



1. GENERAL INFORMATION

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1. GENERAL INFORMATION

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1. FEATURES OF SYSTEM

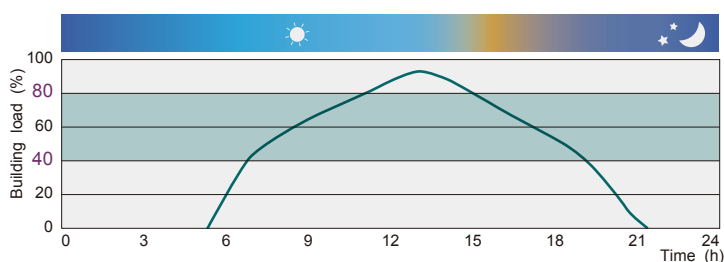
1-1. HIGH ENERGY SAVING

■ EFFICIENCY IN ACTUAL OPERATION

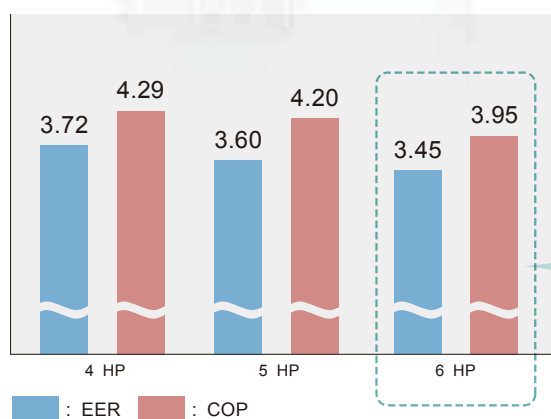
The building load is the range of almost 40 % to 80%. Therefore, most air conditioners do not operate at maximum load, but operate at low to medium loads. Especially, for multi system, operation performance at partial load is important because all the air conditioners do not always operate all the time. Aiming at energy saving performance matched to actual operation, Fujitsu General has developed a high intermediate performance air conditioner corresponding not only to the rated performance at 100% load, but also to low to medium load



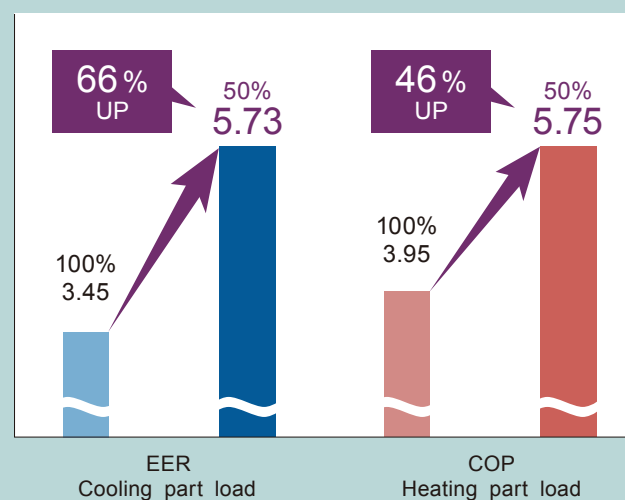
Load curve (a typical office building)



High EER / COP



High part load performance (6HP class)



Conditions : Connected indoor units: AUXD30LALH+AUXD24LALH

Cooling : indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB

Heating : indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB

■ ADVANCED HIGH EFFICIENCY TECHNOLOGY



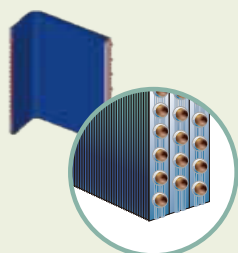
Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.



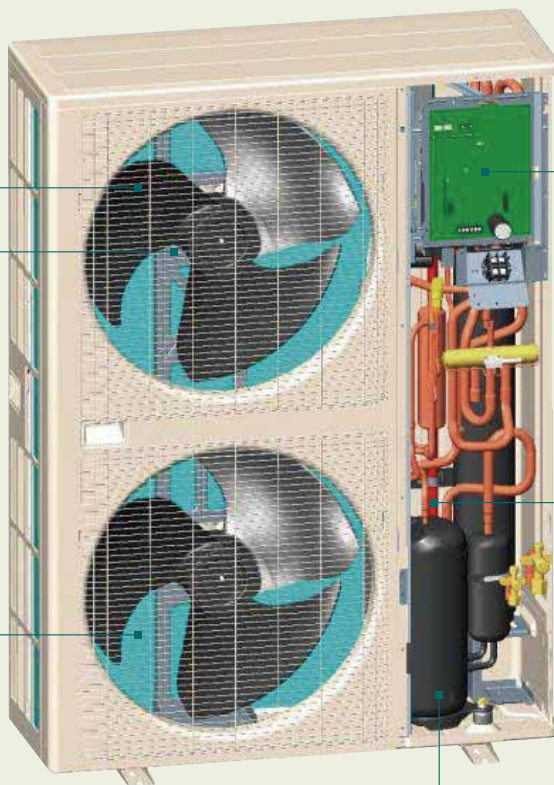
DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



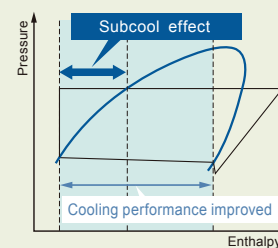
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

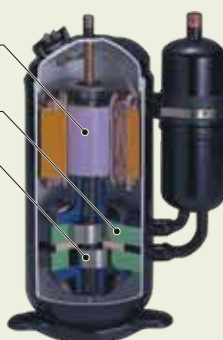
Cooling performance is improved by mounting of dual tube heat exchanger.



