Refrigerant R410A

INVERTER

AIR CONDITIONER

Duct type

DESIGN & TECHNICAL MANUAL

INDOOR

AR∗G60LHTA

OUTDOOR

AO∗G60LATT

FUJITSU GENERAL LIMITED

1. INDOOR UNIT

DUCT TYPE :

AR∗G60LHTA

DUCT TYPE
AR∗G60LHTA

CONTENTS

1. INDOOR UNIT

DUCT TYPE
AR∗G60LHTA

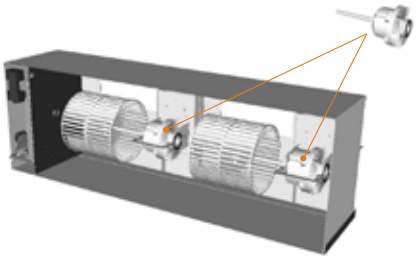
1. FEATURES

■ MODEL
AR∗G60LHTA / AO∗G60LATT

■ FEATURES

● Energy saving technology (ALL DC)

DC fan motor

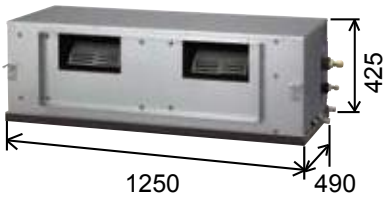


The power consumption has been reduced drastically by the introduction of DC fan motors.

● Space saving

• Compact size

High performance has been realized with a compact indoor unit.
Due to the compact size of the indoor unit, the installation space required has been reduced allowing for a wider selection on installation locations.

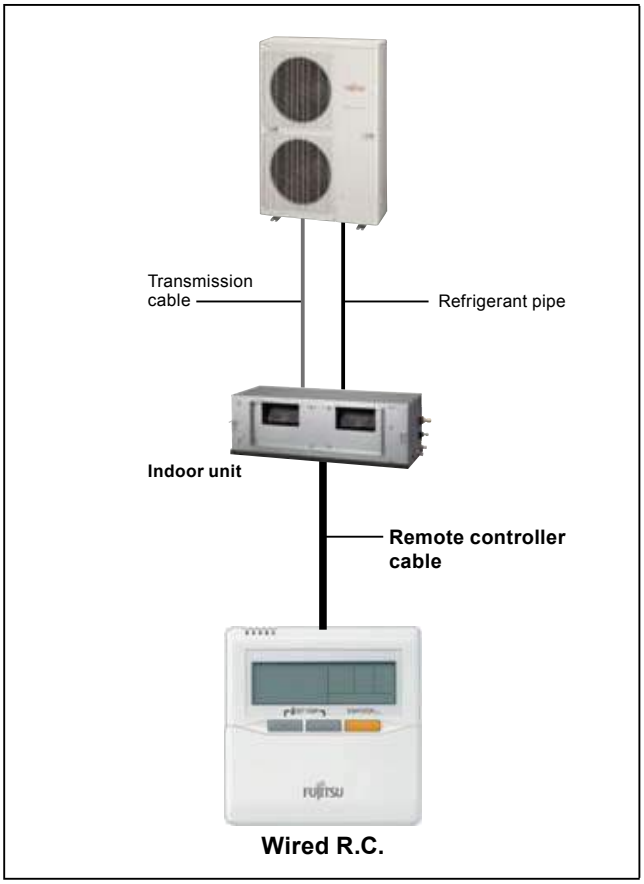


DUCT TYPE
AR∗G60LHTA

● Control system

• 1-Remote controller control

This is the most basic system.



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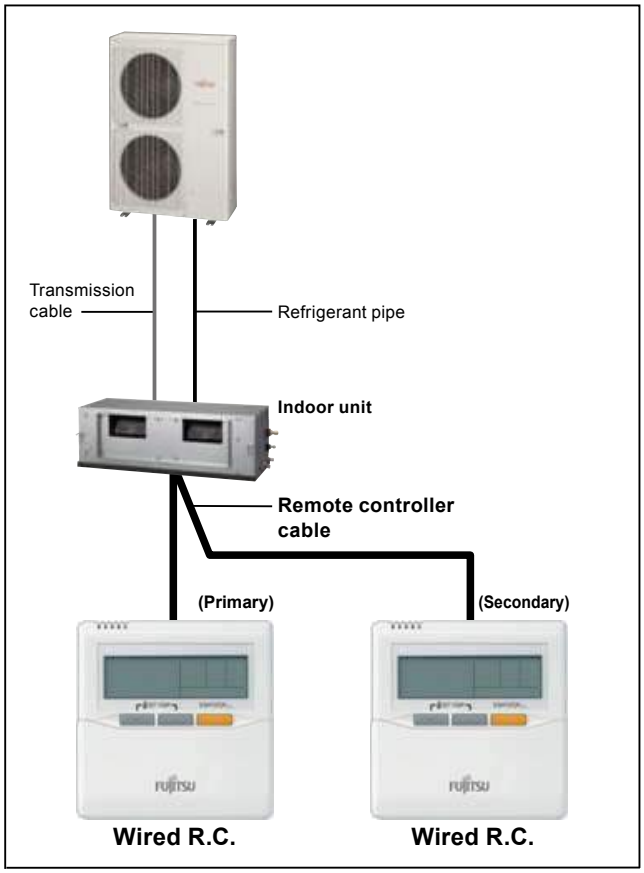
DUCT TYPE
AR∗G60LHTA

• 2-Remote controllers control

Control locally and from a remote point is possible using 2-remote controllers.

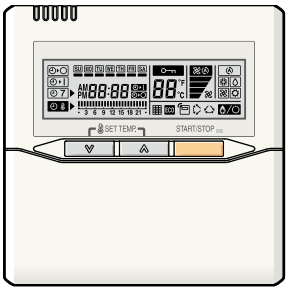


* For 2-wired type remote controllers, specify a Primary and a Secondary remote controller.
* The timer function of the remote controller specified the Secondary cannot be used.

DUCT TYPE
AR∗G60LHTA

2. WIRED REMOTE CONTROLLER

■ FEATURES



- ∗ Various timer setup (ON / OFF / WEEKLY) are possible.
- ∗ Equipped with weekly timer as standard function.(2 times Start / Stop per day for a week)
- ∗ When setting up a timer, operation mode and a temperature setup can be changed.
- ∗ When a failure occurs, the error code is displayed. (Maximum of 16)
- ∗ Error indication.(A maximum of 16 error histories are memorizable.)
- ∗ Up to 16 indoor units can be simultaneously controlled.
- ∗ The room temperature can be controlled by being detected the temperature accurately with built-in thermo sensor.

● Simple function setting

Setting of the air conditioner selection function is performed by remote controller.

● High performance and compact size

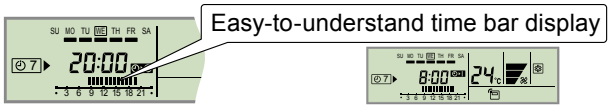
Three functions are combined in one unit.

Wired remote controller + Weekly timer + Setback timer

● Built-in timers

Weekly timer

Possible to set ON/OFF time to operate twice each day of the week.

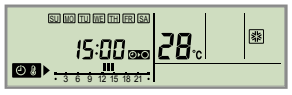


Setup screen example
(Set to Wednesday: 8:00 to 20:00.)

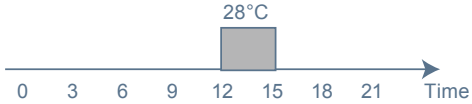
Screen after setup

Setback timer

Possible to set temperature for two time spans and for each day of the week.

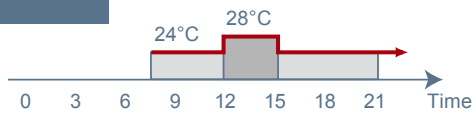


Setup screen example
(Set from Sunday to Saturday: 12:00 to 15:00, 28 °C.)

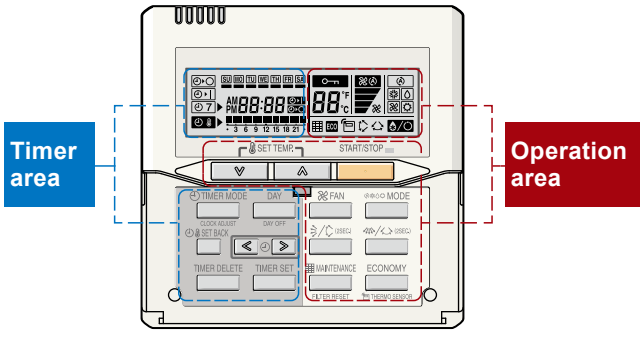


At "Weekly timer" + "Set back timer" setup

24°C → 28°C → 24°C



● Easy-to-understand operation

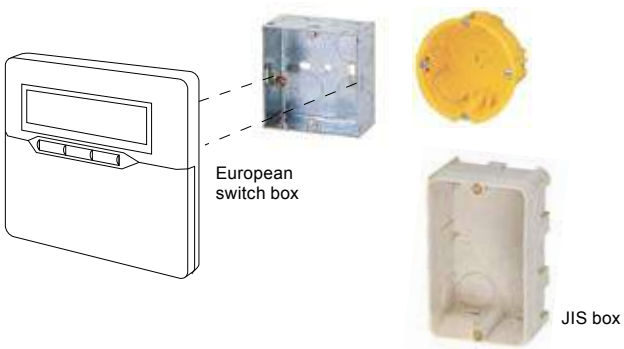


[Variable timer control]

The operation/display sections are zoned according to time and operation, enabling variable programming to match application.

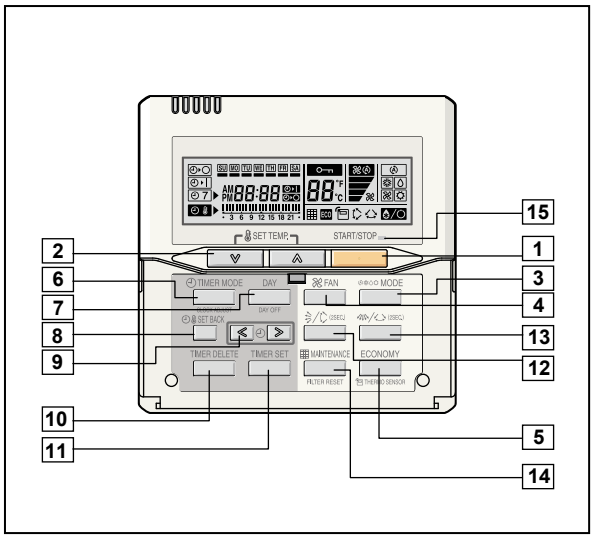
● Simple installation

Components are compatible with standard switch boxes. Flat back construction allows equipment to be installed wherever it is needed.

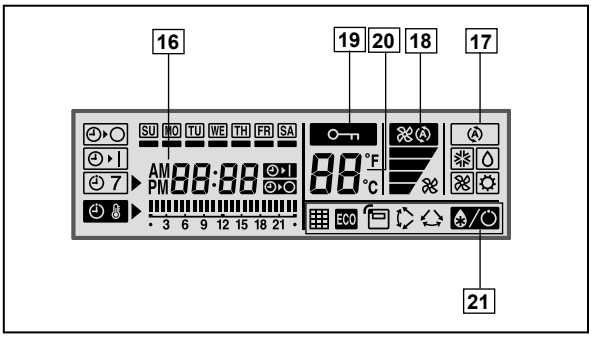


DUCT TYPE
AR∗G60LHTA

■ FUNCTIONS



Display panel



1 **START/STOP button**
Pressed to start and stop operation.

2 **SET TEMP. button**
Selects the setting temperature.

3 **MODE button**
Selects the operating mode (AUTO, HEAT, FAN, COOL, DRY).

4 **FAN button**
Selects the fan speed (AUTO, LOW, MED, HIGH).

5 **ECONOMY button**
Turns the economy efficient mode on and off.

6 **TIMER MODE (CLOCK ADJUST) button**
Selects the timer mode (OFF TIMER, ON TIMER, WEEKLY TIMER). Set the current time.

7 **DAY (DAY OFF) button**
Temporarily cancels of one day timer.

8 **SET BACK button**
Pressed to select the set back timer.

9 **Set time button**
Pressed to set time.

10 **TIMER DELETE button**
The schedule of a weekly timer is deleted.

11 **TIMER SET button**
Sets the date, hour, minute and on-off time.

12 **Vertical airflow direction and swing button**
Push for two seconds to change the swing mode.

13 **Horizontal airflow direction and swing button**
Push for two seconds to change the swing mode.

14 **FILTER RESET button**

15 **Operation lamp**
Lights during operation and when the timer is on.

16 **Timer and clock display**

17 **Operation mode display**

18 **Fan speed display**

19 **Operation lock display**

20 **Temperature display**

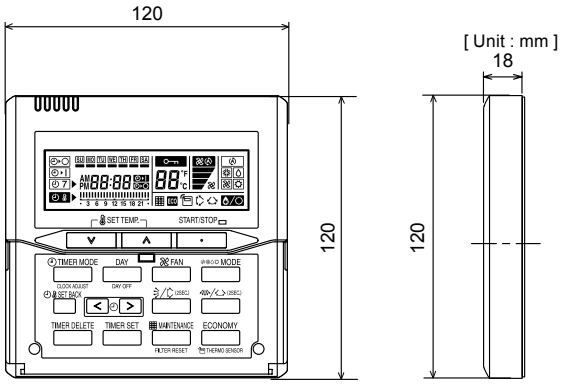
21 **Function display**

- Defrost display
- Thermo sensor display
- Economy display
- Vertical swing display
- Horizontal swing display
- Filter display

Functions will be different due to type of indoor unit.
For details, please see operation manual.

■ DIMENSION

[Unit : mm]



Front View Side View

■ SPECIFICATION

SIZE	(H x W x D mm)	120 x 120 x 18
WEIGHT	(g)	160
CABLE LENGTH	(m)	10
POWER	(V)	12

■ WIRING SPECIFICATIONS

Use	Size	Wire type	Remarks
Remote controller cable	0.33mm^2 (22AWG)	Polar 3 core	Use sheathed PVC cable.

3. SPECIFICATIONS

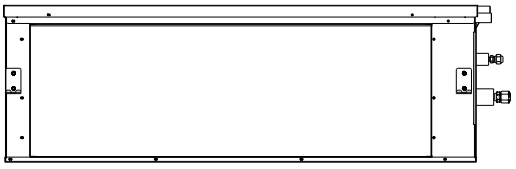
Type					DUCTED MODEL
					INVERTER HEATPUMP
Model name					AR∗G60LHTA
Power source					230V 50Hz
Available voltage range					198 - 264V 50Hz
Capacity	Cooling	Rated		kW	15.0
				Btu/h	51,200
		Min - Max.		kW	6.2-17.5
				Btu/h	21,200-60,000
	Heating	Rated		kW	18.0
				Btu/h	61,500
		Min - Max.		kW	6.2-20.0
				Btu/h	21,200-68,300
Input power	Cooling	Rated		kW	4.70
		Max			7.15
	Heating	Rated			5.15
		Max			7.15
Current	Cooling	Rated		A	6.9
	Heating				7.6
EER		Cooling		kW/kW	3.19
COP		Heating			3.50
Moisture removal				l/h (pints/h)	2.0 (3.5)
Maximum operating current *		Cooling		A	12.5
		Heating			12.5
Fan	Air flow rate	Cooling	High	m^3/h	3,550
			Med		3,000
			Low		2,450
		Heating	High		3,550
			Med		3,000
			Low		2,450
	Type × Q'ty				Sirocco x 2
	Motor output			W	197 x 2
Recommended static pressure				Pa	60-260
Sound pressure level		Cooling	High	dB (A)	45
			Med		40
			Low		36
		Heating	High		45
			Med		40
			Low		36
Heat exchanger type		Dimensions (H × W × D)		mm	378 x 1,090 x 53.2
		Fin pitch			1.3
		Rows x Stages			4 x 18
		Pipe type			Copper
		Fin type			Aluminium
Enclosure		Material			Steel
		Colour			-
Dimensions (H × W × D)	Net			mm	425 x 1,250 x 490
	Gross				490 x 1,440 x 655
Weight	Net			kg	54
	Gross				61
Connection pipe	Size	Liquid		mm	Ø 9.52 (Ø 3/8 in.)
		Gas			Ø 15.88 (Ø 5/8 in.)
	Method				Flare
Operation range		Cooling		°C	18 to 32
				%RH	80 or less
		Heating		°C	16 to 30
Remote controller type					Wired
Drain port	Material				Steel
	Size			mm	Ø 23.4 (I.D.), Ø 25.4 (O.D.)

Note :
Specifications are based on the following conditions.
Cooling : Indoor temperature of 27 °CDB / 19 °CWB.and outdoor temperature of 35 °CDB/24 °CWB.
Heating : Indoor temperature of 20 °CDB / 15 °CWB.and outdoor temperature of 7 °CDB/6 °CWB.
Standard static pressure : 60 Pa.
Pipe length : 7.5 m, Height difference : 0 m.(Outdoor unit - Indoor unit)
The protective function may work when using it outside the temperature range mentioned above.
Drain hose should be field supplied.
*: The maximum current is the maximum value when operated within the operation range.

