Refrigerant R410A
INVERTER

AIR CONDITIONER

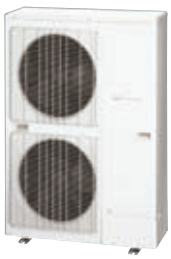
Ceiling type

DESIGN & TECHNICAL MANUAL

INDOOR

AB∗G45LRTA

OUTDOOR



AO∗G45LETL

FUJITSU GENERAL LIMITED

1. INDOOR UNIT

CEILING TYPE :

AB∗G45LRTA

DTR_AB038E_04
2016.11.07

CEILING TYPE
AB∗G45LRTA

CONTENTS

1. INDOOR UNIT

CEILING TYPE
AB∗G45LRTA

1. FEATURES

■ MODEL

AB∗G45LRTE / AO∗G45LETL

■ FEATURES

● Energy saving

High energy saving was realized by making the indoor unit and outdoor unit fan motor and compressor all DC and optimal design of the refrigerant cycle.

● Quiet operation

Air flow mode can be set in 4 steps and more detailed air flow setting is possible.
45 type: 34 dB at operation in the Quiet mode.

● Filter sign

Dirtying of filter is detected by air conditioner operating time and the user is informed.

● Economy operation

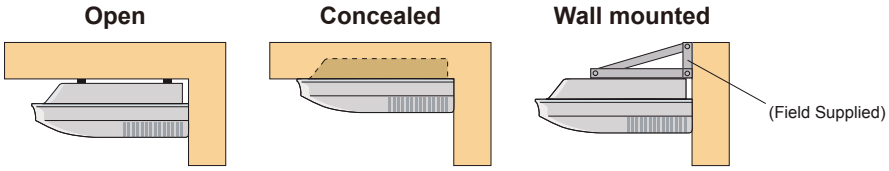
The power consumption can be reduced.

● Wired/wireless simultaneous use possible

Wired remote controller and wireless remote controller can be simultaneously used.

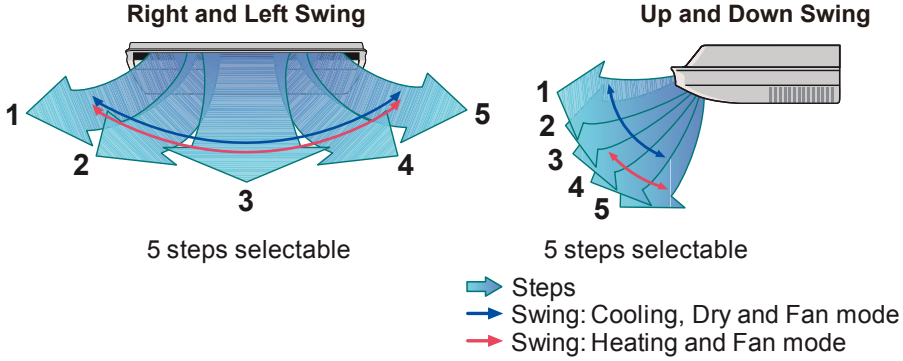
● Flexible installation

A high installation of the construction of the ceiling and degree of freedom corresponding to height is possible.



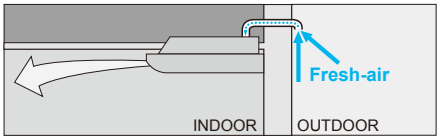
● Double auto swing

Combination of up/down and right/left air direction swing allows three-dimensional air direction control.
Since up/down air direction flaps operate automatically, according to the operating mode of the unit, it is possible to set the air direction based on the operating mode.



CEILING TYPE
AB∗G45LRTA

● Fresh-air intake



CEILING TYPE
AB∗G45LRTA

2. WIRELESS REMOTE CONTROLLER

■ FEATURES

∗ 4 mode timer setup available (ON / OFF / PROGRAM / SLEEP).
∗ Easy operation.
∗ Easy to change custom code (max. 4 units) by button operation.

● Simple function setting

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

● Built-in timers

Select from four different timer programs (ON / OFF / PROGRAM / SLEEP).

● Program timer

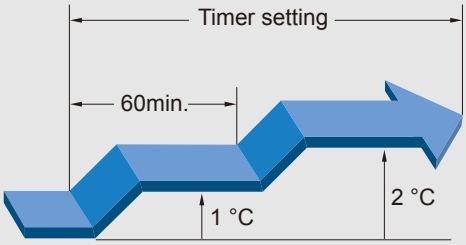
The program timer operates the on and off timer once within a 24 hour period.

● Sleep timer

The sleep timer function automatically corrects the temperature thermostat setting according to the time setting to prevent excessive cooling and heating while sleeping.

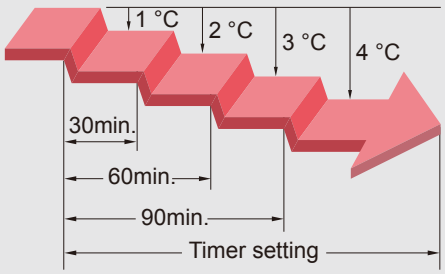
Cooling operation/dry operation

When the sleep timer is set, the set temperature automatically rises 1°C every hour. The set temperature can rise up to a maximum of 2°C.

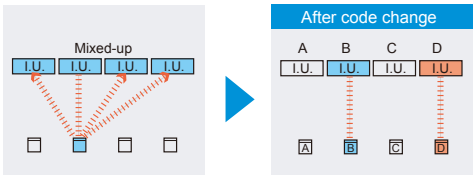


Heating operation

When the sleep timer is set, the set temperature automatically drops 1°C every 30 minutes. The set temperature can drop to a maximum of 4°C.



● Switching remote controller custom code

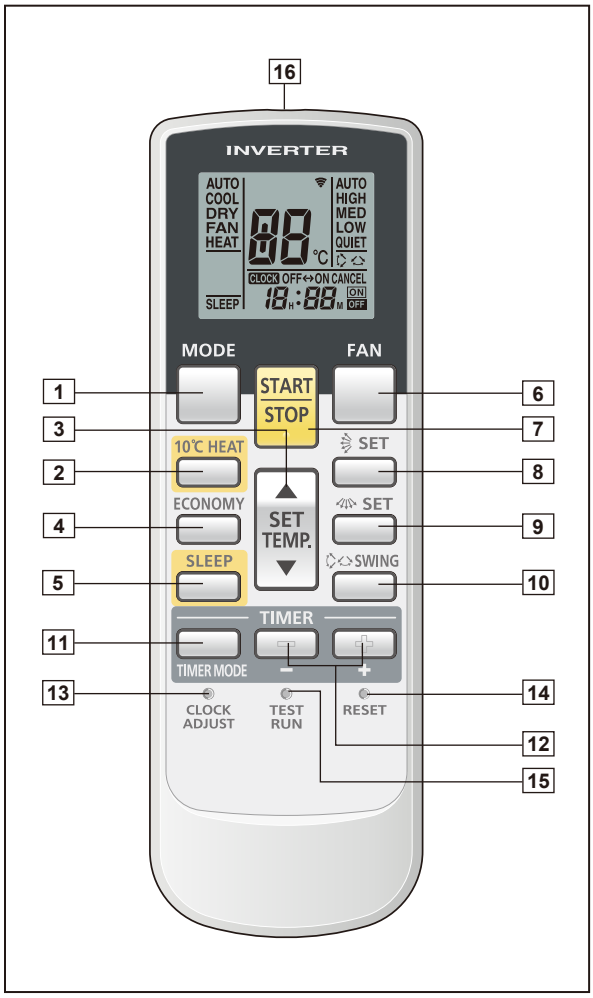


• Code selector switch eliminates unit being wrongly switched.
(Up to 4 codes can be set.)

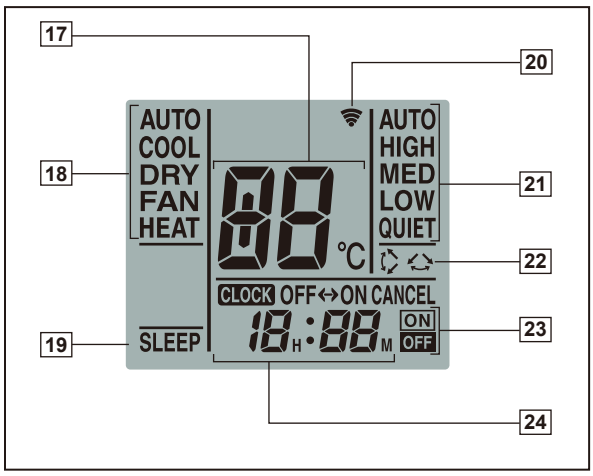
*I.U.=Indoor unit

CEILING TYPE
AB*G45LRTA

■ FUNCTIONS



Display panel



1 MODE button
Selects the operating mode (AUTO, COOL, DRY, FAN, HEAT).
/Start / end R.C. custom code change. (Max 4 types)

2 10°C HEAT button

3 SET TEMP. button (▲ / ▼)
Sets the indoor temp./ Sets R.C. custom code.

4 ECONOMY button

5 SLEEP button
Pressed to select sleep timer.

6 FAN button
Selects the fan speed (AUTO, HIGH, MED, LOW, QUIET).

7 START/STOP button
Pressed to start and stop operation.

8 SET button (Vertical)
Air flow direction vertical set button.

9 SET button (Horizontal)
Air flow direction horizontal set button.

10 SWING button
Air flow direction swing button.

11 TIMER MODE button
Pressed to select the timer mode. (OFF TIMER, ON TIMER, PROGRAM TIMER, TIMER RESET)

12 TIMER SET (⊞ / ⊟) button
Sets the current time and on-off time.

13 CLOCK ADJUST button
Sets the current time.

14 RESET button
Used when replacing batteries.

15 TEST RUN button
Used when testing the air conditioner after installation.

16 Signal transmitter

17 Temperature set display

18 Operating mode display

19 Sleep display

20 Transmit indicator

21 Fan speed display

22 Swing display

23 Timer mode display

24 Clock display

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

■ SPECIFICATION

SIZE	(H × W × D mm)	170 × 56 × 19
WEIGHT	(g)	85 (w/o batteries)
ACCESSORY		Holder