High efficiency compressor motor

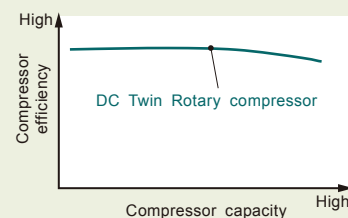
Optimized refrigerant flow design

Highly accurate parts



DC twin rotary compressor

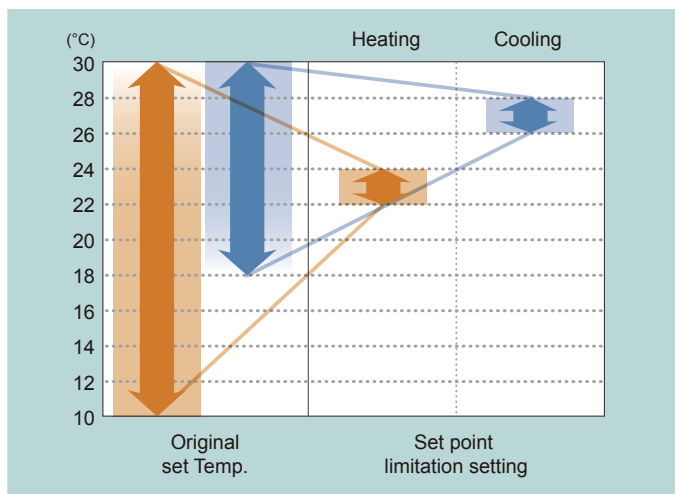
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



■ OPERATION PERFORMANCE IS EFFICIENTLY CONTROLLED

● Room temperature set point limitation

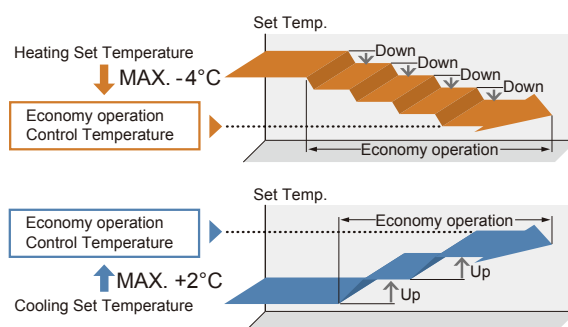
The minimum and maximum temperature range can be set.



Central Remote Controller

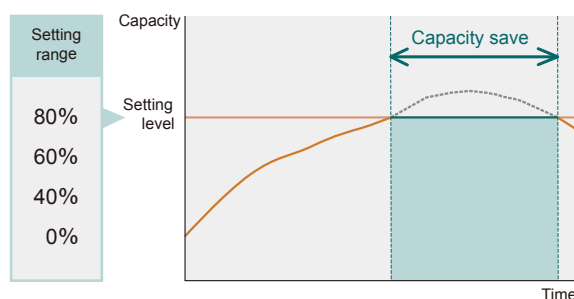
● Economy operation

The temperature setting is offset automatically over a certain period of time.



● Capacity save operation

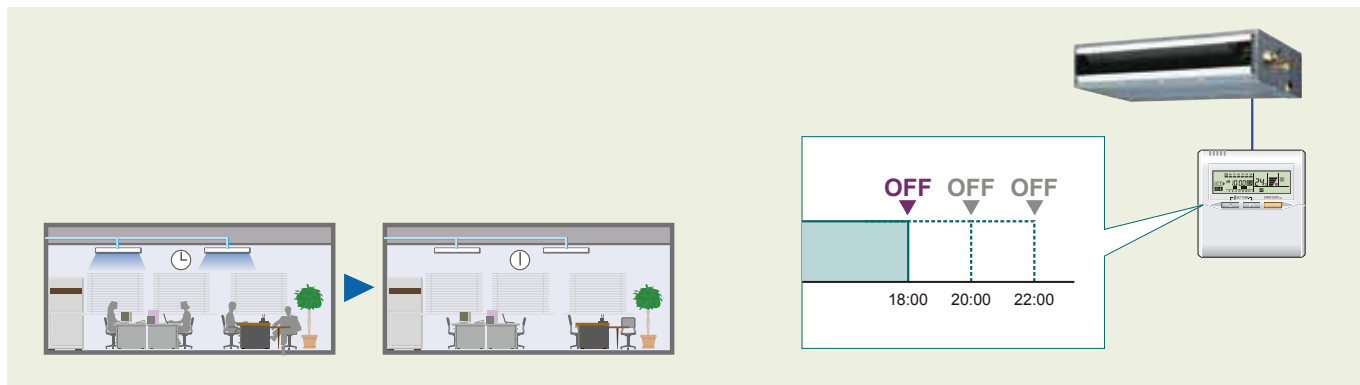
The power consumption at peak is cut down.



■ WASTEFUL OPERATION IS PREVENTED

● Auto Off function

This prevents waste of energy.



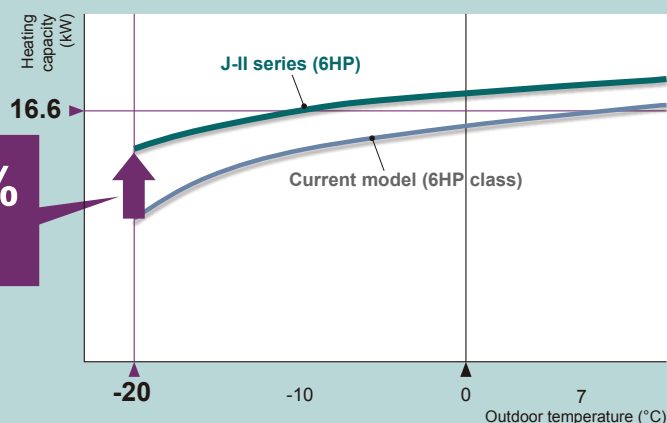
1-2. MORE COMFORT

■ POWERFUL HEATING

Heating capacity is improved at low outdoor temperature by our advanced technology.



33% UP!



■ LOW NOISE DESIGN

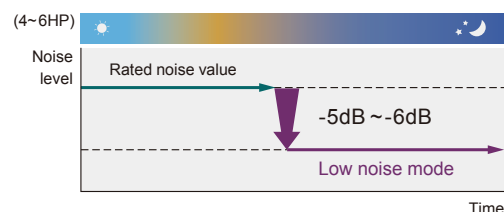
● Low noise design of outdoor unit

Significantly reduced noise by optimized airflow structure design of outdoor unit.



● Low noise mode

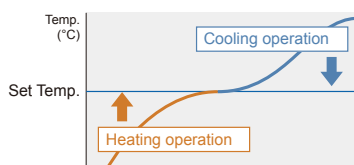
Outdoor unit can be switched to silent mode, depending on the installation environment.



■ VARIOUS COMFORT CONTROL FUNCTION

● Easy auto changeover function

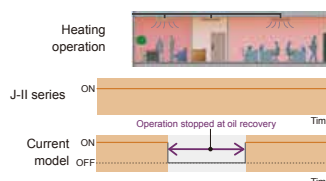
At the auto mode, cooling and heating mode is switched automatically to maintain the setting temperature.



Function setting is required.
1 indoor unit (Master) can apply this function.

● Non-stop oil recovery operation

The product continues to operate without stopping the cooling or heating operation during oil recovery modes.



