



PRODUCT LINEUP

CONTROL SYSTEM & OPTIONAL PARTS



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For VRF



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SPLIT



MULTI SPLIT



SMALL VRF



LARGE VRF

CONTROL SYSTEM OVERVIEW

for SPLIT & MULTI SPLIT

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

Air Conditioning Individual Control



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

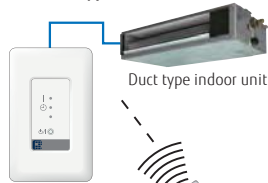


Wireless Remote Controller
Simple and sophisticated operations with a choice of 4 daily timers



Simple Remote Controller
Compact remote controller provides access to basic functions

For Duct type



IR Receiver Unit

Wireless Remote Controller included with

For Cassette type



IR Receiver Unit

Necessary to control for all duct type by Wireless Remote Controller



Air Conditioning Centralised Control



Central Remote Controller For 5 & 6 Rooms Multi

Central Remote Controller allows individual and central control



Convertor/Adaptor For external device

MODBUS® Convertor
For indoor unit
UTYVMSX



MODBUS® Interface
FJRCMBS1



KNX® Convertor
For indoor unit
UTYVKSX



KNX® Interface
FJRCKNX1i



Online Control (Adopting Wireless LAN Interface)

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



Wireless LAN Interface

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



FGLair™

Download Free



User friendly app

User friendly screen display facilitates easy operation.




- Individual AC name display
- ON/OFF button
- Room temperature
- Temperature setting
- Operation mode


CONTROL SYSTEM OVERVIEW for VRF

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.


Air Conditioning Individual Control




Wired Remote Controller (Touch panel)
UTYRNRZY2




Wired Remote Controller
UTYRLRY




Simple Remote Controller
UTYRSRY
UTYRHRY
Without operation mode



Wireless Remote Controller
UTYLNHY



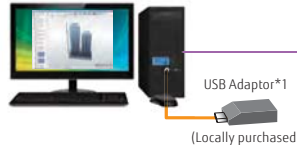
For Duct



For Cassette

IR Receiver Unit
UTBYWC For Duct type
UTYLRHYB1 For Cassette type

Air Conditioning Centralised Control



Remote/
Monitoring side


Internet or
Public
Telephone
Line

USB Adaptor*1
(Locally purchased)

System Controller (Software)
UTYAPGXZ1/UTYALGXZ1 (Lite edition)

Max.
Controllable
1600^{*2}
indoor units

*1: USB Adaptor: Echelon® U10 USB Network Interface
*2: Lite edition is max. controllable 400 indoor units




Remote/
Monitoring side

Internet or
Public
Telephone
Line


Touch Panel Controller
UTYDTGYZ1

Max.
Controllable
400
indoor units



Central Remote Controller
UTYDCGY

Max.
Controllable
100
indoor units



Group Remote Controller
UTYCGGY

Network Converter (For Group Remote Controller)
UTYVGGXZ1

Max.
Controllable
8
Remote
Controller
Groups





Converter/Adaptor For external device

BACnet® Gateway
UTYABGXZ1 **Software**



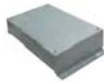
BACnet® Gateway
UTYVVGX **Hardware**



Network Converter
(For LONWORKS®)
UTYVLGX



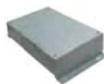
MODBUS® Converter
UTYVMGX



MODBUS® Interface
FJRCMBS1



KNX® Converter For VRF
UTYVKGX



KNX® Interface
FJRCKNX1i



Wireless LAN Interface
FJRCWIF11



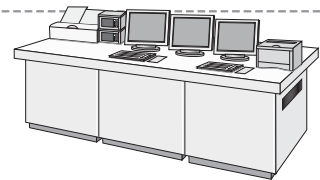
External Switch Controller
UTYTERX



Card-key
(Locally purchased)



BMS/BAS^{*3}



BMS^{*3}, Home automation system



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

Converter/Adaptor For system expansion

Network Converter
(DC power supply)
UTYVTGX









Network Converter
(AC power supply)
UTYVTGXV










Signal Amplifier
UTYVSGXZ1



Comparison Table of Controllers

Item								
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*		
Model name	UTY-RNRYZ2	UTY-RLRY	UTY-RVNYM	UTY-RSNYM	UTY-RSRY	UTY-RHRY		
Max. controllable remote controller groups	1	1	1	1	1	1		
Max. controllable indoor units	16	16	16	16	16	16		
Max. controllable groups	-	-	-	-	-	-		
Air conditioning control function	On / Off	●	●	●	●	●		
	Operation mode setting	●	●	●	●	●	-	
	Fan speed setting	●	●	●	●	●	●	
	Room temp. setting	●	●	●	●	●	●	
	Room temp. set point limitation	●	●	●	-	●	●	
	Test operation	●	●	●	●	●	●	
	Up/down air direction flap setting	●	●	●	-	●	●	
	Right/left air direction flap setting	●	●	●	-	-	-	
	Individual louvre control	●	-	-	-	-	-	
	Group setting	-	-	-	-	-	-	
	RC prohibition	-	-	-	-	-	-	
	Anti freeze setting	●	-	-	-	-	-	
	Set temp. auto return	●	●	●	-	-	-	
	Economy mode setting	●	●	●	-	-	-	
	Human sensor control	●	-	-	-	-	-	
	Display	Error	●	●	●	●	●	
Defrosting		●	●	●	●	●	●	
Current time		●	●	●	-	-	-	
Day of week		●	●	●	-	-	-	
R.C. prohibition		●	●	●	●	●	●	
Cooling/heating priority		●	●	-	●	●	●	
Address display		●	●	●	●	●	●	
Room temp		●	-	●	-	●	●	
Multi language		●	-	●	-	-	-	
Summer time		●	-	●	-	-	-	
Name registration		●	-	-	-	-	-	
Backlight		●	-	●	●	●	●	
2D floor layout / 3D building display		-	-	-	-	-	-	
Refrigerant leakage detection function		-	-	-	-	-	-	
Timer		Schedule timer	Period	Week	Week	Week	-	-
			On/off, Temp, Mode, Times per day	8	4	8	-	-
	On/off timer	●	●	●	-	-	-	
	Sleep timer	-	-	-	-	-	-	
	Program timer	-	-	-	-	-	-	
	Auto off timer	●	●	●	-	-	-	
	Day off	●	●	●	-	-	-	
Min. unit of timer setting (Minutes)	10 • 30	30	30	-	-	-		
Control	Status monitoring system	-	-	-	-	-		
	Electricity charge apportionment	-	-	-	-	-		
	Error history	●	●	●	-	-	-	
	Emergency stop	-	-	-	-	-	-	
	Remote management	-	-	-	-	-	-	
	Energy saving management	-	-	-	-	-	-	
	E-mail notification for malfunction	-	-	-	-	-	-	
	Key lock	● Child lock	● Child lock	● Child lock	-	-	-	
Low noise mode	-	-	-	-	-	-		

						
Wireless Remote Controller	Central Remote Controller (For 5 & 6 rooms Multi)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite (Software)	System Controller (Software)
UTY-LNHY	UTY-DMMYM	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
1	1	8	100	400	400	1600
16	8	128	100	400	400	1600
-	-	-	16	400	400	1600
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
-	-	-	●	●	●	●
●	-	-	●	●	-	-
●	-	-	●	●	●	●
-	-	-	-	●	-	-
-	-	-	●	●	●	●
-	●	-	●	●	●	●
-	-	-	●	●	●	●
-	-	-	●	●	●	●
-	-	-	●	●	●	●
●	●	-	●	●	●	●
-	●	-	-	●	●	●
-	●	●	●	●	●	●
-	-	-	●	●	●	●
●	●	●	●	●	●	●
-	-	●	-	●	●	●
-	●	●	●	●	●	●
-	-	●	●	●	●	●
-	-	●	●	●	●	●
-	-	-	-	●	-	-
-	●	-	●	●	●	●
-	●	-	●	●	●	●
-	-	-	●	●	●	●
-	●	-	●	●	-	-
-	-	-	-	-	-	●
-	-	-	-	●	●	●
-	Week	Week	Week	Year	Year	Year
-	4	4	20	20	144	144
●	-	-	-	-	-	-
●	-	-	-	-	-	-
●	-	-	-	-	-	-
-	-	-	-	●	-	-
-	●	-	●	●	●	●
5	5	10	10	10	10	10
-	-	-	●	●	●	●
-	-	-	-	○	○	●
-	-	●	●	●	●	●
-	-	-	●*2	●*2	-	-
-	-	-	-	●	○	●
-	-	-	-	-	○	○
-	-	-	-	●	●	●
-	●	●	●	●	●	●
-	Child lock	Child lock	Password setting	Password setting	Password setting	Password setting
-	●	-	-	●	-	-

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control. ●: Supported ○: Optional function -: Not supported yet

External Input and Output Table

SPLITS/MULTI

External Control	Input			Output			
	Start / Stop	Peak Cut	Low Noise	Op Status	Error Status	Fresh Air	Aux Heater
WALL MOUNT							
Compact							
ASYG07-14KGT*6	2			2	2		
ASYG07-14KMTA*5	2			2	2		
ASYG09-12LTCA*1	2			2	2		
ASYG07-14LUCA*1	2			2	2		
ASYG07-14LMCE*2	2			2	2		
Large							
ASYG18LFCA	1			1/7*A	7*A		
ASYG24LFCC	1			1/7*A	7*A		
ASYG30-36LMTA*3	1			1	1		
DUCT							
Slim							
ARYG07-14LLTA	3			3/7	7	3	3
ARYG12-18LLTB	3			3/7	7	3	3
Bulkhead							
ARYG12-18SLAP	PCB Terminal			6	6		6
Medium Static							
ARYG12-54LHTBP*4	6			6	6		6
ARYG24-45LMLA	3			3/7	7	3	
ARYG30-36LMLE	3			3/7	7	3	
High Static							
ARYG45-60LHTA	3			3/7	7	3	3
ARYG72-90LHTA	PCB Terminal			6	6		6
CASSETTE							
Compact							
AUYG07-09LVLA	1			1/7	7	3/*B	
AUYG12-18LVLB	1			1/7	7	3/*B	
AUYG24LVLA	1			1/7	7	3/*B	
Circular Flow							
AUXG18-54LRLB*4	6			6	6		6
4 Way Flow							
AUYG30-36LRLE	1			1/7	7	3/*C	
FLOOR							
AGYG09-14LVCA	1			1/7	7		
FLOOR/CEILING							
ABYG14LVTA	1			1/7	7		
ABYG18LVTB	1			1/7	7		
ABYG24LVTA	1			1/7	7		
CEILING							
ABYG30-36LRTE	1			1/7	7	3	
ABYG36-54LRTA	1			1/7	7	3	
SINGLE PHASE OUTDOOR							
Split							
AOYG45-54LETL		5	5	5	5		
Multi							
AOYG36-54LBTB		5	5	5	5		
3 PHASE OUTDOOR							
Split							
AOYG36-60LATT		4	4	4	4		
AOYG72-90LRLA		5	5	5	5		
Multi							
AOYG36-54LATT		4	4	4	4		
AOYG72-90LRLA		5	5	5	5		

*1 UTY-TWBXF Communication Kit required

*2 UTY-XCBXZ2 Communication Kit required

*3 UTY-XCSXZ1 Required for more than 1 input or output

*4 UTY-XCSX Required for more than 1 input or output

*5 UTY-TWBX2 Communication Kit required


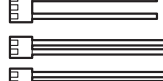

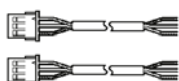




*6 UTY-XCSXZ2 Communication Kit required

*A Part 9705932012 required

*B Cable included with UTZ-VXAA

*C Cable included with UTZ-VXGA

Communication system For SPLIT/MULTI SPLIT

External Connect Kit For Indoor Unit 1=UTYXWZX £9 		External Control Set For Indoor Unit 2=UTYXWZXZ5 £9 		External Connect Kit For Indoor Unit 3=UTDECSSA £14 		External Connect Kit For Outdoor unit 4=UTYXWZXZ2 £19 		External Connect Kit For Outdoor unit 5=UTYXWZXZ3 £9 	
External Connect Kit For Indoor unit 6=UTYXWZXZG £8 		Error Output Adaptor 7=UTIERRW £114  <p>9705932012 For use with all AS and AG models when using Intesis range and Network converter BMS options</p>		Wired Remote Connector 9705932012 £15  <p>For use with all AS and AG models when using Intesis range, Network converter, BMS options and Wired remotes.</p>					



Max. Controllable
16 indoor units

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

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

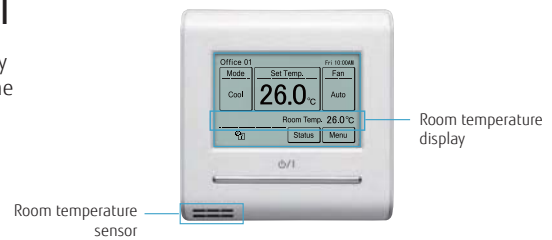
High performance and compact size

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



Accurate and comfortable control

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



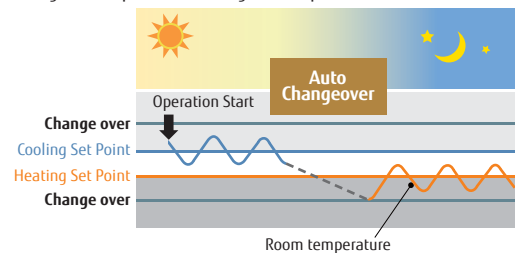
Various energy saving control

Custom Auto

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

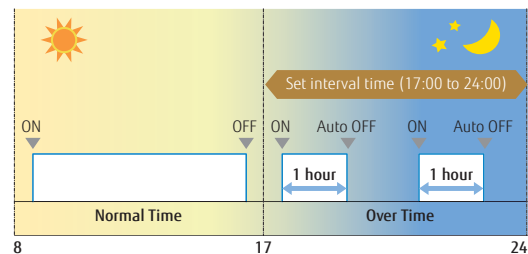
* This function is not available for some models.