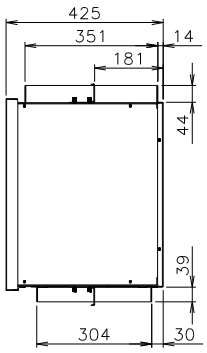
DUCT TYPE
AR∗G60LHTA

4. DIMENSIONS

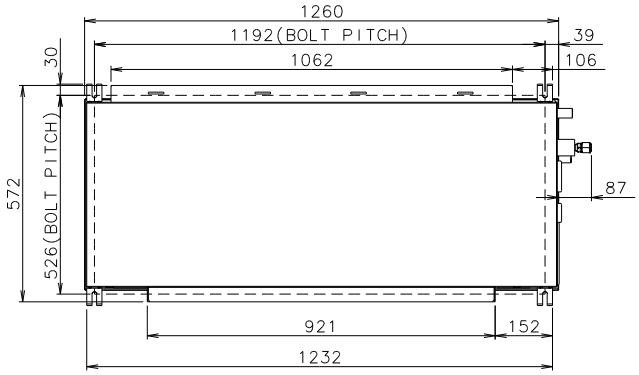
■ MODEL: AR∗G60LHTA

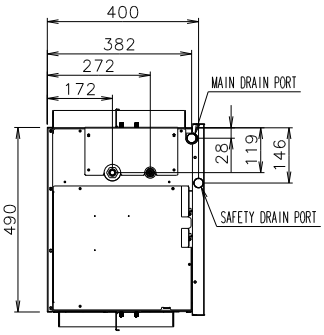


REAR VIEW



SIDE VIEW (L)

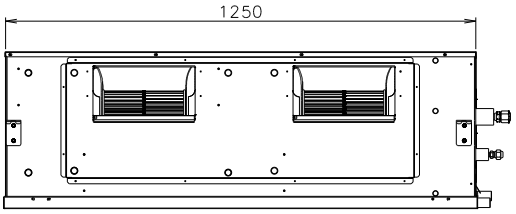




SIDE VIEW (R)

AIR FLOW

TOP VIEW



FRONT VIEW

(Unit : mm)

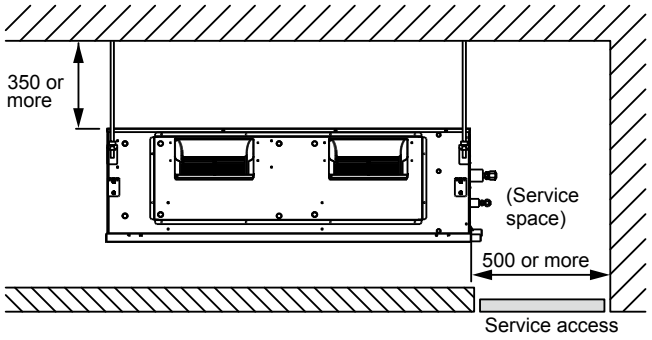
DUCT TYPE
AR∗G60LHTA

■ INSTALLATION PLACE

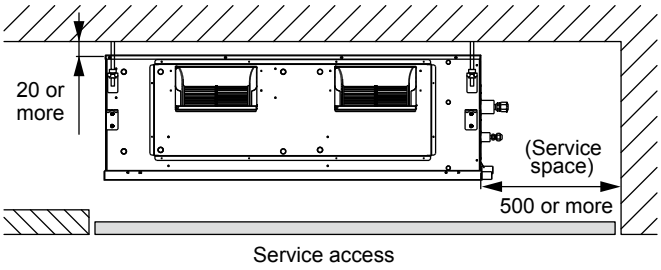
(Unit : mm)

●AR∗G60LHTA

Installation by which service space is made on top of the unit (recommended).



Installation by which service is carried out from the bottom of the unit.

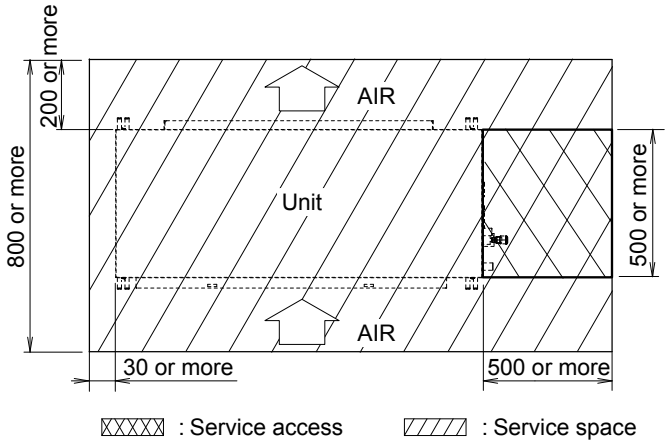


■ MAINTENANCE SPACE

Provide a maintenance space for inspection purposes as shown below.
Do not place any wiring or illumination in the service space, as they will impede service.

(Unit : mm)

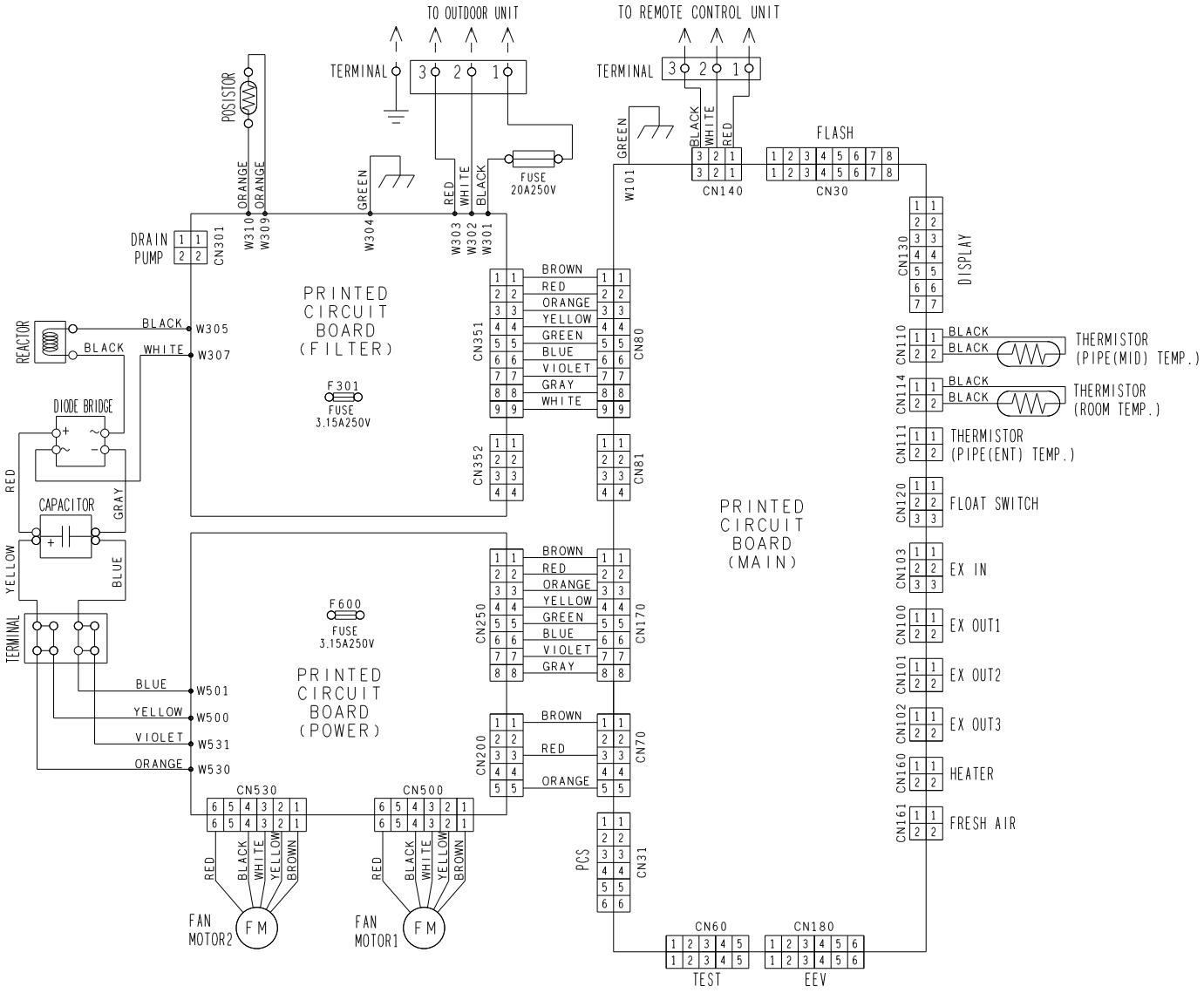
●AR∗G60LHTA



DUCT TYPE
AR∗G60LHTA

5. WIRING DIAGRAMS

■ MODEL: AR∗G60LHTA



DUCT TYPE
AR∗G60LHTA

6. CAPACITY TABLE

6-1. COOLING CAPACITY

This table is created using the rated capacity.

■ MODEL: AR∗G60LHTA

AFR	59.2

		Indoor temperature																			
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
	-15	13.04	12.32	2.77	14.53	12.40	2.82	15.02	13.48	2.83	16.01	13.52	2.86	16.51	14.60	2.87	17.50	14.54	2.90	18.49	15.49	2.93
	-10	13.03	12.31	2.78	14.51	12.38	2.82	15.01	13.46	2.83	16.00	13.51	2.86	16.49	14.59	2.88	17.48	14.53	2.90	18.47	15.48	2.93
	0	13.03	12.33	2.79	14.51	12.40	2.84	15.00	13.48	2.85	15.99	13.53	2.88	16.49	14.61	2.89	17.48	14.55	2.92	18.47	15.50	2.95
	5	12.92	12.35	3.17	14.39	12.43	3.22	14.88	13.51	3.23	15.86	13.55	3.27	16.35	14.64	3.28	17.33	14.58	3.32	18.32	15.53	3.35
	10	12.68	12.19	3.31	14.13	12.27	3.37	14.61	13.33	3.38	15.57	13.38	3.42	16.05	14.45	3.44	17.02	14.39	3.47	17.98	15.33	3.50
	15	12.45	12.00	3.56	13.86	12.08	3.62	14.34	13.13	3.63	15.28	13.17	3.67	15.76	14.22	3.69	16.70	14.17	3.73	17.65	15.09	3.76
	20	12.32	12.00	3.34	13.72	12.08	3.39	14.19	13.13	3.41	15.12	13.17	3.44	15.59	14.22	3.46	16.53	14.17	3.49	17.46	15.09	3.53
	25	12.21	11.85	3.89	13.60	11.92	3.95	14.06	12.96	3.98	14.99	13.01	4.02	15.45	14.05	4.04	16.38	13.99	4.08	17.31	14.90	4.12
	30	11.69	11.62	4.46	13.03	11.74	4.53	13.47	12.77	4.56	14.36	12.81	4.60	14.80	13.83	4.63	15.69	13.78	4.67	16.58	14.68	4.72
	35	11.85	11.60	4.54	13.20	11.87	4.61	13.65	12.90	4.63	14.55	12.94	4.68	15.00	13.98	4.70	15.90	13.92	4.75	16.80	14.83	4.79
	40	11.00	10.99	5.23	12.26	11.25	5.32	12.68	12.23	5.34	13.51	12.27	5.40	13.93	13.25	5.42	14.77	13.19	5.48	15.60	14.05	5.53
	46	7.14	7.14	3.66	7.95	7.67	3.71	8.22	8.13	3.73	8.76	8.36	3.77	9.03	9.03	3.79	9.57	9.00	3.83	10.12	9.58	3.87

AFR: Air Flow Rate (m^3/min)
TC : Total Capacity (kW)
SHC: Sensible Heat Capacity (kW)
IP : Input Power (kW)

DUCT TYPE
AR∗G60LHTA

6-2. HEATING CAPACITY

This table is created using the rated capacity.

■ MODEL: AR∗G60LHTA

AFR	59.2

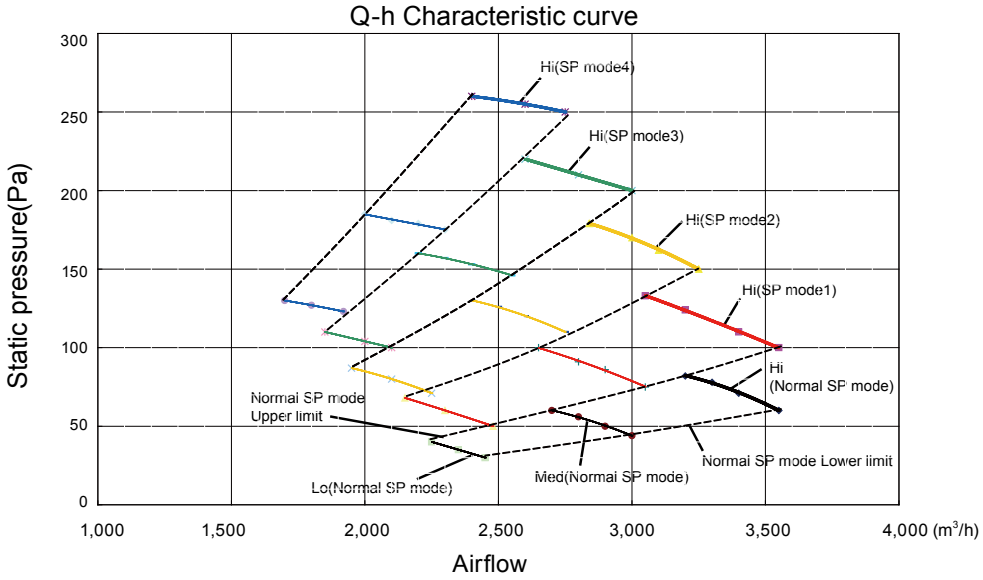
			Indoor temperature									
		°CDB	16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
	-15	-16	13.17	5.18	12.86	5.29	12.55	5.40	12.23	5.51	11.92	5.62
	-10	-11	14.64	5.18	14.29	5.29	13.95	5.40	13.60	5.51	13.25	5.62
	-5	-7	16.23	5.18	15.85	5.29	15.46	5.40	15.07	5.51	14.69	5.62
	0	-2	17.48	5.19	17.06	5.30	16.64	5.41	16.23	5.52	15.81	5.63
	5	3	18.84	5.20	18.39	5.31	17.94	5.42	17.49	5.53	17.05	5.64
	7	6	18.90	4.94	18.45	5.05	18.00	5.15	17.55	5.25	17.10	5.36
	10	8	20.74	4.62	20.25	4.71	19.76	4.81	19.26	4.91	18.77	5.00
	15	10	22.28	4.58	21.75	4.68	21.22	4.77	20.69	4.87	20.16	4.94
	20	15	21.63	4.51	21.12	4.60	20.60	4.69	20.09	4.79	19.57	4.86
	24	18	19.91	3.75	19.43	3.83	18.96	3.91	18.48	3.99	18.01	4.05

AFR: Air Flow Rate (m^3/min)
TC : Total Capacity (kW)
IP : Input Power (kW)

