMP1Z1					
● UTYTERX											

Optional Parts Overview

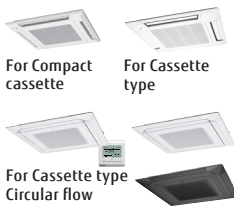
For Split & Multi-split, VRF

A variety of optional parts are available to enable installation of the selected indoor unit properly according to the environment.

Optional Parts For Cassette



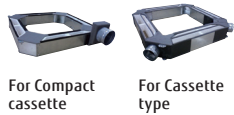
Human sensor kit
A built-in thermo sensor monitors and controls room temperature accurately.



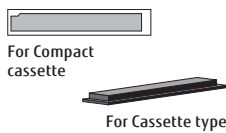
Cassette grille
A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.



Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*

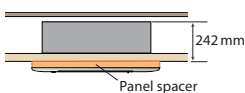


Fresh air intake kit
Fresh air can be taken in by a fan connected to an external control unit.



Air outlet shutter plate
Airflow directions can be changed to 3 directions using the Air outlet shutter plate depending on the installation location.

Wide Panel
When a cassette type is installed in a narrow space in the ceiling, the wide panel fills in that space.

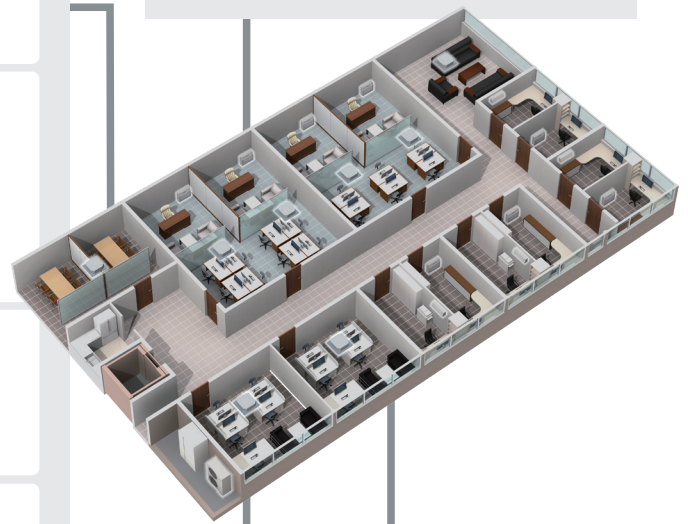


Panel spacer
If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

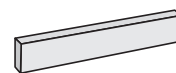
Optional Parts For V-IV



Pressure sensor kit
The height difference of the pressure sensor kit can be extended up to 110 m.



Optional Parts For Floor



Half concealed kit
Used to half conceal a floor type indoor unit in the wall.



Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



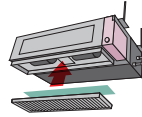
Optional Parts For Duct & Ceiling



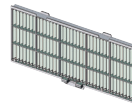
Auto louver grille kit
The optional clean-looking flat Auto louver grille blends into any interior and provides a comfortable airflow.



Remote sensor unit
The remote sensor provides additional convenience.



Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



Long-life filter
Captures grit and dust. Long-life design with consideration of running costs.



Flange
Flanges are used when connecting a medium static pressure duct type and a ceiling type with air intake and exhaust ducts.



Drain pump unit
Drains water that has accumulated during operation.

Connection Parts



For wall-mounted type

Communication kit
Required for a wall-mounted type when the External connect kit set or a Wired remote controller is connected to the indoor unit.



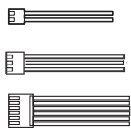
For wall-mounted type

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



For Duct type and Cassette type

External input and output PCB box & bracket
Box and bracket for installing the External input and output PCB.



External connect kit & set
Connect the printed circuit board (PCB) to external devices.



Connection Units
Connection units are available to separate the pipes when connecting multiple indoor units in a Multi-split type or VRF system.

*Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganism, but do not prevent infection. Specifications subject to change without notice, images are for illustration purposes only

Silver Ion Filter

UTRFA165 / UTRFA133 / UTRFA035 / UTDHFAA / UTDHFRA / UTDHFHTA / UTDHFHTB / UTDHFHTC / UTDHFNC / UTDHFNB / UTDHFNA / UTDHFND / UTDHFKB / UTDHFKA