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



Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTYRNRYZ2	
Power Source	DC 12 V	
Dimensions (H × W × D) (mm)	120 × 120 × 20.4	
Weight (g)	220	
List Price	£	161

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTYRVNYM

SPLITS/MULTI/VRF



Hi-grade individual control using various functions.

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

High visibility and Easy operation

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



Max. Controllable
16 indoor units

High performance and compact size

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



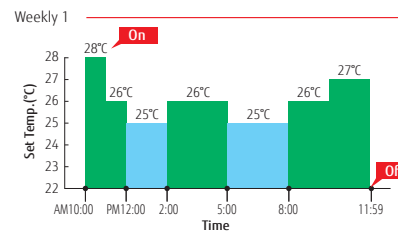
Various energy saving control

Weekly Timer function

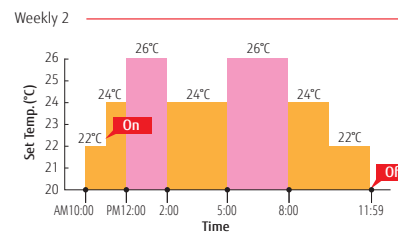
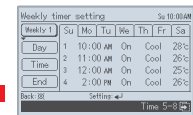
- Can be set up to 8 times per day (On/Off, mode, Temp)
- 2 pattern settings (i.e. Summer/Winter setting) are available.

Auto OFF Timer

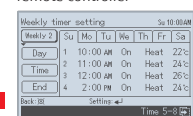
- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting



Setting menu in remote controller



Setting menu in remote controller



Specifications

Model name	UTYRVNYM	
Power Source	DC 12 V	
Dimensions (H × W × D) (mm)	120 × 120 × 21.3	
Weight (g)	220	
List Price	£	104

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

UTYRSRY / UTYRHRV (Without operation mode)

SPLITS/MULTI/VRF



Without operation mode

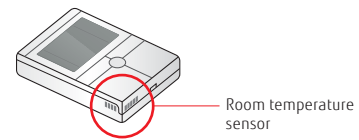
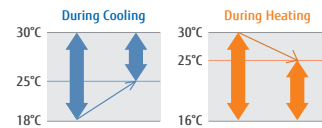
Compact remote controller provides access to basic functions

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

Max. Controllable
16 indoor units

Corresponding to various applications

- **Vertical louvre control:** Vertical air flow direction can be adjusted for Duct types with auto louvre and Cassette types, which are installed in hotels and conference rooms, can be adjusted.
- **Room temperature set point limitation:** The Simple Remote Controller can manage energy saving operation in small buildings without the central control unit.
- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room temperature accuracy.



Simple Remote Controller

UTYRSNYM, UTYRSKY / UTYRHKY (Without operation mode)

SPLITS/MULTI/VRF

UTYRSNYM UTYRSKY UTYRHKY



SPLIT ONLY

VRF ONLY

Without operation mode VRF ONLY

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Backlight enables easy operation in a darkened room.
- 3-wire type

Max. Controllable
16 indoor units

Easy-to-use operation

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

Specifications

Model name	UTYRSRY	UTYRHRV	UTYRSNYM	UTYRSKY	UTYRHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	120	90
List Price	£ 120	£ 120	£ 83	£ 80	£ 75

DC 12 V is supplied by the indoor unit.

Wireless Remote Controller

UTYLNHY

VRF



Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

4 timer programs: On / Off / Program / Sleep

Program timer: Operates ON/OFF timer once within 24 hours

Sleep timer: Corrects the set temperature automatically during sleep time

Max. Controllable

16 indoor units

Selectable

4 daily timers

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)

Wide and precise transmitting range

Model name	UTYLNHY	
Battery	1.5 V (R03 / LR03 / AAA) × 2	
Dimensions (H × W × D) (mm)	170 × 56 × 19	
Weight (g)	85	
List Price	£	47

IR Receiver Unit

UTBYWC / UTYLRYHM / UTYLBTYM

SPLITS/MULTI/VRF

UTBYWC
for VRF



UTYLRYHM
for Split



Duct type indoor unit

Wireless Remote Controller included with UTYLRYHM

UTYLBTYM
for Split



Duct type indoor unit

Wireless Remote Controller included with UTYLBTYM

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

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

Model name	UTBYWC	UTYLRYHM	UTYLBTYM
Battery	DC 5 V		
Dimensions (H × W × D) (mm)	145 × 90 × 30		
Weight (g)	150		
List Price	£ 76	262	266

IR Receiver Unit

UTYLRYHB1 / UTYLBHXD / UTYLRHYA2 / UTYLBTYC

SPLITS/MULTI/VRF

UTYLRYHB1
for VRF



UTYLRYA2
for Split



Wireless Remote Controller included with UTYLRYA2

UTYLBTYC for Split



Wireless Remote Controller included with UTYLBTYC

Cassette type indoor unit can be controlled with Wireless Remote Controller

UTYLBHXD
for VRF



IR Receiver Unit

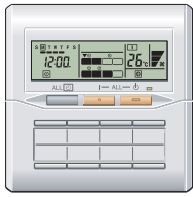
IR Receiver Unit

Specifications

Model name	UTYLRYHB1	UTYLBHXD	UTYLRYA2	UTYLBTYC
Battery	DC 5 V			
Dimensions (H × W × D) (mm)	193.9 × 193.9 × 31.2			
Weight (g)	140			
List Price	£ 76	86	76	98

DC 12 V is supplied by the indoor unit.

UTYCGGY / UTYYGGXZ1



Group Remote Controllers
UTYCGGY



Network Converter
UTYYGGXZ1
For Group Remote Controller

Max. Controllable
8
remote
controller groups

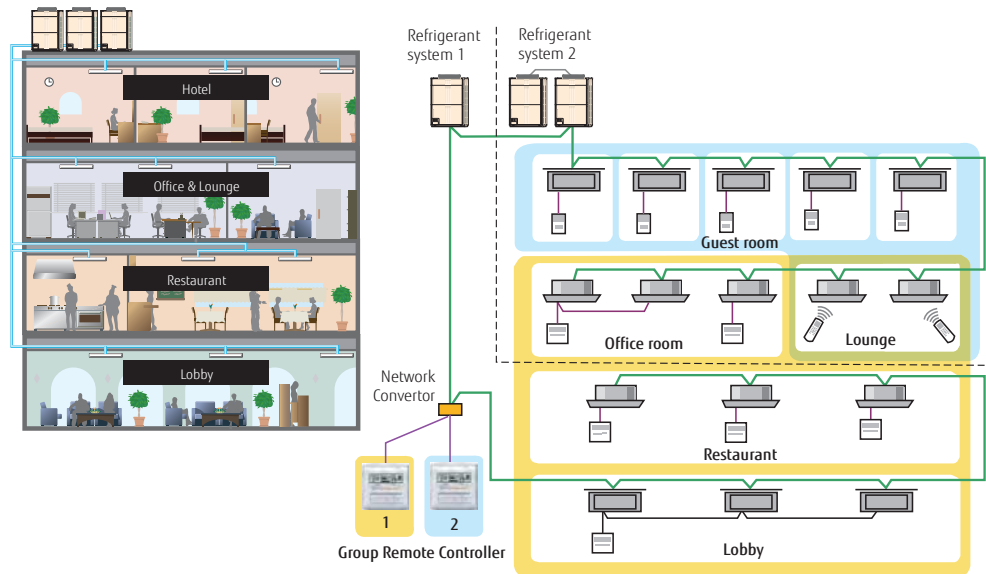
Max. Controllable
64
group R.C. in a VRF
network system

Group control of indoor units with simple operation

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

Control up to 8 remote controller groups

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



Group Remote Controller 1:
To control office room, lounge, restaurant and lobby (8 remote controller groups)
Group Remote Controller 2:
To control guest room and lounge (7 remote controller groups)

High performance and compact size

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



Built-in weekly timers

The weekly timer is provided as a standard function.

Specifications

Model name	UTYCGGY
Power Supply	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 18
Weight (g)	200
List Price	£ 146

DC 12 V is supplied by the indoor unit.

Model name	UTYYGGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500
List Price	£ 456

Central Remote Controller for 5-6 Rooms Multi

MULTI

UTYDMMYM

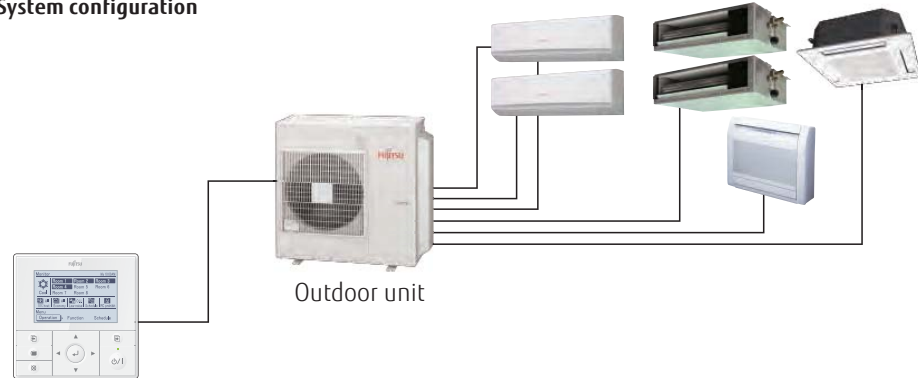


Max. Controllable
1 multi system

Max. Controllable
6 indoor units

- Batched control of up to 6 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

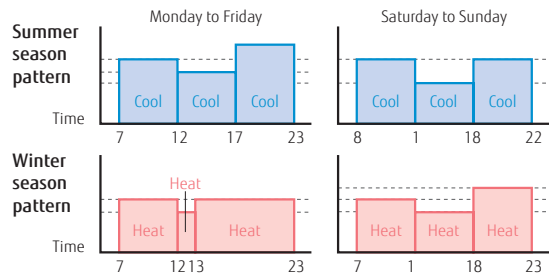
System configuration



Central Remote Controller Functions

Weekly schedule timer

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



Low noise operation

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

10°C heat operation

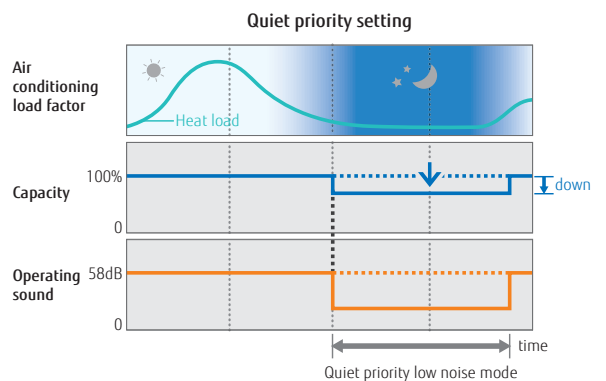
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

Economy operation

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

Prohibited Settings

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



Specifications

Model name	UTYDMMYM	
Power Source	DC 12 V	
Dimensions (H × W × D) (mm)	120 × 120 × 21.3	
Weight (g)	220	
List Price	£	468

DC 12 V is supplied by the indoor unit.