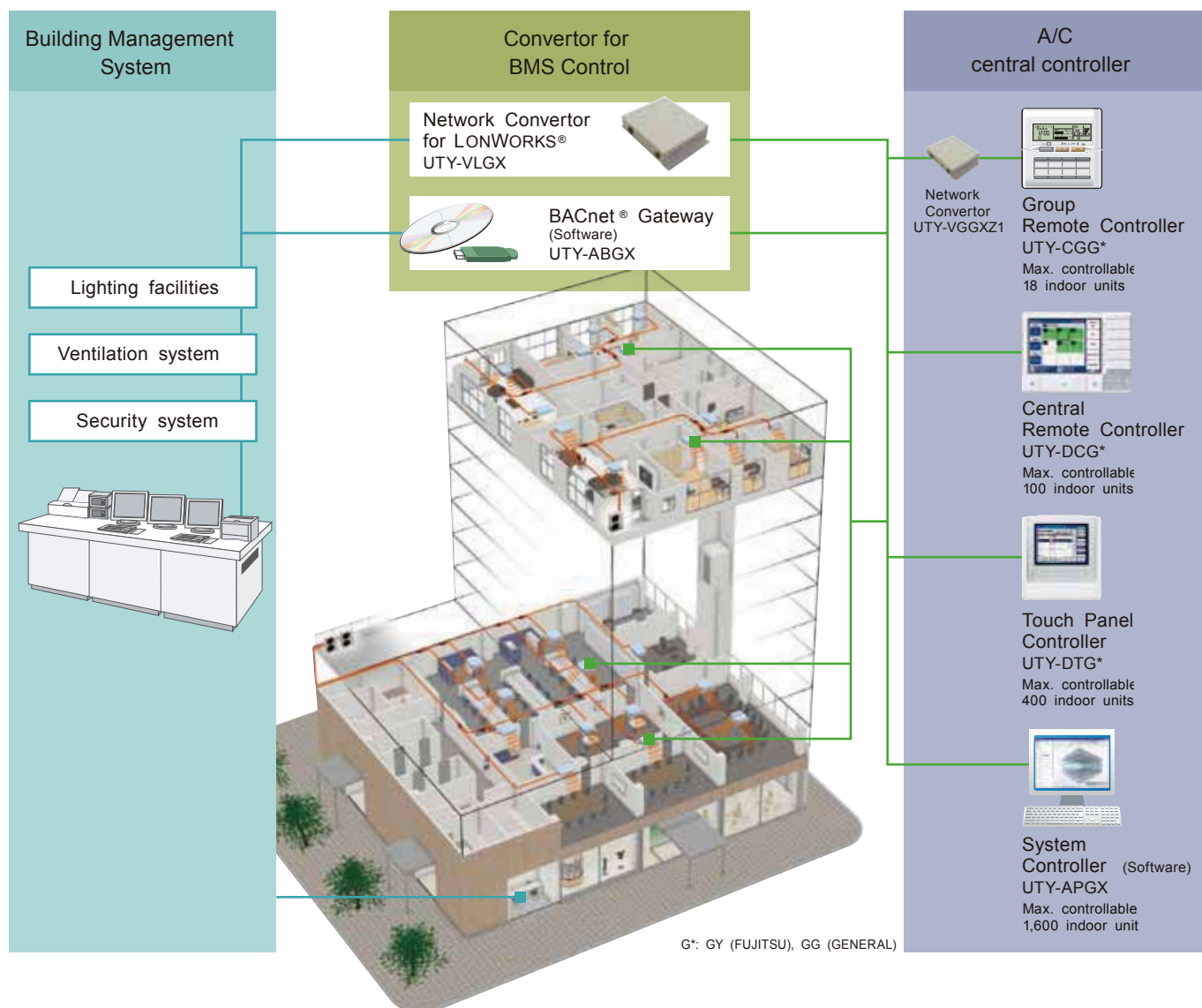
● Auto louver grill (Option for Slim Duct)

Auto louver grille provides comfort and efficient heating with louver controlled ductable outlet

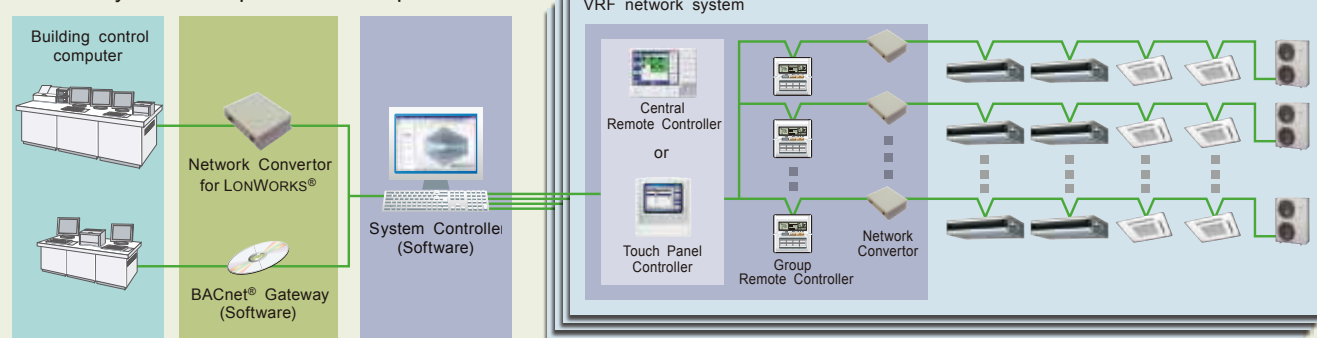


1-3. MORE CONVENIENCE

■ CENTRAL CONTROL OF SMALL OFFICE, SHOP, ETC.



Control system composition example



INDIVIDUAL AND CENTRAL CONTROL OF LARGE HOMES

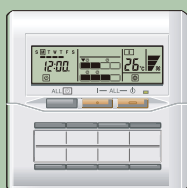
Central Remote Controller
UTY-DCG*



- Automatic display of number of connected indoor unit
- Max. controllable 100 units