NEW



For Wall mounted / Floor
UTRFA165 / UTRFA133
UTRFA035

For Cassette
UTDHFAA / UTDHFRA

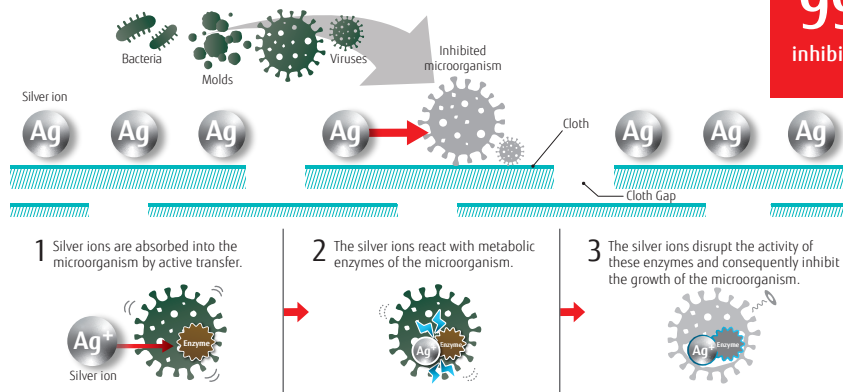
For Duct
UTDHFTA / UTDHFHTB
UTDHFTC / UTDHFNC
UTDHFNB / UTDHFNA
UTDHFND / UTDHFKB
UTDHFKA

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.

(Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganism, but do not prevent infection.)

The silver ion filter inhibits the activities of viruses*1, bacteria*2 and molds*3 trapped on the filter.

(Only effective when the microorganism is trapped on the filter with dust or droplet)



*1 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0408 [Test virus] Escherichia coli phage Qbeta NBRC 20012 (1 type) [Test Method] Based on the antiviral test method for textile products (JIS L 1922) [Test results] Inhibited by at least 99% in 24 hours. Not tested to prevent transmission of SARS-CoV-2.

*2 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0409 [Test bacteria] Escherichia coli NBRC 3972 (1 type) [Test Method] Based on the determination of antibacterial activity and efficacy of textile products (JIS L 1902) [Test results] The growth of the test bacteria was inhibited by 24 hours testing

*3 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0410 [Test fungi] Aspergillus Niger NBRC 105649 and other fungi (3 types) [Test Method] Based on the test for fungus resistance (JIS Z 2911) [Test results] The growth of the fungus was inhibited by 28 days testing

The filter is easily removable* and handWashable.

(*Wall mounted and floor models only)



*4 HandWashing or vacuuming by 3 months is recommended. Cleaning frequency varies depending on the environment of use.

Specifications

Model name		For Wall mounted / Floor			for Cassette	
		UTRFA165	UTRFA133	UTRFA035	UTDHFAA	UTDHFRA
Net Dimension (H × W × D)	mm	35 × 210 × 6	50 × 364 × 6	43 × 272 × 6	350 × 125 × 6	550 × 136 × 6
Weight	g	2	2	2	7	23
Quantity		2	2	2	1	1

Model name		for Duct								
		UTDHFTA	UTDHFTB	UTDHFTC	UTDHFNC	UTDHFNB	UTDHFNA	UTDHFND	UTDHFKB	UTDHFKA
Net Dimension (H × W × D)	mm	290 × 70 × 6	390 × 70 × 6	290 × 70 × 6 390 × 70 × 6	620 × 88 × 6	420 × 88 × 6	620 × 88 × 6	500 × 79 × 6	420 × 125 × 6	620 × 108 × 6
Weight	g	6	8	10	8	10	16	12	16	20
Quantity		2	2	3	1	2	2	2	2	2

Auto louver grille kit

UTDGXTAW / UTDGXTBW / UTDGXTCW

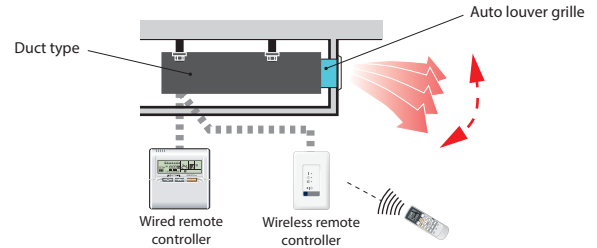


The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

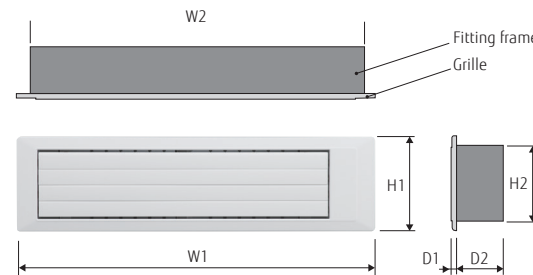


Flexible Control

- The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.
- **Vertical auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- **Auto-closing louver**
The louvers will automatically close when the indoor unit stops operating.