For small- and medium-sized buildings and tenants

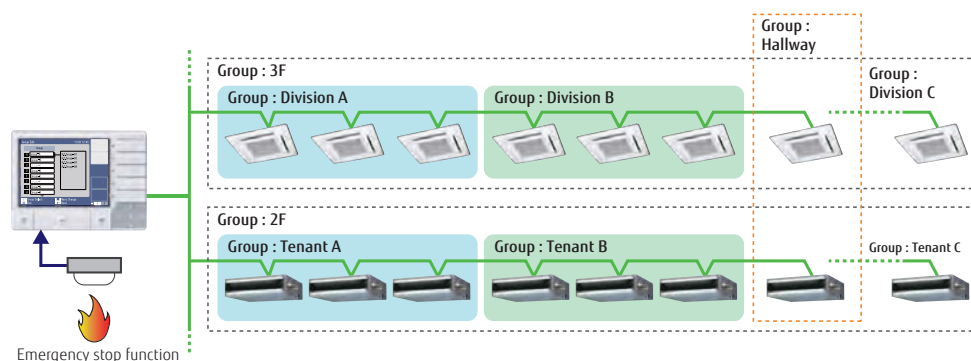
- Individual control and monitor of 100 indoor units
- 5 inch TFT colour screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable
100 indoor units

Max. Controllable
16 groups

System overview

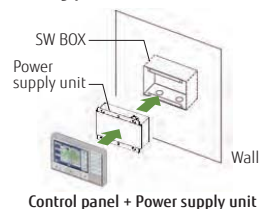
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



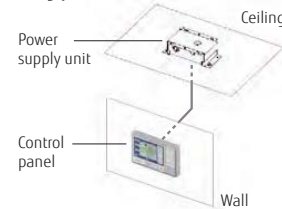
Easy Installation

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

Setting pattern 1



Setting pattern 2



Functions

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

Specifications

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

<PACKING LIST>

Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	
List Price	£	1752

Touch Panel Controller

UTYDTGYZ1

VRF



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

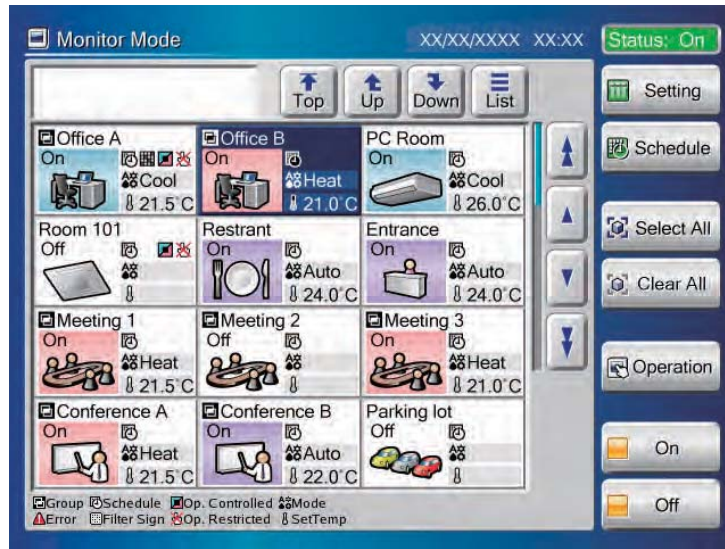
Max. Controllable
400 indoor units

Max. Controllable
100 outdoor units

Max. Controllable
400 groups

Easy Operation

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



Easy maintenance

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

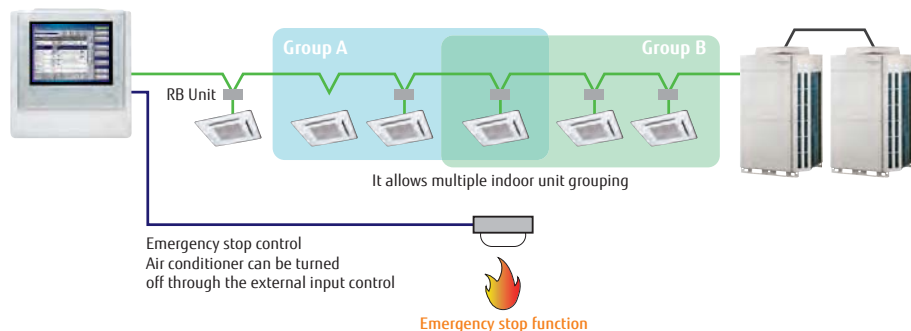


Easy installation

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

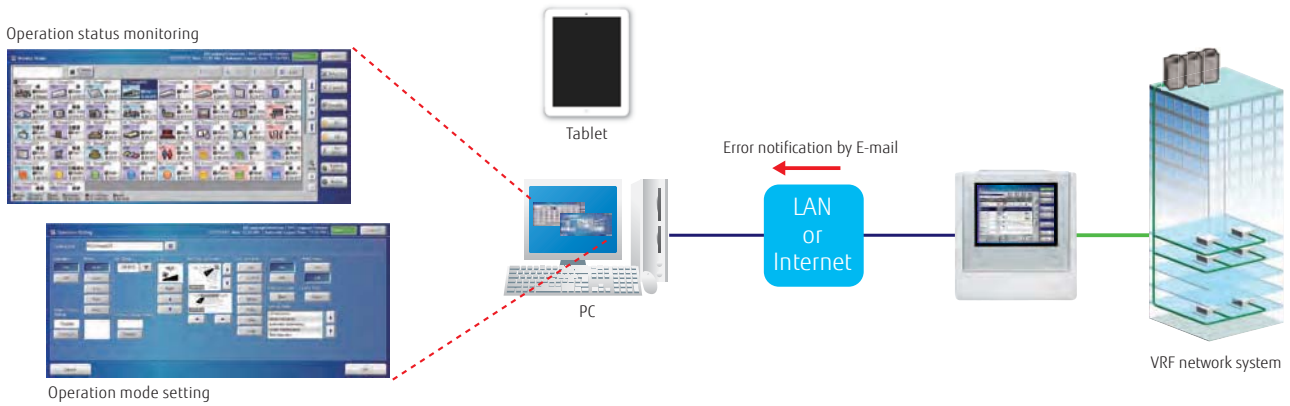


Up to 400 indoor units can be controlled



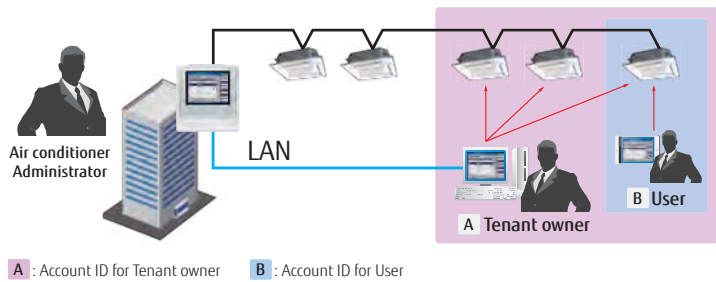
Control & monitoring (UTYDTGYZ1 only)

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



Flexible access permission for each level user.

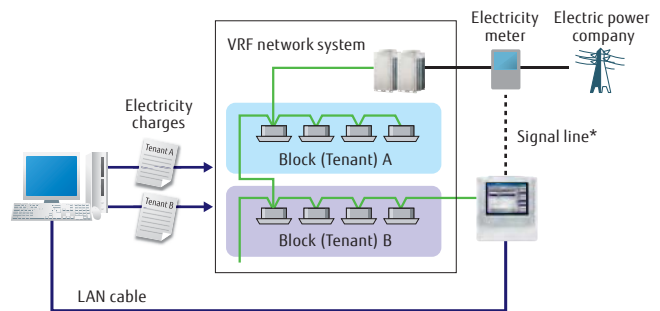
Administrator can register multiple users to permit which indoor unit(s) and which functions can be accessed.



Electricity charge apportionment (Option: UTYPTGXA only compatible with UTYDTGYZ1)

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.

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



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

Specifications

Model name	UTYDTGYZ1	
Power Supply	100-240 V 50/60 Hz, Single phase	
Dimensions (H × W × D) (mm)	260 × 246 × 54	
Weight (g)	2,150	
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW	
List Price	£	3307

PRODUCT LINEUP: CONTROL SYSTEM-CENTRALISED CONTROL

System Controller

UTYAPGXZ1 **Software**

VRF



Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

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

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

Note: Older Version UTY-APGX will be sent over while stocks last
The differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

System Controller Lite

UTYALGXZ1 **Software**

VRF



Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

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

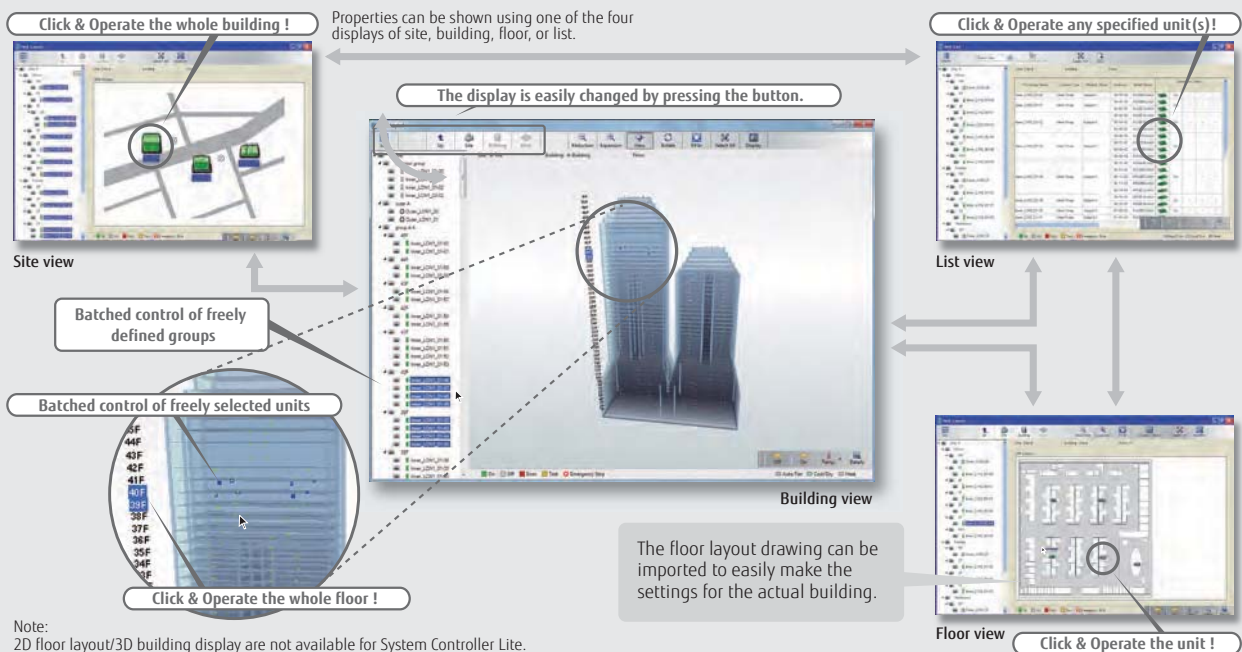
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages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

Note: Older Version UTY-ALGX will be sent over while stocks last (UTY-ALGX is not compatible with option UTY-PLGXX2)
The differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

High visibility and Easy operation

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

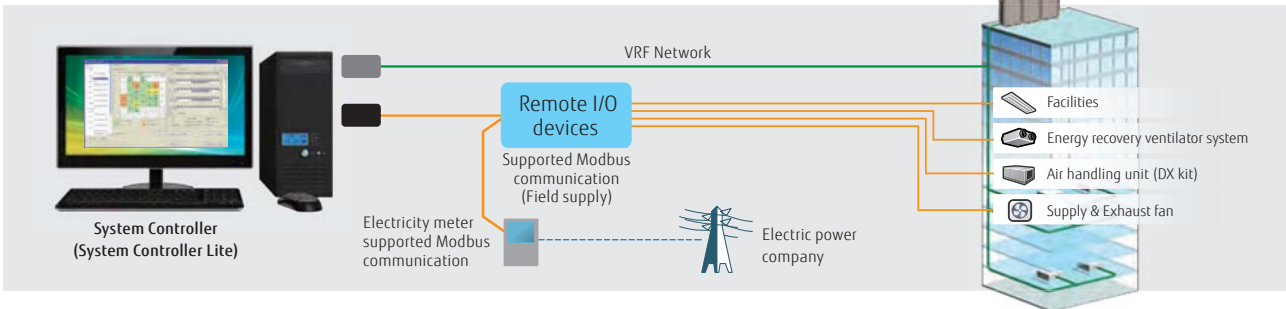
Freely define groups for batched control: Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



3rd party devices connected by Modbus can be controlled.