or

Group Remote Controller
UTY-CGG*

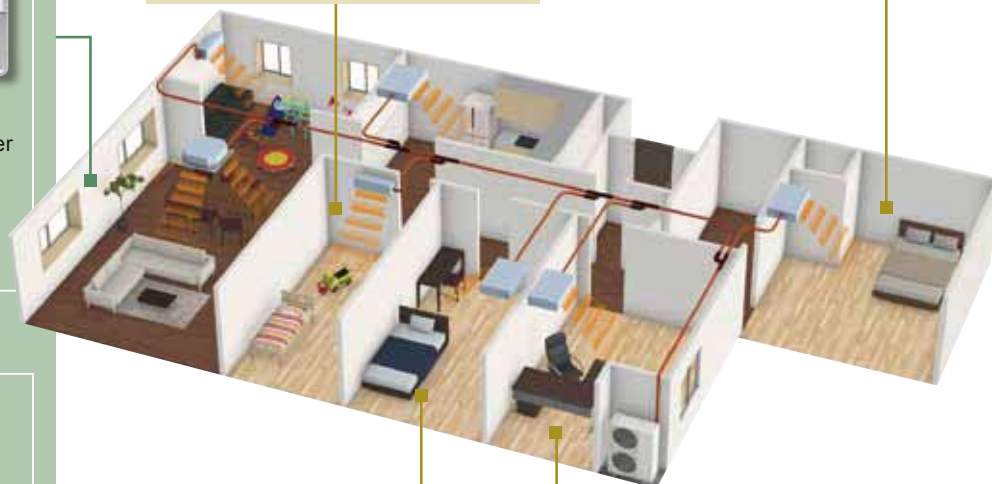


- Max. controllable 18 indoor units

Wireless Remote Controller
UTY-LNH*



Wired Remote Controller
UTY-RNK*



Simple Remote Controller



UTY-RSK*

With operation mode



UTY-RHK*

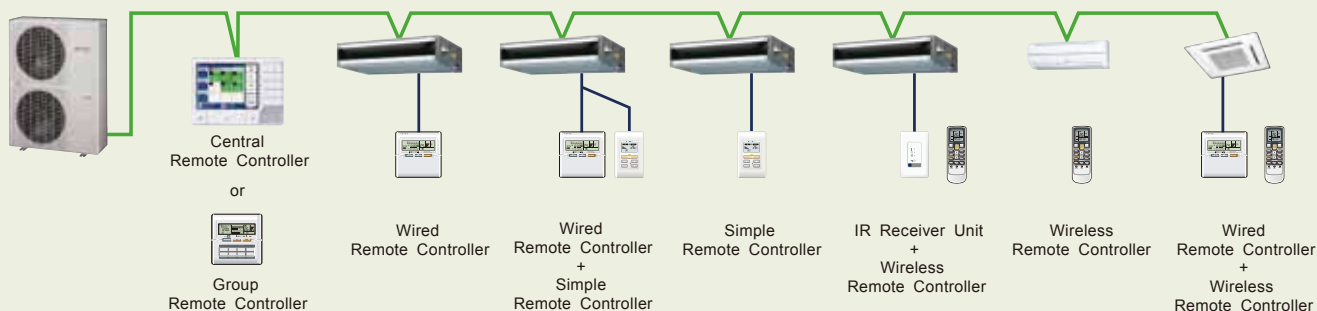
Without operation mode

Wired Remote Controller
UTY-RNR*



K*: KY (FUJITSU), KYT (FUJITSU), KG (GENERAL)
H*: HY (FUJITSU), HG (GENERAL)
G*: GY (FUJITSU), GG (GENERAL)
G*: RY (FUJITSU), RG (GENERAL)

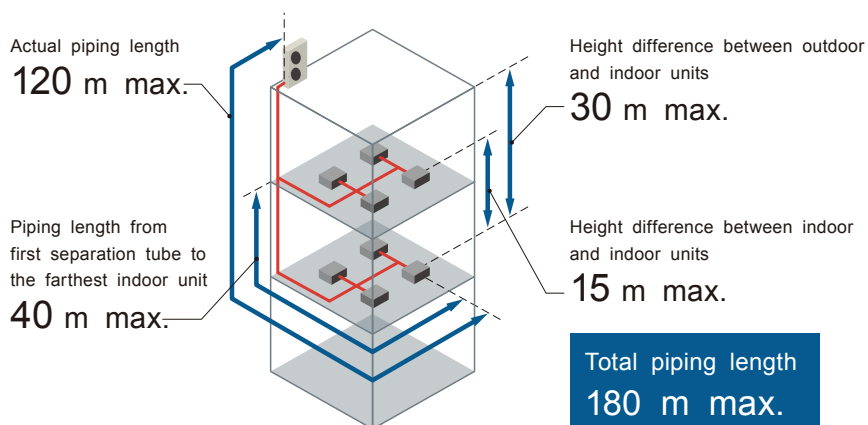
Control system composition example



1-4. MORE DESIGN FLEXIBILITY

■ LONG PIPING LENGTH

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



■ HIGH CAPACITY CONNECTION

Number of connectable indoor unit

4 HP	2 to 7 units	
5HP	2 to 8 units	
6 HP	2 to 9 units	

Indoor unit
52 models

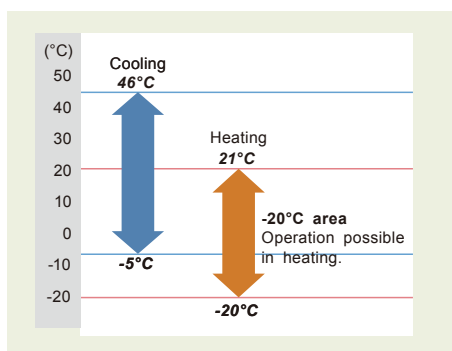
Connectable
indoor unit
capacity range
130 % max.

■ WIDE OPERATING RANGE

Installation in extreme temperature conditions is possible due to an increase in operational range.

Cooling : -5°C~46°C

Heating : -20°C~21°C

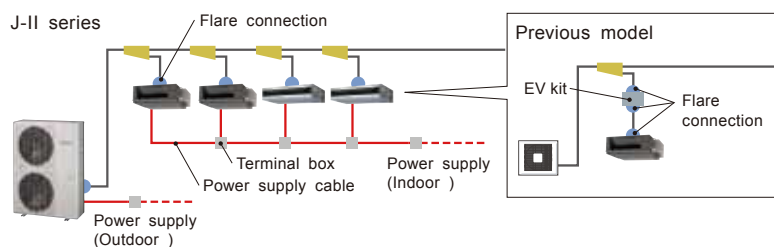


1-5. EASY INSTALLATION

■ EASIER INSTALLATION

● Easy piping connection

Improvement of the reliability by decreasing the flare connection.



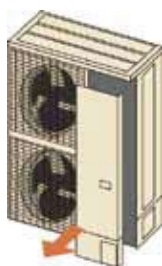
● Easy wiring connection

- Decreasing wiring mistakes by using non-polar 2 wires. (Remote controller cable is 3 wires)
- Improvement of wiring installation by common with V-II power supply method.

● Flexible installation of outdoor unit

Corresponds to the outdoor unit concentration installation.