Dimensions



Unit: mm

Model name	W1	W2	H1	H2	D1	D2
UTDGXTAW	683	645	180	148	9	84
UTDGXTBW	883	845				
UTDGXTCW	1,083	1,045				

Specifications

Model name			UTDGXTAW	UTDGXTBW	UTDGXTCW
Applicable indoor unit			ARYG07 / 09LLTA ARYG12 / 14LLTB ARXG09 / 12 / 14KLLAP ARYG07 / 09 / 12 / 14LSLAP ARXD007 / 009 / 012 / 014GLEH (for VRF) ARXK004 / 007 / 009 / 012 / 014GLEH (for VRF) ARXD04GALH (for VRF)	ARYG18LLTB ARXG18KLLAP ARYG18LSLAP ARXD018GLEH (for VRF) ARXK018GLEH (for VRF)	ARXD024GLEH (for VRF) ARXK024GLEH (for VRF)
Power supply			Connecting with Control box of indoor unit		
Fixing Auto louver grille			Screwed to Flange or Square duct		
Extension Square duct limit			1.0 m (Max. duct length between indoor unit and Auto louver grille)		
Net Dimensions (H × W × D)		mm	180 × 683 × (84 + 9)	180 × 883 × (84 + 9)	180 × 1,083 × (84 + 9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver motor			Stepping motor		
Accessories			Fitting Flame, etc.		
Operating range	Cooling	°C	18 to 32		
		% RH	80 % or less		
	Heating	°C	16 to 30		

Specifications subject to change without notice, images are for illustration purposes only

Pressure sensor kit

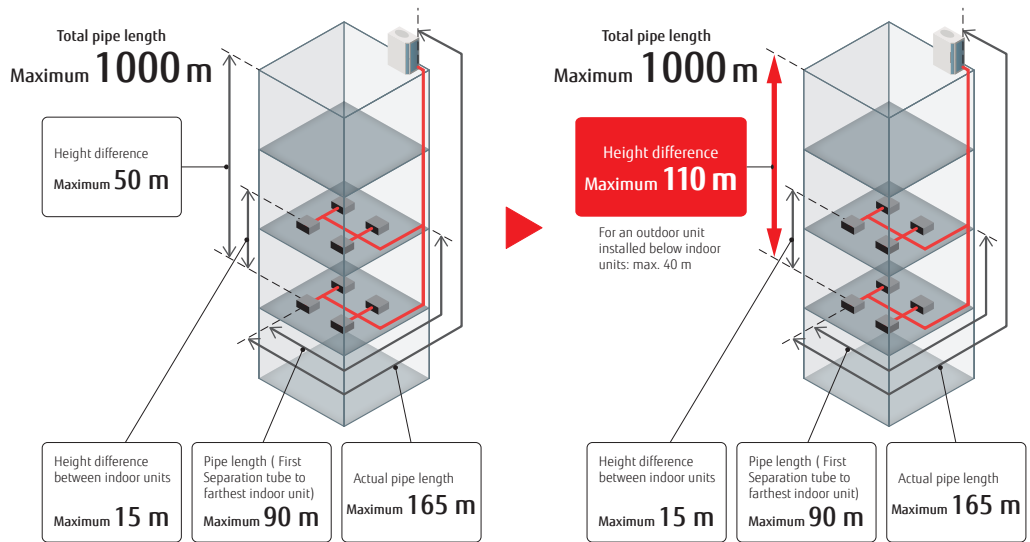
UTYSPWX



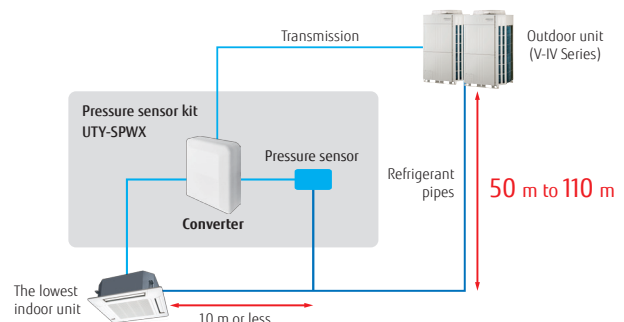
Design flexibility

The height difference between the outdoor unit and the indoor unit is normally 50 m for the V-IV Series, but can be extended to 110 m by installing the Pressure sensor kit.

(Can only be connected to the V-IV Series. Also, it can only be connected to outdoor units using outdoor unit software compatible with the product.)