3. SPECIFICATIONS

Type					CEILING MODEL INVERTER HEATPUMP
Model name					AB∗G45LRTA
Power source					230 V ~ 50 Hz
Available voltage range					198 - 264 V
Capacity	Cooling	Rated		kW	12.1
				BTU/h	41300
		Min-Max		kW	4.0-13.3
				BTU/h	13700-45400
	Heating	Rated		kW	13.3
				BTU/h	45400
		Min-Max		kW	4.2-15.5
				BTU/h	14300-52900
Input power	Cooling	Rated		kW	3.77
		Max			4.70
	Heating	Rated			3.68
		Max			4.70
Current	Cooling	Rated		A	16.5
	Heating				16.1
EER		Cooling		kW/kW	3.21
COP		Heating			3.61
Moisture removal				l/h (pints/h)	4.0(7.0)
Maximum operating current *		Cooling		A	20.5
		Heating			20.5
Fan	Airflow rate	Cooling	High	m^3/h	2100
			Med		1700
			Low		1400
			Quiet		1100
		Heating	High		2100
			Med		1700
			Low		1400
			Quiet		1100
	Type × Q'ty				Sirocco× 4
	Motor output			W	130
Sound pressure level		Cooling	High	dB(A)	49
			Med		45
			Low		39
			Quiet		34
		Heating	High		49
			Med		45
			Low		39
			Quiet		34
Heat exchanger type		Dimensions (H × W × D)		mm	252x1350x39.9
		Fin pitch			1.45
		Rows x Stages			3 x 12
		Pipe type			Copper
		Fin type			Aluminium
Enclosure		Material			ABS
		Colour			WHITE (Approximate colour of MUNSELL N 9.25 /)
Dimensions (H×W×D)	Net			mm	240×1660×700
	Gross				318×1800×795
Weight	Net			kg	46
	Gross				58
Connection pipe	Size	Liquid		mm	Ø9.52 (3/8 in.)
		Gas			Ø15.88 (5/8 in.)
	Method				Flare
Operation range		Cooling		˚C	18 to 32
				%RH	80 or less
		Heating		˚C	16 to 30
Remote controller type					Wireless
Drain port	Material				ABS
	Size			mm	Ø 21.5 (I.D.), Ø26.0 (O.D.)

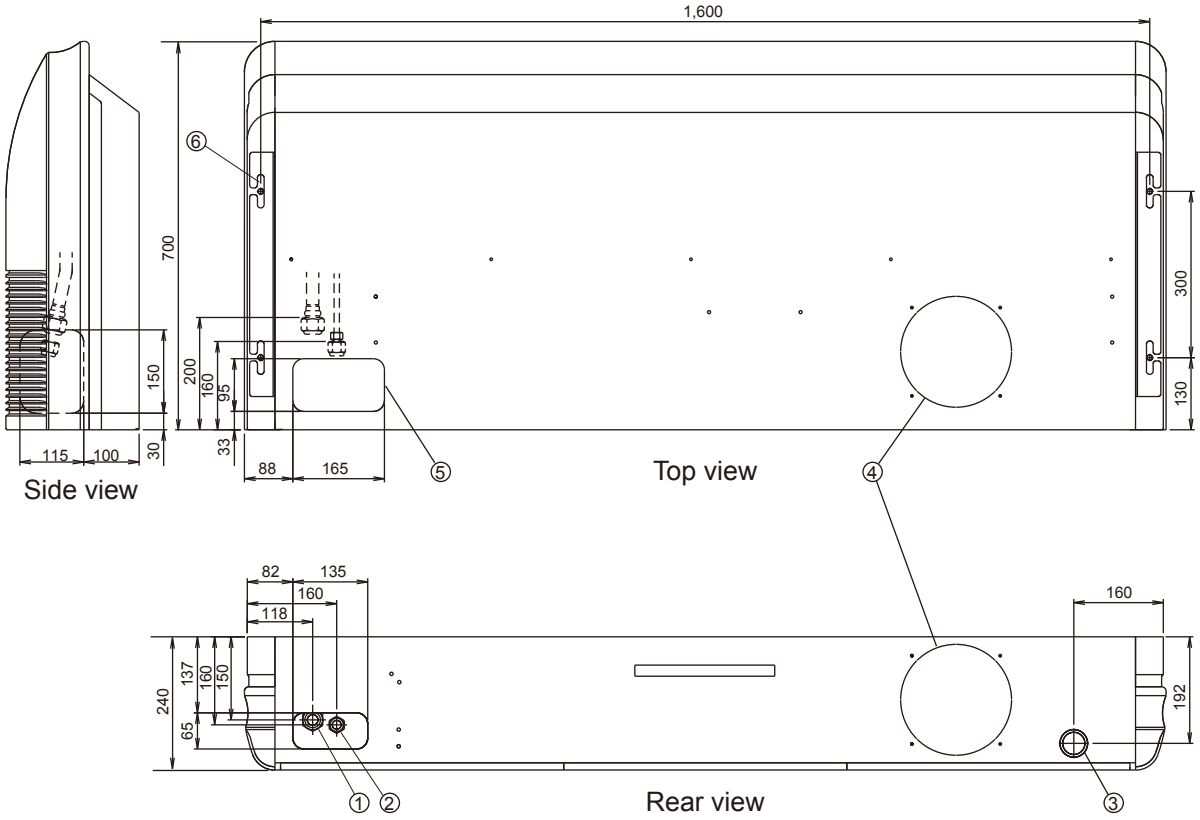
Note :
Specifications are based on the following conditions.
Cooling : Indoor temperature of 27˚CDB / 19˚CWB.and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / 15˚CWB.and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 5 m, Height difference : 0 m.(Outdoor unit - Indoor unit)
The protective function might work when using outside the operation range.
*The maximum current is the maximum value when operated with in the operation range.

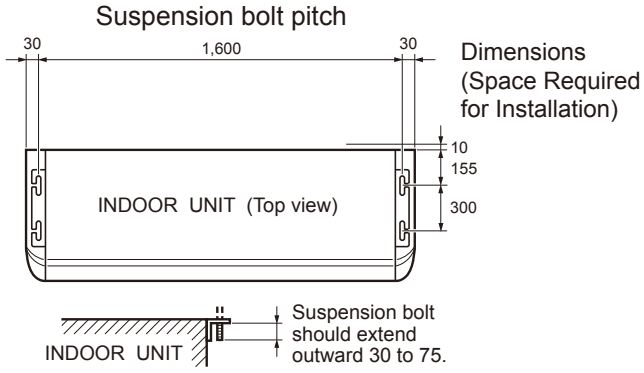
CEILING TYPE
AB∗G45LRTA

4. DIMENSIONS

■ MODEL: AB∗G45LRTA

(Unit : mm)





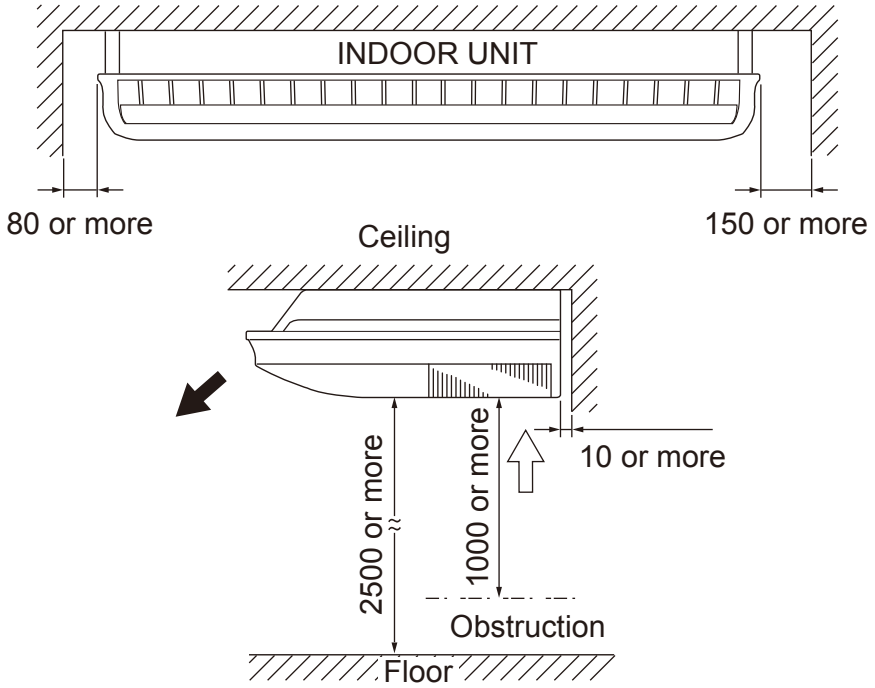
① Refrigerant piping flare connection (Gas)
② Refrigerant piping flare connection (Liquid)
③ Drain piping connection
④ Knock out hole for fresh air
⑤ Knock out hole for refrigerant piping
⑥ Hole for lifting bolt (Use M10 screw bolt)