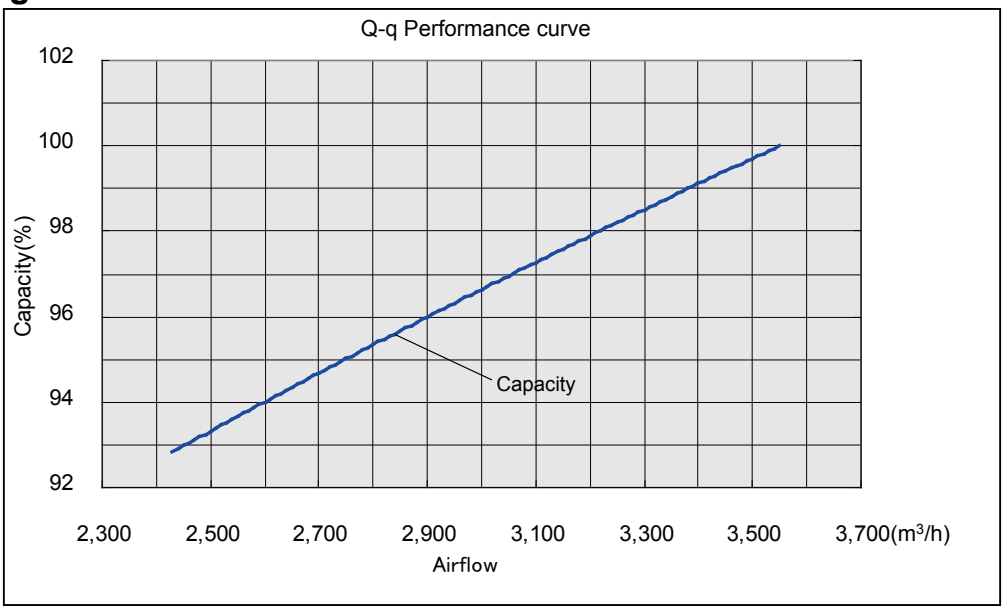
DUCT TYPE
AR∗G60LHTA

7. FAN PERFORMANCE AND CAPACITY

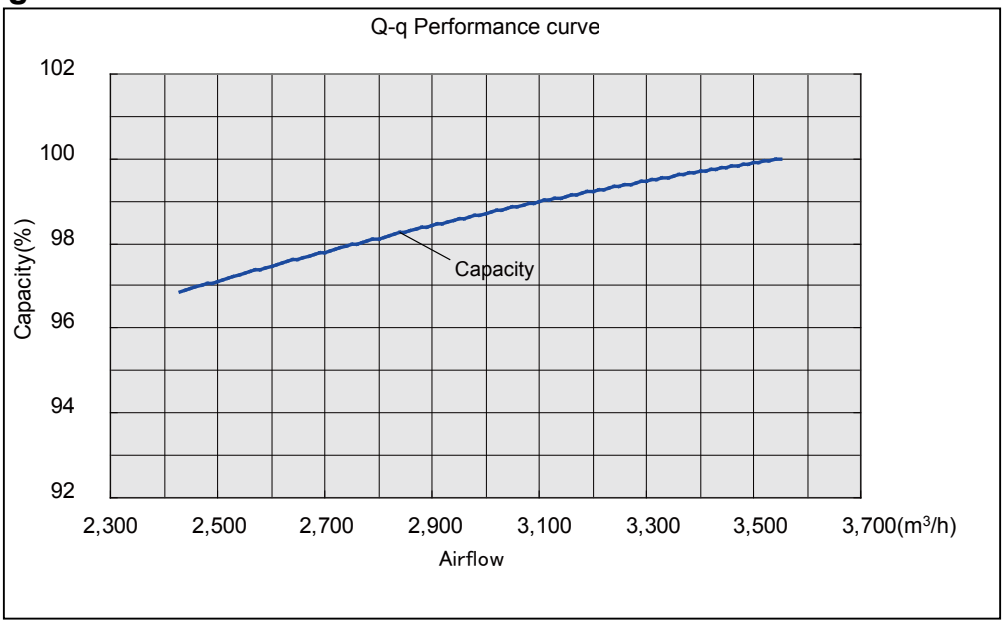
■MODEL: AR∗G60LHTA



●Cooling



●Heating



DUCT TYPE
AR∗G60LHTA

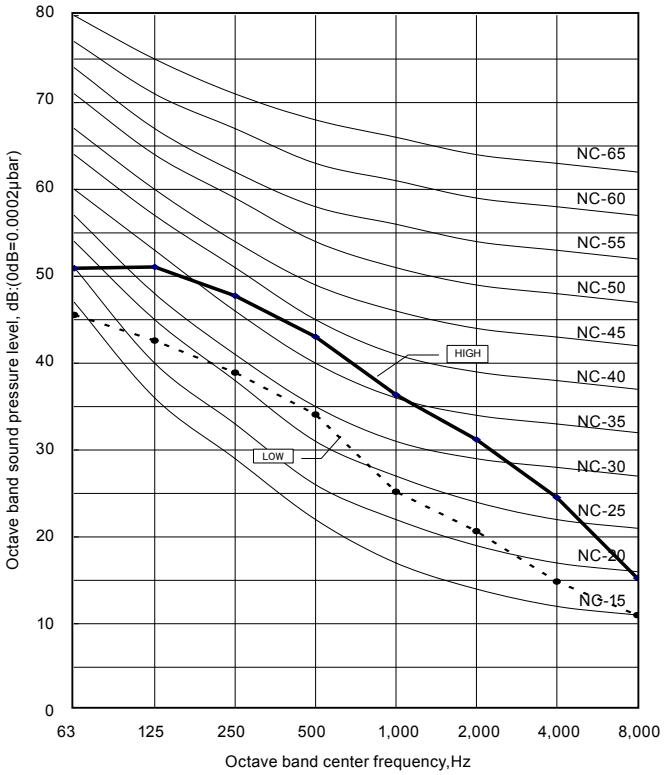
8. OPERATION NOISE

8-1. NOISE LEVEL CURVE

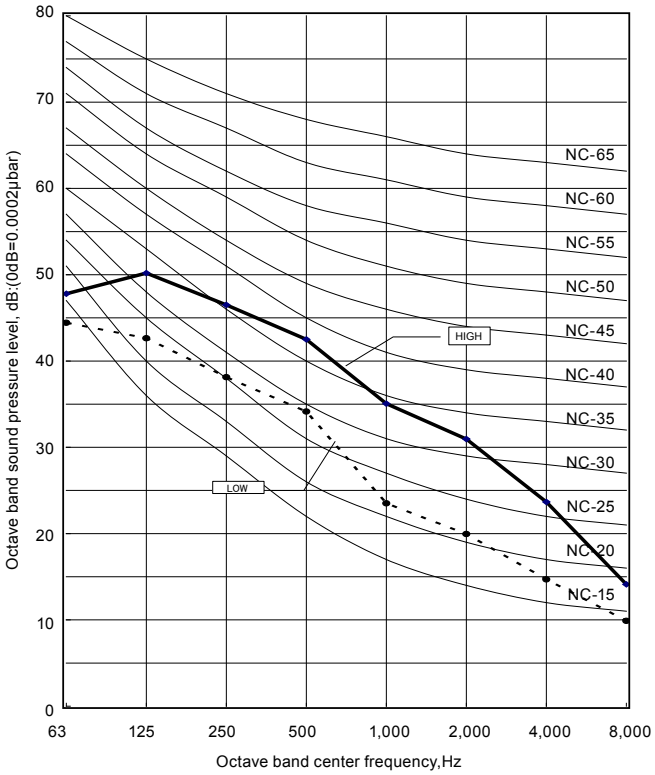
Condition
Static pressure : 60Pa
Static pressure mode : Normal

■ MODEL: AR∗G60LHTA

● Cooling

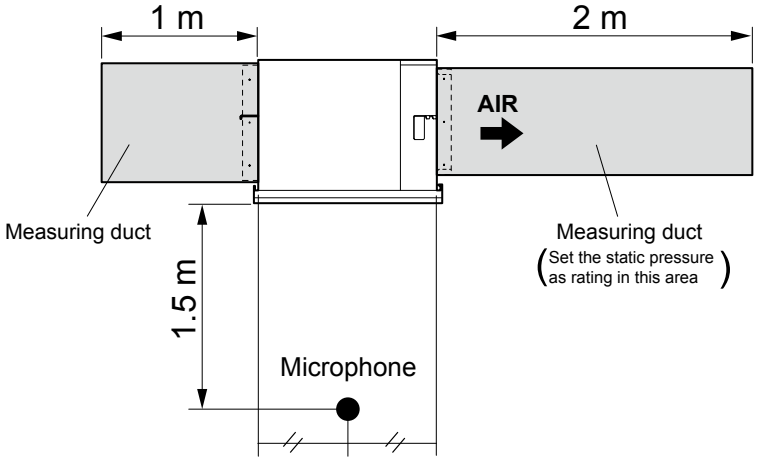


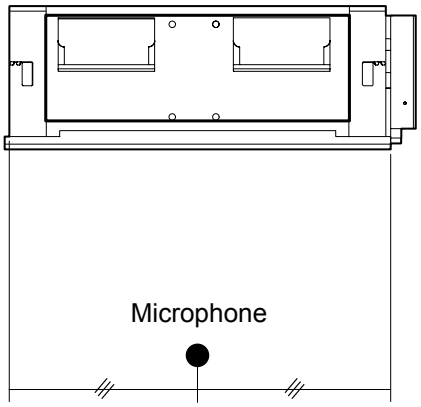
● Heating



DUCT TYPE
AR∗G60LHTA

8-2. SOUND LEVEL CHECK POINT





DUCT TYPE
AR∗G60LHTA

9. ELECTRIC CHARACTERISTICS

Model name			AR∗G60LHTA
Power supply	Voltage	V	230~
	Frequency	Hz	50
Max Operating Current (Indoor unit)		A	3.5
Wiring spec. (Indoor unit to outdoor unit)	Connection cable	mm^2	1.5 (Min.)
	Limited wiring length	m	75

Note: Wiring specification
1. Selected sample
   (Selected based on Japan Electrotechnical Standard and Codes Committee E0005)
2. Limited wiring length : Limit voltage drop to less than 2%. Increase cable gauge if voltage drop is 2% or more.
3. If the transmission wire is longer than 50m, use the bigger conductor size.

10. SAFETY DEVICES

	Protection form	Model
		AR∗G60LHTA
Circuit protection	Current fuse (PCB)	250V 3.15A
Fan motor protection	Thermal protection program	115±15°C OFF 70°C ON

DUCT TYPE
AR∗G60LHTA

11. EXTERNAL INPUT & OUTPUT

INPUT	OUTPUT	Connector	REMARKS
CONTROL INPUT	—	CN103	See external input/output settings for details.
—	OPERATION STATUS	CN100	
—	ERROR STATUS	CN101	
—	FRESH AIR CONTROL	CN161	
—	AUXILIARY HEATER	CN160	

11-1. EXTERNAL INPUT

■ CONTROL INPUT (Operation/Stop or Forced stop)

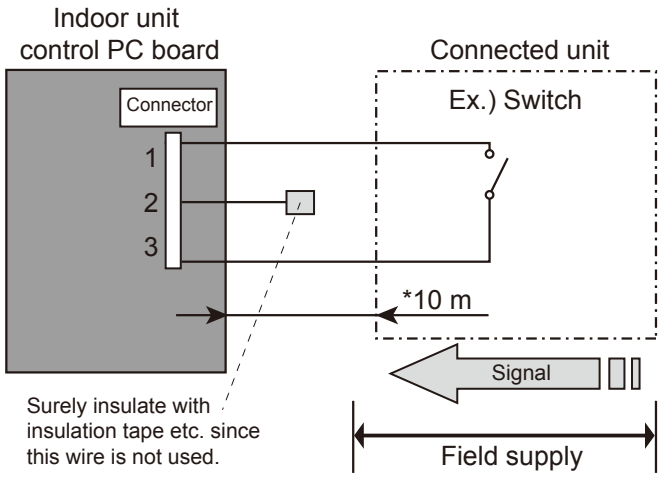
The air conditioner can be remotely operated by means of the following on-site work.

"Operation/Stop" mode or "Forced stop" mode can be selected with function setting of indoor unit.

Unit operation is started at the following contents by adding the contact input of a commercial ON/OFF switch to a connector on the external control PC board and turning it ON.

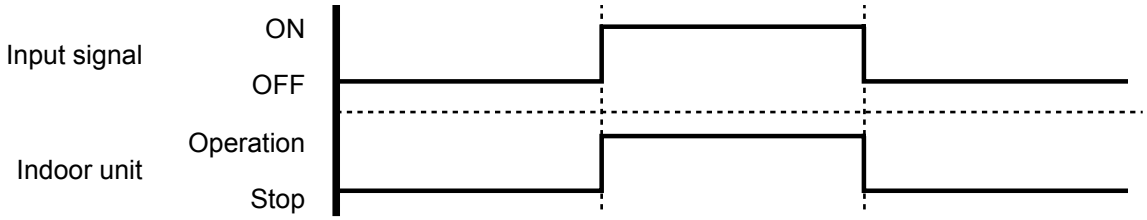
Unit operation	Initial setting after power is ON	Starting mode other than initial setting
Operation mode	Auto changeover	Mode at previous operation
Set temperature	24°C	Temperature at previous operation
Air flow mode	AUTO	Mode at previous operation

● Circuit diagram example



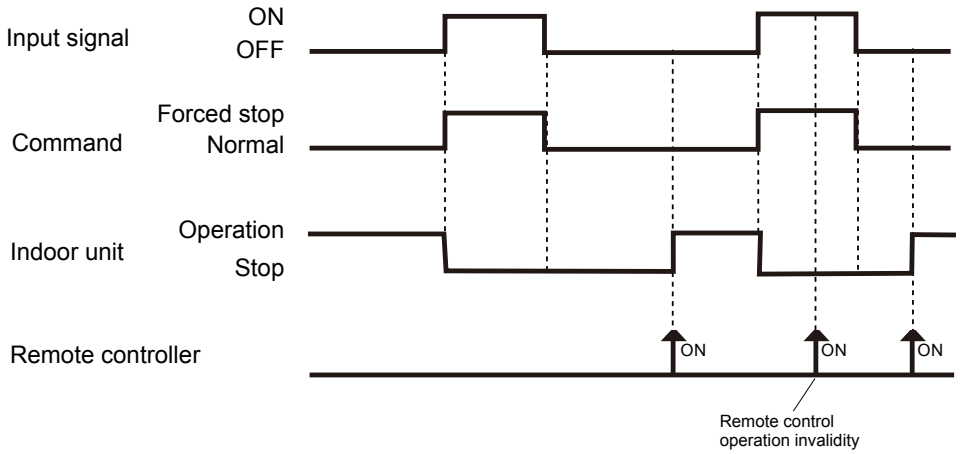
* Make the distance from the PC board to the connected unit within 10 m.
Contact capacity : 5VDC or more, 15mA or more.
Please use non-polar relays and switches.

• When function setting is in "Operation/Stop" mode



DUCT TYPE
AR∗G60LHTA

● When function setting is in "Forced stop" mode



● Parts (Optional)

Model name
UTD-ECS5A

Wire (External input)

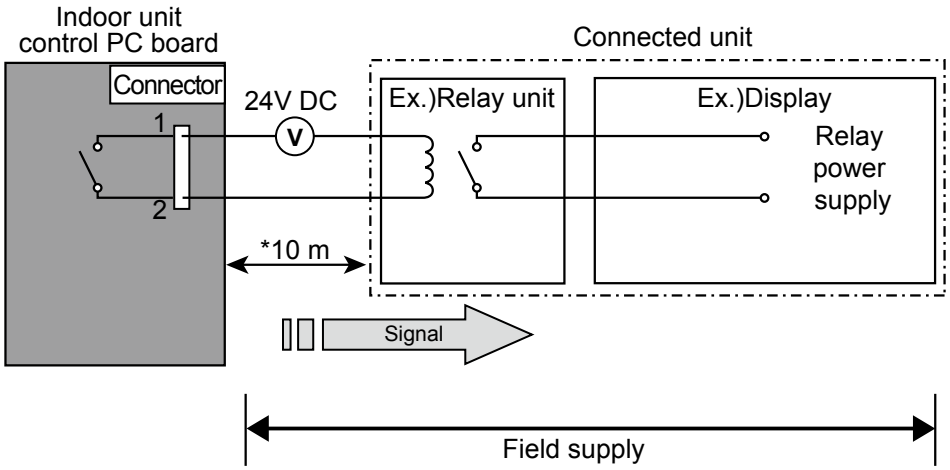
DUCT TYPE
AR∗G60LHTA

11-2. EXTERNAL OUTPUT

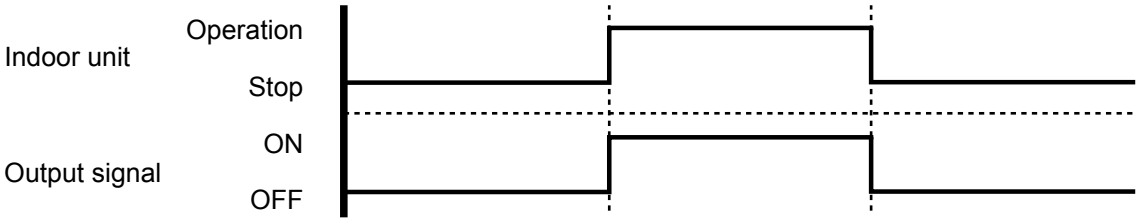
■ OPERATION STATUS OUTPUT

An air conditioner operation status signal can be output.

● Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Max.24VDC, 10mA to less than 500mA.