System overview



Pressure sensor kit










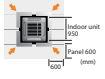
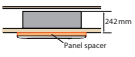

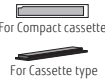


Pressure sensor kit (Converter)	Refrigerant pressure sensor	Joint pipe

Specifications

Model name	UTYSPWX
Power supply	9 to 16 V DC
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200











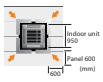
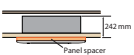

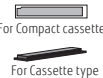


Optional Parts List for Split / Multi-split

Type	Refrigerant	Indoor unit					
		Cassette		Duct			
		4Way flow Compact	Circular flow	Slim	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure
		 AUXG 09 to 24 KVLA	AUXG 18 to 54 KRLB	ARXG 09 / 12 / 14 / 18 KLLAP	ARXG 12 to 54 KHTAP	ARXG 22 / 24 / 30 / 36 / 45 KMLA	ARXG45 / 54KHTB
					ARYG60LHTA		
Human sensor kit			● UTYSHZXC				
Remote sensor unit	 The remote sensor provides additional convenience.			● UTYXSZX			
Cassette grille	 UTGUFYFW UTGUKYAW UTGUFYDW UTGUKYCW UTGUKYAB	● UTGUFYFW	● UTGUKYAW, UTGUKYCW, UTGUKYAB				
Auto louver grille kit				● UTDGXTAW (09/12/14) UTDGXTBW (18)			
Long-life filter					● UTDLFNA (36/45/54) UTDLFNB (18/22/24/30) UTDLFNC (12/14)	● UTDLF25NA	● UTDLF60KA (45 / 54)
Flange						● UTDSF045T UTDRF204	
Drain pump unit						● UTZPX1NBA	
Wide Panel	 Indoor unit 600 Panel 600 (mm)		● UTGAKXAW				
Panel spacer	 242mm Panel spacer		● UTGBKXAW				
Fresh air intake kit	 For Compact cassette For Cassette type	● UTZVXAA	● UTZVXRA				
Air outlet shutter plate	 For Compact cassette For Cassette type	● UTRYDZB	● UTRYDZK				
Half concealed kit	 Used to half conceal a floor type indoor unit in the wall.						
L-type piping kit							



Duct		Indoor unit				
Big	Floor	Ceiling	Wall-mounted	Multi-split		
				4Way flow Compact cassette	Mini duct	Slim duct
	AGYG 09 / 12 / 14 KVCA	ABYG 18 to 54 KRTA	ASYG 09 / 12 KPCE	AUXG07KVLA	ARXG 07 / 09 / 12 / 14 / 18 KSLAP	ARXG07KLLAP
ARYG72 / 90LHTA						
● UTYXSZX					● UTYXSZX	
				● UTGUFYFW (KVLA), UTGUFYDW (LVLA)		
					● UTDGXTAW (07 / 09 / 12 / 14), UTDGXTBW (18)	
● UTDLFKA						
● UTZPX1NAB		● UTRDPB24T				
				● UTZVXAA		
				● UTRYDZB		
	● UTRSTA					
		● UTPFX24A (18/22/24) UTPFX35A (30 / 36 / 45 / 54)				

Optional Parts List for VRF

Type	Refrigerant 	Indoor unit					
		Cassette			Duct		
		One-way flow	Compact grid type / Standard type	Large type	Low static pressure duct		
				Circular Flow	Mini (With drain pump)	Slim (With drain pump)	
		AUXV 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXB 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH	ARXK 004 / 007 / 009 / 012 / 014 / 018 / 024GLGH	ARXD 04GALH	ARXD 007 / 009 / 012 / 014 / 018 / 024 GLEH
Human sensor kit				● UTYSHZXC			
Remote sensor unit					● UTYXSZX		
Cassette grille		● UTGUNYAW UTGUNYBW	● UTGUFYEW UTGUFYCW	● UTGUKYCW UTGUKYAB			
Auto louver grille kit					● UTDGXTAW, UTDGXTBW (18), UTDGXTCW (24)		
Long-life filter							
Flange							
Drain Pump Unit							
Wide Panel				● UTGAKXAW			
Panel spacer				● UTGBKXAW			
Fresh air intake kit*1			● UTZVXAA	● UTZVXRA			
Air outlet shutter plate:			● UTRYDZB	● UTRYDZK			
Half concealed kit							
Pressure sensor kit							



Indoor unit											Outdoor unit	
Medium static pressure	Duct		Floor				Ceiling	Wall-mounted				V-IV Series
	High static pressure	Normal	-	external EEV	Floor / Ceiling	-		external EEV	-	-		
ARXA 024 / 030 / 036 / 045 GLEH	ARXC 036 / 072 / 090 / 096 GTEH	ARXC 045 / 060GTEH	AGYA 004 / 007 / 009 / 012 / 014 GCGH	AGYE 004 / 007 / 009 / 012 / 014 GCEH	ABYA 012 / 014 / 018 / 024 GTEH	ABYA 030 / 036 / 045 / 054 GTEH	ASYA 004 / 007 / 009 012 / 014 GCGH	ASYE 004 / 007 / 009 012 / 014 GCEH	ASYA 018 / 024GCEH	ASYA 030 / 034GTEH	AJY 072 / 090 / 108 / 126 / 144 / 162 LALDH	
	● UTYXSZX											
● UTDLF25NA	● UTDLF60KA (036 / 045 / 060)											
● UTDSF045T UTDRF204												
● UTZPX1NBA						● UTRDPB24T						
			● UTRSTA									
											● UTYSPWX	