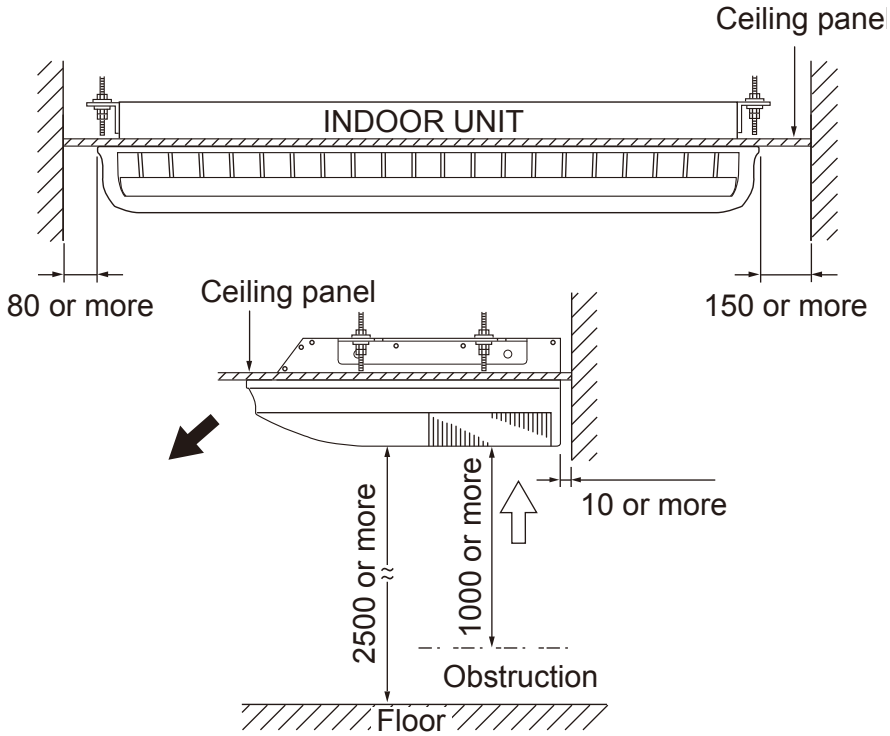
CEILING TYPE
AB∗G45LRTA

■ INSTALLATION PLACE

(Unit : mm)

Ceiling

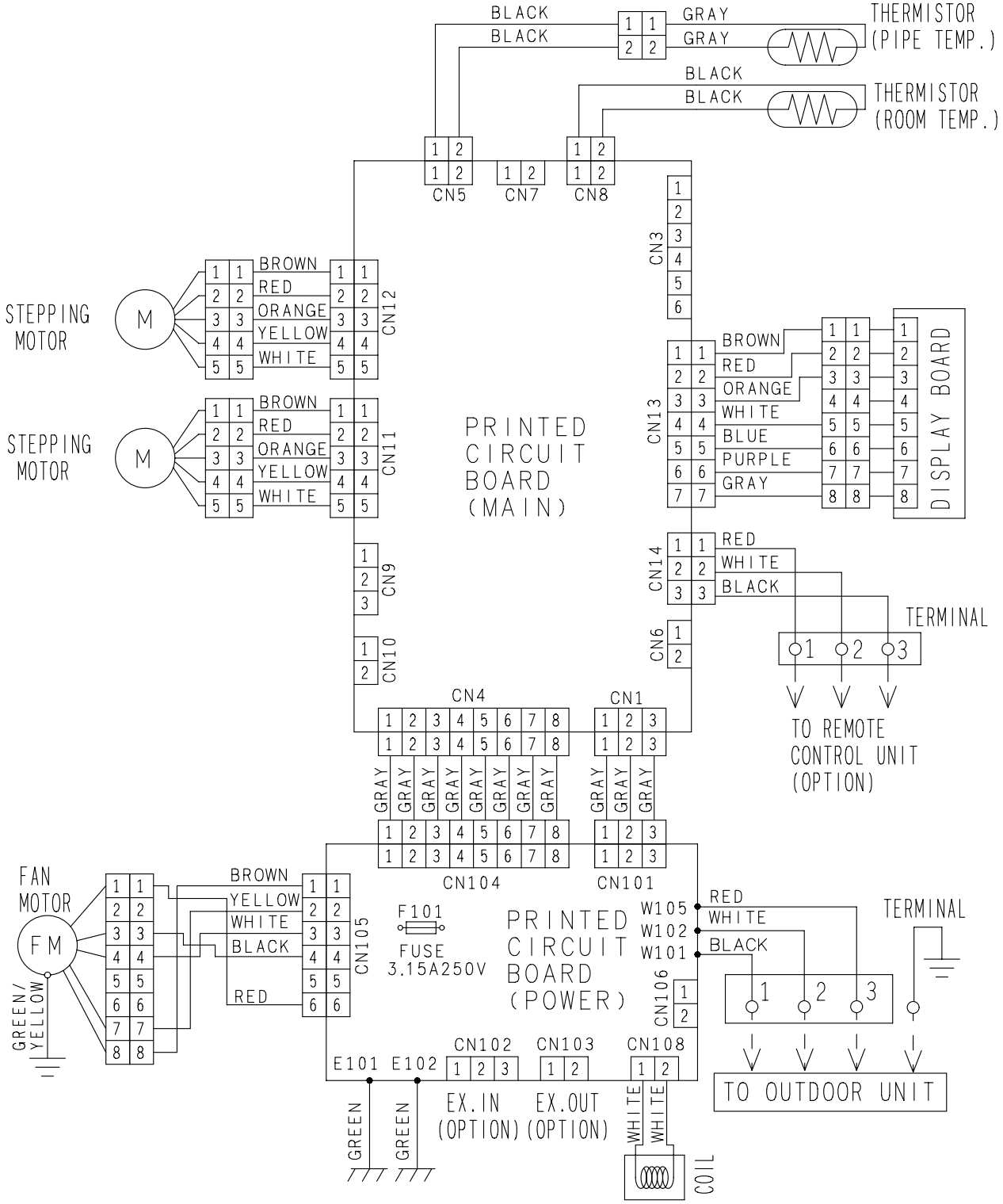




CEILING TYPE
AB∗G45LRTA

5. WIRING DIAGRAMS

■ MODEL: AB∗G45LRTA



CEILING TYPE
AB∗G45LRTA

6. CAPACITY TABLE

6-1. COOLING CAPACITY

This table is created using the maximum capacity.

■ MODEL: AB∗G45LRTA / AO∗G45LETL

AFR	35.0

		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	11.08	8.53	2.62	12.35	8.58	2.66	12.77	9.32	2.67	13.61	9.35	2.70	14.03	10.10	2.71	14.87	10.06	2.74	15.71	10.72	2.76
	-10	11.01	8.53	2.63	12.26	8.58	2.68	12.68	9.33	2.69	13.51	9.36	2.72	13.93	10.11	2.73	14.77	10.07	2.76	15.60	10.73	2.78
	0	11.20	8.64	2.36	12.47	8.69	2.40	12.90	9.44	2.41	13.75	9.47	2.44	14.18	10.23	2.45	15.03	10.19	2.47	15.88	10.86	2.50
	5	11.02	8.56	2.37	12.28	8.61	2.41	12.69	9.36	2.42	13.53	9.39	2.45	13.95	10.14	2.46	14.79	10.10	2.48	15.62	10.76	2.51
	10	10.84	8.48	2.73	12.08	8.53	2.77	12.49	9.27	2.79	13.31	9.30	2.82	13.72	10.04	2.83	14.55	10.00	2.86	15.37	10.66	2.89
	15	10.73	8.45	2.84	11.95	8.50	2.88	12.35	9.24	2.90	13.17	9.27	2.93	13.58	10.01	2.94	14.39	9.97	2.97	15.21	10.62	3.00
	20	10.87	8.52	3.17	12.11	8.57	3.22	12.52	9.31	3.24	13.35	9.34	3.27	13.76	10.09	3.29	14.59	10.05	3.32	15.41	10.71	3.36
	25	10.74	8.49	3.46	11.96	8.54	3.52	12.37	9.28	3.54	13.19	9.32	3.57	13.59	10.06	3.59	14.41	10.02	3.63	15.23	10.67	3.66
	30	10.73	8.48	4.27	11.95	8.53	4.33	12.36	9.27	4.35	13.17	9.30	4.40	13.58	10.05	4.42	14.39	10.01	4.42	15.21	10.66	4.42
	35	10.51	8.46	4.27	11.70	8.51	4.33	12.10	9.26	4.35	12.90	9.29	4.40	13.30	10.03	4.42	14.10	9.99	4.42	14.90	10.64	4.42
	40	8.41	7.33	3.84	9.37	7.49	3.90	9.69	8.15	3.92	10.33	8.17	3.96	10.65	8.83	3.98	11.29	8.79	3.98	11.92	9.36	3.98
	46	6.42	6.41	3.17	7.16	6.59	3.21	7.40	7.17	3.23	7.89	7.19	3.26	8.13	7.77	3.28	8.62	7.73	3.28	9.11	8.24	3.28

AFR : Airfl ow rate (m^3/min)
TC : Total capacity (kW)
SHC : Sensible Heat capacity (kW)
IP : Input Power(kW)

CEILING TYPE
AB∗G45LRTA

6-2. HEATING CAPACITY

This table is created using the maximum capacity.

■ MODEL: AB∗G45LRTA / AO∗G45LETL

AFR	35.0

			Indoor temperature									
		°CDB	16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
	-15	-16	10.71	4.21	10.46	4.30	10.20	4.39	9.95	4.48	9.69	4.57
	-10	-11	11.68	4.23	11.41	4.32	11.13	4.41	10.85	4.50	10.57	4.59
	-5	-7	12.67	4.25	12.37	4.34	12.06	4.43	11.76	4.43	11.46	4.43
	0	-2	13.64	4.25	13.31	4.34	12.99	4.43	12.66	4.43	12.34	4.43
	5	3	14.97	4.25	14.61	4.34	14.26	4.43	13.90	4.43	13.55	4.43
	7	6	16.28	4.25	15.89	4.34	15.50	4.43	15.11	4.43	14.73	4.43
	10	8	16.45	4.25	16.06	4.34	15.66	4.43	15.27	4.43	14.88	4.43
	15	10	16.22	3.80	15.84	3.88	15.45	3.96	15.06	3.96	14.68	3.96
	20	15	15.78	3.35	15.40	3.42	15.03	3.49	14.65	3.49	14.28	3.49
	24	18	16.62	3.35	16.22	3.42	15.82	3.49	15.43	3.49	15.03	3.49

AFR : Air flow rate (m^3/min)
TC : Total capacity (kW)
IP : Input Power(kW)