Reduced installation intervals
by front access

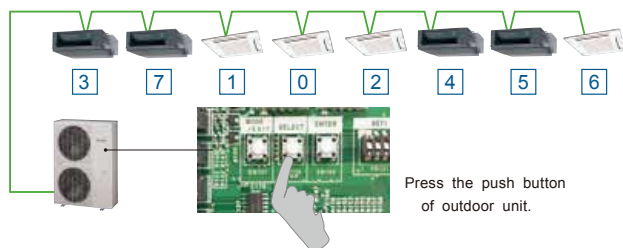


Flexible installation by
4 way pipe direction

■ CONVENIENT COMMISSIONING SUPPORT

● Automatic address setting function

The address of each indoor unit can be automatically set by button switch of outdoor unit.



Press the push button
of outdoor unit.

● Connection check function

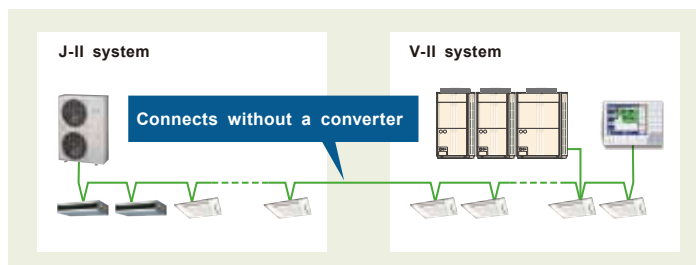
Possible to confirm whether wiring connection and address setting are correct by check run function for a short time .



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

● Easy to connect with V-II communication system

It is possible to connect directly with the transmission cable of the V-II system without convertor.

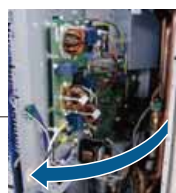
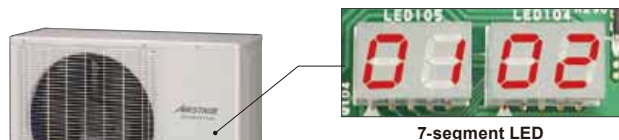


1-6. EASY MAINTENANCE

■ DESIGN FOR EASY MAINTENANCE

● Easy to read 7-segment LED

Confirm detail operational and trouble status without using specific equipment

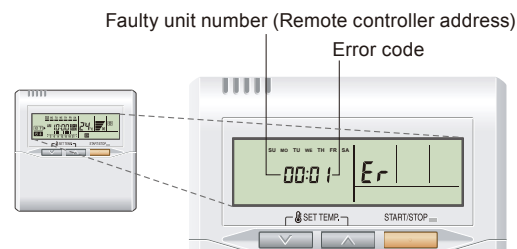


Easier for maintenance work behind the PCB

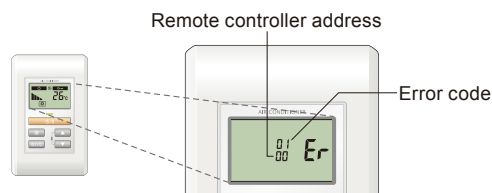
● Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

Wired Remote Controller



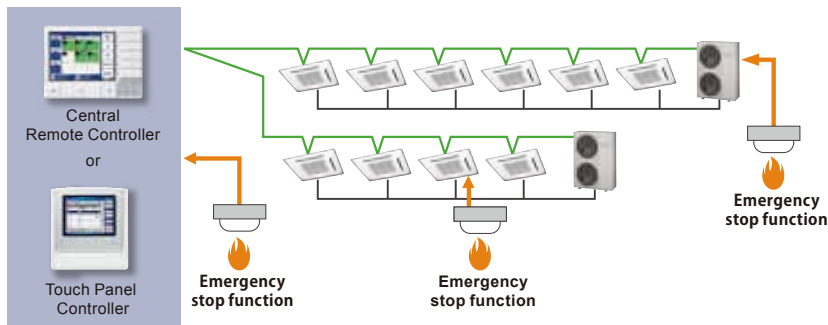
Simple Remote Controller



■ EMERGENCY STOP FUNCTION

Emergency alarm can be received by indoor, outdoor units, Central Remote Controller or Touch Panel Controller when they received it, all units will be stopped.

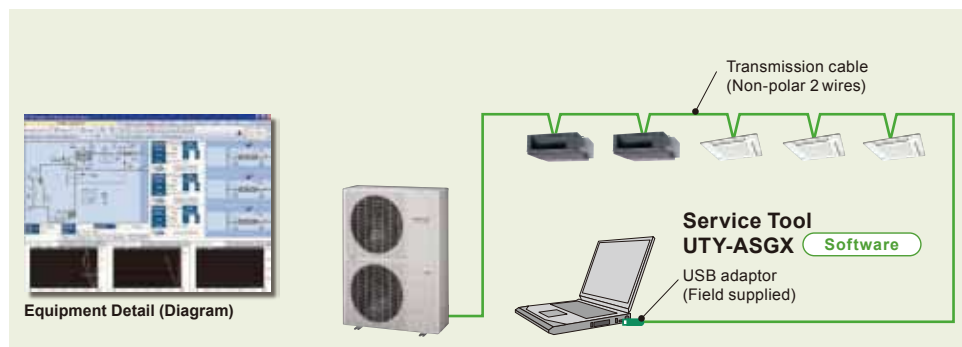
Note : In case of received Emergency alarm by Indoor / outdoor unit : All units connected within same refrigerant system will be stopped. Central Remote Controller or Touch Panel Controller : all units connected within VRF network system with Central Remote Controller or Touch Panel Controller will be stopped.



■ TROUBLE DIAGNOSIS BY SERVICE TOOL

Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using Service Tool.
- Last 5 min. operation memory can be also recorded.



2. MODEL LINE UP

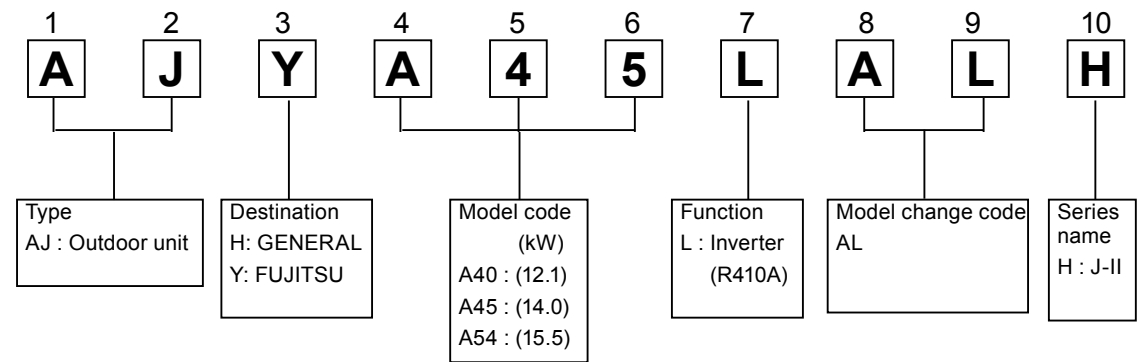
2-1. OUTDOOR UNIT

- Line up from 4HP to 6HP in 1HP increments.