● Parts (Optional)

Model name
UTD-ECS5A

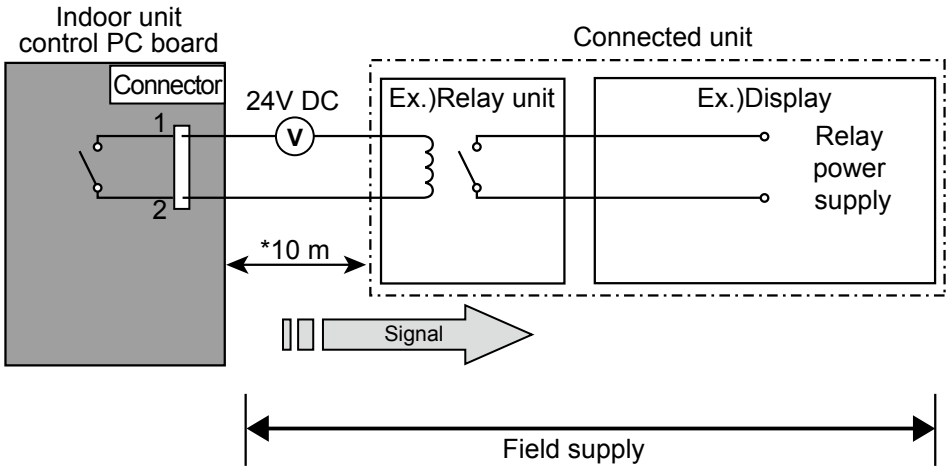
Wire (External output)

DUCT TYPE
AR∗G60LHTA

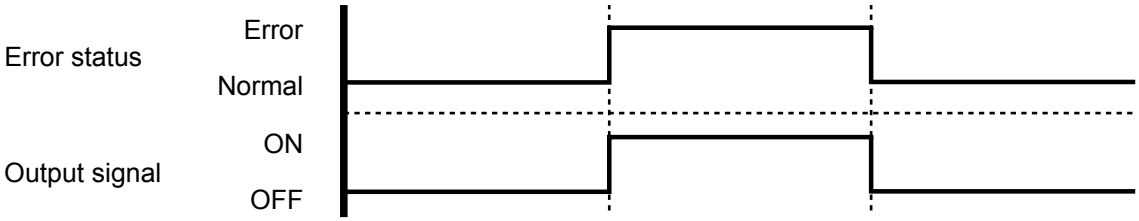
■ ERROR STATUS OUTPUT

An air conditioner condition normal/error status signal can be output.

● Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Max.24VDC, 10mA to less than 500mA.



● Parts (Optional)

Model name
UTD-ECS5A

Wire (External output)

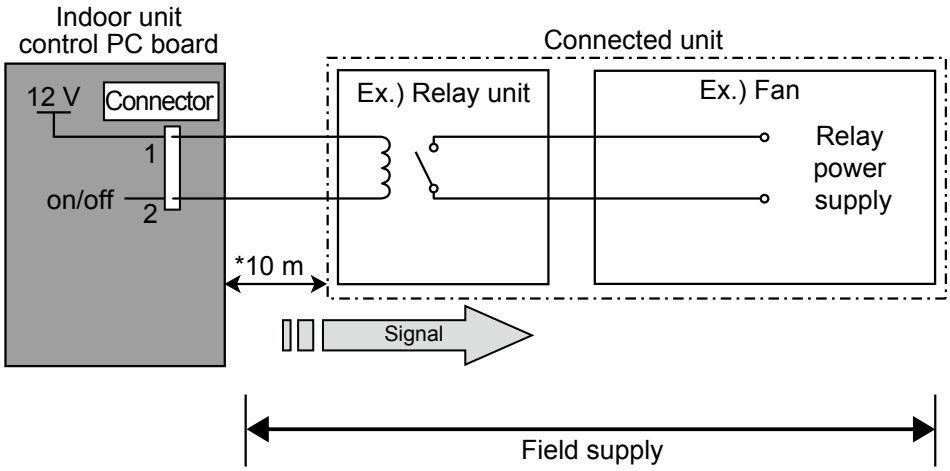
DUCT TYPE
AR∗G60LHTA

■ FRESH AIR CONTROL OUTPUT

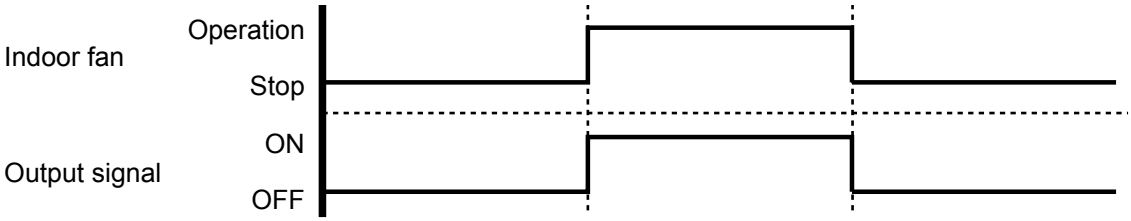
A signal linked to air conditioner indoor fan ON can be output.

* However, signal becomes OFF during cold air prevention control operation.

● Circuit diagram example



* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Rated 12VDC, 50mA or less.



● Parts (Optional)

Model name
UTD-ECS5A

Wire (Fresh air output)

DUCT TYPE
AR∗G60LHTA

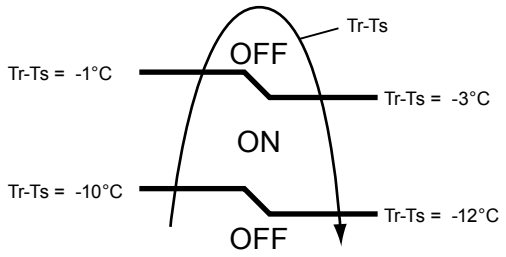
■AUXILIARY HEATER OUTPUT

A signal is outputed from Connector when indoor fan and compressor is turned on under heating operation.

*Signal output performance specifications are as shown on the right

Ex. When Set Temperature(Ts) is 22°C ;

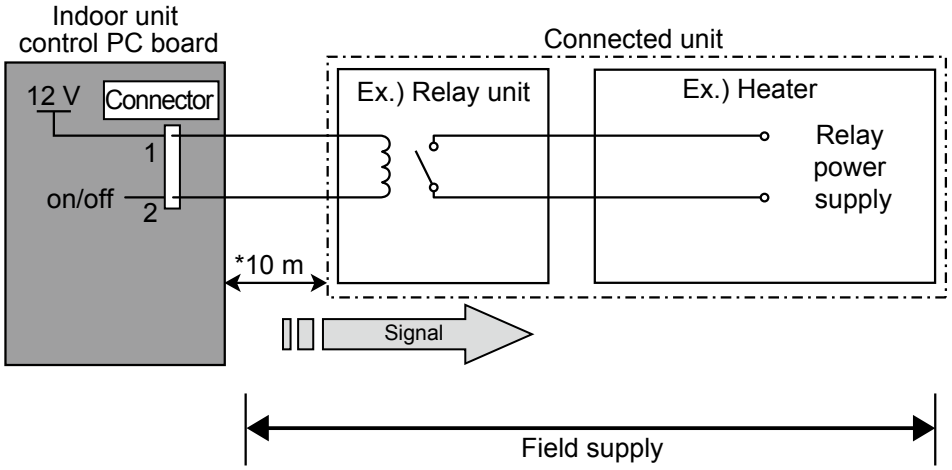
- and Room Temperature(Tr) increase above 12°C, signal output is on.
- and Room Temperature(Tr) increase above 21°C, signal output is off.
- and Room Temperature(Tr) decrease below 19°C, signal output is on.
- and Room Temperature(Tr) decrease below 10°C, signal output is off.



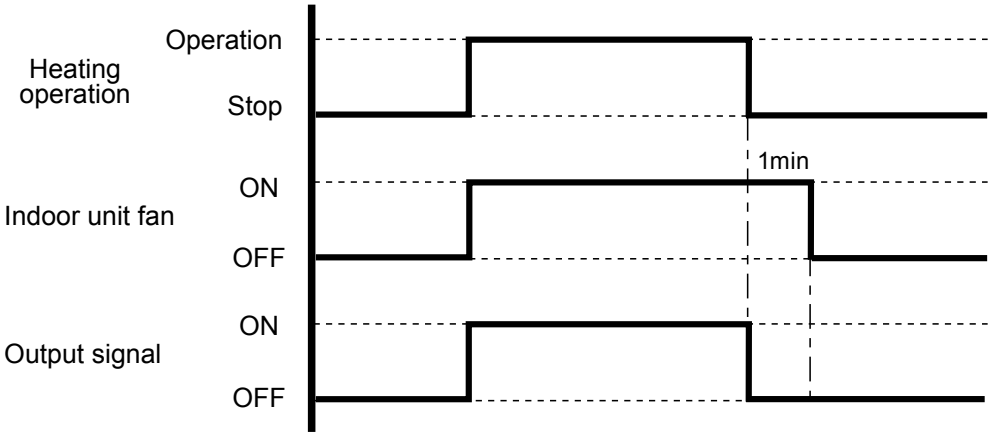
●Jumper wire (Indoor Unit)

This is used to continue indoor unit fan operation for 1 minute after thermo OFF in heating mode.
1 minute delay control set by cutting jumper wire on PCB.

●Circuit diagram example



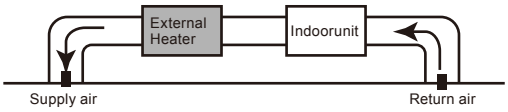
* Make the distance from the PC board to the connected unit within 10m.
Relay spec. : Rated 12VDC, 50mA or less.



DUCT TYPE
AR∗G60LHTA

⚠CAUTION

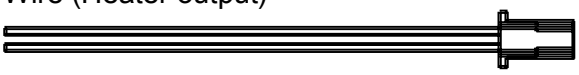
Please place an external a heater between the indoor unit and the ductwork.
Please be sure to use delay control of the fan.



● Parts (Optional)

Model name
UTD-ECS5A

Wire (Heater output)



DUCT TYPE
AR∗G60LHTA

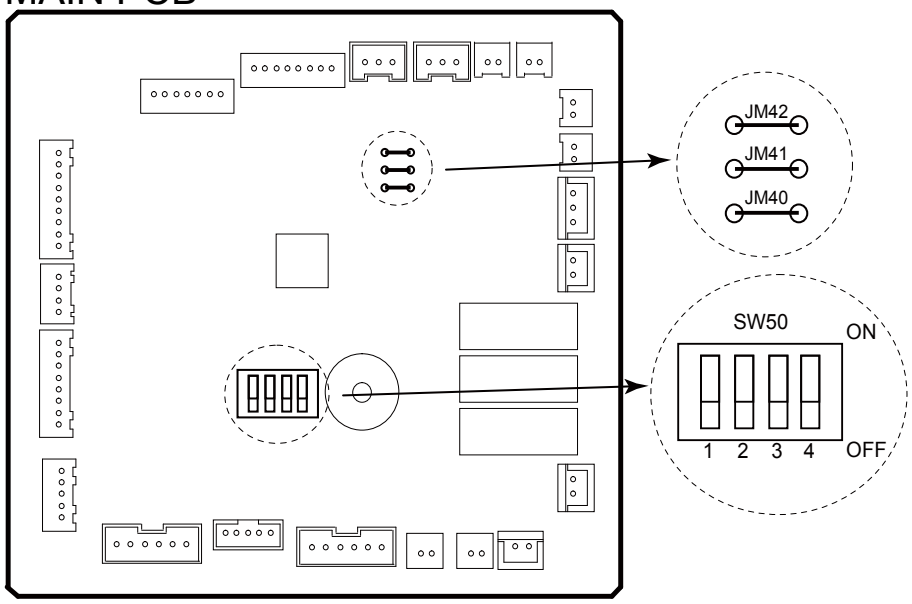
12. FUNCTION SETTINGS

12-1. INDOOR UNIT

INDOOR UNIT		
DIP-SW50	1	Remote controller address setting
	2	
	3	
	4	
Jumper Wire	JM40	Setting forbidden
	JM41	
	JM42	Fan delay setting

■ SWITCH POSITION

MAIN PCB



DUCT TYPE
AR∗G60LHTA

■ DIP-SW SETTING

● Remote controller address setting (SW50)

A number of indoor units can be operated at the same time using a single remote controller.
Set the unit number of each indoor unit using the DIP switches on the indoor unit circuit board.
(See the following table.)
The DIP switches are normally set to make the unit number 00.

(◆. . .Factory setting)

	Remote controller address	DIP switch No.			
		1	2	3	4
◆	00	OFF	OFF	OFF	OFF
	01	ON	OFF	OFF	OFF
	02	OFF	ON	OFF	OFF
	03	ON	ON	OFF	OFF
	04	OFF	OFF	ON	OFF
	05	ON	OFF	ON	OFF
	06	OFF	ON	ON	OFF
	07	ON	ON	ON	OFF
	08	OFF	OFF	OFF	ON
	09	ON	OFF	OFF	ON
	10	OFF	ON	OFF	ON
	11	ON	ON	OFF	ON
	12	OFF	OFF	ON	ON
	13	ON	OFF	ON	ON
	14	OFF	ON	ON	ON
	15	ON	ON	ON	ON

■ JUMPER WIRE SETTING

● JM40, 41 setting forbidden

● Fan delay setting (JM42)

When the indoor unit is stopped while operating in conjunction with auxiliary heater, the indoor unit fan operation will continue for one minute.

(◆. . .Factory setting)

	JM 42	JM state
◆	Connect	Invalid
	Disconnect	Valid

DUCT TYPE
AR∗G60LHTA

12-2. INDOOR UNIT (Setting by remote controller)

- The function settings of the control of the indoor unit can be changed by this procedure according to the installation conditions. Incorrect settings can cause the indoor unit to malfunction.
- After the power is turned on, perform The Function Setting according to the installation conditions using the remote controller.
- The settings may be selected between the following two: Function Number or Setting Value.
- Settings will not be changed if invalid numbers or setting values are selected.

■ PREPARATION

- Turn on the power.

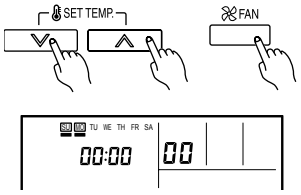
* Before turning on the power of the indoor units, make sure the piping air-tight test and vacuuming have been conducted.

* Also check again to make sure no wiring mistakes were made before turning on the power.

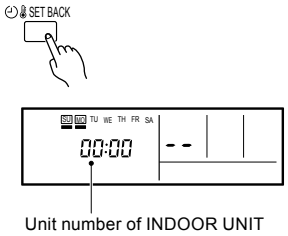
■ FUNCTION SETTING METHOD (for Wired remote controller)

● Setting method

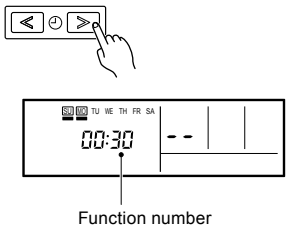
(1) Press the SET TEMP. buttons (∨) (∧) and FAN button simultaneously for more than 5 seconds to enter the function setting mode.



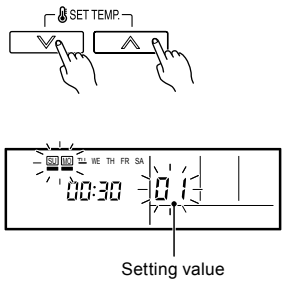
(2) Press the SET BACK button to select the indoor unit number.



3) Press the Set time buttons to select the function number.



(4) Press the SET TEMP. buttons (∨) (∧) to select the setting value. The display flashes during setting value selection.



DUCT TYPE
AR∗G60LHTA

(5) Press the TIMER SET button to confirm the setting. Press the TIMER SET button for a few seconds until the setting value stops flashing. If the setting value display changes or if "- -" is displayed when the flashing stops, the setting value has not been set correctly. (An invalid setting value may have been selected for the indoor unit.)

(6) Repeat steps 2 to 5 to perform additional settings. Press the SET TEMP. buttons (⩔) (⩓) and FAN simultaneously again for more than 5 seconds to cancel the function setting mode. In addition, the function setting mode will be automatically canceled after 1 minute if no operation is performed.

(7) After completing the FUNCTION SETTING, be sure to turn off the power and turn it on again.

⚠CAUTION
• After turning off the power, wait 30 seconds or more before turning on it again. The Function Setting will not become active unless the power is turned off then on again.

■ CONTENTS OF FUNCTION SETTING

- Follow the instructions in the Local Setup Procedure, which is supplied with the remote control, in accordance with the installed condition.
  After the power is turned on, perform the Function Setting on the remote control.
- The settings may be selected between the following two: Function Number or Setting Value.
- Settings will not be changed if invalid numbers or setting values are selected.

1)	Filter sign
2)	Static pressure
3)	Room temperature control for cooling
4)	Room temperature control for heating
5)	Auto restart
6)	Room temperature sensor switching
7)	Cool air prevention
8)	External input control
9)	Room temperature sensor switching (Aux.)

1) Filter sign

Select appropriate intervals for displaying the filter sign on the indoor unit according to the estimated amount of dust in the air of the room.

If the indication is not required, select "No indication" (03)..

(◆. . .Factory setting)

	Setting description	Function number	Setting value
	Standard (2500 hours)	11	00
	Long interval (5000 hours)		01
	Short interval (1250 hours)		02
◆	No indication		03

2) Static pressure

Select the appropriate static pressure according to the installation conditions..

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Normal (60Pa)	21	00
	Static pressure 1 (100Pa)		02
	Static pressure 2 (150Pa)		03
	Static pressure 3 (200Pa)		04
	Static pressure 4 (250Pa)		05

DUCT TYPE
AR∗G60LHTA

3) Room temperature control for cooling

Depending on the installed environment, the room temperature sensor may require correction. The settings may be selected as shown in the table below.