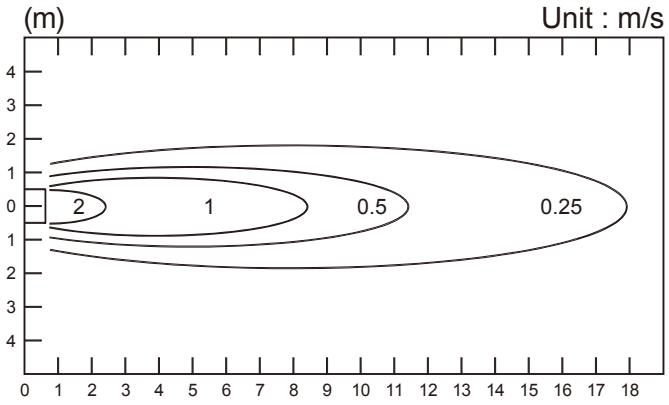
CEILING TYPE
AB∗G45LRTA

7. FAN PERFORMANCE

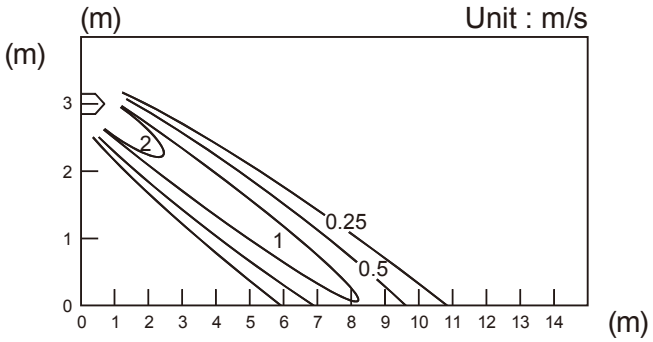
7-1. AIR VELOCITY DISTRIBUTION

■ MODEL: AB∗G45LRTA

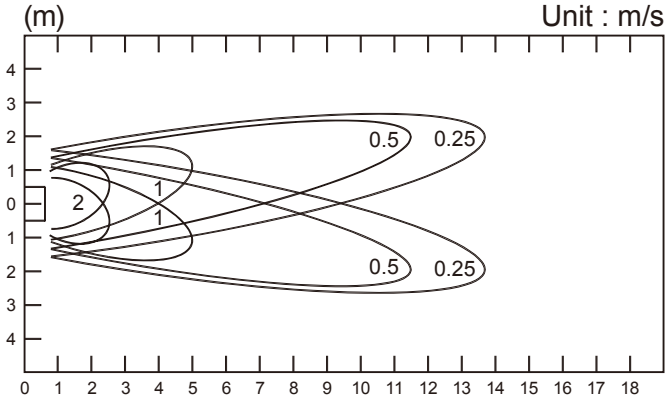
Note:
Condition
Fan speed : High
Operation mode : FAN



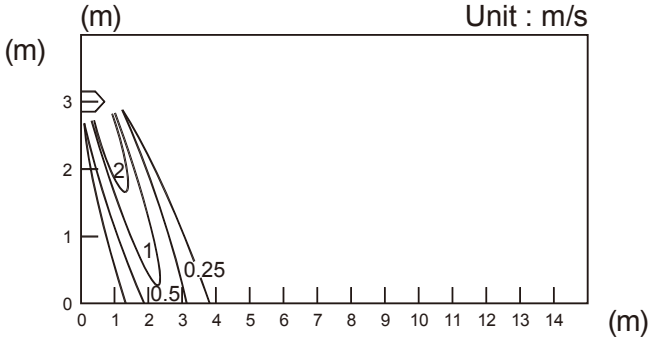
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Center



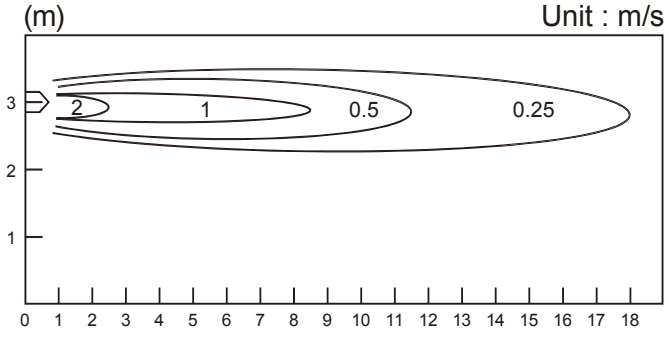
Side view
Vertical airflow direction louver: Center
Horizontal airflow direction louver: Center



Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Right and Left



Side view
Vertical airflow direction louver: Down
Horizontal airflow direction louver: Center



Side view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Center

CEILING TYPE
AB∗G45LRTA

7-2. AIRFLOW

■ MODEL: AB∗G45LRTA

● Cooling

Fan speed	Number of rotations (r.p.m.)	Airflow	
HIGH	1200	m^3/h	2100
		l/s	583
		CFM	1236
MED	1000	m^3/h	1700
		l/s	472
		CFM	1000
LOW	830	m^3/h	1400
		l/s	389
		CFM	824
QUIET	680	m^3/h	1100
		l/s	306
		CFM	647

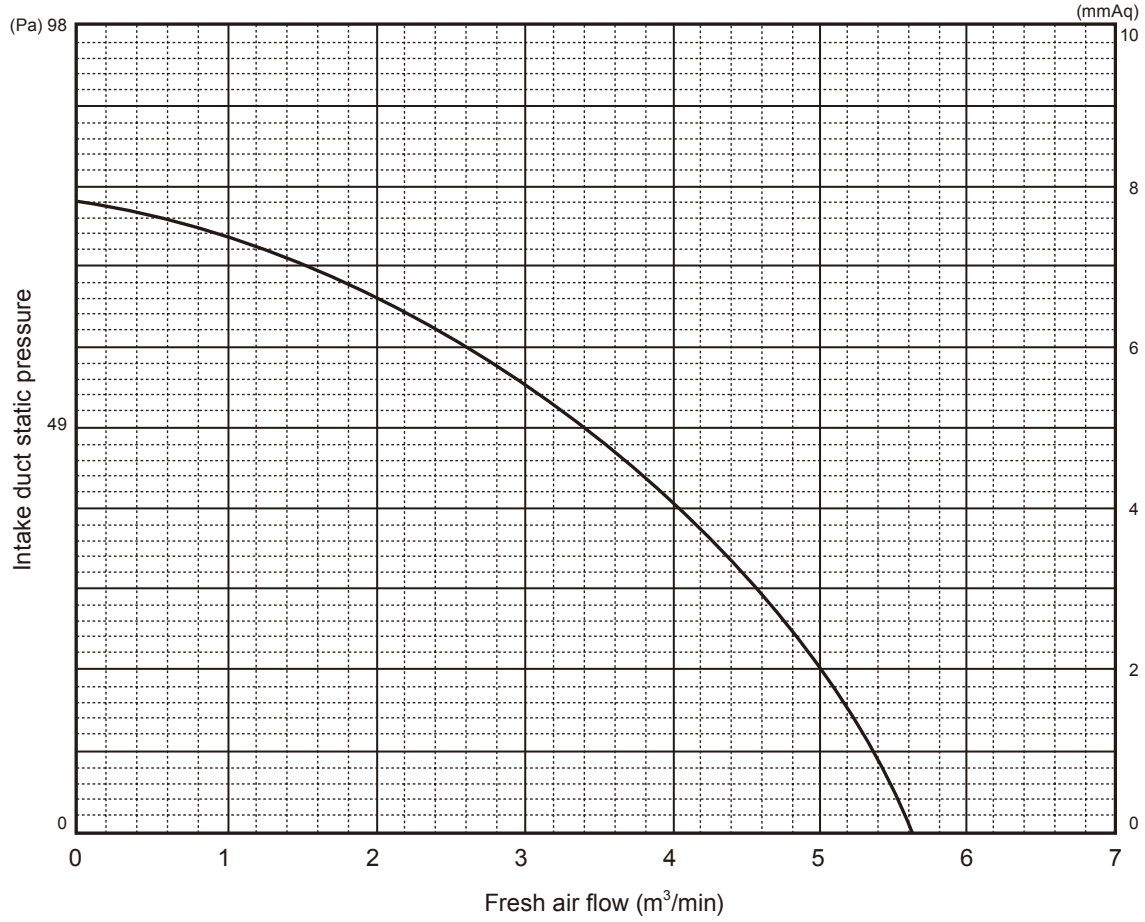
● Heating

Fan speed	Number of rotations (r.p.m.)	Airflow	
HIGH	1200	m^3/h	2100
		l/s	583
		CFM	1236
MED	1000	m^3/h	1700
		l/s	472
		CFM	1000
LOW	830	m^3/h	1400
		l/s	389
		CFM	824
QUIET	680	m^3/h	1100
		l/s	306
		CFM	647