Standard for System Controller **Option** for System Controller Lite UTYPGX2

When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

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



Diverse control of indoor unit and outdoor unit

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

Remote controller prohibition

This prohibits changes to the operation mode, temperature, start/stop, etc.

Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Errors for the past 1 year are logged and can be reviewed later.

Operating & control record

Displays the history of operation status and control.

Data base import/export

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

Automatic clock adjustment

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

Electricity charge apportionment

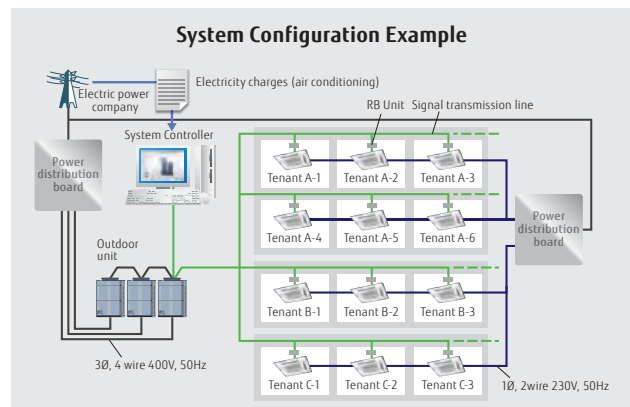
Standard for System Controller

Option for System Controller Lite UTYPGX1

Electricity charge apportionment calculation framework

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

The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.



PRODUCT LINEUP: CONTROL SYSTEM-CENTRALISED CONTROL

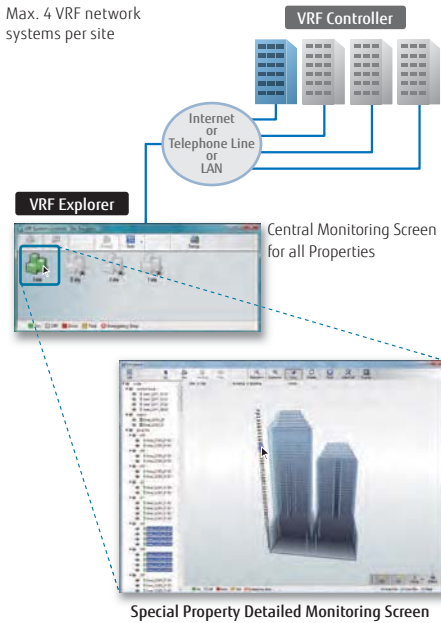
Features: System Controller/System Controller Light

Remote management

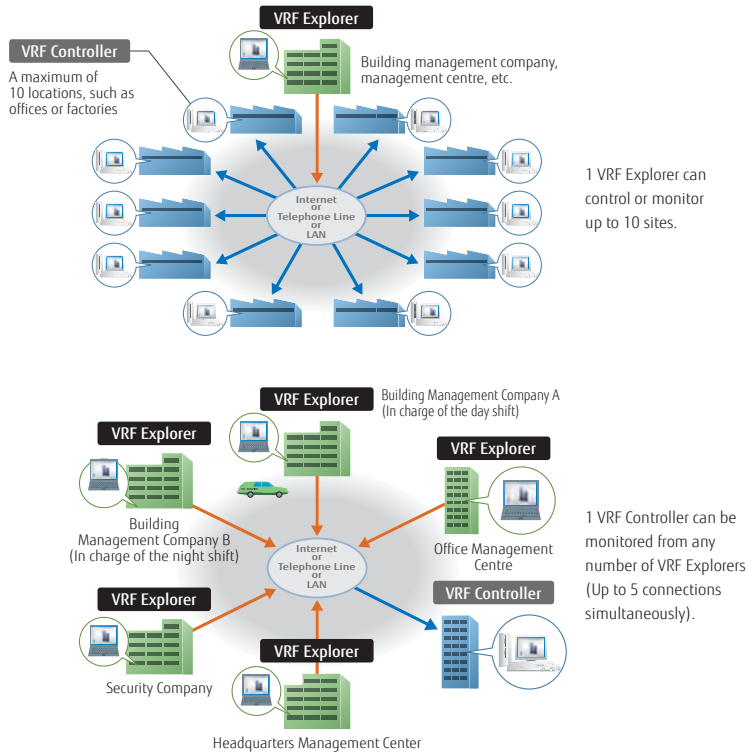
- Standard** for System Controller
- Option** for System Controller Lite UTYPGX1

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control



Remote central control



Energy saving management

- Option** for System Controller UTYPGX
- Option** for System Controller Lite UTYPGX1

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.



Energy Saving Management Main Screen

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyse the energy saving effect.

Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.

Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.

FUNCTIONS SUMMARY

Function	Type	System controller		System controller lite					
		UTYAPGXZ1	Option UTYPEGXZ1	UTYALGXZ1	Option UTYPLGXR2	Option UTYPLGXA2	Option UTYPLGXE2	Option UTYPLGXX2	
System specification	Max. VRF networks supported	4	—	1	—	—	—	—	
	Max. indoor unit / remote controller groups per VRF network	400	—	400	—	—	—	—	
	Max. outdoor units per System controller	100	—	100	—	—	—	—	
	Max. indoor units / remote controller groups per System controller	1600	—	400	—	—	—	—	
	Max. outdoor units per System controller	400	—	100	—	—	—	—	
Site supervision	Multi site display	10	—	10	—	—	—	—	
	Number of building / 1 site	20	—	—	—	—	—	—	
	Number of floor per 1 site	200	—	—	—	—	—	—	
	Number of floor per 1 building	50	—	—	—	—	—	—	
	3D graphical layout view	●	—	●	—	—	—	—	
	2D graphical layout view	●	—	●	—	—	—	—	
	List display	●	—	●	—	—	—	—	
	Tree display	●	—	●	—	—	—	—	
Error management	Group display	●	—	●	—	—	—	—	
	Error notification	●	—	●	—	—	—	—	
	Audible alarm	●	—	●	—	—	—	—	
History	Error e-mail notification	●	—	●	—	—	—	—	
	Error history	●	—	●	—	—	—	—	
Operation control	Operation history	●	—	●	—	—	—	—	
	Control history	●	—	●	—	—	—	—	
	Individual control	On/Off	●	—	●	—	—	—	—
		Operation mode	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Air flow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Room temperature set point limitation	●	—	●	—	—	—	—
		Test operation	●	—	●	—	—	—	—
	Individual management	Antifreeze	●	—	●	—	—	—	—
		Outdoor unit low noise setting	●	—	●	—	—	—	—
		Remote control prohibition setting	●	—	●	—	—	—	—
	Other	Temperature upper and lower limit setting	●	—	●	—	—	—	—
		Filter sign reset	●	—	●	—	—	—	—
Memory operation		●	—	●	—	—	—	—	
Schedule	Pattern operation	●	—	●	—	—	—	—	
	Annual Schedule	●	—	●	—	—	—	—	
	Special day setting	●	—	●	—	—	—	—	
	On / off per day	72	—	72	—	—	—	—	
	On / off per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
Remote management	Min. unit of timer setting (Minutes)	10	—	10	—	—	—	—	
	Low noise mode Weekly schedule	●	—	●	—	—	—	—	
	Remote monitoring	●	—	●	—	—	—	—	
	Remote operation control	●	—	●	—	—	—	—	
Electricity charge apportionment	Remote function setting	●	—	●	—	—	—	—	
	Web Remote Controller	●	—	●	—	—	—	—	
	Apportionment charge/bill calculation	●	—	●	—	—	—	—	
	Tenant (block) setting	●	—	●	—	—	—	—	
	Common facilities apportionment setting	●	—	●	—	—	—	—	
Energy saving management	Rated power consumption allotment setting	●	—	●	—	—	—	—	
	Individual calculation at cooling and heating	—	●*	—	—	—	—	—	
	Electricity meter supported	—	●	—	—	—	—	—	
	Indoor unit rotation	—	●	—	—	—	—	—	
	Peak cut control	—	●	—	—	—	—	—	
	Outdoor unit capacity save	—	●	—	—	—	—	—	
External Device Control	Record of energy saving operation	—	●	—	—	—	—	—	
	Energy saving information	—	●	—	—	—	—	—	
Others	Power consumption monitor	—	●	—	—	—	—	—	
	Electricity meter supported	—	●	—	—	—	—	—	
	Monitor	●	—	—	—	—	—	●	
Control	Control	●	—	—	—	—	—	●	
	Database import/export	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
	Multi language	7 languages	—	7 languages	—	—	—	—	

●●: Available. -: Not available. *: Power calculation application software is necessary, please contact the local FGL representative.

Personal computer system requirements

	System Controller	System Controller Lite
Operating system	<ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	<ul style="list-style-type: none"> 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) 	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface - TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Packing List

Type	For System controller			For System controller Lite			
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Central Control
Model name	UTYAPGXZ1	UTYPEGXZ1	UTYALGXZ1	UTYPLGXR1	UTYPLGXA1	UTYPLGXE1	UTYPLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1
List Price £	6222	2561	2557	926	761	922	992

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.

System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

BACnet® Gateway

UTYABGXZ1

VRF



WHITE-USB-KEY
(Software Protection Key)



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.

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable

4

VRF network systems

Max. Controllable

400

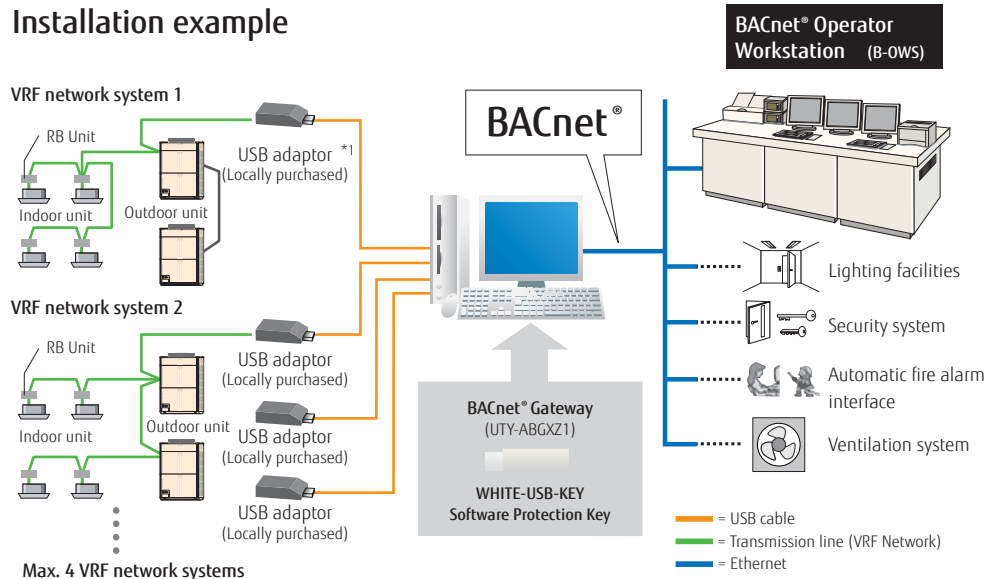
outdoor units

Max. Controllable

1,600

indoor units

Installation example



*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGX & UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> • 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) <ul style="list-style-type: none"> - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later

Packing list

Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.
List Price	£	3113

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

BACnet® Gateway

UTYVVGX

VRF

SPLIT

MULTI SPLIT

VRF

CONTROL SYSTEM

VENTILATION

TRAINING



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.