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Standard	30	00
	Higher control		01
	Slightly higher control		02
	Slightly lower control		03
	Lower control		04

4) Room temperature control for heating

Depending on the installed environment, the room temperature sensor may require correction. The settings may be changed as shown in the table below.

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Standard	31	00
	Higher control		01
	Slightly higher control		02
	Slightly lower control		03
	Lower control		04

5) Auto restart

Enable or disable automatic restart after a power interruption.

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Enable	40	00
	Disable		01

* Auto restart is an emergency function such as for power outage etc. Do not attempt to use this function in normal operation. Be sure to operate the unit by remote controller or external device..

6) Room temperature sensor switching

(Only for wired remote controller)

When using the Wired remote controller temperature sensor, change the setting to "Both" (01).

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Indoor unit	42	00
	Both		01

00: Sensor on the indoor unit is active.

01: Sensors on both indoor unit and wired remote controller are active.

*Remote controller sensor must be turned on by using the remote controller.

7) Cool air prevention

This setting is to disable the cold air prevention function during heating operation. When disabled, the fan setting will always follow the setting on the remote controller. (Excluding defrost mode)

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Enable	43	00
	Disable		01

DUCT TYPE
AR∗G60LHTA

8) External input control

"Operation/Stop" mode or "Forced stop" mode can be selected.

(◆. . .Factory setting)

	Setting description	Function number	Setting value
◆	Operation/Stop mode	46	00
	(Setting forbidden)		01
	Forced stop mode		02

9) Room temperature sensor switching (Aux.)

To use the temperature sensor on the wired remote controller only, change the setting to "Wired remote controller" (01). This function will only work if the function setting 42 is set at "Both" (01)

(◆. . .Factory setting)

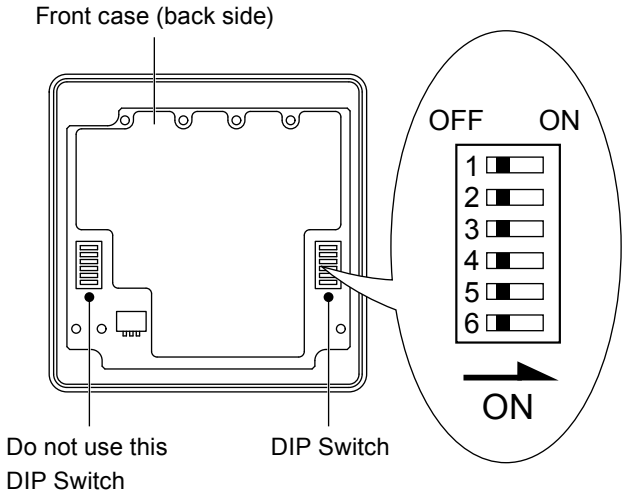
	Setting description	Function number	Setting value
◆	Both	48	00
	Wired remote controller		01

DUCT TYPE
AR∗G60LHTA

12-3. WIRED REMOTE CONTROLLER

DIP SW	1	Can not be used. (Do not change)
	2	Dual remote controller setting
	3	Can not be used. (Do not change)
	4	Can not be used. (Do not change)
	5	Can not be used. (Do not change)
	6	Memory backup setting

■ SWITCH POSITION



■ DIP SWITCH SETTING

● Dual remote controller setting

Set the remote controller DIP switch No.2 according to the following table.

(◆···Factory setting)

	Number of remote controller	Primary unit	Secondary unit
		DIP-SW No.2	DIP-SW No.2
◆	1 (Normal)	OFF	—
	2 (Dual)	OFF	ON

● Memory backup setting

Set to ON to use batteries for the memory backup. If batteries are not used, all of the settings stored in memory will be deleted if there is a power failure.

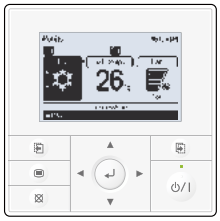
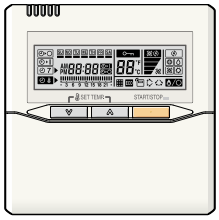
(◆···Factory setting)

	DIP-SW No.6	Memory backup
◆	OFF	Invalidity
	ON	Validity

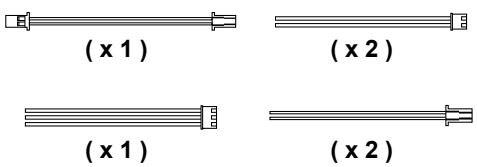
DUCT TYPE
AR∗G60LHTA

13. OPTIONAL PARTS

13-1. CONTROLLER

Exterior	Parts name	Model No.	Summary
	Wired remote controller	UTY-RVN∗M	Large and full-dot liquid crystal screen, wide and large keys easy to press, user-intuitive arrow key.
	Wired remote controller	UTY-RNN∗M	The room temperature can be controlled by being detected the temperature accurately with built-in thermo sensor.
	Simple remote controller	UTY-RSN∗M	Compact remote controller concentrates on the basic functions such as Start/Stop, Fan Control, Temperature Setting and Operation mode.
	IR Receiver Unit	UTY-LRH∗M	Unit control is performed by wireless remote controller.

13-2. OTHERS

Exterior	Parts name	Model No.	Summary
	Remote sensor	UTY-XSZX	New amenity space can be offered by installing the **Remote sensor** in the remote controller.
 (x 1) (x 2) (x 1) (x 2)	External control set	UTD-ECS5A	Use to connect with various peripheral devices and air conditioner PC board. (Set of 6)

2. OUTDOOR UNIT

SINGLE TYPE :
AO∗G60LATT

CONTENTS

2. OUTDOOR UNIT

OUTDOOR UNIT
AO*G60LATT

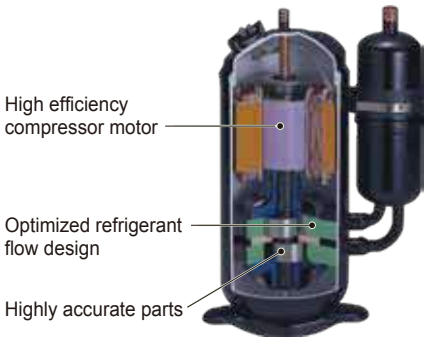
OUTDOOR UNIT
AO*G60LATT

1. FEATURES

■ FEATURES

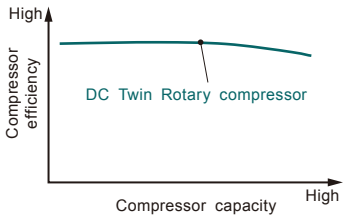
● Energy saving technology (ALL DC)

DC twin rotary compressor



DC twin rotary compressor

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



DC fan motor

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

● Peak cut operation

Peak cut mode (Optional parts: UTY-XWZXZ2)

Suppresses maximum capacity and performs energy-saving operation and can prevent breaker tripping.

This function performs operation by setting a peak current value and reducing the power consumption.

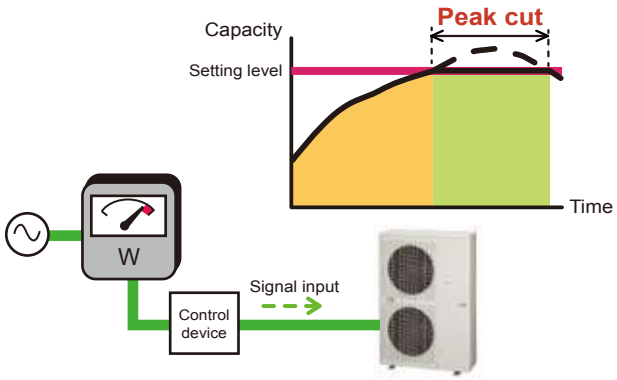
* Performance drops by reducing the power consumption preferentially.

Level 1 ... Performs operation which suppresses the power consumption to almost 0% by stopping the compressor.

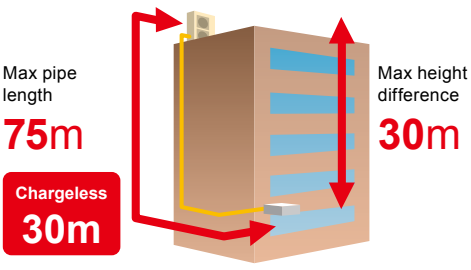
Level 2 ... Performs operation which suppresses the power consumption to 50% of the rated power consumption value.

Level 3 ... Performs operation which suppresses the power consumption to 75% of the rated power consumption value.

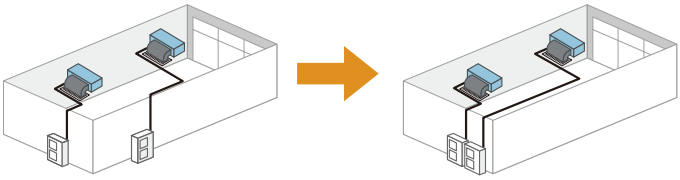
Level 4 ... Performs operation which suppresses the power consumption to the rated power consumption value (100%).



● High install ability long piping correspondence



Long piping provides an outdoor unit and indoor unit layout margin.

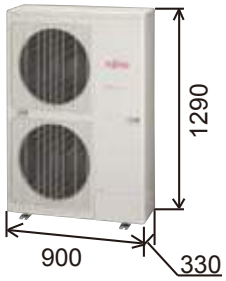


OUTDOOR UNIT
AO*G60LATT

● Space saving

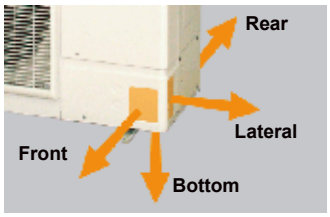
Compact size

High performance has been realized with a compact outdoor unit.
Due to the compact size of the outdoor unit, the installation space required has been reduced allowing for a wider selection on installation locations.



● 4-directions piping connection

Four directions piping connection is possible. The perfect route can be selected according to the installation.



● Low outdoor air temperature correspondence

Both cooling and heating operations can be performed when the outdoor air temperature is low.

Cooling	-15 °C	Heating	Dry-bulb -15 °C Wet-bulb -20 °C

● External output (option)

Compressor status output

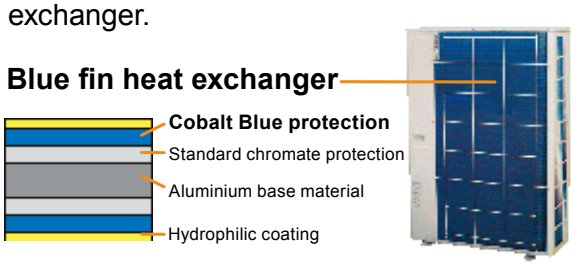
This output indicates the outdoor unit compressor status.

Error status output

This output indicates the outdoor unit and connected indoor unit's Normal / Error.

● Blue fin heat exchanger

Corrosion-resistance of the heat exchanger even in coastal areas has been improved by blue fin treatment of the outdoor unit heat exchanger.



● Service, maintenance

- "Error display" and "Operating information" can be explained by LED display.
- Pump down operation can be performed by one button when refrigerant recovery.

● Quiet operation

Low noise mode (Optional parts: UTY-XWZXZ2)

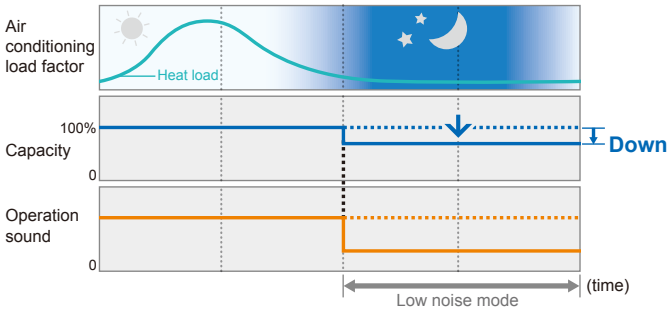
Suppresses operating sound.

This function suppresses the outdoor unit noise value to the following 2 level.

* Performance may drop depending on the outside air temperature condition, etc.

Level 1 ... Rated noise value -2dB

Level 2 ... Rated noise value -4dB



2. SPECIFICATIONS

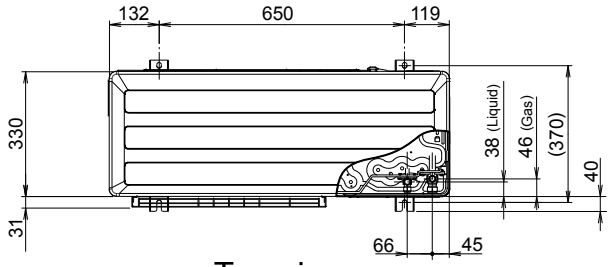
Type					INVERTER HEATPUMP
Model name					AO∗G60LATT
Power source					3N~ 400V 50Hz
Available voltage range					3N~ 342V - 457V 50Hz
Starting current				A	7.6
Fan	Airflow rate	Cooling		m^3/h	6,900
		Heating			7,300
	Type × Q'ty				Propeller × 2
	Motor output			W	104
Sound pressure level		Cooling		dB (A)	56
		Heating			58
Heat exchanger type		Dimensions (H × W × D)		mm	1260 × 900 × 36.4
		Fin pitch			1.30
		Rows x Stages			2 × 60
		Pipe type			Copper
		Fin type	Type (Material)		Corrugate (Aluminium)
			Surface treatment		Corrosion resistance (Blue fin)
Compressor	Type × Q'ty				Twin Rotary × 1
	Motor output			W	3750
Refrigerant		Type			R410A
		Charge		g	3450
Refrigerant oil		Type			POE
Enclosure		Material			Steel sheet
		Colour			BEIGE (Approximate colour of MUNSELL 10YR 7.5 / 1.0)
Dimensions (H × W × D)	Net			mm	1290 × 900 × 330
	Gross				1430 × 1050 × 445
Weight	Net			kg	104
	Gross				113
Connection pipe	Size (Standard)	Liquid		mm	Ø 9.52 (Ø 3/8 in.)
		Gas			Ø 15.88 (Ø 5/8 in.)
	Method				Flare
	Pre-charge length			m	30
	Max. length				75
	Max. height difference				30
Operation range		Cooling		°C	-15 to 46
		Heating			-15 to 24

Note :
Specifications are based on the following conditions.
Cooling : Indoor temperature of 27 °CDB / 19 °CWB.and outdoor temperature of 35 °CDB/24 °CWB.
Heating : Indoor temperature of 20 °CDB / 15 °CWB.and outdoor temperature of 7 °CDB/6 °CWB.
Pipe length : 7.5 m, Height difference : 0 m.(Outdoor unit - Indoor unit)
The protective function may work when using it outside the temperature range mentioned above.