CEILING TYPE
AB∗G45LRTA

7-3. FRESH AIR CHARACTERISTIC

■ MODEL: AB∗G45LRTA



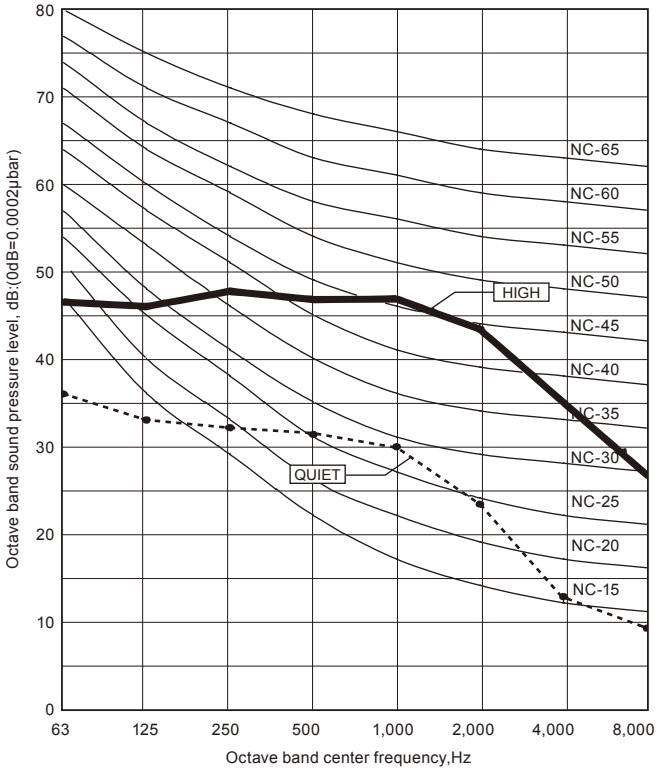
CEILING TYPE
AB∗G45LRTA

8. OPERATION NOISE

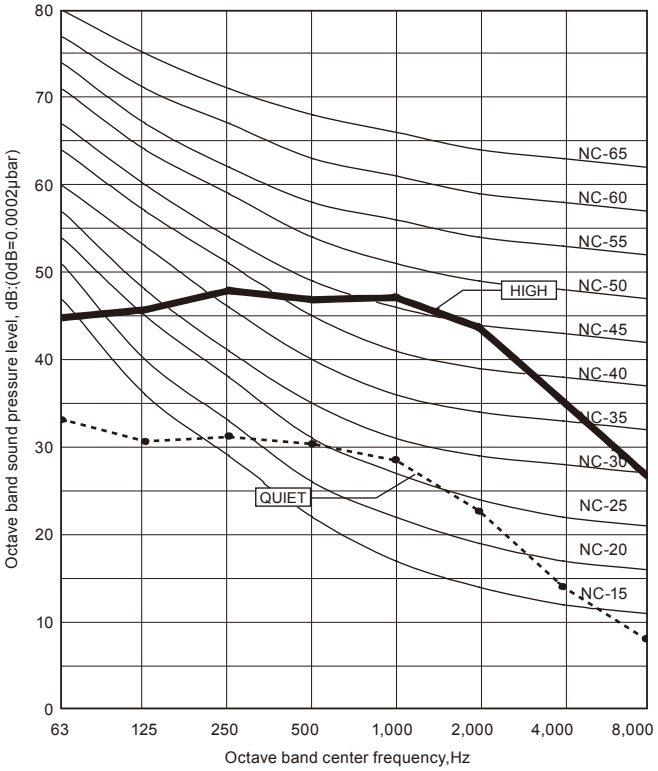
8-1. NOISE LEVEL CURVE

■ MODEL: AB∗G45LRTA

● Cooling

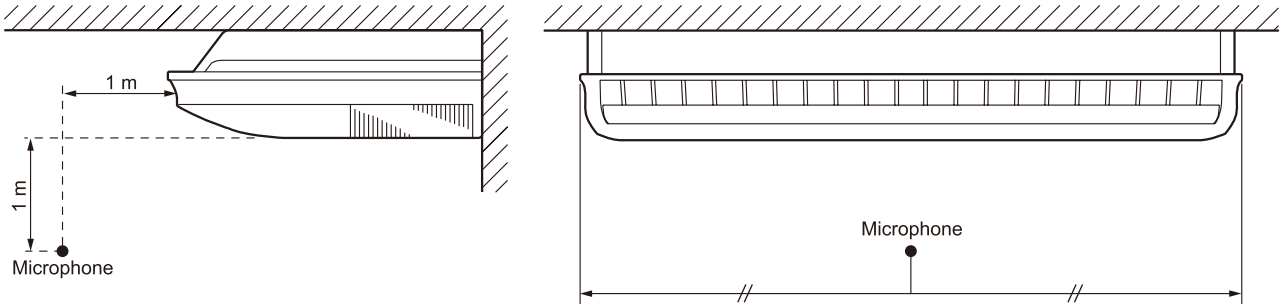


● Heating



CEILING TYPE
AB∗G45LRTA

8-2. SOUND LEVEL CHECK POINT



CEILING TYPE
AB∗G45LRTA

9. ELECTRIC CHARACTERISTICS

Model name			AB∗G45LRTA
Power supply	Voltage	V	230 ~
	Frequency	Hz	50
Max. operating current (Indoor unit)		A	0.8
*1) Wiring spec. (Indoor unit to outdoor unit)	Connection cable	mm^2	1.5 ~ 2.5
	Limited wiring length	m	50

*1) Wiring Spec.

Selected Sample

(Selected based on Japan Electrotechnical Standards and Codes Committee E0005)

10. SAFETY DEVICES

	Protection form	Model
		AB∗G45LRTA
Circuit protection	Current fuse (PCB)	250V 3.15A
Fan motor protection	Thermal protection program	135±15°C OFF 115±15°C ON

CEILING TYPE
AB∗G45LRTA

11. EXTERNAL INPUT & OUTPUT

Connector	INPUT	OUTPUT	REMARKS
CN102	Control input	—	See external input/output settings for details.
CN103	—	Operation status output	
CN6	—	Fresh air control output	

11-1. EXTERNAL INPUT

■ CONTROL INPUT (Operation/Stop or Forced stop)

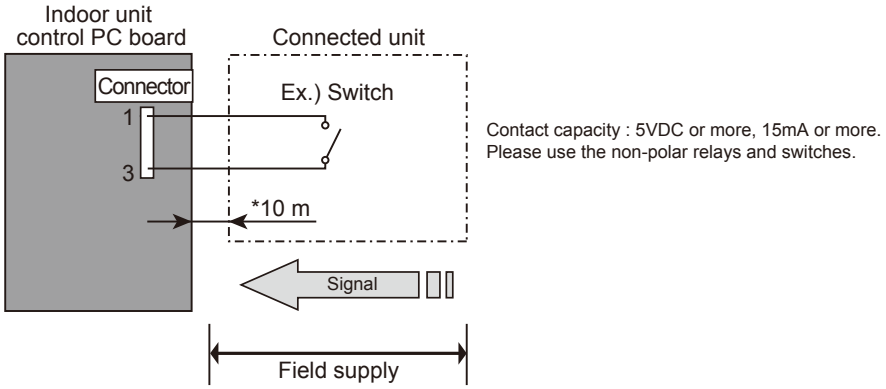
The air conditioner can be remotely operated by means of the following on-site work.

"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.

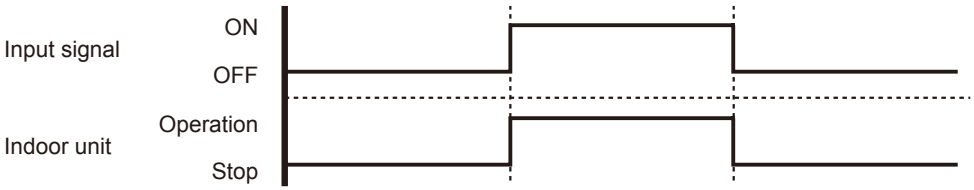
Unit operation	Initial starting after turned power on	Other than initial starting
Operation mode	Auto changeover	Mode at previous operation
Set temperature	24°C	Temperature at previous operation
Air flow mode	AUTO	Mode at previous operation
Air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation

● Circuit diagram example

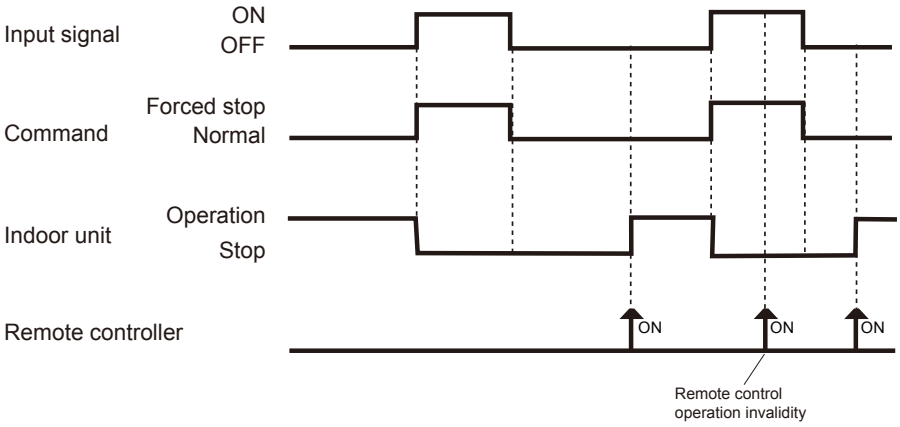


* Make the distance from the PC board to the connected unit within 10m.

● When function setting is "Operation/Stop" mode



● When function setting is "Forced stop" mode



● Parts (Optional)

Model name
UTY-XWZX

Wire (External input)

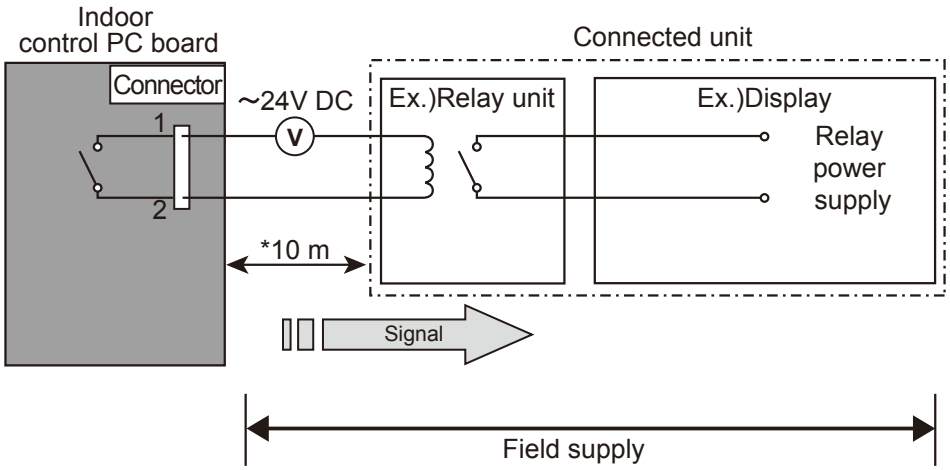
CEILING TYPE
AB∗G45LRTA

11-2. EXTERNAL OUTPUT

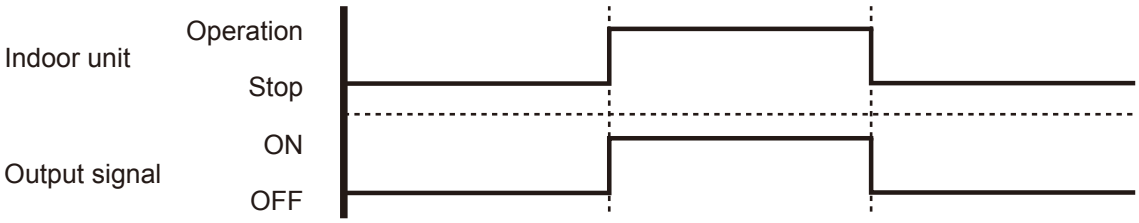
■ OPERATION STATUS OUTPUT

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
UTY-XWZX

Wire (External output)