■ LINE UP (SINGLE)

HP	Capacity (kW)	Model name	Chassis	Maximum connectable indoor unit
4	12.1	AJ*A40LALH		7
5	14.0	AJ*A45LALH		8
6	15.5	AJ*A54LALH		9

■ MODEL DESIGNATION



2-2. INDOOR UNIT

■ LINE UP (1/2)

Various combinations of types and capacity 52 models, ranging from 1.1kW to 14.0kW.

Capacity		Compact Cassette	Cassette	Low Static Pressure Duct/ Concealed Floor	Slim Duct/ Slim Concealed Floor	Medium Static Pressure Duct
kW	Model code					
1.1	04	●			●	
2.2	07	●		●	●	
2.8	09	●		●	●	
3.6	12	●		●	●	
4.5	14	●		●	●	
5.6	18	●	●	●	●	
7.1	24	●	●		●	●
9.0	30		●			●
11.2	36		●			●
12.5	45		●			●
14.0	54		●			

Compact Cassette	Cassette	Low Static Pressure Duct/ Concealed Floor
AUXB04GALH AUXB07GALH AUXB09GALH AUXB12GALH AUXB14GALH AUXB18GALH AUXB24GALH 	AUXD18GALH AUXD24GALH AUXA30GALH AUXA36GALH AUXA45GALH AUXA54GALH 	ARXB07GALH ARXB09GALH ARXB12GALH ARXB14GALH ARXB18GALH 

Slim Duct/Slim Concealed Floor	Medium Static Pressure Duct
ARXD04GALH ARXD07GALH ARXD09GALH ARXD12GALH ARXD14GALH ARXD18GALH ARXD24GALH 	ARXA24GBLH ARXA30GBLH ARXA36GBLH ARXA45GBLH 

■ LINE UP (2/2)

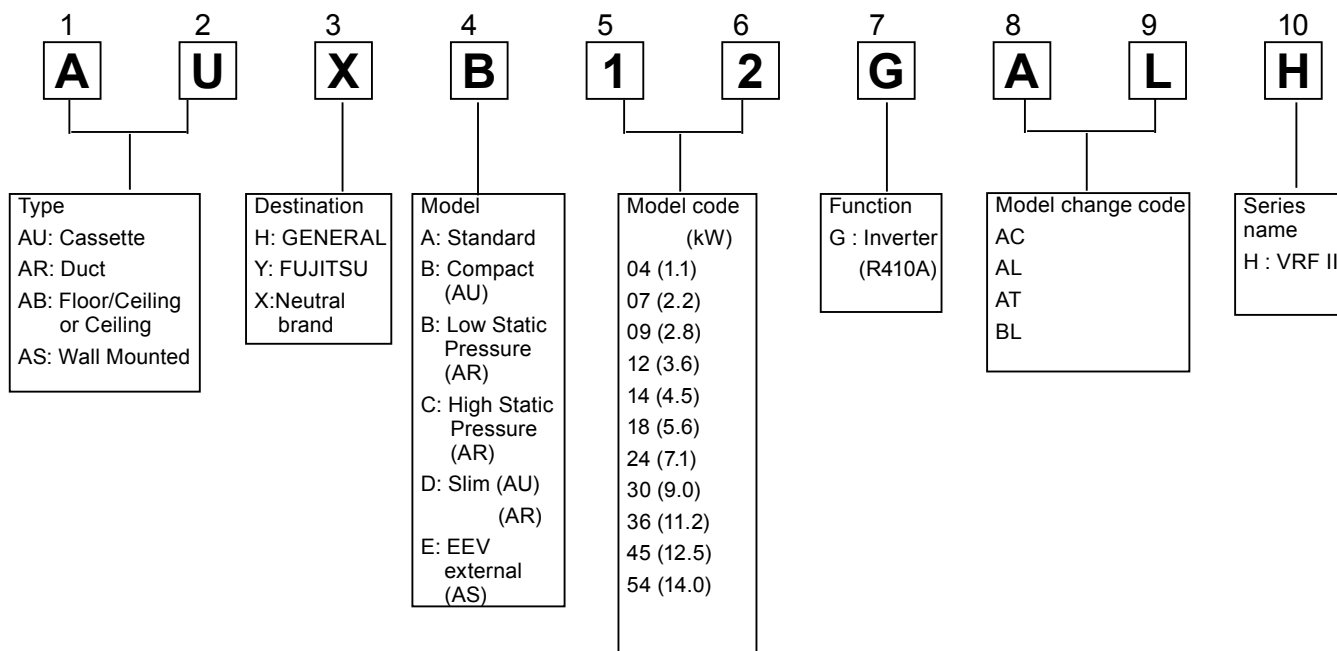
Various combinations of types and capacity 52 models, ranging from 1.1kW to 14.0kW.

Capacity		High Static Pressure Duct	Floor / Ceiling	Ceiling	Wall Mounted (EEV external)	Wall Mounted
kW	Model code					
1.1	04				●	●
2.2	07				●	●
2.8	09				●	●
3.6	12		●		●	●
4.5	14		●		●	●
5.6	18		●			●
7.1	24		●			●
9.0	30			●		●
11.2	36	●		●		
12.5	45	●		●		
14.0	54			●		

High Static Pressure Duct	Floor / Ceiling	Ceiling
ARXC36GATH ARXC45GATH 	AB*A12GATH AB*A14GATH AB*A18GATH AB*A24GATH 	AB*A30GATH AB*A36GATH AB*A45GATH AB*A54GATH 

Wall Mounted	Wall Mounted (EEV external)
AS*A04GACH AS*A07GACH AS*A09GACH AS*A12GACH AS*A14GACH AS*A18GACH AS*A24GACH AS*A30GACH 	AS*E04GACH AS*E07GACH AS*E09GACH AS*E12GACH AS*E14GACH  EV kit