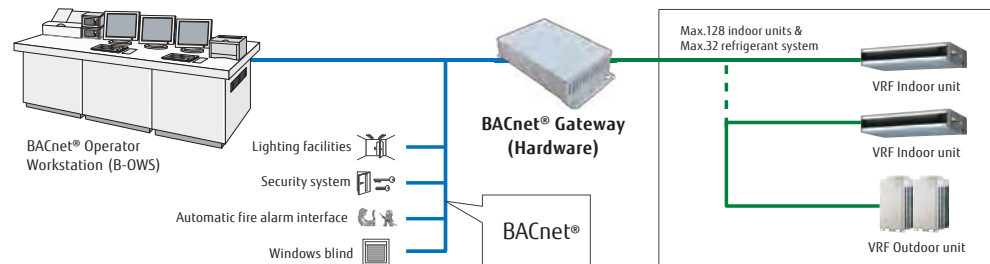
Max. Controllable
1 VRF network system

Max. Controllable
32 refrigerant system

Max. Controllable
128 indoor units

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

Installation example



Specifications

Model name	UTYVVGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4
List Price	£ 2397

Model name	UTYVVGX
Power Supply	208-240V 50/60Hz, single phase
Power Consumption (W)	—
Dimensions (H × W × D) (mm)	10-1/4 × 2-5/16 × 5-11/16 (260 × 59 × 145)
Weight (g)	—

Network Converter for LONWORKS®

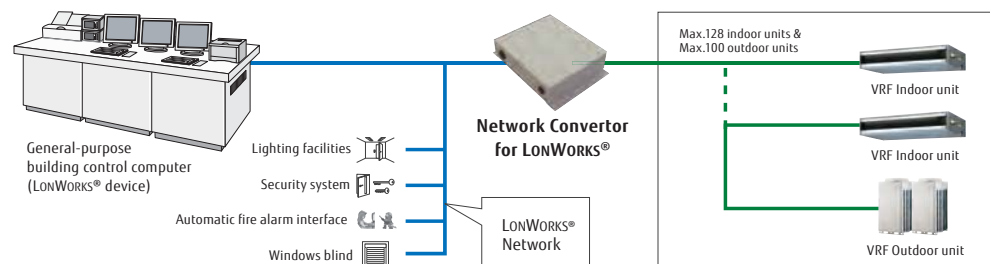
UTY-VLGX

VRF



- For connection between VRF network system and a **LONWORKS®** open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a **LONWORKS®** interface.
- Up to 128 Indoor units can be connected to one Network Converter for **LONWORKS®**

Installation example



Max. Controllable
4 units to BMS

Max. Controllable
100 outdoor units

Max. Controllable
128 indoor units

Specifications

Model name	UTYVLGX
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500
List Price	£ 3113

Transmission specifications (BMS side)

Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

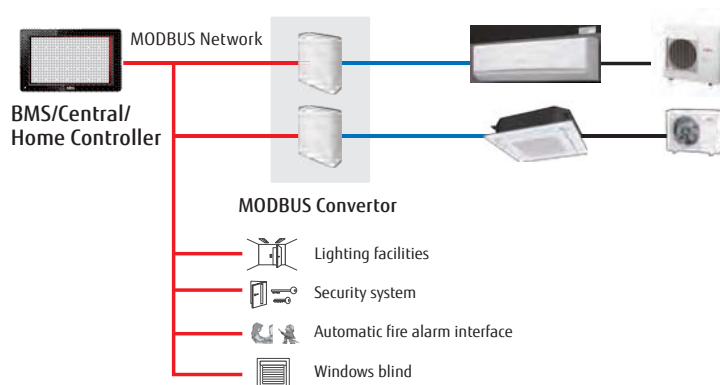


Max. Connectable

1 Single indoor unit

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

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

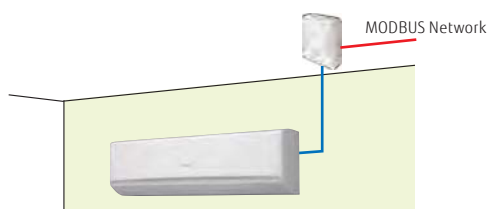


Basic control

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

Easy Installation

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



Specifications

Model name	UTYVMSX	
Power supply	DC 12 V	
Input Power (W)	Max. 1.2	
Dimensions (H×W×D)(mm)	140 × 117 × 43	
Weight (g)	200	
Maximum Connectable indoor unit number per 1 MODBUS Convertor	1	
List Price	£	234

Modbus communication specifications

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

MODBUS® Convertor

UTYVMGX

VRF



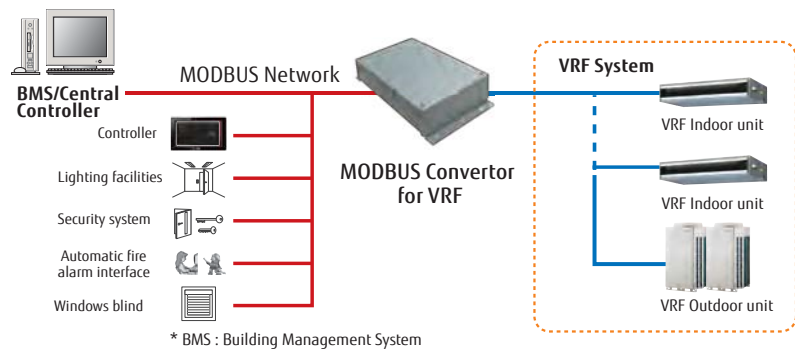
The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units



MODBUS® Interface

FJRCMBS1

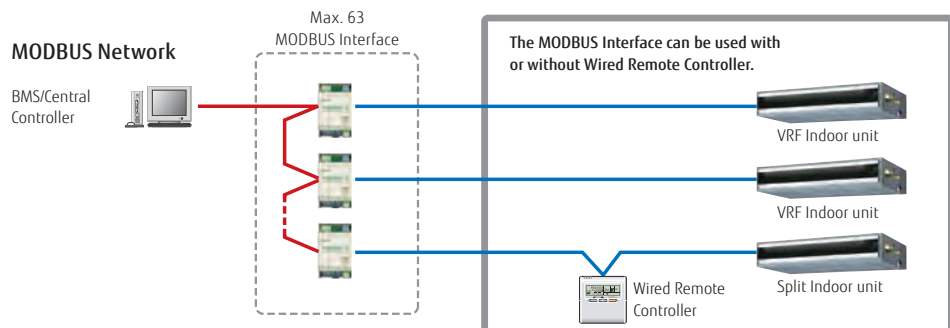
SPLITS/MULTI/VRF



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

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

Max. Connectable
1 Single indoor unit



Specifications

Model name	UTYVMGX	
Power Supply	AC220/240V 50/60Hz	
Input power (W)	Max. 2	
Dimensions (H × W × D) (mm)	54 × 260 × 150	
Weight (g)	1,100	
List Price	£	530

Model name	FJRCMBS1	
Dimensions (H × W × D) (mm)	93×53×58	
Weight (g)	85	
List Price	£	234

KNX® Convertor for VRF

UTYVKGX

VRF



Max. Controllable
100 outdoor units

Selectable
128 indoor units

KNX Convertor is useful for centralised control in a system.

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



KNX® Convertor for Indoor Unit

UTYVKSX

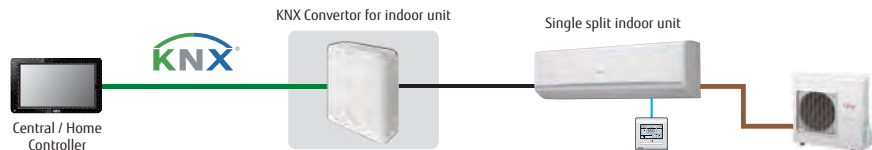
SPLITS/MULTI



Max. Connectable
1 Single indoor unit

KNX Convertor is useful for individual control of indoor.

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



KNX® Interface

FJRCKNX1i

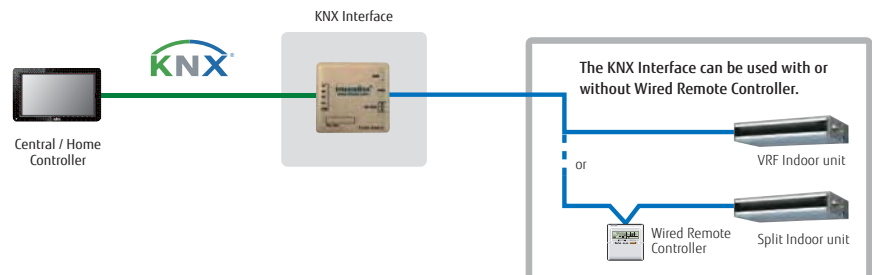
SPLITS/MULTI/VRF



Max. Controllable
1 group

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

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



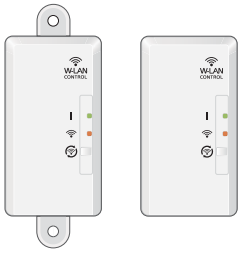
Specifications

Model name	UTYVKGX	UTYVKSX	FJRCKNX1i
Power supply	220-240 V 50/60 Hz	(DC 12 V)	DC12V fed from indoor unit
Power consumption (W)	1.5	0.6	-
Dimensions (H × W × D) (mm)	54 × 260 × 150	140 × 117 × 43	70 × 70 × 28
Weight (g)	1,200	215	70
List Price	£ 1273	267	265

Wireless LAN Interface

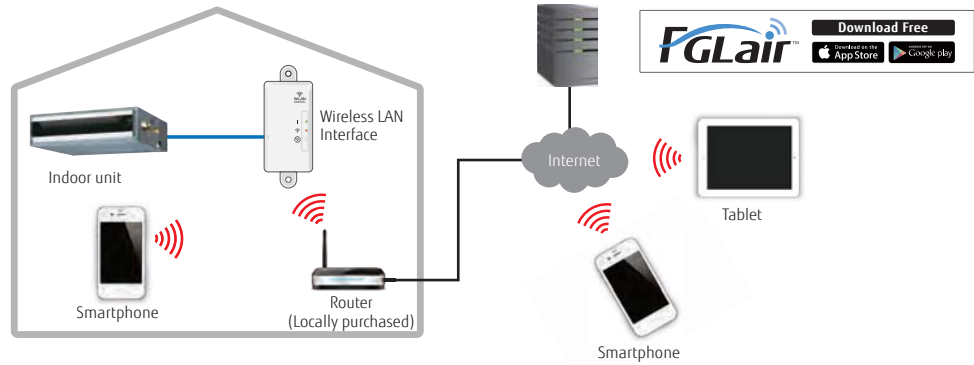
UTYTFNXZ1 / UTYTFSXZ1, UTYTFSXW1

SPLITS/MULTI/VRF



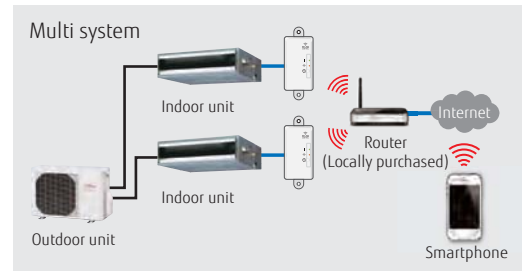
Max. Connectable
1 Single indoor unit

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



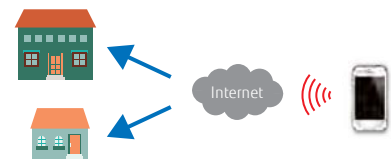
Basic control

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



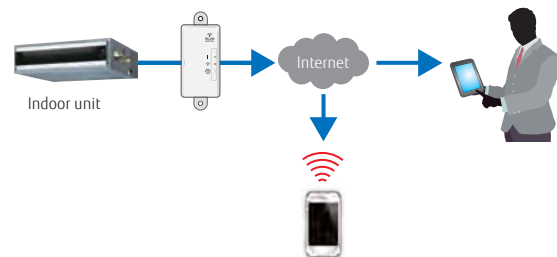
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

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



Specifications

Model name	UTYTFNXZ1	UTYTFSXZ1	UTYTFSXW1
Usage with	SPLITS	SPLITS & VRF	R32 SPLITS
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	71 × 38 × 15
Weight (g)	85	85	35
List Price	£ 143	£ 143	£ 126