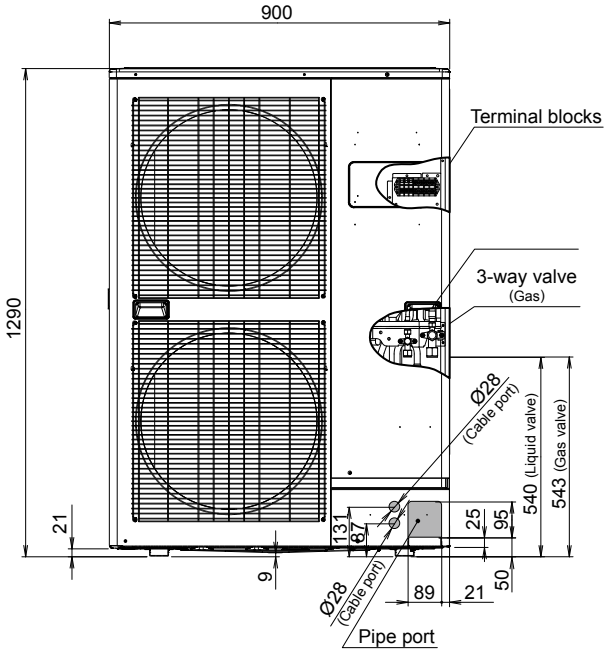
3. DIMENSIONS

■ MODEL: AO∗G60LATT

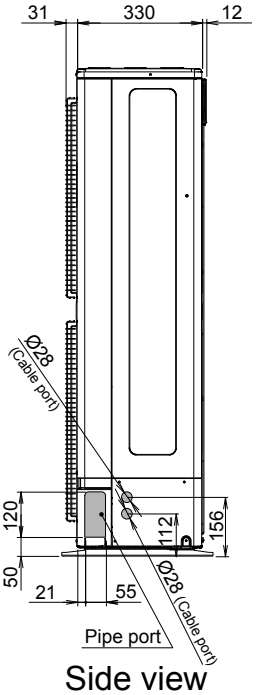
(Unit : mm)



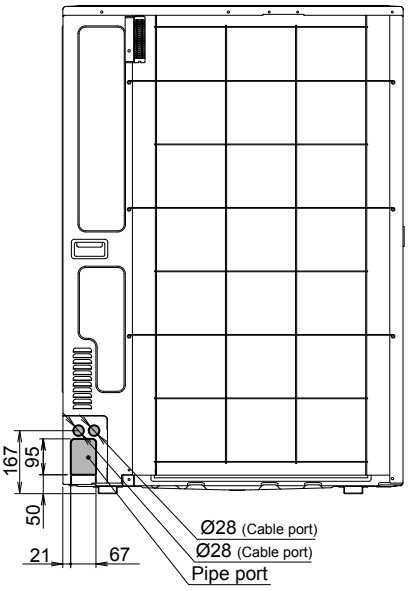
Top view



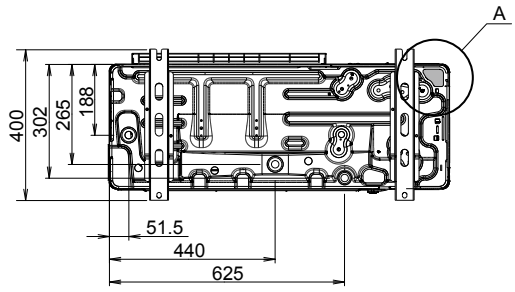
Front view



Side view

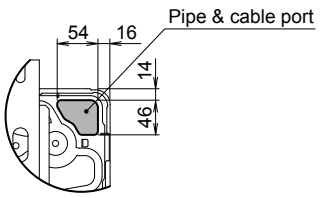


Rear view



Bottom view

Detail A



OUTDOOR UNIT
AO∗G60LATT

OUTDOOR UNIT
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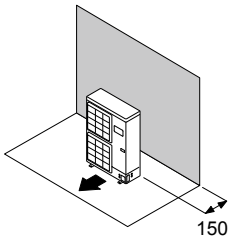
4. INSTALLATION PLACE

4-1. SINGLE OUTDOOR UNIT INSTALLATION

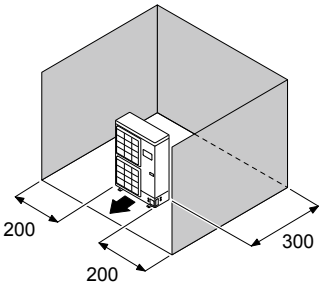
■ WHEN THE UPWARD AREA IS OPEN

(Unit : mm)

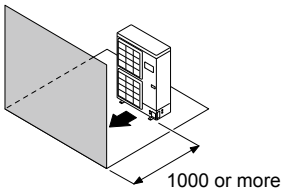
Obstacles at rear only



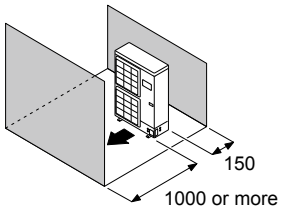
Obstacles at rear and sides only



Obstacles at front only



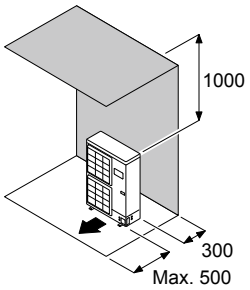
Obstacles at front and rear only



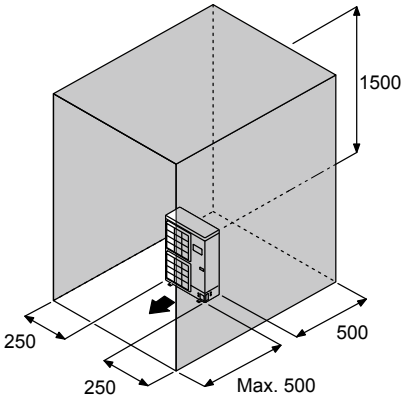
■ WHEN AN OBSTRUCTION IS PRESENT ALSO IN THE UPWARD AREA

(Unit : mm)

Obstacles at rear and above only



Obstacles at rear, sides, and above only



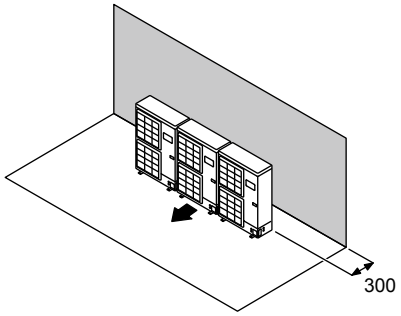
OUTDOOR UNIT
AO*G60LATT

4-2. MULTIPLE OUTDOOR UNIT INSTALLATION

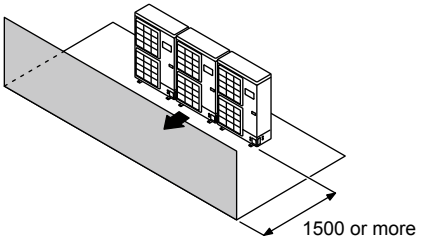
■ WHEN THE UPWARD AREA IS OPEN

(Unit : mm)

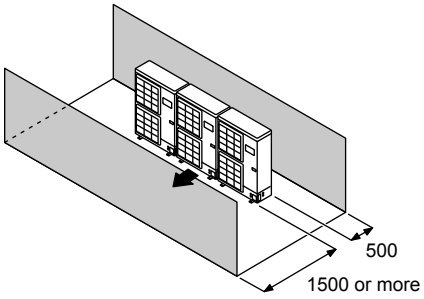
Obstacles at rear only



Obstacles at front only



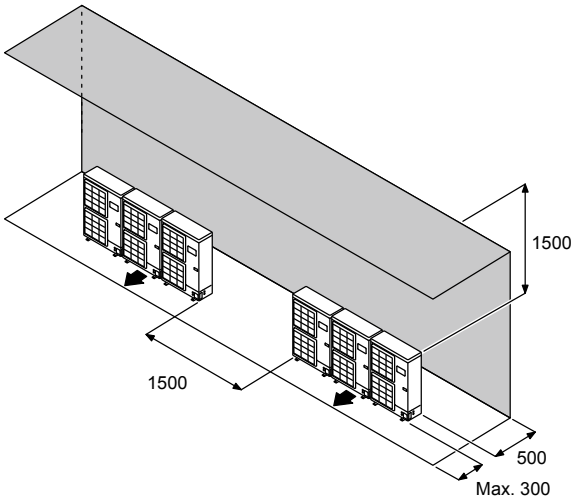
Obstacles at front and rear only



■ WHEN AN OBSTRUCTION IS PRESENT ALSO IN THE UPWARD AREA

(Unit : mm)

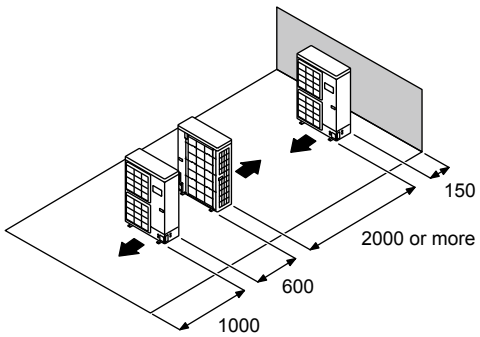
Obstacles at rear and above only



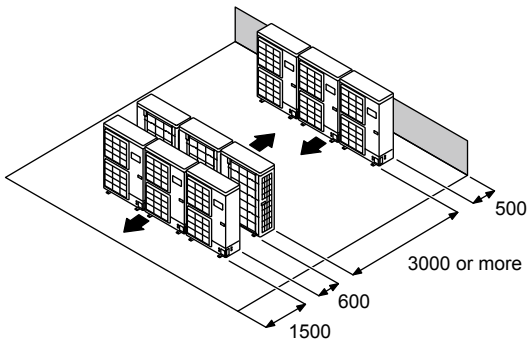
4-3. OUTDOOR UNIT INSTALLATION IN MULTI ROW

(Unit : mm)

Single parallel unit arrangement

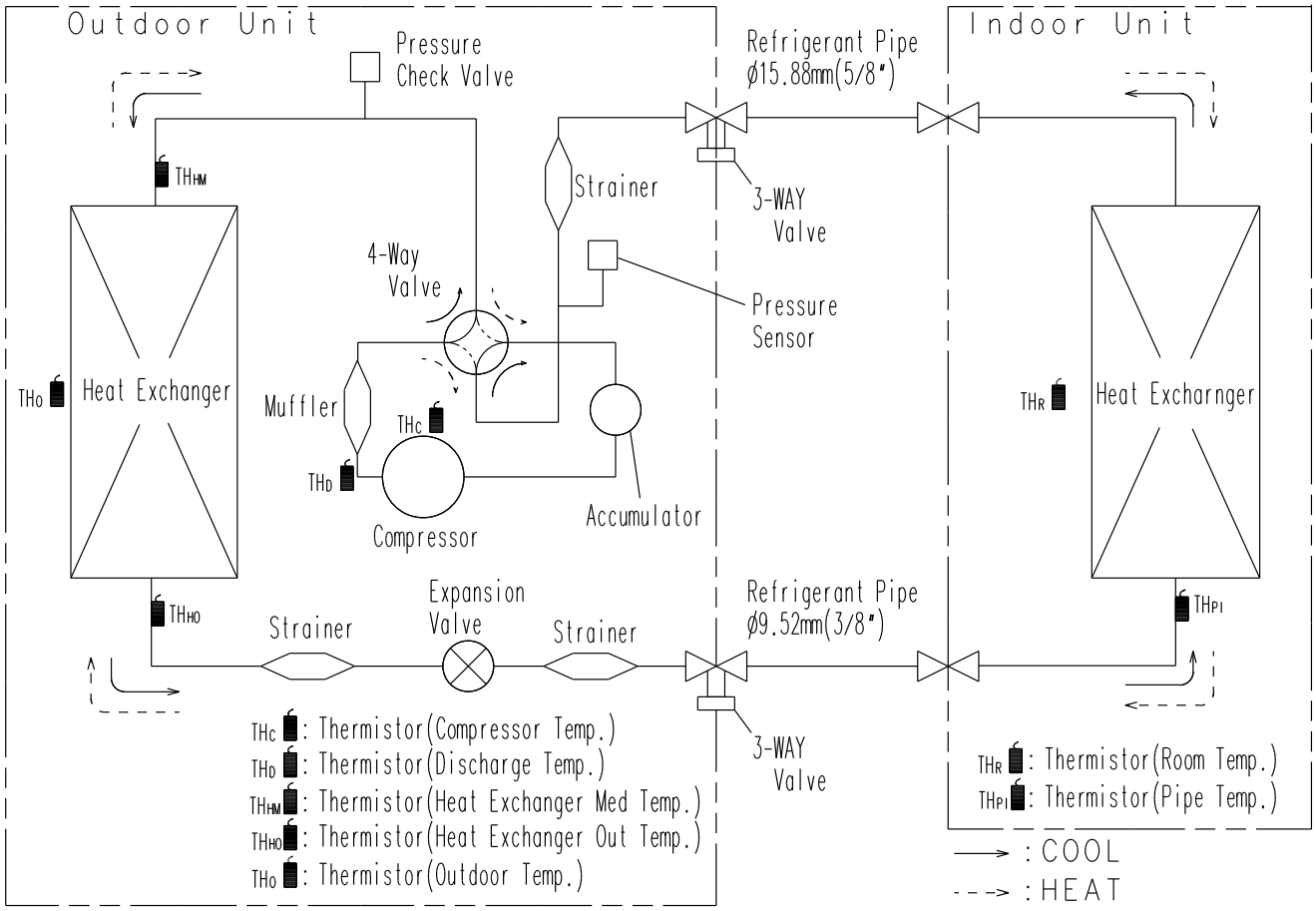


Multiple parallel unit arrangement



5. REFRIGERANT CIRCUIT

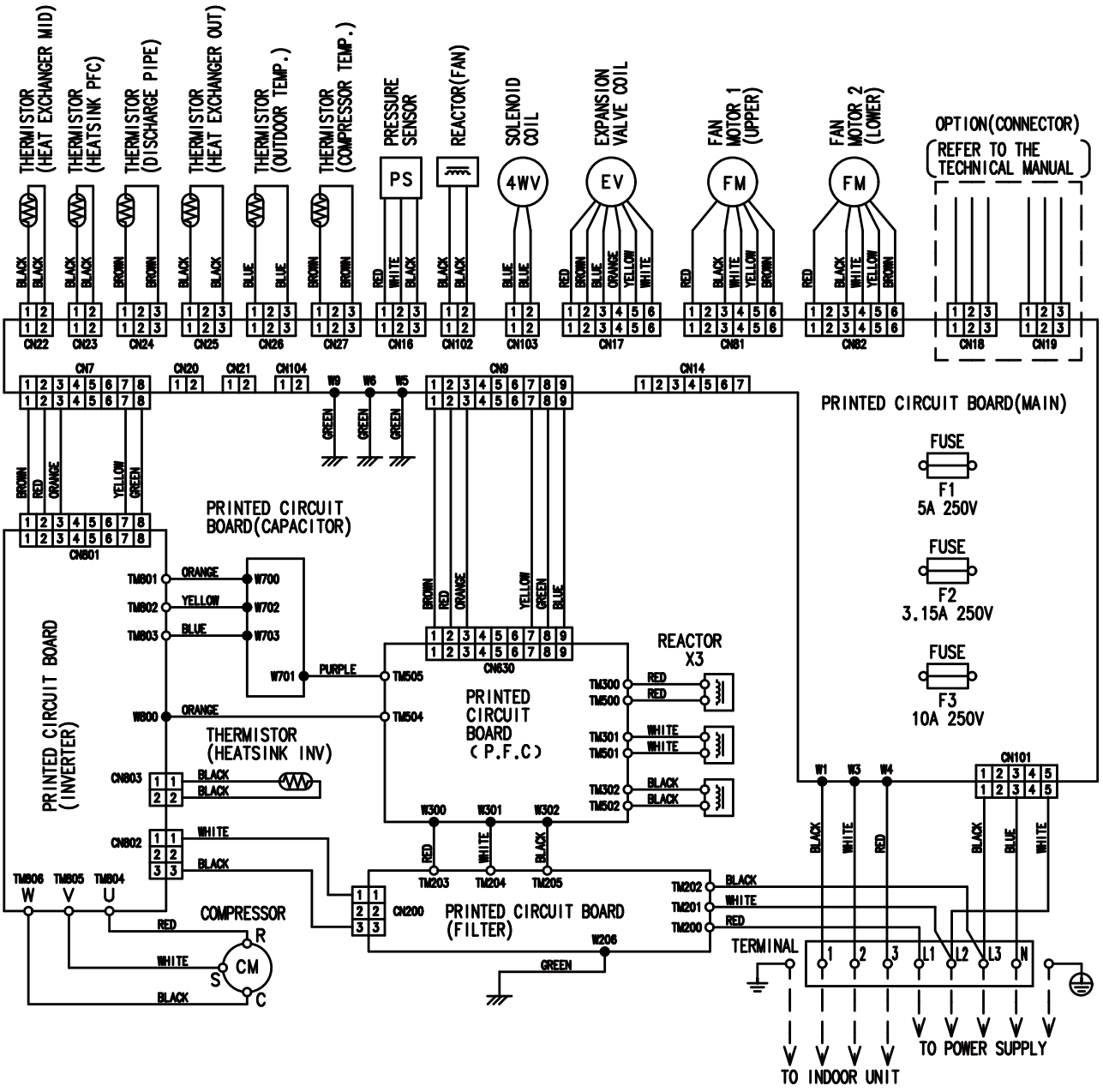
■ MODEL: AO*G60LATT



OUTDOOR UNIT
AO*G60LATT

6. WIRING DIAGRAMS

■ MODEL: AO*G60LATT



OUTDOOR UNIT
AO*G60LATT

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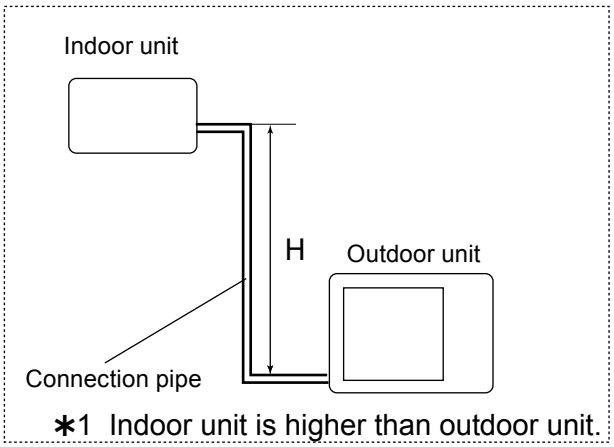
7. CAPACITY COMPENSATION RATE FOR PIPE LENGTH AND HEIGHT DIFFERENCE