■ MODEL DESIGNATION

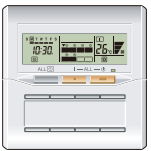


2-3. CONTROLLER

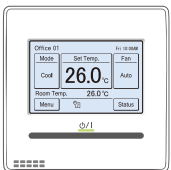
■ LINE UP

Type	Model
System Controller	UTY-APGX Option: UTY-PEGX
System Controller Lite	UTY-ALGX Option: UTY-PLGXA1, UTY-PLGXR1, UTY-PLGXE1
Touch Panel Controller	UTY-DTG*
Central Remote Controller	UTY-DCG*
Group Remote Controller	UTY-CGG*
Wired Remote Controller (Touch panel)	UTY-RNR*
Wired Remote Controller	UTY-RNK*
Simple Remote Controller (With operation mode)	UTY-RSK*
Simple Remote Controller (Without operation mode)	UTY-RHK*
Wireless Remote Controller	UTY-LNH*

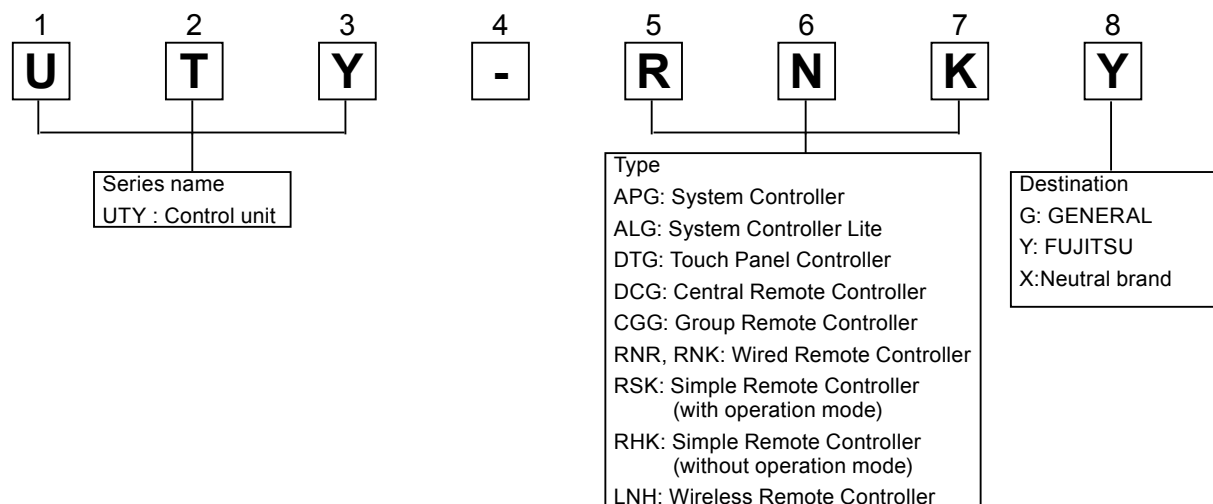
■ CENTRAL CONTROL

System Controller	Touch Panel Controller	Central Remote Controller	Group Remote Controller
 UTY-APGX / UTY-ALGX	 UTY-DTG*	 UTY-DCG*	 UTY-CGG* Network Converter (UTY-VGGXZ1) is necessary to connect Group Remote Controller to VRF network system.

■ INDIVIDUAL CONTROL

Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller
(Touch panel)  UTY-RNR*  UTY-RNK*	(With operation mode) (Without operation mode)  UTY-RSK*  UTY-RHK*	 UTY-LNH*

■ MODEL DESIGNATION



2-4. ADAPTOR / CONVERTOR / MAINTENANCE TOOL

Network Converter

Model : UTY-VGGXZ1



Split type systems can be controlled from a central controller via the convertor.

Group remote controller can be controlled up to 96 indoor units via the convertor.

Network Converter for LONWORKS®

Model : UTY-VLGX



For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS.

BACnet® Gateway

Model : UTY-ABGX



The central control of maximum 1600 indoor units can be realized by connecting the VRF network system to the BACnet®, a global standard of the open network.

Signal Amplifier

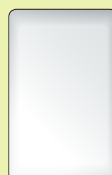
Model : UTY-VSGXZ1



If the total length of transmission line exceeds 500m, or the number of units exceeds 64, Signal Amplifier will be necessary to use.

External Switch Controller

Model : UTY-TEKX



Air conditioner switching can be controlled by connecting other external sensor switches.

Service Tool

Model : UTY-ASGX



Extensive monitoring and analysis functions for installation and maintenance. Operation status and error history can be grasped promptly and adequately.

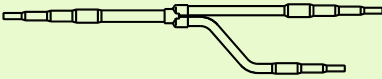
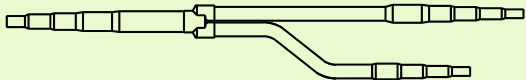
Web Monitoring Tool

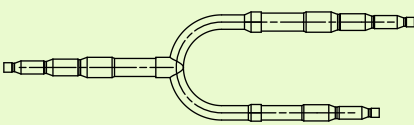
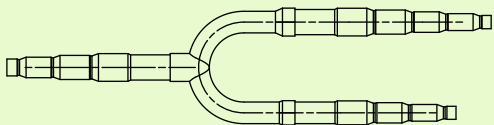
Model : UTY-AMGX

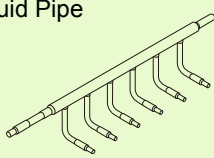
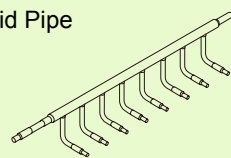
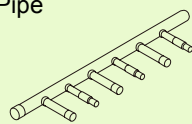
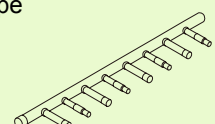


Trouble free operation at all times by web monitoring system. The operation status of the VRF network system within the building can be monitored in real time over the Internet.

2-5. BRANCH KIT

Separation Tube		Model :UTR-BP090X
Liquid Pipe	Gas Pipe	
		

Separation Tube		Model :UTP-AX090A
Liquid Pipe	Gas Pipe	
		

Header	
Model : UTR-H0906L	Model : UTR-H0908L
Liquid Pipe	Liquid Pipe
	
Gas Pipe	Gas Pipe
	

2-6. EV KIT

EV Kit

Models : UTR-EV09XB
UTR-EV14XB

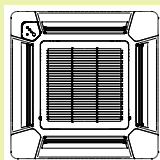


For Compact Wall Mounted type (EEV external type)

2-7. CASSETTE GRILLE

Cassette grille

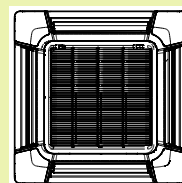
Models : UTG-UFYC-W
UTG-UFGC-W



For Compact Cassette type

Cassette grille

Models : UTG-UGYA-W
UTG-UGGA-W



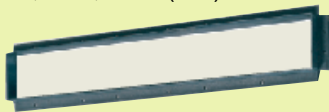
For Cassette type

2-8. OTHERS (optional parts)