Wireless LAN Interface

SPLITS/MULTI/VRF

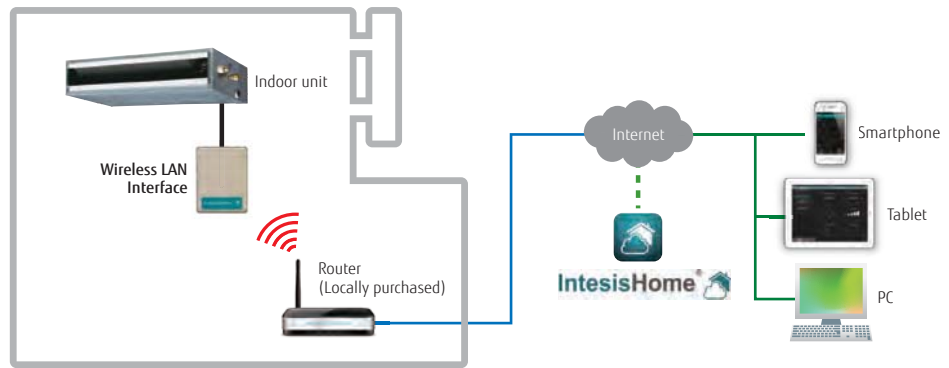
FJRCWIF11 - Must be used if using a Hard Wired Controller



Max. Connectable
1 Single indoor unit



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



Basic control

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



(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

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

Specifications

Model name	FJRCWIF11	
Dimensions (H × W × D) (mm)	108 × 70 × 28	
Weight (g)	80	
List Price	£	234

External Switch Controller

UTYTERX / UTYTEKX

SPLITS/MULTI/VRF



Max. Controllable
1 group

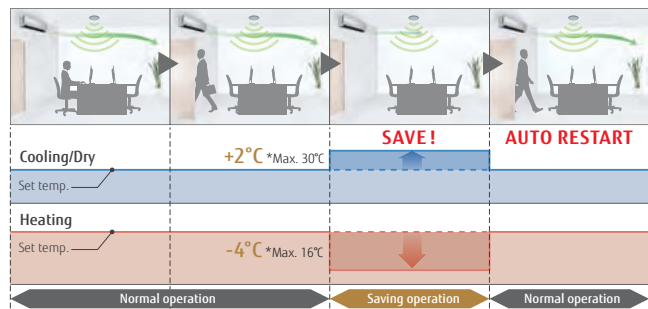
Air conditioner switching can be controlled by connecting other sensor switches

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

Installation example

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

Human sensor equipment needs to be purchased locally.
Human sensor is not mounted on the External Switch Controller.



Specifications

Model name	UTYTERX	UTYTEKX
Usage with	VRF	SPLITS & MULTI
Power Supply	DC 6.5-16 V	DC 6.5-16 V
Dimensions (H × W × D) (mm)	140 × 117 × 43	140 × 117 × 43
Weight (g)	250	250
List Price	£ 90	£ 90

DC 12 V is supplied by the indoor unit.

Signal Amplifier

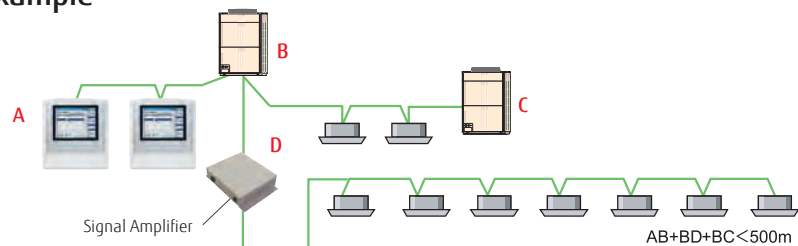
UTYVSGXZ1

VRF



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

Installation example



Specifications

Model name	UTYVSGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500
List Price	£ 729

Network Converter for Single Split Control via VRF

UTYVTGX / UTYVTGXV

VRF



UTYVTGX
DC power supply type

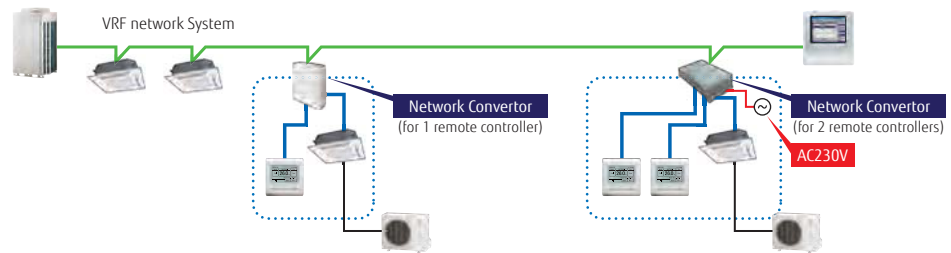


UTYVTGXV
AC power supply type

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

Installation example.

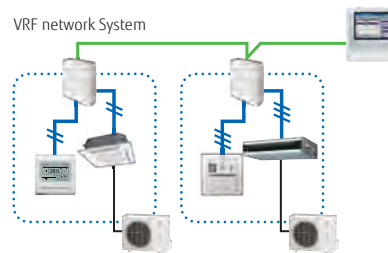
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



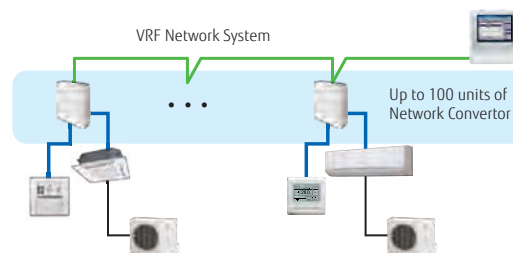
Max. Controllable
16
single indoor units

Max. Controllable
100
Network Convertors

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

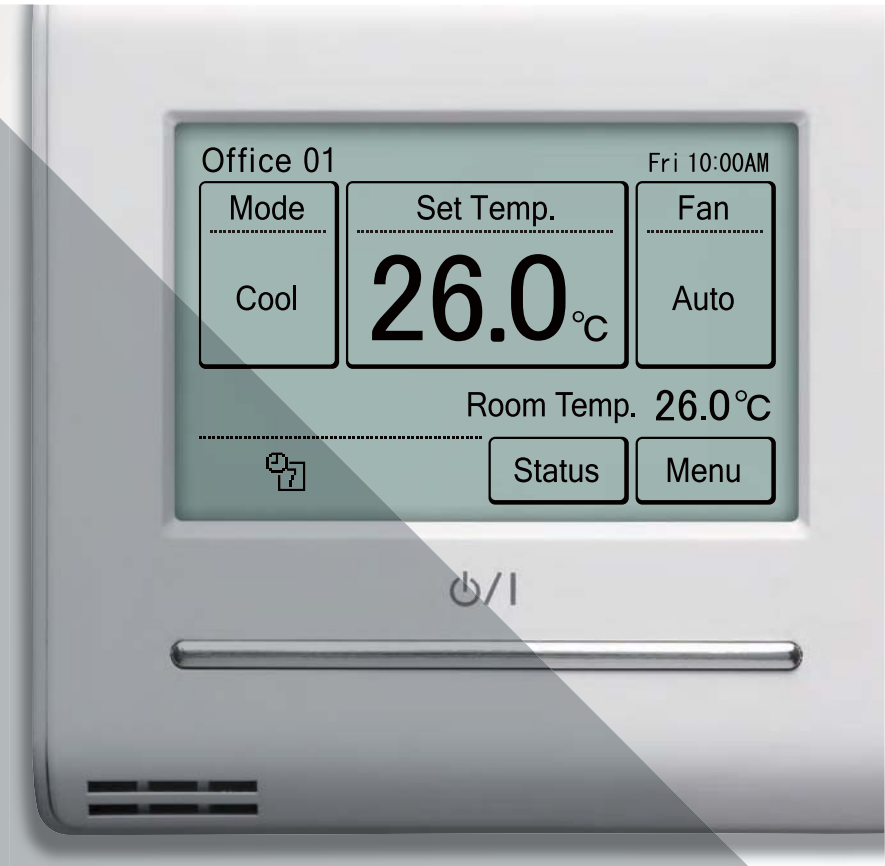


- A central control can be provided for the single split systems. (Up to 100 units of Network Converter is connectable in one VRF network system)



Specifications

Model name	UTYVTGX		UTYVTGXV
Power Supply	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	220-240 V 50/60 Hz
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100
List Price	£	427	584



















CONTROL SYSTEM LIST

For SPLIT & MULTI SPLIT
For VRF

PRODUCT LINEUP: CONTROL SYSTEM

CONTROL SYSTEM LIST for SPLIT/MULTI SPLIT

















Type		Indoor unit									Cassette	
		Wall Mounted								ECO Range		4-way Flow Compact
		Flagship Range	Designer Range	Standard Range	Designer Range		Standard Range					
ASYG 09/12KXCA	ASYG 07/09/12/14 KGTA	ASYG 07/09/12/14 KMTA	ASYG 09/12LTCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18LFCA, ASYG24LFCC	ASYG 30/36LMTA	ASYG 09/12 LLCE	AUYG 12/14/18 LVLB, AUYG24LVLA			
Controllers	Wired Remote Controller		● UTY-RNRYZ2+ UTY-TWRXZ2						● UTY-RNRYZ2+ UTY-TWRX			
			● UTY-RLRY+ UTY-TWRXZ2						● UTY-RLRY+ UTY-TWRX			
						● UTY-RVNYM+ UTY-TWBXF	● UTY-RVNYM+ UTY-XCBXZ2	● UTY-RVNYM	● UTY-RVNYM+ UTY-XWNX		● UTY-RVNYM	
				● UTY-RNNYM+ UTY-TWBXF	● UTY-RNNYM+ UTY-TWBXF	● UTY-RNNYM+ UTY-XCBXZ2	● UTY-RNNYM	● UTY-RNNYM+ UTY-XWNX		● UTY-RNNYM		
	Simple Remote Controller	 2-wire type	● UTY-RSRY, UTY-RHRY	● UTY-RSNYM+ UTY-TWBXF	● UTY-RSNYM+ UTY-TWBXF	● UTY-RSNYM+ UTY-XCBXZ2	● UTY-RSNYM	● UTY-RSNYM+ UTY-XWNX, UTY-RSRY UTY-RHRY+ UTY-XWRX		● UTY-RSNYM		
	 3-wire type											
Central Remote Controller												
IR Receiver Unit with Wireless Remote Controller	 For Duct											
	 For Cassette											
Interface	MODBUS Convertor							● UTY-VMSX				
	MODBUS Interface					● FJ-RC-MBS-1				● FJ-RC-MBS-1		
	KNX Convertor							● UTY-VKSX				
	KNX Interface				● FJ-RC-KNX-1i		● FJ-RC-KNX-1i			● FJ-RC-KNX-1i		
	Wireless LAN Interface			● UTY-TFSXW1			● UTY-TFNXZ1				● UTZ-TFNXZ1	
							● FJ-RC-WIFI-1				● FJ-RC-WIFI-1	
External Switch Controller			● UTY-TERX			● UTY-TEKX				● UTY-TEKX		



Indoor unit											Outdoor unit
Cassette		Duct						Floor	Floor/Ceiling	Ceiling	Single Phase
Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big				5-6 Rooms Multi
AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG18LVTB, ABYG24LVTA	ABYG 30/36 LRTE, ABYG 36/45/54 LRTA	AOYG36LBLA5 AOYG45LBLA6
• UTY-RNRYZ2		• UTY-RNRYZ2		• UTY-RNRYZ2			• UTY-RNRYZ2				
• UTY-RLRY		• UTY-RLRY		• UTY-RLRY			• UTY-RLRY				
• UTY-RVNYM											
• UTY-RNNYM											
• UTY-RSRY, UTY-RHRY, UTY-RSNYM	• UTY-RSNYM	• UTY-RSRY, UTY-RHRY, UTY-RSNYM	• UTY-RSNYM	• UTY-RSRY, UTY-RHRY, UTY-RSNYM	• UTY-RSNYM		• UTY-RSRY, UTY-RHRY, UTY-RSNYM	• UTY-RSNYM		• UTY-RSNYM	
											• UTY-DMMYM
	• UTY-LRHYA2		• UTY-LRHYM		• UTY-LRHYM	• UTY-LRHYM (60 only)	• UTY-LRHYM				
• UTY-LBTYC		• UTY-LBTYM		• UTY-LBTYM			• UTY-LBTYM				
• UTY-VMSX		• UTY-VMSX		• UTY-VMSX			• UTY-VMSX	• FJ-RC-MBS-1			
	• FJ-RC-MBS-1		• FJ-RC-MBS-1		• FJ-RC-MBS-1				• FJ-RC-MBS-1		
• UTY-VKSX		• UTY-VKSX		• UTY-VKSX			• UTY-VKSX	• FJ-RC-KNX-1i			
	• FJ-RC-KNX-1i		• FJ-RC-KNX-1i		• FJ-RC-KNX-1i				• FJ-RC-KNX-1i		
• UTZ-TFNXZ1	• UTZ-TFSXZ1			• UTZ-TFNXZ1			• UTZ-TFSXZ1		• UTY-TFNXZ1		
• FJ-RC-WIFI-1				• FJ-RC-WIFI-1					• FJ-RC-WIFI-1		
• UTY-TEKX											