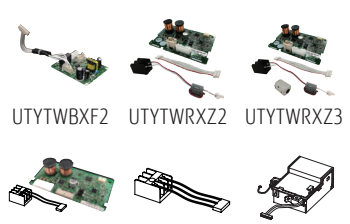
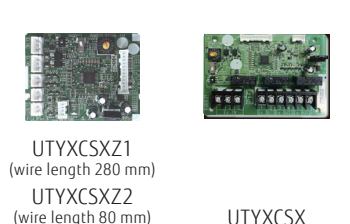
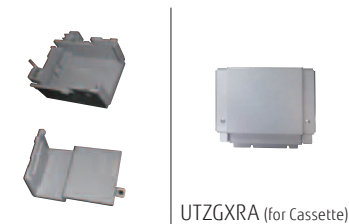

Inputs / Outputs Lists for Split / Multi-split

External input and output function / External connect kit / communication kit

Type	Refrigerant	Indoor unit									
		Wall-mounted					Cassette		Duct		
		Designer Series		Standard Series			Compact Series	Circular flow Series	Slim	Medium static (Compact)	Medium static (Standard)
		ASYG 07/09/12/14 KGTE	ASYG 07/09/12/14 KETE	ASYG 07/09/12/14 KMCE	ASYG 18/24KMTE	ASYH 30/36KMTB	AUXG 09 to 24 KVLA	AUXG 18 to 54 KRLB	ARXG 09/12/14/18KLLAP	ARXG 12 to 54 KHTAP	ARXG 22KMLB, ARXG24 to 45KMLA
Input	Operation / Stop	●○ UTYXCSXZ2 + UTYXWZX	●○ UTYXCSXZ2 + UTYXWZXZ5				● PCB Terminal or ●○ UTYXCSX + UTZGXRA	● PCB Terminal or ●○ UTYXCSX + UTZGXRA	● PCB Terminal	● PCB Terminal or ●○ UTYXCSX + UTZGXNA	● PCB Terminal
	Forced stop	●○ UTYXCSXZ2 + UTYXWZX	●○ UTYXCSXZ2 + UTYXWZXZ5				● PCB Terminal	● PCB Terminal	● PCB Terminal	● PCB Terminal	
	Forced Thermostat off	●○ UTYXCSXZ2 + UTYXWZX	●○ UTYXCSXZ2 + UTYXWZXZ5		●○ UTYXCSXZ2 + UTYXWZXZ5		●○ UTYXCSX + UTZGXRA	●○ UTYXCSX + UTZGXRA		● UTYXCSX	
	Low noise mode operation										
	Outdoor unit operation peak control										
Output	Operation status	○ UTYXCSXZ2 + UTYXWZX	○ UTYXCSXZ2 + UTYXWZXZ5	● UTYTWBXF2 + UTYXWZXZ5	○ UTYXCSXZ2 + UTYXWZXZ5		● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG	● UTYXWZXZG or ○ UTYXCSX + UTZGXNA	● UTYXWZXZG
	Error status	○ UTYXCSXZ2 + UTYXWZX	○ UTYXCSXZ2 + UTYXWZXZ5	● UTYTWBXF2 + UTYXWZXZ5	○ UTYXCSXZ2 + UTYXWZXZ5		● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG or ○ UTYXCSX + UTZGXRA		● UTYXWZXZG or ○ UTYXCSX + UTZGXNA	
	Compressor status										
	Indoor unit fan operation status	○ UTYXCSXZ2 + UTYXWZX	○ UTYXCSXZ2 + UTYXWZXZ5		○ UTYXCSXZ2 + UTYXWZXZ5		● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG	● UTYXWZXZG or ○ UTYXCSX + UTZGXNA	● UTYXWZXZG
	Auxiliary heater output						● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG or ○ UTYXCSX + UTZGXRA	● UTYXWZXZG	● UTYXWZXZG or ○ UTYXCSX + UTZGXNA	● UTYXWZXZG

*1: Included in Fresh air intake kit (UTZVXAA or UTZVXRA) *2: Functionality for installation in a server room

For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

<p>Communication kit</p>  <p>UTYTWBXF2 UTYTWRXZ2 UTYTWRXZ3 UTYTWRX UTYXWNX UTYXCBXZ2</p>	<p>External input and output PCB</p>  <p>UTYXCSXZ1 (wire length 280 mm) UTYXCSXZ2 (wire length 80 mm) for Wall-mounted type UTYXCSX for Duct and Cassette types</p>	<p>External input and output PCB box</p>  <p>UTZGXXB UTZGXRA (for Cassette) UTZGXEA (for Ceiling)</p>	<p>External input and output PCB bracket</p>  <p>UTZGXNA</p>
--	---	--	--