■ MODEL: AO∗G60LATT

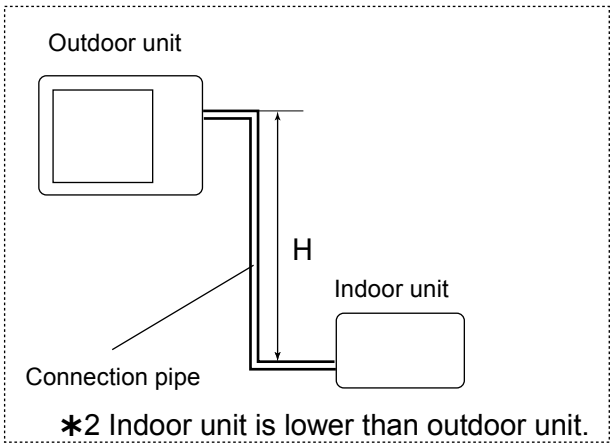
COOLING			Pipe length (m)								
			5	7.5	10	20	30	40	50	60	75
Height difference H (m)	∗1 Indoor unit is higher than outdoor unit.	30	-	-	-	-	0.871	0.837	0.803	0.768	0.717
		20	-	-	-	0.921	0.886	0.851	0.816	0.781	0.729
		10	-	-	0.971	0.936	0.901	0.865	0.830	0.794	0.741
		7.5	-	0.988	0.975	0.940	0.904	0.869	0.833	0.798	0.744
		5	0.992	0.992	0.979	0.944	0.908	0.872	0.836	0.801	0.747
		0	1.000	1.000	0.987	0.951	0.915	0.879	0.843	0.807	0.753
	∗2 Indoor unit is lower than outdoor unit	-5	1.000	1.000	0.987	0.951	0.915	0.879	0.843	0.807	0.753
		-7.5	-	1.000	0.987	0.951	0.915	0.879	0.843	0.807	0.753
		-10	-	-	0.971	0.951	0.915	0.879	0.843	0.807	0.753
		-20	-	-	-	0.951	0.915	0.879	0.843	0.807	0.753
		-30	-	-	-	-	0.915	0.879	0.843	0.807	0.753

HEATING			Pipe length (m)								
			5	7.5	10	20	30	40	50	60	75
Height difference H (m)	∗1 Indoor unit is higher than outdoor unit.	30	-	-	-	-	0.978	0.968	0.958	0.948	0.935
		20	-	-	-	0.988	0.978	0.968	0.958	0.948	0.935
		10	-	-	0.998	0.988	0.978	0.968	0.958	0.948	0.935
		7.5	-	1.000	0.998	0.988	0.978	0.968	0.958	0.948	0.935
		5	1.000	1.000	0.998	0.988	0.978	0.968	0.958	0.948	0.935
		0	1.000	1.000	0.998	0.988	0.978	0.968	0.958	0.948	0.935
	∗2 Indoor unit is lower than outdoor unit	-5	0.995	0.995	0.993	0.983	0.973	0.963	0.953	0.943	0.930
		-7.5	-	0.993	0.990	0.980	0.970	0.960	0.950	0.940	0.928
		-10	-	-	0.988	0.978	0.968	0.958	0.948	0.938	0.926
		-20	-	-	-	0.968	0.958	0.948	0.938	0.929	0.916
		-30	-	-	-	-	0.948	0.939	0.929	0.919	0.907

Height difference H



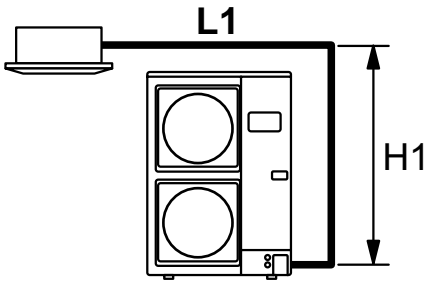
∗1 Indoor unit is higher than outdoor unit.



∗2 Indoor unit is lower than outdoor unit.

8. PIPE SIZE SELECTION & LIMITATION

■ MODEL : AO∗G60LATT



Pipe diameter [mm (in.)]	Liquid pipes	9.52 (3/8)		12.70 (1/2)	
	Gas pipes	15.88 (5/8)	19.05 (3/4)	15.88 (5/8)	19.05 (3/4)
Piping length [m (m)]	Max. piping length < L1 > (Max. chargeless length)	75 [30]	50 [30]	35 [15]	35 [15]

* The figures enclosed by a thick-lined frame indicate the standard pipe diameter and max. piping length.

OUTDOOR UNIT
AO∗G60LATT

9. ADDITIONAL CHARGE CALCULATION

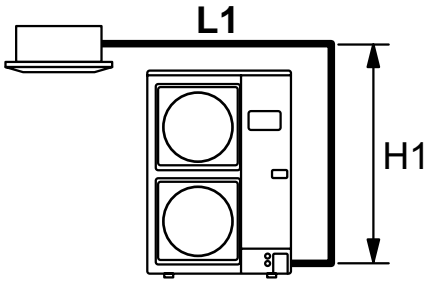
■ MODEL : AO∗G60LATT

Refrigerant type		R410A
Refrigerant amount	g	3,450

■ IF ADDITIONAL REFRIGERANT IS REQUIRED

- When the piping is longer than chargeless piping length, additional charging is necessary.
- For the additional amount, see the table below.

Additional charging amount



L1 > Chargeless piping length

Refrigerant pipe size [mm (in.)]			Additional charging amount [g]					Rate [g/m]
Standard	Piping length		30 m or less	40 m	50 m	60 m	70 m	
	Liquid	9.52 (3/8)	None	500	1,000	1,500	2,000	50
	Gas	15.88 (5/8)						
Size up	Piping length		30 m or less	40 m	50 m			50
	Liquid	9.52 (3/8)	None	500	1,000			
	Gas	19.05 (3/4)						
	Piping length		15 m or less	25 m	35 m			100
	Liquid	12.70 (1/2)	None	1,000	2,000			
	Gas	15.88 (5/8)						
		19.05 (3/4)						

10. AIR FLOW

■ MODEL: AO*G60LATT

● Cooling

	Number of rotations (r.p.m.)	Air flow	
Upper fan	900	m^3/h	6900
		l/s	1917
Lower fan	800	CFM	4062

● Heating

	Number of rotations (r.p.m.)	Air flow	
Upper fan	900	m^3/h	7300
		l/s	2028
Lower fan	900	CFM	4294

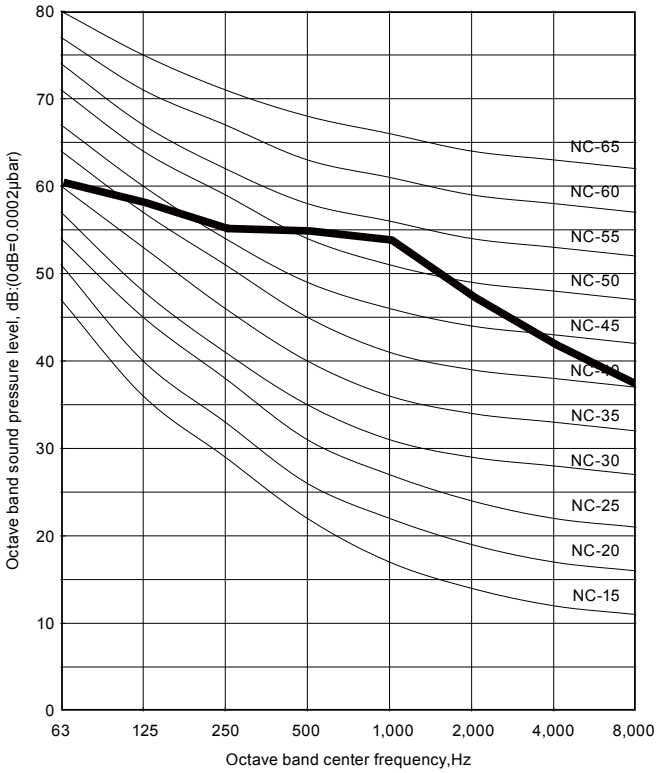
OUTDOOR UNIT
AO*G60LATT

11. OPERATION NOISE

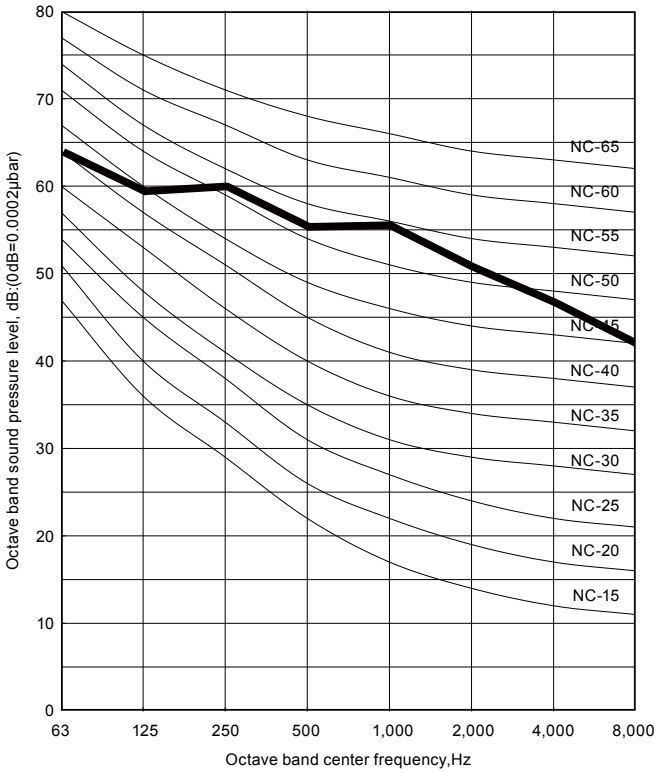
11-1. NOISE LEVEL CURVE

■ MODEL: AO∗G60LATT

● Cooling



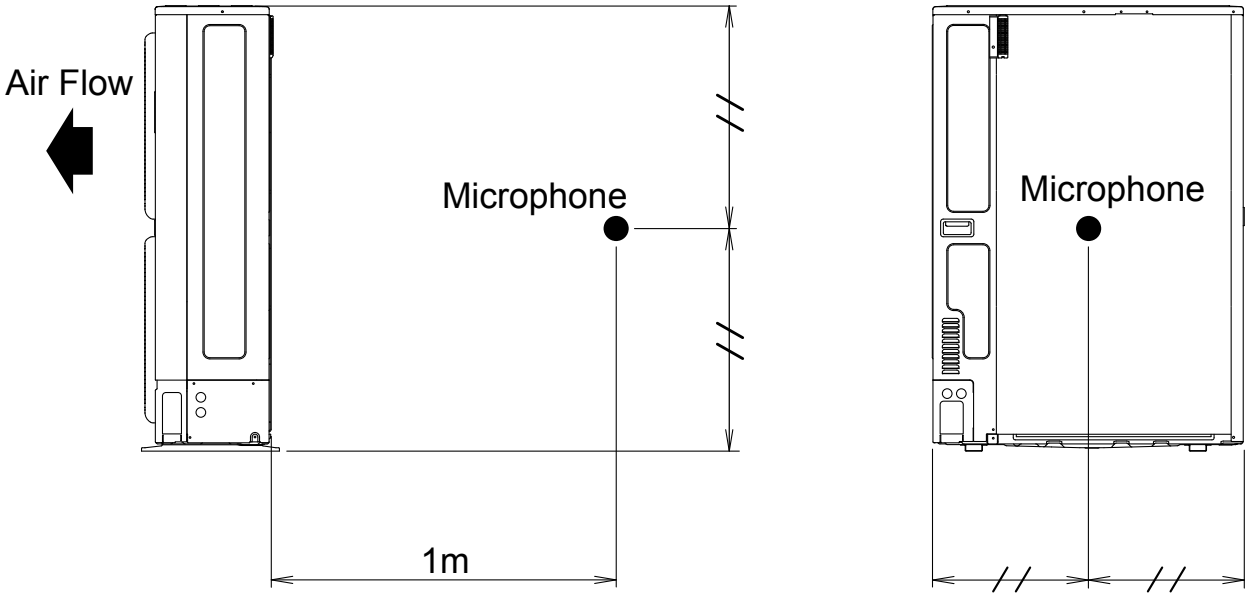
● Heating



OUTDOOR UNIT
AO∗G60LATT

OUTDOOR UNIT
AO*G60LATT

11-2. SOUND LEVEL CHECK POINT



12. ELECTRIC CHARACTERISTICS

Model name			AO*G60LATT
Power supply	Voltage	V	3N~ 400
	Frequency	Hz	50
*1) Max. operating current		A	12.5
*2) Wiring spec.	Circuit breaker current	A	16
	Power cable	mm^2	2.5 (Min)

*1) The maximum current is the total current of indoor unit and outdoor unit.
*2) Wiring spec. :
Selected sample
(Selected based on Japan Electrotechnical Standard and Codes Committee E0005)

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AO*G60LATT

13. SAFETY DEVICES

	Protection form		Model
			AO∗G60LATT
Circuit protection	Current fuse (Main PCB)		250V 5A
	Current fuse (Main PCB)		250V 3.15A
	Current fuse (Main PCB)		250V 10A
	Protector (Filter PCB)		500V 15A
Fan motor protection	Thermal protector		OFF:150±15°C ON:120±15°C
Compressor protection	Thermal protection program (Compressor temp.)		OFF:110°C ON:80°C
	Thermal protection program (Discharge temp.)		OFF : 115°C ON : After 7 minutes
High pressure protection	Thermal protection program (Heat exchanger temp.)	Cooling	OFF : 68°C ON : 63°C
	Pressure sensor	Heating	OFF:4.1MPa ON : After 3 minutes
Low pressure protection	Pressure sensor	Cooling	OFF:0.12MPa or less (for 5 minutes) ON : After 7 minutes

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AO∗G60LATT

14. EXTERNAL INPUT & OUTPUT

Input	Output	Connector	Remarks
Low noise mode	—	CN19	See external input/output settings for details.
Peak cut mode	—	CN19	
—	Error status	CN18	
—	Compressor status	CN18	

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14-1. EXTERNAL INPUT

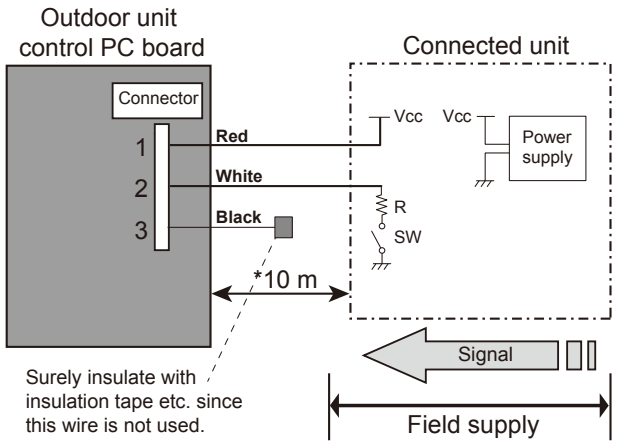
ON/OFF of the "Low noise mode" and "Peak cut mode" functions can be specified by external signal.

■ LOW NOISE MODE

• The following reduces the operating sound of the outdoor unit from the normal sound.
The air conditioner is set to the "Low noise mode" when closing the contact input of a commercial timer or ON/OFF switch to a connector on the outdoor control PC board.

* Performance may drop depending on the outside air temperature condition, etc.

● Circuit diagram example



1) Power supply
- ●Voltage (Chart sign=Vcc) : DC 5V to 24V
- ●The current capacity : About 100mA

2) Switch (Chart sign=SW)
- ●Toggle switch or Rocker switch, etc : Switch which maintains the states.
- ●Prepare switches which are enough capable for DC 10mA current or more

3) Resistance (Chart sign=R)
- ●Adjust the resistance for current to about DC 10mA

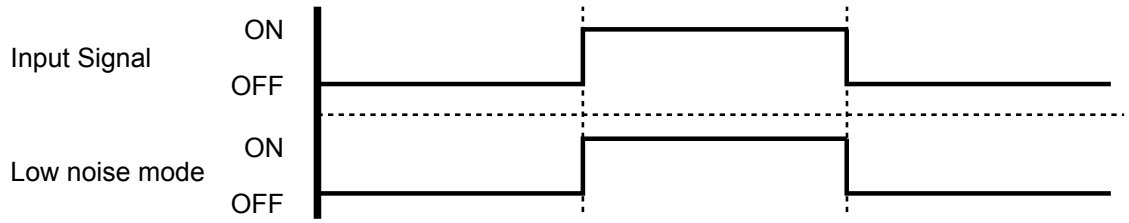
(Example)
- ●In case of Vcc=DC 5V : Rated resistance value 470Ω 1/4W
- ●In case of Vcc=DC 12V : Rated resistance value 1kΩ 1/4W
- ●In case of Vcc=DC 24V : Rated resistance value 2.2kΩ 1/4W

* Make the distance from the PC board to the connected unit within 10 m.

• Use the following parts and construct a circuit as shown above.

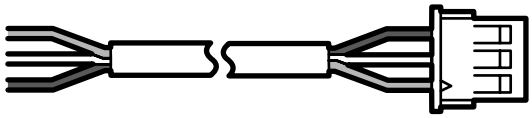
• Input Signal···ON : Low noise mode, Input Signal···OFF : Normal operation

* Set the "Low noise mode" type by "Push switch" on the outdoor control PC board.