PRODUCT LINEUP: CONTROL SYSTEM

CONTROL SYSTEM LIST for VRF

Type	Indoor unit							
	Cassette				Duct			
	Compact Grid type /Standard type	4-way (Slim)	4-way (Large)	Circular Flow (Large)	Bulkhead (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure
	AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH	AUXA 30//36/45/54 GALH	AUXK 018/024/030/ 036/045/054 GLAH	ARXK 07/09/12 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH
Controllers	Wired Remote Controller				● UTY-RNRYZ2			
					● UTY-RLRY			
	Simple Remote Controller	 2-wire type 3-wire type			● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY			
	Wireless Remote Controller				● UTY-LNHY			
	Group Remote Controller				● UTY-CGGY + UTY-VGGXZ1			
	Central Remote Controller				● UTY-DCGY			
	Touch Panel Controller				● UTY-DTGYZ1			
	System Controller, System Controller Lite				● UTY-APGXZ1, UTY-ALGXZ1			
Interface	IR Receiver Unit		● UTY-LRHYB1	● UTY-LBHXD		● UTB-YWC		
	MODBUS Convertor		● UTY-VMGX	● UTY-VMGX UTY-VMSX		● UTY-VMGX		
	MODBUS Interface		● FJ-RC-MBS-1			● FJ-RC-MBS-1		
	KNX Convertor		● UTY-VKGX	● UTY-VKGX UTY-VKSX		● UTY-VKGX		
	KNX Interface		● FJ-RC-KNX-1i			● FJ-RC-KNX-1i		
	Wireless LAN Interface				● UTY-TFSXZ1			
			● FJ-RC-WIFI-1				● FJ-RC-WIFI-1	
	External Switch Controller				● UTY-TERX			



Indoor unit							
Duct	Floor	Wall Mounted					
		Ceiling/ Floor	Ceiling	—	—	—	—
High Static Pressure	—						
ARXC 72/90GBTH, ARXC 96GATH	AGYA 007/ 009/012/014 GCAH	ABYA 12/14/18/24 GATH	ABYA 30/36/45/54 GATH	ASYA 004/007/009 GTAH	ASYA 012/014GCAH	ASYA 18/24GBCH	ASYA 030/034GTAH
● UTY-RNRYZ2							
● UTY-RLRY							
● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY							
● UTY-LNHY							
● UTY-CGGY + UTY-VGGXZ1							
● UTY-DCGY							
● UTY-DTGYZ1							
● UTY-APGXZ1, UTY-ALGXZ1							
● UTB-YWC							
● UTY-VMGX	● UTY-VMGX UTY-VMSX	● UTY-VMGX	● UTY-VMGX UTY-VMSX	● UTY-VMGX	● UTY-VMGX	● UTY-VMGX UTY-VMSX	● UTY-VMGX UTY-VMSX
		● FJ-RC-MBS-1		● FJ-RC-MBS-1			
● UTY-VKGX	● UTY-VKGX UTY-VKSX	● UTY-VKGX	● UTY-VKGX UTY-VKSX	● UTY-VKGX	● UTY-VKGX	● UTY-VKGX UTY-VKSX	● UTY-VKGX UTY-VKSX
● FJ-RC-KNX-1i		● FJ-RC-KNX-1i		● FJ-RC-KNX-1i		● FJ-RC-KNX-1i	
	● UTY-TFSXZ1			● UTY-TFSXZ1			● UTY-TFSXZ1
● FJ-RC-WIFI-1		● FJ-RC-WIFI-1		● FJ-RC-WIFI-1			
● UTY-TERX							

Auto Louvre Grille Kit

UTDGXSAW / UTDGXSBW / UTDGXSCW

SPLITS/MULTI/VRF

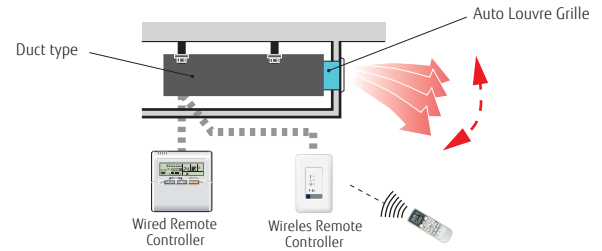


Simple flat Auto Louvre will provide comfort airflow and harmonise with luxury interior.

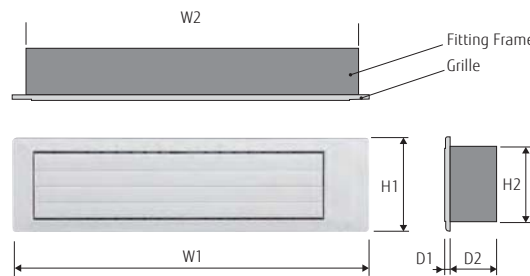


Flexible Control

- Operation with indoor unit**
 Auto Louvre can be operated by synchronising remote controller of indoor unit.
- UP and Down auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- Auto-closing louvre**
 When operation of indoor unit is stopped, the louvre will automatically close.



Dimensions



Unit:mm

Model Name	W1	W2	H1	H2	D1	D2
UTDGXSAW	683	645	180	148	9	84
UTDGXSBW	883	845				
UTDGXSCW	1,083	1,045				

Specifications

Model name			UTDGXSAW	UTDGXSBW	UTDGXSCW
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD04/07/09/12/14GALH (For VRF) ARXK07/09/12GCLH (For VRF)	ARYG18LLTB ARXD18GALH (For VRF)	ARXD24GALH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louvre Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm	180×683×(84+9)	180×883×(84+9)	180×1083×(84+9)
Weight	Net	kg	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross	(lbs)	3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louvre Motor			Stepping Motor		
Accessories			Fitting Frame, etc.		
Operation range	Cooling	°C	18 to 32		
		% RH	80% or less		
	Heating	°C	16 to 30		
List Price		£	135	151	187



OPTIONAL PARTS LIST

For SPLIT & MULTI SPLIT
For VRF
FUNCTION LIST
SEPARATION TUBE etc.



PRODUCT LINEUP: OPTIONAL PARTS

OPTIONAL PARTS LIST for SPLIT/MULTI SPLIT



		Indoor unit										Floor	Ceiling
		Cassette			Duct								
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big			
		AUYG 12/14/18 LVLB, AUYG 24LVLA	AUXG 18/24/30/ 36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG 12/14/18/24/ 30/36/45/54 LHTBP	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 30/36LRTE, ABYG 36/45/54 LRTA	
Human Sensor Kit			• UTY-SHZXC										
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.									• UTY-XSZX			
Cassette Grille	 UTG-UFYD-W UTG-UGYA-W UTG-UKYA-W UTG-UKYC-W	• UTG-UFYD-W	• UTG-UKYA-W UTG-UKYC-W	• UTG-UGYA-W									
Auto Louvre Grille Kit					• UTD-GXSA-W (12/14) UTD-GXSB-W (18)								
Long Life Filter							• UTD-LFNA UTD-LFNB UTD-LFNC	• UTD-LF25NA	• UTD-LF60KA (45/54)	• UTD-LFKA			
Flange								• UTD-SF045T UTD-RF204				• UTD-RF204	
Drain Pump Unit								• UTZ-PX1NBA		• UTZ-PX1NAB		• UTR-DPB24T	
Fresh Air Intake Kit	 For Compact Cassette For Cassette	• UTZ-VXAA	• UTZ-VXRA										

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

OPTIONAL PARTS LIST for VRF








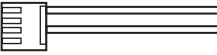
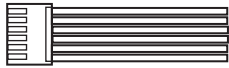

		Indoor unit										
		Cassette			Duct						Floor	Ceiling
		Compact Grid type / Standard type	4-way (Slim)	4-way (Large)	Circular Flow (Slim)	Bulkhead (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure		—	
AUXB 04GBLH, AUXB 07/09/12/14/18/24 GALH	AUXD 18/24GALH	AUXA 30/36/45/54 GALH	AUXM 018/024/030 GLAH	ARXX 07/09/12 GCLH	ARXD 04/07/09/12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH	ARXC 72/90GBTH, ARXC 96GATH	AGYA 007/009/012/014 GCAH	ABYA 30/36/45/54 GATH		
Human Sensor Kit					● UTY-SHZXC							
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.									● UTY-XSZX		
Cassette Grille	 UTG-UFYE-W UTG-UFYC-W UTG-UKYC-W	● UTG-UFYE-W UTG-UFYC-W			● UTG-UKYC-W							
Auto Louvre Grille Kit						● UTD-GXSA-W, UTD-GXSB-W (18), UTD-GXSC-W (24)						
Long Life Filter							● UTD-LF25NA	● UTD-LF60KA				
Flange							● UTD-SF045T UTD-RF204					● UTD-RF204
Drain Pump Unit							● UTZ-PX1NBA					● UTR-DPB24T
Fresh Air Intake Kit*1	 For Compact Cassette	● UTZ-VXAA	● UTZ-VXRA	● UTZ-VXRA								







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

PRODUCT LINEUP: OPTIONAL PARTS

FUNCTION LIST for VRF

External Inputs & Outputs

For Indoor unit £9 each		For Outdoor unit £9 each	
UTY-XWZXZ7 	UTY-XWZXZD 	UTY-XWZXZ6 	
UTY-XWZXZB 	UTY-XWZXZE 	UTY-XWZXZ9 	
UTY-XWZXZC 		UTY-XWZXZF 	

For RB unit £9 each	For Central Remote Controller £9 each	For Touch Panel Controller £9 each
UTY-XWZXZ6 	UTY-XWZXZ7 	UTY-XWZXZA 
UTY-XWZXZB 	UTY-XWZXZ8 	
	UTY-XWZXZA 	

Function list

	Indoor unit	Outdoor unit	Controller		Other	
			Central Remote Controller	Touch Panel Controller	RB Unit	
Input	Operation / Stop	●UTY-XWZXZD ○UTY-XWZXZB	—	—	—	
	All On / All Off	—	—	●*3 ○*3	—	
	Batch Stop	—	●UTY-XWZXZ6	—	—	
	Forced Stop	●UTY-XWZXZD ○UTY-XWZXZB	—	—	—	
	Emergency Stop	●UTY-XWZXZD ○UTY-XWZXZB	●UTY-XWZXZ6	●UTY-XWZXZ7 ○UTY-XWZXZ8	●*3 ○*3	—
	Forced Thermostat off	●UTY-XWZXZE ○UTY-XWZXZ7	—	—	—	—
	Low Noise Mode Operation	—	●UTY-XWZXZ6	—	—	—
	Cooling / Heating Priority	—	●UTY-XWZXZ6*1	—	—	●UTY-XWZXZ6 ○UTY-XWZXZB
	"Outdoor Unit Operation Peak Control"	—	●UTY-XWZXZ6	—	—	—
	"Power Usage Information from Electricity Meter"	—	●UTY-XWZXZF	—	●*3 ○*3	—
Output	Operation Status	●UTY-XWZXZC	○UTY-XWZXZ6	○UTY-XWZXZA	○UTY-XWZXZA	—
	Error Status	●UTY-XWZXZC	○UTY-XWZXZ6	○UTY-XWZXZA	○UTY-XWZXZA	—
	Indoor Unit Fan Operation Status	●UTY-XWZXZC	—	—	—	—
	Auxiliary Heater Output	●UTY-XWZXZC*2	—	—	—	—
	Base Heater	—	●UTY-XWZXZ9	—	—	—

*1. Heat Pump type only

*2. Duct type only

*3. Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry Contact ○: Apply Voltage

For Duct type

Flange (Round) £31

UTD-RF204

For Medium Static Pressure Duct type /
Ceiling type - pack of 4**Flange (Square) £42**

UTD-SF045T

For Medium Static Pressure Duct type

**Remote Sensor Unit £56**

UTY-XSZX

For All Duct type

New amenity space can be
offered by installing the
Remote sensor.**Long-Life Filter**

UTD-LF25NA £95

For Medium Static
Pressure Duct type

UTD-LF60KA £95

For High Static
Pressure Duct type**Auto Louvre Grille Kit**

UTD-GXSA-W £135

(for ARXD04-14GALH, ARXK07-12GCLH)

UTD-GXSB-W £151

(for ARXD18GALH)

UTD-GXSC-W £187

(for ARXD24GALH)

**Drain Pump Unit £62**

UTZ-PX1NBA

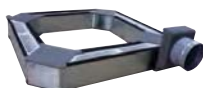
For Medium Static Pressure Duct type



For Cassette type

Fresh Air Intake Kit £291

UTZ-VXAA

For Compact
Cassette type**Fresh Air Intake Kit £364**

UTZ-VXGA

For Cassette type

**Fresh Air Intake Kit £364**

UTZ-VXRA

For Circular Flow
Cassette type**Human Sensor Kit £65**

UTY-SHZXC

For Circular Flow
Cassette type**Cassette Grille**

UTG-UFYD-W

For Compact Cassette type
£133**Cassette Grille**

UTG-UGYA-W

For Cassette type
£166**Cassette Grille**

UTG-UKYC-W

For Circular flow Cassette type
£174**Cassette Grille**

UTG-UFYE-W

For Compact Cassette type VRF
£157

For Ceiling type

Drain Pump Unit £47

UTR-DPB24T

For Ceiling type

**Flange (Round) £31**






UTD-RF204

For Ceiling type
pack of 4



















PRODUCT LINEUP: OPTIONAL PARTS

SEPARATION TUBE etc.