Indoor unit			Multi-split						Outdoor unit	
Duct		Big	Floor	Ceiling	Wall-mounted	Mini duct	Slim duct	Compact cassette		
High static pressure										
ARXG 45 / 54KHTB			AGYG 09 / 12 / 14 KVCA	ABYG 18 / 22 / 24 / 30 / 36 / 45 / 54KRTA	ASYG 22KMTE	ARXG 07 / 09 / 12 / 14 / 18 KSLAP	ARXG 07KLLAP	AUXG 07KVLTA	AOYG 30 to 54 KBTB AOYG 36 to 54 KRTA	
	ARYG 60LHTA	ARYG 72 / 90LHTA								AOYG 72 / 90LRLA
● PCB Terminal or ○ UTYXCSX + UTZGXEA	● UTDECSSA	● PCB Terminal or ○ UTYXCSX	● UTYXWZXZ5	● PCB Terminal or ○ UTYXCSX + UTZGXEA	● UTYXCSXZ2 + UTYXWZXZ5	● PCB Terminal				
● PCB Terminal	● UTDECSSA	● PCB Terminal	● UTYXWZXZ5	● PCB Terminal	● UTYXCSXZ2 + UTYXWZXZ5	● PCB Terminal				
● UTYXCSX + UTZGXEA	● UTDECSSA	● UTYXCSX	● UTYXWZXZ5	● UTYXCSX + UTZGXEA	● UTYXCSXZ2 + UTYXWZXZ5					
									● UTYXWZXZ3	
									● UTYXWZXZ3	
● UTYXWZXZG or ○ UTYXCSX + UTZGXEA	○ UTDECSSA	● UTYXWZXZG or UTYXCSX	● UTYXWZXZ5	● UTYXWZXZG or ○ UTYXCSX + UTZGXEA	● UTYXCSXZ2 + UTYXWZXZ5	● UTYXWZXZG				
● UTYXWZXZG or ○ UTYXCSX + UTZGXEA			● UTYXWZXZ5	● UTYXWZXZG or ○ UTYXCSX + UTZGXEA	● UTYXCSXZ2 + UTYXWZXZ5				● UTYXWZXZ3	
									● UTYXWZXZ3	
● UTYXWZXZG or ○ UTYXCSX + UTZGXEA	● UTDECSSA	● UTYXWZXZG or UTYXCSX	● UTYXWZXZ5	● UTYXWZXZG or ○ UTYXCSX + UTZGXEA	● UTYXCSXZ2 + UTYXWZXZ5	● UTYXWZXZG				
● UTYXWZXZG or ○ UTYXCSX + UTZGXEA	● UTDECSSA	● UTYXWZXZG or UTYXCSX		● UTYXWZXZG or ○ UTYXCSX + UTZGXEA		● UTYXWZXZG				

●: Dry Contact ○: Apply Voltage

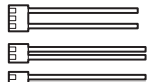
Communication system

External connect kit

For indoor unit



UTYXWZX



UTYXWZXZ5



UTYXWZXZG

For outdoor unit



UTYXWZXZ2



UTYXWZXZ3



UTYXWZXZ4

Specifications subject to change without notice, images are for illustration purposes only

External control set


For indoor unit



UTYXWZXZ5

Inputs / Outputs List for VRF

External input and output function / External connect kit

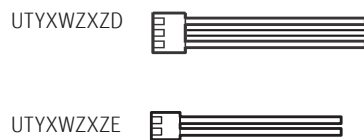
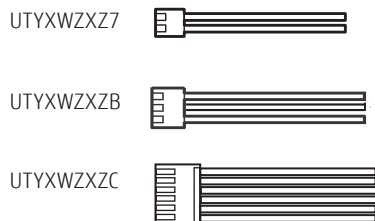
Type	Refrigerant 	Indoor unit								
		Cassette			Duct				Floor	
		One-way flow	Compact grid type / Standard type	Large type	Low static pressure		Medium static	High static	-	EEV external
				Mini (With drain pump)	Slim (With drain pump)	Normal	Normal			
		AUXV 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXB 004 / 007 / 009 / 012 / 014 / 018 / 024GLEH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH	ARXK 004 / 007 / 009 / 012 / 014 / 018 / 024GLGH	ARXD 007 / 009 / 012 / 014 / 018 / 024GLEH, ARXD 04GALH	ARXA 024 / 030 / 036 / 045 GLEH	ARXC 036 / 045 / 060 / 072 / 090 / 096 GTEH	AGYA 004 / 007 / 009 / 012 / 014 GCGH	AGYE 004 / 007 / 009 / 012 / 014 GCEH
Input	Operation / Stop	● UTYXWZXZD ○ UTYXWZXZB								
	All On / All Off									
	Batch stop									
	Forced stop	● UTYXWZXZD ○ UTYXWZXZB								
	Emergency stop	● UTYXWZXZD ○ UTYXWZXZB								
	Forced thermostat off	● UTYXWZXZE ○ UTYXWZXZ7								
	Low noise mode operation									
	Cooling / Heating priority									
	Outdoor unit operation peak control									
	Power usage information from electricity meter									
Output	Operation status	● UTYXWZXZC								
	Error status	● UTYXWZXZC								
	Indoor unit fan operation status	● UTYXWZXZC								
	Auxiliary heater output	● UTYXWZXZC								
	Base pan heater									