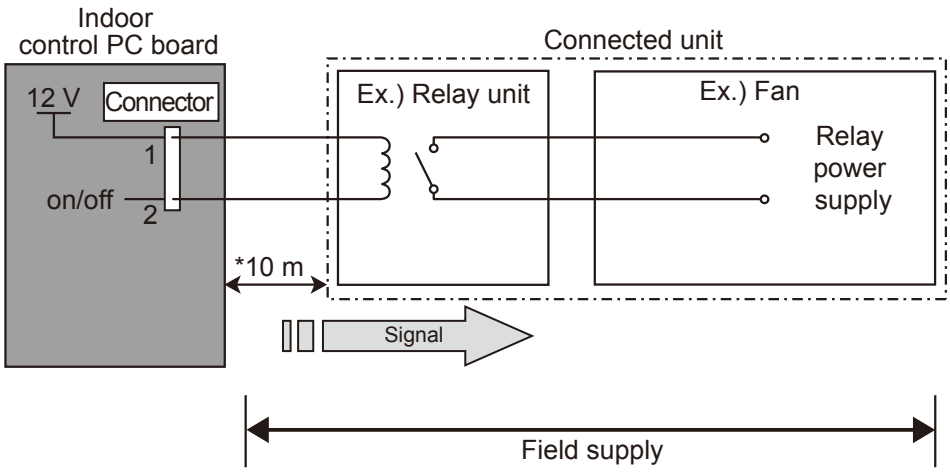
CEILING TYPE
AB∗G45LRTA

■ FRESH AIR CONTROL OUTPUT

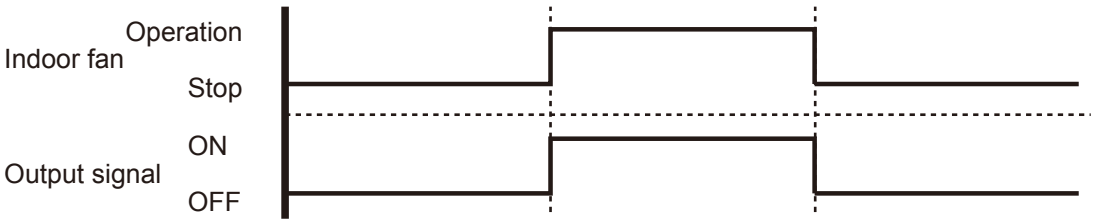
A signal linked to air conditioner indoor fan ON can be output.

* 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)

CEILING TYPE
AB∗G45LRTA

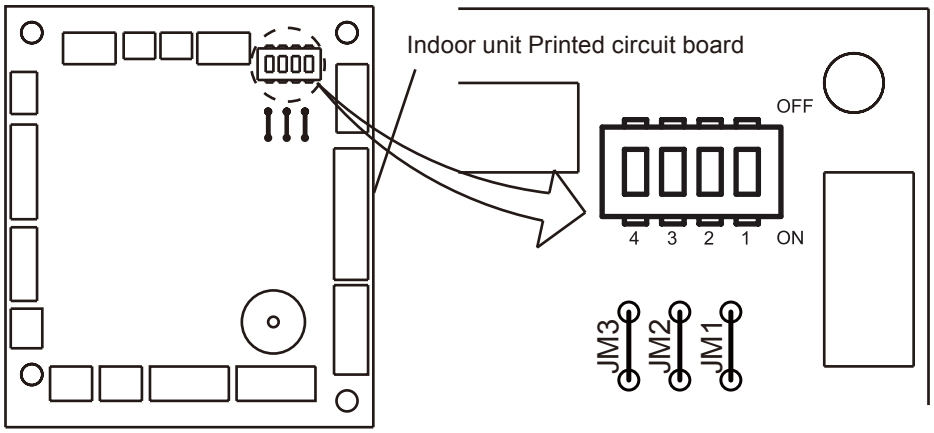
12. FUNCTION SETTINGS

12-1. INDOOR UNIT

INDOOR UNIT		
DIP SW	1	Remote controller address setting
	2	
	3	
	4	
Jumper Wire	JM1	Setting prohibited
	JM2	
	JM3	

■ SWITCH POSITION

MAIN PCB



■ DIP-SW SETTING

● Remote controller address setting

A number of indoor units can be operated at the same time using a wired 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

CEILING TYPE
AB∗G45LRTA

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 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.

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

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

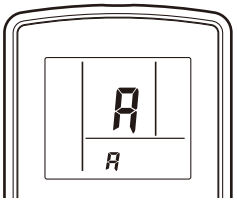
■ FUNCTION SETTING METHOD (for Wireless remote controller)

Entering the Function Setting Mode

- While pressing the FAN button and SET TEMP. (▲) simultaneously, press the RESET button to enter the function setting mode.

STEP 1

Setting the Remote controller Custom code



Use the following steps to select the custom code of the remote controller. (Note that the air conditioner cannot receive a signal if the air conditioner has not been set for the matching costom code.) The custom codes that are set through this process are applicable only to the signals in the FUNCTION SETTING. For details on how to set the custom codes through the normal process, refer to REMOTE CONTROLLER Custom code SETTING.

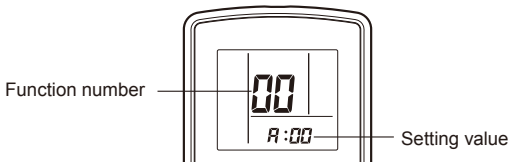
1. Press the SET TEMP. (▲) (▼) button to change the custom code between A → b → c → d Match the code on the display to the air conditioner custom code. (initially set to A)
   (If the custom code does not need to be selected, press the MODE button and proceed to STEP 2.)
2. Press the TIMER MODE button and check that the indoor unit can receive signals at the displayed custom code.
3. Press the MODE button to accept the custom code, and proceed to STEP 2.

The air conditioner custom code is set to A prior to shipment.

The remote controller resets to custom code A when the batteries in the remote controller are replaced. If you use a custom code other than custom code A, reset the custom code after replacing the batteries. If you do not know the air conditioner custom code setting, try each of the custom codes (A → b → c → d) until you find the code which operates the air conditioner.

STEP 2

Selecting the Function Number and Setting Value



1. Press the SET TEMP. (▲) (▼) buttons to select the function number.
   (Press the MODE button to switch between the left and right digits.)
2. Press the FAN button to proceed to setting the value.
   Press the FAN button again to return to the function number selection.)
3. Press the SET TEMP. (▲) (▼) buttons to select the setting value.
   (Press the MODE button to switch between the left and right digits.)
4. Press the TIMER MODE button, and START/STOP button, in the order listed to confirm the settings.
5. Press the RESET button to cancel the function setting mode.
6. 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 doesn’t become effective if it doesn’t do so.

CEILING TYPE
AB∗G45LRTA

■ 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)	Ceiling height
3)	Room temperature control for cooling
4)	Room temperature control for heating
5)	Auto restart
6)	Room temperature sensor switching
7)	Remote controller custom code
8)	External input control
9)	Room temperature sensor switching (Aux.)
10)	Indoor unit fan control for energy saving for cooling

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 (2,500 hours)"	11	00
	"Long interval (4,400 hours)"		01
	"Short interval (1,250 hours)"		02
◆	No indication		03

2) Ceiling height

Select the appropriate ceiling height according to the place of installation.

(◆. . .Factory setting)

	Setting Description	Function Number	Setting Value
◆	Standard (2.5m to 3.0m)	20	00
	High ceiling (3.0m or more)		01

3) Room temperature control for cooling

Depending on the installed environment, correction of the room temperature sensor may be required.
Select the appropriate control setting according to the installed environment..

(◆. . .Factory setting)

	Setting Description	Function Number	Setting Value
◆	Standard	30	00
	Slightly lower control		01
	Lower control		02
	Higher control		03

CEILING TYPE
AB∗G45LRTA

4) Room temperature control for heating

Depending on the installed environment, correction of the room temperature sensor may be required.
Select the appropriate control setting according to the installed environment..

(◆. . .Factory setting)

	Setting Description	Function Number	Setting Value
◆	Standard	31	00
	Lower control		01
	Slightly higher control		02
	Higher control		03

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) Remote controller custom code

(Only for wireless remote controller)

The indoor unit custom code can be changed.

Select the appropriate custom code.

(◆. . .Factory setting)

	Setting Description	Function Number	Setting Value
◆	A	44	00
	B		01
	C		02
	D		03

CEILING TYPE
AB∗G45LRTA

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 prohibited)		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

10) Indoor unit fan control for energy saving for cooling

Enables or disables the power-saving function by controlling the indoor unit fan rotation when the outdoor unit is stopped during cooling operation.

(◆. . .Factory setting)

	Setting Description	Function Number	Setting Value
	Disable	49	00
◆	Enable		01

00: When the outdoor unit is stopped, the indoor unit fan operates continuously following the setting on the remote controller.

01: When the outdoor unit is stopped, the indoor unit fan operates intermittently at a very low speed.

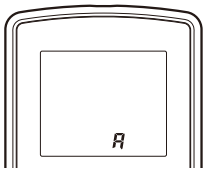
CEILING TYPE
AB∗G45LRTA

■ REMOTE CONTROLLER CUSTOM CODE SETTING

Use the following steps to select the custom code of the remote controller.