● Parts (Optional)

Parts name	Model name
External connect kit	UTY-XWZXZ2



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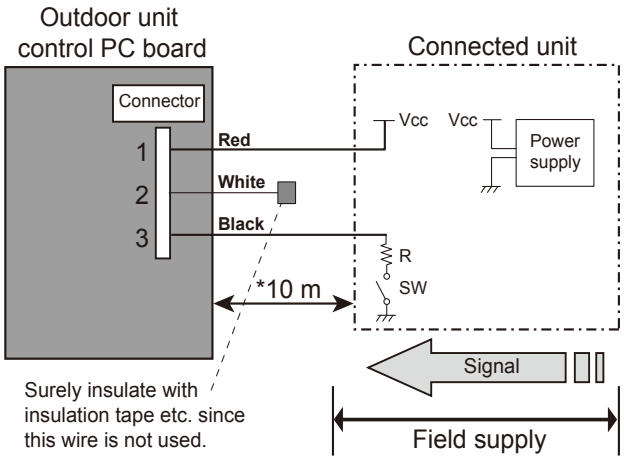
■ PEAK CUT MODE

• Operation that suppressed the current value can be performed by means of the following on-site work. The air conditioner is set to the Peak cut mode when closing the contact input of a commercial ON/OFF switch to a connector on the outdoor control PC board.

● Circuit diagram example



1) Power supply
- ●Voltage (Chart sign=Vcc) : DC 5V to 24V
- ●The current capacity : About 100mA

2) Switch (Chart sign=SW)
- ●Toggle switch or Rocker switch, etc : Switch which maintains the states.
- ●Prepare switches which are enough capable for DC 10mA current or more

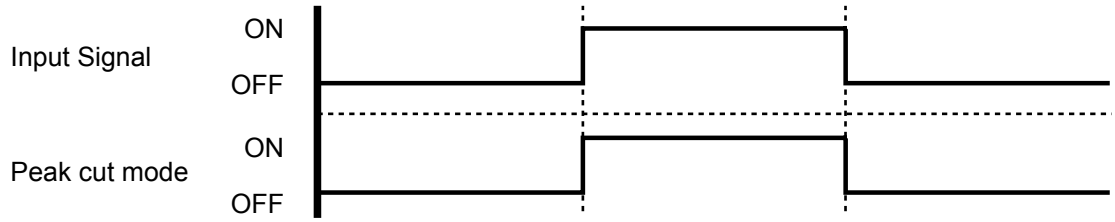
3) Resistance (Chart sign=R)
- ●Adjust the resistance for current to about DC 10mA

(Example)
- ●In case of Vcc=DC 5V : Rated resistance value 470Ω 1/4W
- ●In case of Vcc=DC 12V : Rated resistance value 1kΩ 1/4W
- ●In case of Vcc=DC 24V : Rated resistance value 2.2kΩ 1/4W

* Make the distance from the PC board to the connected unit within 10 m.

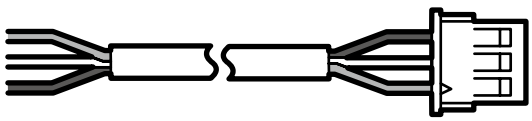
• Use the following parts and construct a circuit as shown above.

• Input Signal···ON : Peak cut mode, Input Signal···OFF : Normal operation
*Set the "Peak cut mode" level, refer to "15.FUNCTION SETTING".



● Parts (Optional)

Parts name	Model name
External connect kit	UTY-XWZXZ2



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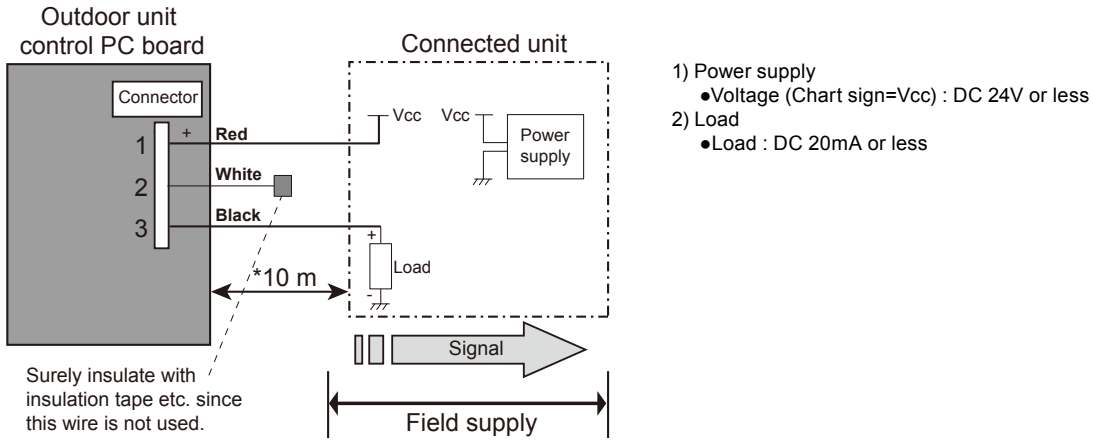
14-2. EXTERNAL OUTPUT

■ ERROR STATUS OUTPUT

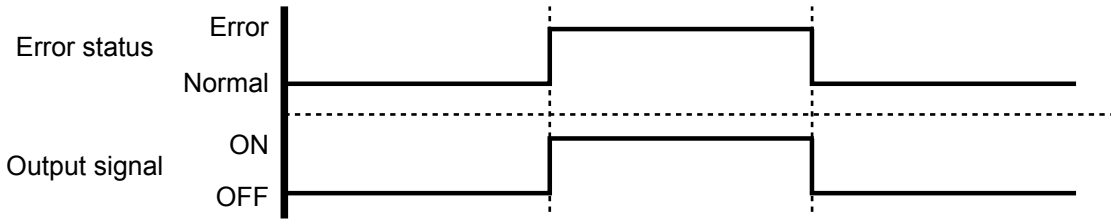
• An air conditioner error status signal is produced when a malfunction occurs.

● Circuit diagram example



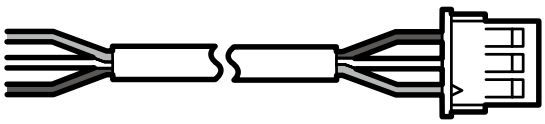
1) Power supply
●Voltage (Chart sign=Vcc) : DC 24V or less
2) Load
●Load : DC 20mA or less

* Make the distance from the PC board to the connected unit within 10 m.



● Parts (Optional)

Parts name	Model name
External connect kit	UTY-XWZXZ2



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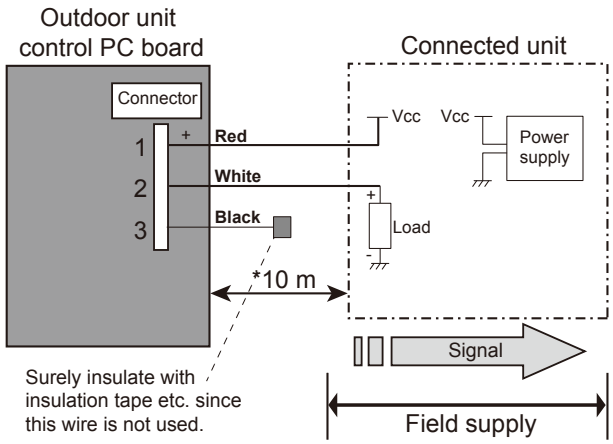
■ COMPRESSOR STATUS OUTPUT

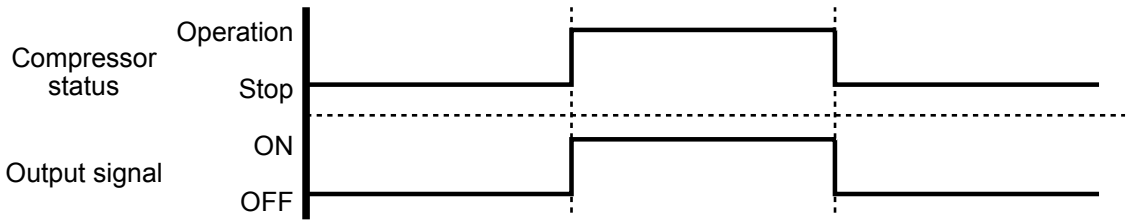
• Compressor operation status signal is produced when the compressor is running.

● Circuit diagram example



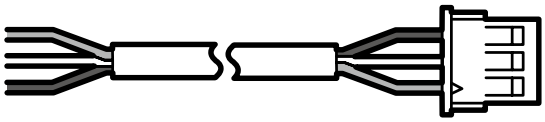
1) Power supply
●Voltage (Chart sign=Vcc) : DC 24V or less
2) Load
●Load : DC 20mA or less

* Make the distance from the PC board to the connected unit within 10 m.



● Parts (Optional)

Parts name	Model name
External connect kit	UTY-XWZXZ2



15. FUNCTION SETTING

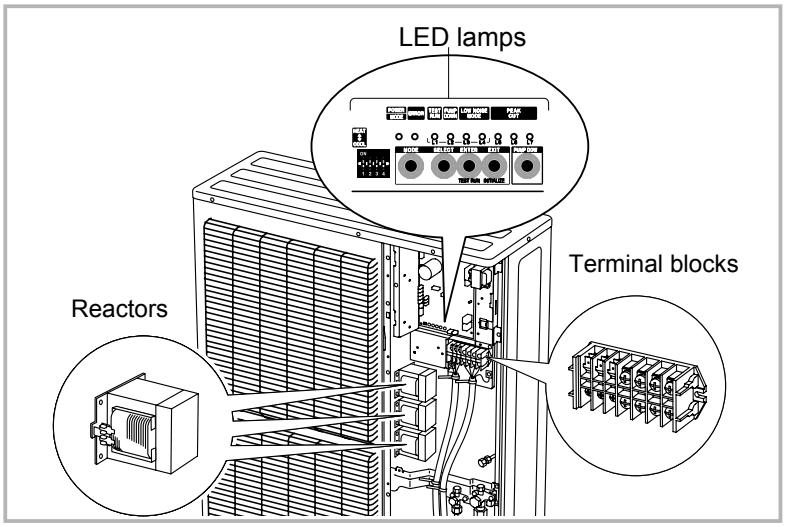
15-1. OUTDOOR UNIT

⚠ WARNING
Never touch electrical components such as the terminal blocks or reactor except the switch on the display board. It may cause a serious accident such as electric shock.

⚠ CAUTION
Discharge the static electricity from your body before setting up the push buttons. Never touch the terminals or the patterns on the parts that are mounted on the board.

15-1-1. FIELD SETTING SWITCHES

The positions of the switches on the outdoor unit control board are shown in the figure below.



OUTDOOR UNIT
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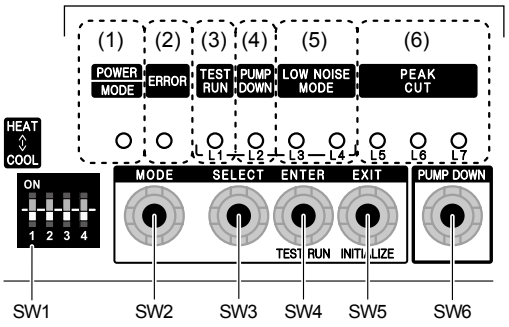
■ FUNCTIONS

LED lamps



Display lamp		Function or operation method
(1) POWER / MODE	Green	Lights on while power on Local setting in outdoor unit or error code is displayed with blink.
(2) ERROR	Red	Blinks during abnormal air-conditioner operation.
(3) TEST RUN (L1)	Orange	Lights on during test operation.
(4) PUMP DOWN (L2)	Orange	Lights on during pump down operation.
(5) LOW NOISE MODE (L3, L4)	Orange	Lights on during “Low noise” function when local setting is activated. (Lighting pattern of L3 and L4 indicates low noise level) ⇨See page (02-23).
(6) PEAK CUT MODE (L5, L6, L7)	Orange	Lights on during “Peak cut” function when local setting is activated.(Lighting pattern of L5, L6 and L7 indicates peak cut level) ⇨ See page (02-24).

Switch		Function or operation method
SW1	DIP switch	For selecting cooling or heating during test operation. Positions 2 to 4 of Dip switch are not used.
SW2	Push switch	To switch between “Local setting” and “Error code display”.
SW3	Push switch	To switch between the individual “Local settings” and the “Error code displays”.
SW4	Push switch	To fix the individual “Local settings” and the “Error code displays”.
SW5	Push switch	EXIT
SW6	Push switch	To start the pump down operation.

- Dip switches 1 to 4 at shipment from the factory are set as follows.

Switch			
1	2	3	4
COOL	OFF	OFF	OFF

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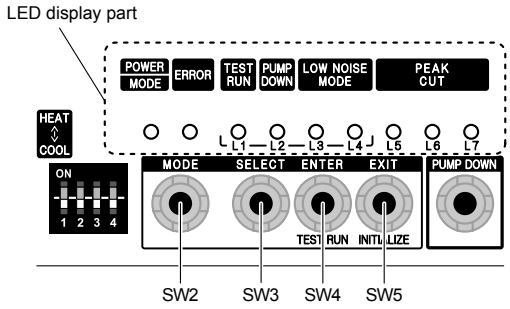
15-1-2. SETTING METHOD

※ Stop the operation of air conditioner before this setting.

■ LOW NOISE MODE



(1) Switch to “Local setting mode” by pressing [MODE] switch (SW2) for 3 seconds or more.

(2) Confirm (POWER / MODE) blinks 9 times, and press [ENTER] switch (SW4).

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
Blinks (9 times)	○	○	○	○	○	○	○	○

Sign “ ○ ” : Lights off

(3) Press [SELECT] switch (SW3), and adjust LED display as shown below. (Current setting is displayed)

	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)
LOW NOISE MODE	○	○	○	Blink

(4) Press [ENTER] switch (SW4).

	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)
LOW NOISE MODE	○	○	○	●

Sign “ ● ” : Lights on

(5) Press [SELECT] switch (SW3), and adjust LED display as shown in below figure.

	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
Level 1 ... Rated noise value -2dB	○	○	Blink
Level 2 ... Rated noise value -4dB	○	Blink	○

(6) Press [ENTER] switch (SW4) and fix it.

	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
Level 1 ... Rated noise value -2dB	○	○	●
Level 2 ... Rated noise value -4dB	○	●	○

(7) Return to “Operating status display (Normal operation)” by pressing [EXIT] switch (SW5).

- In case of missing how many times [SELECT] and [ENTER] switch are pressed, restart from the beginning of operation procedure after returning to “Operation status display (normal operation)” by pressing the [EXIT] switch once.

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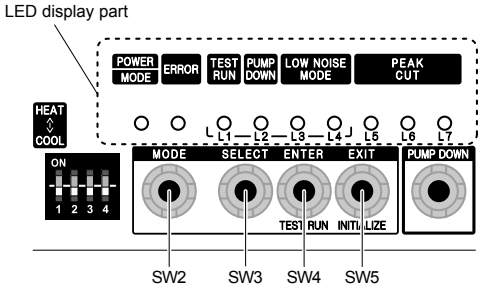
■ PEAK CUT MODE



(1) Switch to “Local setting mode” by pressing [MODE] switch (SW2) for 3 seconds or more.

(2) Confirm (POWER / MODE) blinks 9 times, and press [ENTER] switch (SW4).

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
Blinks (9 times)	○	○	○	○	○	○	○	○

Sign “ ○ ” : Lights off

(3) Press [SELECT] switch (SW3), and adjust LED display as shown below. (Current setting is displayed)

	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)
PEAK CUT MODE	○	○	Blink	○

(4) Press [ENTER] switch (SW4).

	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)
PEAK CUT MODE	○	○	●	○

Sign “ ● ” : Lights on

(5) Press [SELECT] switch (SW3), and adjust LED display as shown in below figure.

	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
0% of rated input ratio	○	○	Blink
50% of rated input ratio	○	Blink	○
75% of rated input ratio	○	Blink	Blink
100% of rated input ratio	Blink	○	○

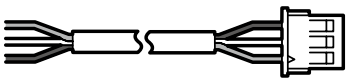
(6) Press [ENTER] switch (SW4) and fix it.

	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
0% of rated input ratio	○	○	●
50% of rated input ratio	○	●	○
75% of rated input ratio	○	●	●
100% of rated input ratio	●	○	○

(7) Return to “Operating status display (Normal operation)” by pressing [EXIT] switch (SW5).

• When pressed number is lost during operation, restart from the beginning of operation procedure after returning to “Operation status display (normal operation)” by pressing the [EXIT] switch once.

16. OPTIONAL PARTS

Exterior	Parts name	Model No.	Summary
	External connect kit	UTY-XWZXZ2	Use to operate the External input and output function of Outdoor unit.

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