Flange (Square)

Model : UTD-SF045T

For Low Static Pressure Duct / Duct type
205 x 1,063 ; L=40 (mm)



Flange (Round)

Model : UTD-RF204

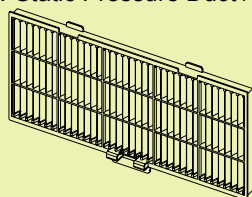
For Low Static Pressure Duct / Duct type
ø195 (ø205) ; L=85 (mm)



Long-life Filter

Model : UTD-LF25NA

For Low Static Pressure Duct / Duct type

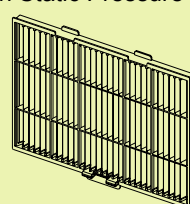


x 2 pcs

Long-life Filter

Model : UTD-LF60KA

For High Static Pressure Duct type



x 2 pcs

Drain Pump Unit

Models : UTZ-PX1BBA *1
UTZ-PX1NBA *2



*1 For Compact Duct type

*2 For Low Static Pressure Duct type / Duct type

Drain Pump Unit

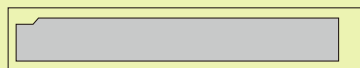
Model : UTR-DPB24T



For Ceiling type

Air outlet shutter plate

Models : UTR-YDZB



For Compact Cassette type

Air outlet shutter plate

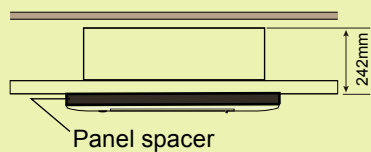
Models : UTR-YDZC



For Cassette type

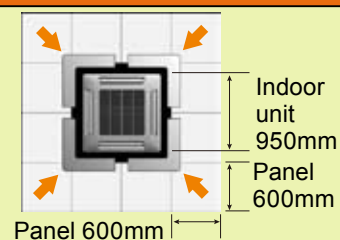
Panel spacer

Model : UTG-BGYA-W



Wide panel

Model : UTG-AGYA-W



IR Receiver Unit

Models: UTB-YWC



For all Duct type

IR Receiver Unit

Models : UTY-LRHYB1
UTY-LRHGB1

For Cassette type

Remote Sensor Unit

Model : UTY-XSZX



Thermo-sensor for sensing the temperature of arbitrary place in the room

Fresh air intake kit

Model : UTZ-VXAA



For Compact Cassette type

Fresh air intake kit

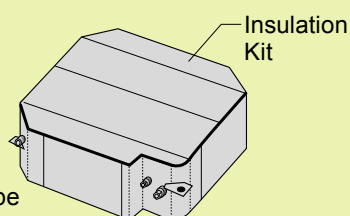
Model : UTZ-VXGA



For Cassette type

Insulation Kit for High Humidity

Models : UTZ-KXGA *1
UTZ-KXGB *2
UTZ-KXGC *3



*1 For Cassette type

*2 For Slim Cassette type

*3 For Compact Cassette type

Auto louver grille kit

Models : UTD-GXSA-W *1
UTD-GXSB-W *2
UTD-GXSC-W *3



*1 For Slim Duct (07-14 models)

*2 For Slim Duct (18 model)

*3 For Slim Duct (24 model)

3. REVISION CODE

■ ABOUT REVISION CODE

The following functions are different according to Revision code.

		Revision code		Remarks
		None or A	B	
Indoor unit *1	Forced stop function	×*2	○	
	Energy saving software UTY-PEGX	×	○	
	Setting of Auto louver grille kit (option)	×*3	○	For Slim duct type only

*1: Applicable models

Type	Model name
Compact cassette	AUXB07, 09, 12, 14, 18, 24LALH
Cassette	AUXD18, 24LALH, AUXA30, 36, 45, 54LALH
Low Static Pressure Duct/Concealed Floor	ARXB07, 09, 12, 14, 18LALH
Slim Duct/Slim Concealed Floor	ARXD07, 09, 12, 14, 18, 24LATH
Low Static Pressure Duct/	ARXB24, 30, 36, 45LATH
Medium Static Pressure Duct	ARXA24, 30, 36, 45LATH
High Static Pressure Duct	ARXC36, 45LATH
Floor / Ceiling	AB*A12, 14, 18, 24LBTH
Ceiling	AB*A30, 36, 45, 54LBTH
Wall Mounted (EEV external)	AS*E07, 09, 12, 14LACH
Wall Mounted	AS*A07, 09, 12, 14, 18, 24, 30LACH

*2: ARXD07, 09, 12, 14, 18, 24LATH (Slim Duct), AB*A12, 14, 18, 24LBTH (Floor/Ceiling), AB*A30, 36, 45, 54LBTH (Ceiling), AS*A18, 24, 30LACH (Wall Mounted) are available regardless of revision code.

*3: When attaching Auto louver grille on indoor units ARXD07, 09, 12, 14, 18, 24LATH (Slim Duct type), use the indoor unit with Revision Code B.

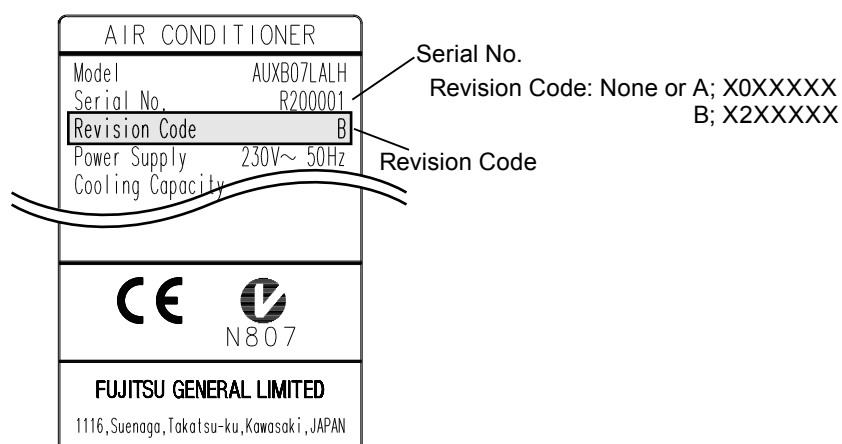
If indoor unit with Revision Code other than "B" is used, the louver does not work properly.

(Malfunctions such as the louver does not open when the operation is started, or the louver opens when the operation is stopped will occur.)

■ METHOD OF DISTINGUISHING REVISION CODE

● Indoor unit

Rating Label



Carton Label