(Note that the air conditioner cannot receive a signal if the conditioner has not been set for the matching custom code.)

1. Press the START/STOP button until only the clock is displayed on the remote controller display.
2. Press the MODE button for at least five seconds to display the current custom code (initially set to A).
3. Press the SET TEMP. (▲) (▼) button to change the custom code between A → b → C → d.
   Match the code on the display to the air conditioner custom code.
4. Press the MODE button again to return to the clock display. The custom code will be changed.



If no buttons are pressed within 30 seconds after the custom code is displayed, the system returns to the original clock display. In this case, start again from step 1.

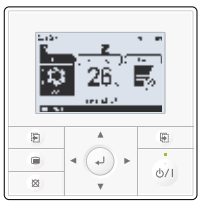
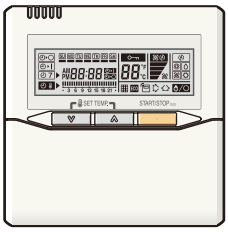
The air conditioner custom code is set to A prior to shipment. Contact your retailer to change the custom code.

The remote controller resets to custom code A when the batteries in the remote controller are replaced. If you use a custom code other than custom code A, reset the custom code after replacing the batteries.
If you do not know the air conditioner custom code setting,try each of the custom codes (A → b → C → d.) until you find the code which operates the air conditioner.

CEILING TYPE
AB∗G45LRTA

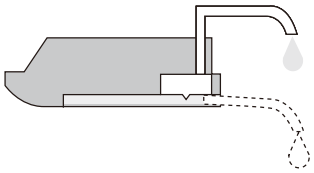
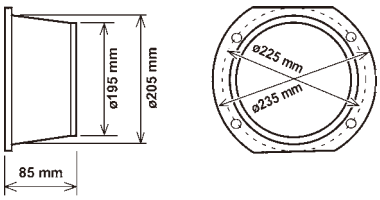
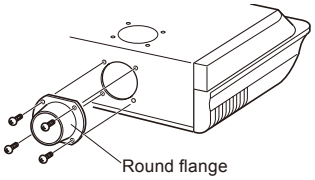
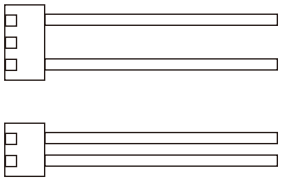
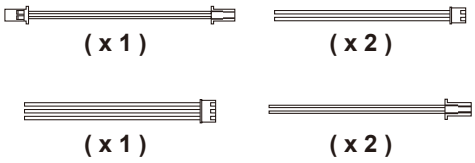
13. OPTIONAL PARTS

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	Unit control is performed by wired remote controller
	Simple remote controller	UTY-RSN∗M	Unit control is performed by simple remote controller.

CEILING TYPE
AB∗G45LRTA

13-2. OTHERS

Exterior	Parts name	Model No.	Summary
	Drain pump unit	UTR-DPB24T	Optional drain lift-up mechanism allows more flexible installation.
	Round flange	UTD-RF204	Round flange is used when the fresh air duct is installed. 
	External connect kit	UTY-XWZX	Use to connect with various peripheral devices and air conditioner PC board.
	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∗G45LETL

AO∗G54LETL

DTR_AO136E_04
2016.04.22

CONTENTS

2. OUTDOOR UNIT

OUTDOOR UNIT
AO*G45-54LETL

OUTDOOR UNIT
AO∗G45-54LETL

1. FEATURE

■ FEATURES

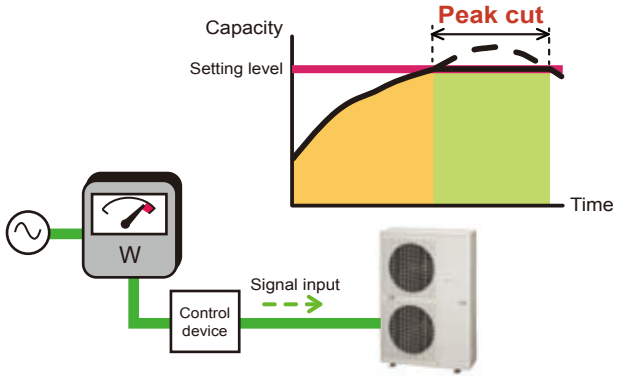
● Peak cut operation

Peak cut mode

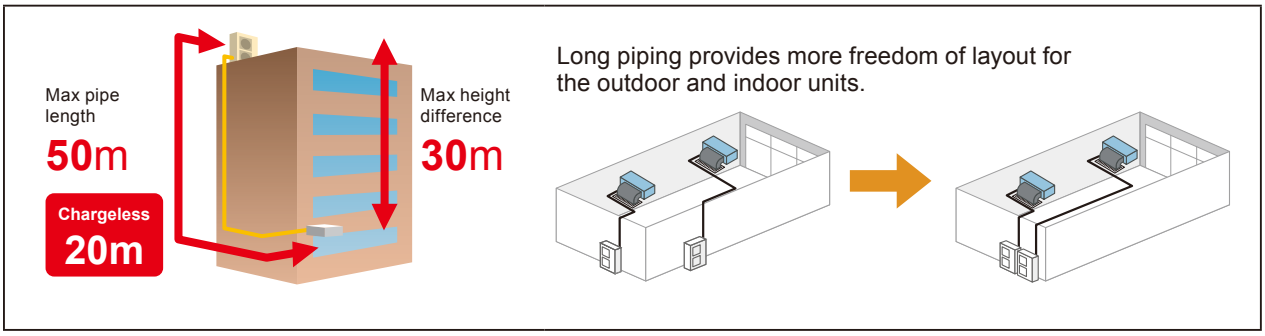
Suppresses maximum capacity to perform energy-saving operation, preventing breaker tripping.
This function operates by setting a peak current value and reducing the power consumption.

* Performance drops by reducing the power consumption preferentially.

Level 1 ... Suppresses the power consumption to almost 0% by stopping the compressor.
Level 2 ... Suppresses the power consumption to 50% of the rated power consumption value.
Level 3 ... Suppresses the power consumption to 75% of the rated power consumption value.
Level 4 ... Suppresses the power consumption to the rated power consumption value (100%).



● High installation capability long piping correspondence

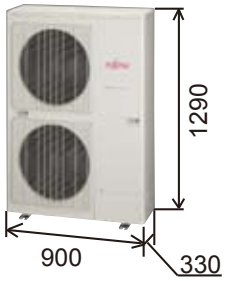


OUTDOOR UNIT
AO∗G45-54LETL

● Space saving

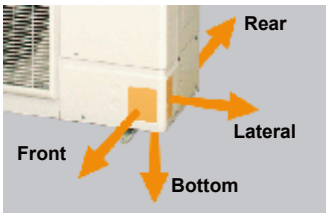
Compact size

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



● 4-direction piping connection

Piping is connectable in any of the four directions. 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

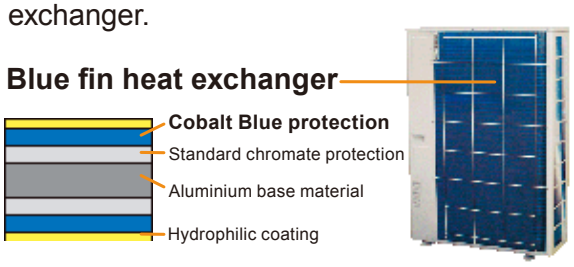
This output indicates the outdoor unit compressor status.

Error status output

This output indicates the Normal / Error status of the outdoor unit and connected indoor unit.

● 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 during refrigerant recovery.

● Quiet operation

Low noise mode

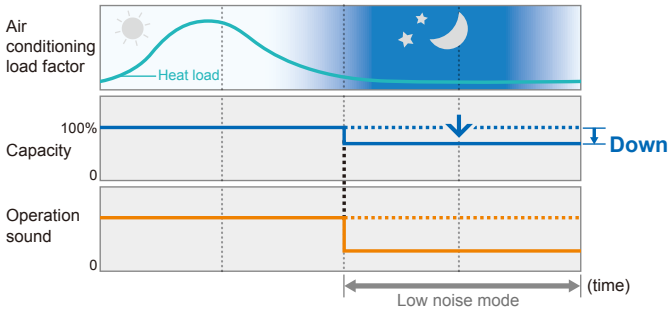
Suppresses operating sound.

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

* 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

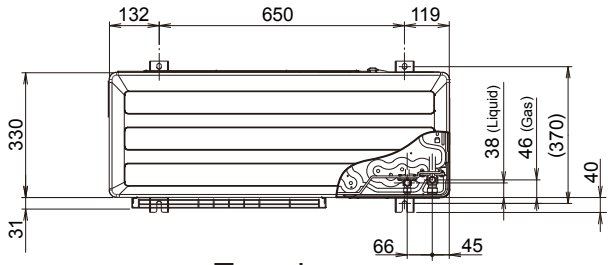
Model name					AO∗G45LETL	AO∗G54LETL
Power source					1Ø 230 V~ 50 Hz	
Available voltage range					198 - 264 V	
Starting current				A	18.9	20.9
Fan	Airflow rate	Cooling		(m^3/h)	6,750	6,750
		Heating			6,200	6,850
	Type × Q'ty				Propeller × 2	
	Motor output			W	104	104
Sound pressure level		Cooling		dB(A)	55	55
		Heating			55	57
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	2100	
Refrigerant		Type (Global Warming Potential)			R410A (1975)	
		Charge		g	3350	
Refrigerant oil		Type			RB68	
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				1460 × 1050 × 445	
Weight	Net			kg	86	
	Gross				95	
Connection pipe	Size	Liquid		mm	Ø 9.52 (Ø 3/8 in.)	
		Gas			Ø 15.88 (Ø 5/8 in.)	
	Method				Flare	
	Pre-charge length			m	20	
	Max. length				50	
	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 : 5 m, Height difference : 0 m.(Outdoor unit - Indoor unit)
The protective function may work when using it outside the operation range.