For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

Separation Tube		Comtest	Service Monitoring Tool	Heat Sink Pack
<p>UTPSX236A / UTPSX254A £72/72 For 3-phase Simultaneous Multi</p> <p>UTPSX272A £142 For Simultaneous Multi Twin / Triple / Quad</p> 	<p>UTPSX354A £97 For 3-phase Simultaneous Multi</p> <p>UTPSX372A £191 For Simultaneous Multi Twin / Triple / Quad</p> 	<p>Comtest COMTEST £40</p> 	<p>Service Monitoring Tool UTYASSX £239</p> 	<p>Heat Sink Pack HSPACK01 £POA</p> 

For VRF

Separation Tube			
<p>UTPAX054A £53</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPAX090A £61</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPAX180A £90</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPAX567A £157</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 
<p>UTPBX090A £67</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPBX180A £96</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPBX567A £162</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPLX180A £90 For DX-Kit</p> 

Header

<p>UTRH0906L £163 UTRH1806L £165</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTRH0908L £167 UTRH1808L £171</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTRJ0906A £218 UTRJ1806A £224</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPJ0908A £229 UTPJ1808A £234</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 
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Outdoor Unit Branch Kit

<p>UTPCX567A £157</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTPDX567A £162</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>USB Adaptor £468 USB75010R Needed for UTYASGXZ1 UTYAMGXZ1 UTYALGXZ1 UTYAPGXZ1 UTYABGXZ1</p> 	<p>Outdoor Unit Strip & Rebuild From £1800 (Terms & Conditions Apply)</p> 
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For VRF

EV Kit	RB Unit		
Model code ≤ 09 : UTREV09XB £71 Model code ≤ 12 : UTREV14XB £71 For Compact Wall Mounted type 	UTPRX01AH £337 / UTP-RX01BH £372 / UTPRX01CH £427 Single type 	UTPRX04BH £1345 Multi 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
List Price	£ 53	61	90	157

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
List Price	£ 67	96	162

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
System List Price	£	163 / 167	165 / 171

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
List Price	£	218 / 229	224 / 234

Outdoor unit Branch kit

Model name	UTPCX567A (for V-III)		UTPDX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1	
	3 outdoor units	2	
List Price	£	157	162

EV Kit

Model name	UTREV09XB	UTREV14XB
Application model	ASYE04GACH ASYE07GACH ASYE09GACH	ASYE12GACH ASYE14GACH
List Price	£ 71	71

RB Unit

Type	Single type			Multi type	
Model name	UTPRX01AH	UTPRX01BH	UTPRX01CH	UTPRX04BH	
Power source	V/Ø/Hz	230/ 1 / 50			
Input power	W	17	24	31	96
Number of branches		1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW	$Q \geq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 56.1^{*1}$
Maximum capacity of connectable indoor units per branch (Q)	kW	$Q \geq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 18.0$
Maximum number of connectable indoor units per branch		3	8	8	8
Dimensions (H×W×D)	mm	198×298×268			260×658×428
List Price	£	337	372	427	1345

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

Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analysed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (Locally purchased)
- * The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
 - UTR-YSTB / UTR-YSTC (Service Tool)
 - UTR-YMSA (Web Monitoring Tool)

Note: Older Version UTY-ASGX will be sent out while stocks last
 Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

Automatic operation check for refrigeration cycle

After product installation, operation check can be performed automatically. Self-diagnosis function automatically judges whether each sensor value is normal, so the operation check work can be reduced. The diagnosis can also be output for a report.



[Note] Use only as a guide and judge for yourself finally.

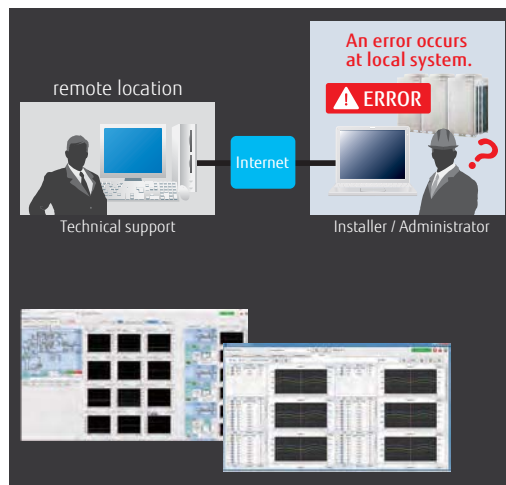
Whether each sensor value is normal is judged automatically.

- Discharge temperature normal value OK
- Super heat volume normal value OK
- High pressure pipe normal value OK
- Low pressure pipe normal value OK
- ...etc.



Remote technical support & maintenance

On-site check screen can be shared with the engineer on site. When visiting for troubleshooting on site, operation status can be shared in real time and get assistance easily. Online chat function helps to support on site staff.



Various trend graph display

Previously, only 3 kinds of each sensor value can be displayed. However, multiple graphs can be displayed in new Service Tool depending on the situation. The refrigeration cycle can be checked in detail.

Personal computer system requirements

UTYASGXZ1	
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none"> • 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • 2 USB ports - 1 USB port is required for software protection key connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

Packing list

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.
List Price	£	629

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

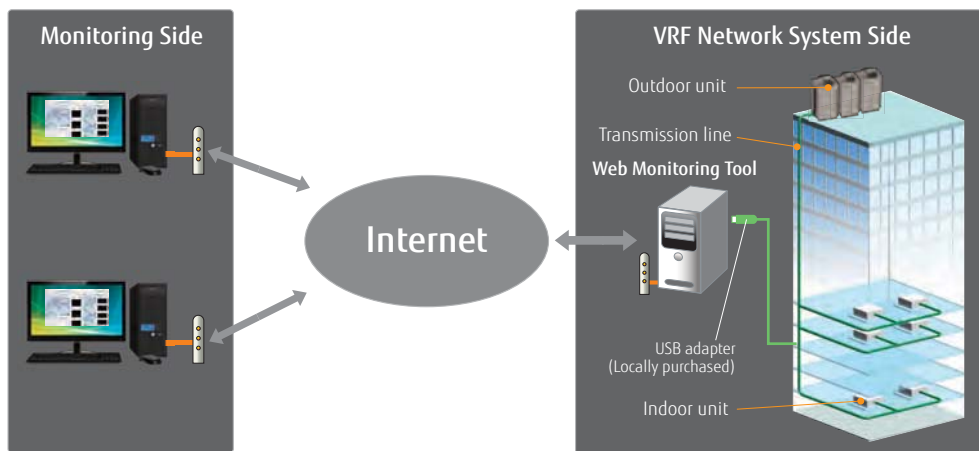
Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

*1: Use of internet mail system required.

Note: Older Version UTY-AMGX will be sent out while stocks last
Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

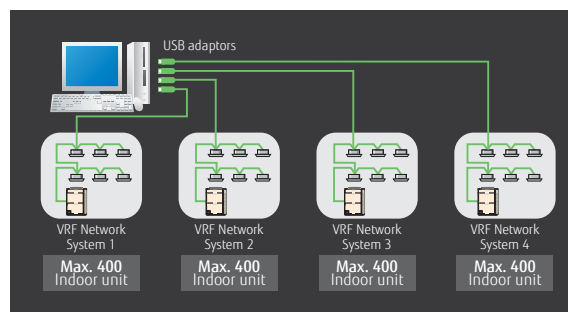
Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.



Personal computer system requirements

UTYAMGXZ1	
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none"> • 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • USB port (for 10 USB Network Interface Max.4, Software protection key) • Either of the following interface is required for remote connection: <ul style="list-style-type: none"> - Internet using LAN: Ethernet port is required
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

Packing list

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.
List Price	£	POA

- Personal computer that satisfies the following system requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Refrigerant Leak Detection

The F-Gas regulations are an EU environmental regulation brought into effect on the 4th July 2007, as part of the European Union's obligations under the Kyoto protocol. F-gasses or HFC's (hydrofluorocarbons) can cause harm to our environment and cause climate change. These regulations are directed at reducing cover both pure HFC's such as R134a and blends like R404a.

Refrigerant Leak Detection

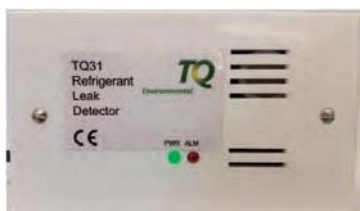
To Meet the requirements of BS-EN378 all split / VRF systems containing refrigerant gasses installed in a Catagory Class A space (Hotel Bedroom or similar) must meet the limitations regarding maximum system refrigerant volumes that could leak within the space

Fujitsu's Design Simulator program can be used to accuratley calculate the actual refrigerant volumes based on the system size and the poposed pipe-work lengths and configuration

If these aformentioned limitations are exceeded there must be an alarm system to alert the occupier through both audible and visual indication, this alarm must also alert the staff such as supervisors, night porters etc.

There is no specific requirement for the alarm system to be linked to the refrigerant system to pump down or stop the operation.

Individual Sensors



TQ31

Monitors all refrigerant gasses typically used in air conditioning systems

Stand alone, single point refrigerant detector and alarm unit ideal for room monitoring.

Resistant to cross sensitivity from hairspray and deodorants so are ideally suited in a hotel / Bedroom environment.

Designed as a single point, self contained unit but can be connected to a TQ32 Area Alarm panel for remote monitoring and group alarms.

Area Alarm Panels & Indicator Panel



TQ32 (32 Channel & 64 Channel)

Upto 64 individual sensor inputs gives wide area coverage

The TQ32 Area Alarm Panel combined with the TQ31 sensors enables the group monitoring of individual rooms for common refrigerants used in air conditioning systems

Designed for hotel or office use, a single alarm panel will typically monitor 1 or 2 floors depending on the number of sensors needed.

The 3 digit LED display shows individual room numbers.

Configurable alarm outputs can provide plant trip signals and alert the reception desk, via the optional TQ34 indicator panel or a 3rd party alarm.



TQ34

Upto 8(max) Area Alarm Panel inputs for whole building coverage

The TQ34 Floor Indicator Panel combined with the TQ32 Area Alarm Panels and the TQ31 Individual Sensors enables the monitoring of the entire building

Designed for hotel or office use, a Indicator panel will typically monitor 1-8 floors depending on the number of Area Alarm panels used

Specifications

Model name	TQ31	TQ32 (32 Channel)	TQ32 (64 Channel)	TQ34
Power Source	220/240v 50Hz	220/240v 50Hz	220/240v 50Hz	220/240v 50Hz
Power Consumption	<1.5w	<1.5w	<1.5w	<1.5W
Max switching current (Amp)	2	2	2	2
Indicator LED's	Power, Alarm	Power, Alarm, Room Number	Power, Alarm, Room Number	Power, Alarm, Floor Number
Audible Alarm (minimum dB)	75	85	85	85
Gases Detected	Halocarbon Refrigerants	-	-	-
Detection Range	10000 PPM (factory set 1000-5000)	-	-	-
Dimensions (H x W x D) (mm)	85 x 146 x 50	364 x 284 x 120	364 x 284 x 120	364 x 284 x 120
Weight (Kg)	0.3	1 approx.	1 approx.	1 approx.
List Price	£ 288	2271	2574	1969