*2: The Touch panel controller has the functions of dry contact and voltage application, but the external connection kit described above is not necessary because the touch panel controller has an external input terminal block.

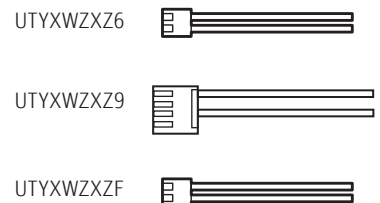
Communication system

External connect kit

For indoor unit



For outdoor unit





Indoor unit						Outdoor unit					controller	Other
Floor / Ceiling		Wall-mounted				J-IVL	J-IV	J-IVS	V-IV	VR-IV	Central remote controller	RB unit
		-	EEV external	-	-							
ABYA 012 / 014 / 018 / 024GTEH	ABYA 030 / 036 / 045 / 054GTEH	ASYA 004 / 007 / 009 012 / 014 GCGH	ASYE 004 / 007 / 009 012 / 014 GCEH	ASYA 018 / 024GCEH	ASYA 030 / 034GTEH	AJY 072 / 090 / 108 / 126 / 144 / 162 LELDH	AJY 040 / 045 / 054 LBLDH, AJY 040 / 045 / 054 LELDH	AJY 040 / 045 / 054 LCLDH	AJY 072 / 090 / 108 / 126 / 144 / 162 LALDH	AJY 072 / 090 / 108 / 126 / 144 GALDH	UTYDCGYZ2	UTPRX01AH UTPRX01BH UTPRX01CH UTPRX04BH UTPRX08AH UTPRX12AH
● UTYXWZXZD ○ UTYXWZXZB												
											● UTYXWZXZ7 ○ UTYXWZXZ8	
						● UTYXWZXZ6						
● UTYXWZXZD ○ UTYXWZXZB												
● UTYXWZXZD ○ UTYXWZXZB						● UTYXWZXZ6					● UTYXWZXZ7 ○ UTYXWZXZ8	
● UTYXWZXZE ○ UTYXWZXZ7												
						● UTYXWZXZ6						
						● UTYXWZXZ6					● UTYXWZXZ6 ○ UTYXWZXZ8	
						● UTYXWZXZ6						
						● UTYXWZXZF						
● UTYXWZXZC						○ UTYXWZXZ6					○ UTYXWZXZA	
● UTYXWZXZC						○ UTYXWZXZ6					○ UTYXWZXZA	
● UTYXWZXZC												
						● UTYXWZXZ9			● UTYXWZXZ9			

● : Dry Contact ○ : Apply Voltage

For RB unit



Central remote controller



For Touch panel controller



Separation tube



For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

Separation tube			Branch box
<p>UTPSX236A / UTPSX254A For 3-phase simultaneous multi-split</p> <p>UTPSX272A For Simultaneous multi-split Twin / Triple / Double Twin</p>	<p>UTPSX354A For 3-phase simultaneous multi-split</p> <p>UTPSX372A For Simultaneous multi-split Twin / Triple / Double Twin</p>	<p>UTPSX248A For 8-unit multi-split</p> <p>Liquid pipe</p> <p>Gas pipe</p>	<p>UTPPY03A UTPPY02A For 8-unit multi-split</p> <p>3-zone type 2-zone type</p>



for VRF

Separation tube			
<p>UTPAX054A</p> <p>Gas pipe</p> <p>Liquid pipe</p>	<p>UTPAX090A</p> <p>Gas pipe</p> <p>Liquid pipe</p>	<p>UTPAX180A</p> <p>Gas pipe</p> <p>Liquid pipe</p>	<p>UTPAX567A</p> <p>Gas pipe</p> <p>Liquid pipe</p>
<p>UTPBX090A</p> <p>Suction Gas pipe</p> <p>Discharge Gas pipe</p> <p>Liquid pipe</p>	<p>UTPBX180A</p> <p>Suction Gas pipe</p> <p>Discharge Gas pipe</p> <p>Liquid pipe</p>	<p>UTPBX567A</p> <p>Suction Gas pipe</p> <p>Discharge Gas pipe</p> <p>Liquid pipe</p>	<p>UTPLX180A For DX kit</p>

Header

<p>UTRH0906L / UTRH1806L</p> <p>Gas pipe</p> <p>Liquid pipe</p>	<p>UTRH0908L / UTRH1808L</p> <p>Gas pipe</p> <p>Liquid pipe</p>	<p>UTPJ0906A / UTPJ1806A</p> <p>Suction gas pipe</p> <p>Discharge gas pipe</p> <p>Liquid pipe</p>	<p>UTPJ0908A / UTPJ1808A</p> <p>Suction gas pipe</p> <p>Discharge gas pipe</p> <p>Liquid pipe</p>
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Outdoor unit branch kit	Separation tube for RB unit		
<p>UTPCX567A</p> <p>Gas Pipe</p> <p>Liquid Pipe</p>	<p>UTPDX567A</p> <p>Suction Gas Pipe</p> <p>Discharge Gas Pipe</p> <p>Liquid Pipe</p>	<p>UTPEX060A</p> <p>Gas Pipe</p> <p>Liquid Pipe</p>	<p>UTPEX096A</p> <p>Gas Pipe</p> <p>Liquid Pipe</p>



for VRF

EV kit

Model name ≧ 09: UTREV09XB
 Model name ≧ 12: UTREV14XB
 for compact wall-mounted type



RB unit

UTPRX01AH / UTPRX01BH / UTPRX01CH
Single type

UTPRX04BH
Multi-split type

UTPRX08AH
Multi-split type

UTPRX12AH
Multi-split type

Specifications

Separation tube

Model name	UTPAX054A	UTPAX090A	UTPAX180A	UTPAX567A
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	UTPBX090A	UTPBX180A	UTPBX567A
Total cooling capacity of indoor unit (kW)	28.0 or less	28.1 to 56.0	56.1 or more

Header

Model name	3-6 Branches	UTRH0906L	UTRH1806L
	3-8 Branches	UTRH0908L	UTRH1808L
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Model name	3-6 Branches	UTPJ0906A	UTPJ1806A
	3-8 Branches	UTPJ0908A	UTPJ1808A
Total cooling capacity of indoor unit (kW)		28.0 or less	28.1 to 56.0

Outdoor unit branch kit

Model name	UTPCX567A (for V-IV)	UTPDX567A (for VR-IV)
Number of outdoor units	2 outdoor units	1
	3 outdoor units	2

EV kit

Model name	UTREV09XB		UTREV14XB	
Application model	ASYE004GCEH ASYE007GCEH ASYE009GCEH	AGYE004GCEH AGYE007GCEH AGYE009GCEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB unit

Type	Single type			Multi-split type			
Model name	UTPRX01AH	UTPRX01BH	UTPRX01CH	UTPRX04BH	UTPRX08AH	UTPRX12AH	
Power source	V / Ø / Hz						
	230 / 1 / 50						
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 56.1*1	Q ≤ 72.0	Q ≤ 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 18.0	Q ≤ 8.0	Q ≤ 8.0
Maximum Connectable Indoor Units per Branch		3	8	8	8	7	7
Dimensions (H × W × D)	mm	198 × 298 × 268			260 × 658 × 428	298 × 660 × 618	298 × 990 × 618

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

Notice regarding specifications

I.U. = Indoor Unit O.U. = Outdoor Unit Qu = Quiet * = Not decided yet

- Specifications and design are subject to change without notice for future improvement.
- For further details, check with our authorized dealers.
- Cooling and heating capacities are based on the following conditions:

Cooling	Indoor temp. : 27°C DB/19°C WB Outdoor temp.: 35°C DB/24°C WB	Heating	Indoor temp. : 20°C DB Outdoor temp.: 7°C DB/6°C WB
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- Performance tests are conducted in accordance with EN14511.
- Seasonal efficiency tests are conducted in accordance with EN14825.
- Sound power tests are conducted in accordance with EN12102.

UK Capacities are based upon the following

- UK Cooling (Total / Sensible) 23°C DB/16°C WB Indoor 30°C Outdoor
- UK Heating 20°C Indoor, 0°C Outdoor



Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certification number: 01 100 075229
ISO 14001 Certification number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.



ISO 9001 Certification number: 01 100 79269
ISO 14001 Certification number: CNB312244-UK

Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.



ISO 9001 Certification number: 15917020073R5M
ISO 14001 Certification number: 15918E20021R5M

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