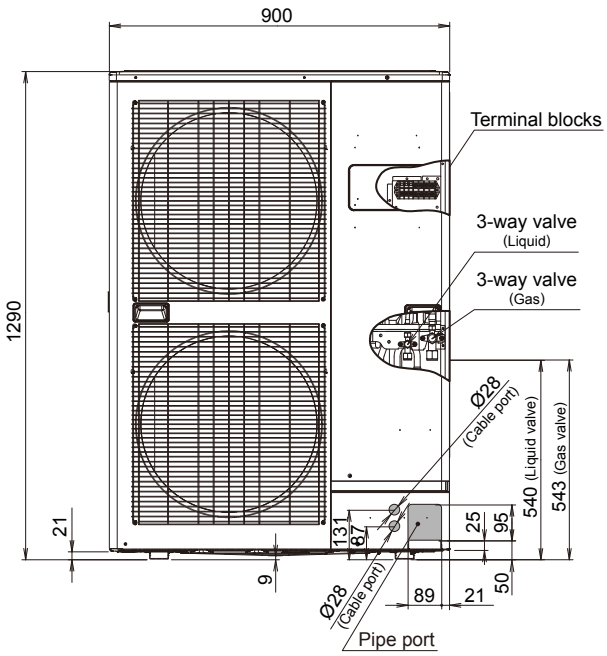
3. DIMENSIONS

■ MODELS: AO∗G45LETL, AO∗G54LETL

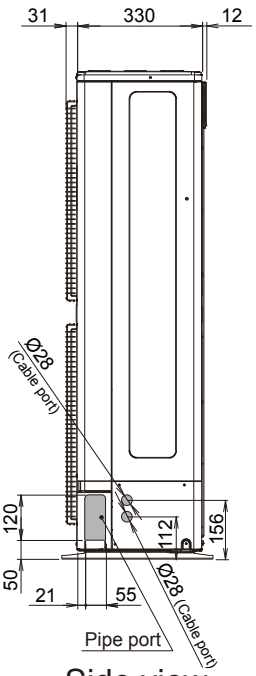
(Unit : mm)



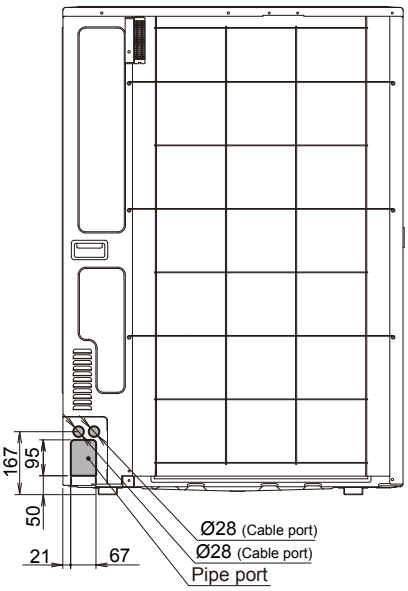
Top view



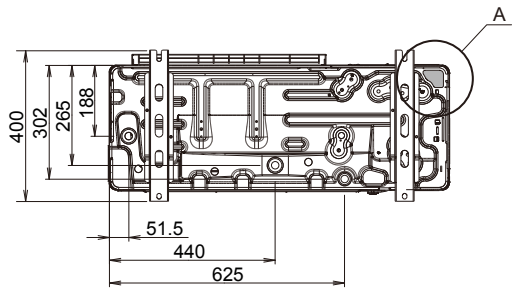
Front view



Side view

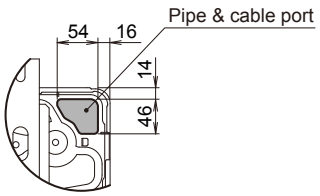


Rear view



Bottom view

Detail A



OUTDOOR UNIT
AO∗G45-54LETL

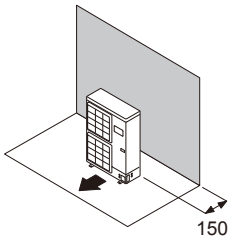
4. INSTALLATION PLACE

4-1. SINGLE OUTDOOR UNIT INSTALLATION

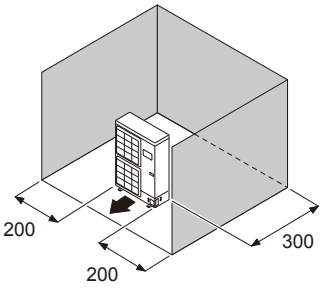
■ WHEN THE UPWARD AREA IS OPEN

(Unit : mm)

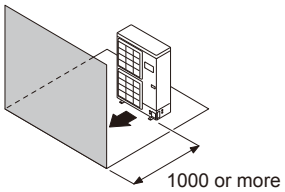
Obstacles at rear only



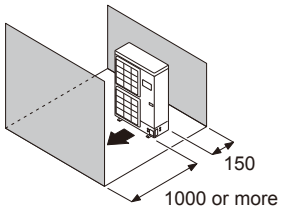
Obstacles at rear and sides only



Obstacles at front only



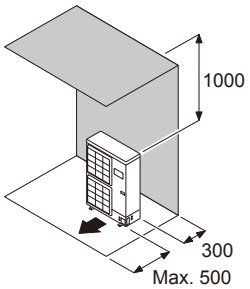
Obstacles at front and rear only



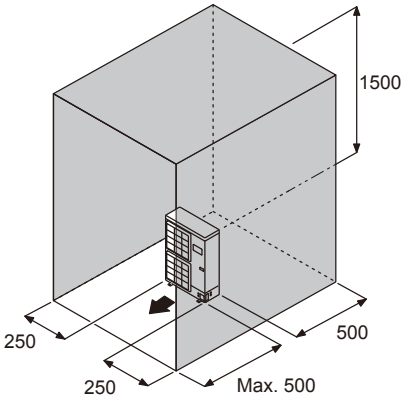
■ WHEN AN OBSTRUCTION IS PRESENT ALSO IN THE UPWARD AREA

(Unit : mm)

Obstacles at rear and above only



Obstacles at rear, sides, and above only



If the space is larger than stated, the condition will be the same as those without any obstacles.

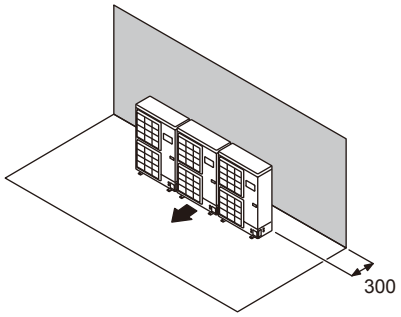
OUTDOOR UNIT
AO∗G45-54LETL

4-2. MULTIPLE OUTDOOR UNIT INSTALLATION

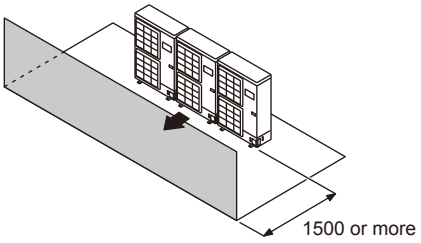
■ WHEN THE UPWARD AREA IS OPEN

(Unit : mm)

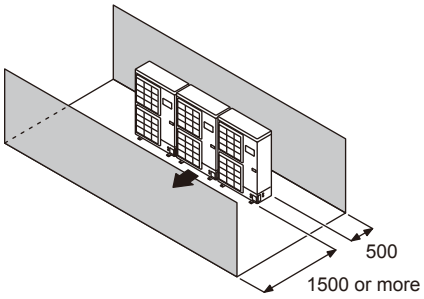
Obstacles at rear only



Obstacles at front only



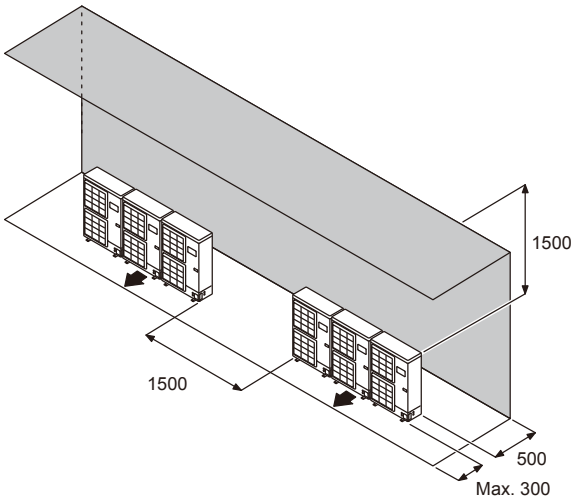
Obstacles at front and rear only



■ WHEN AN OBSTRUCTION IS PRESENT ALSO IN THE UPWARD AREA

(Unit : mm)

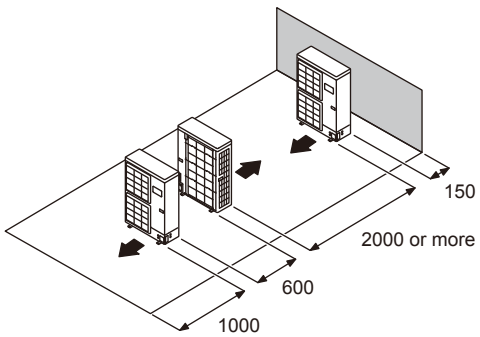
Obstacles at rear and above only



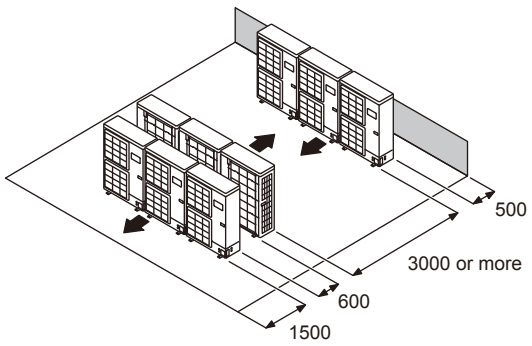
4-3. OUTDOOR UNIT INSTALLATION IN MULTI ROW

(Unit : mm)

Single parallel unit arrangement



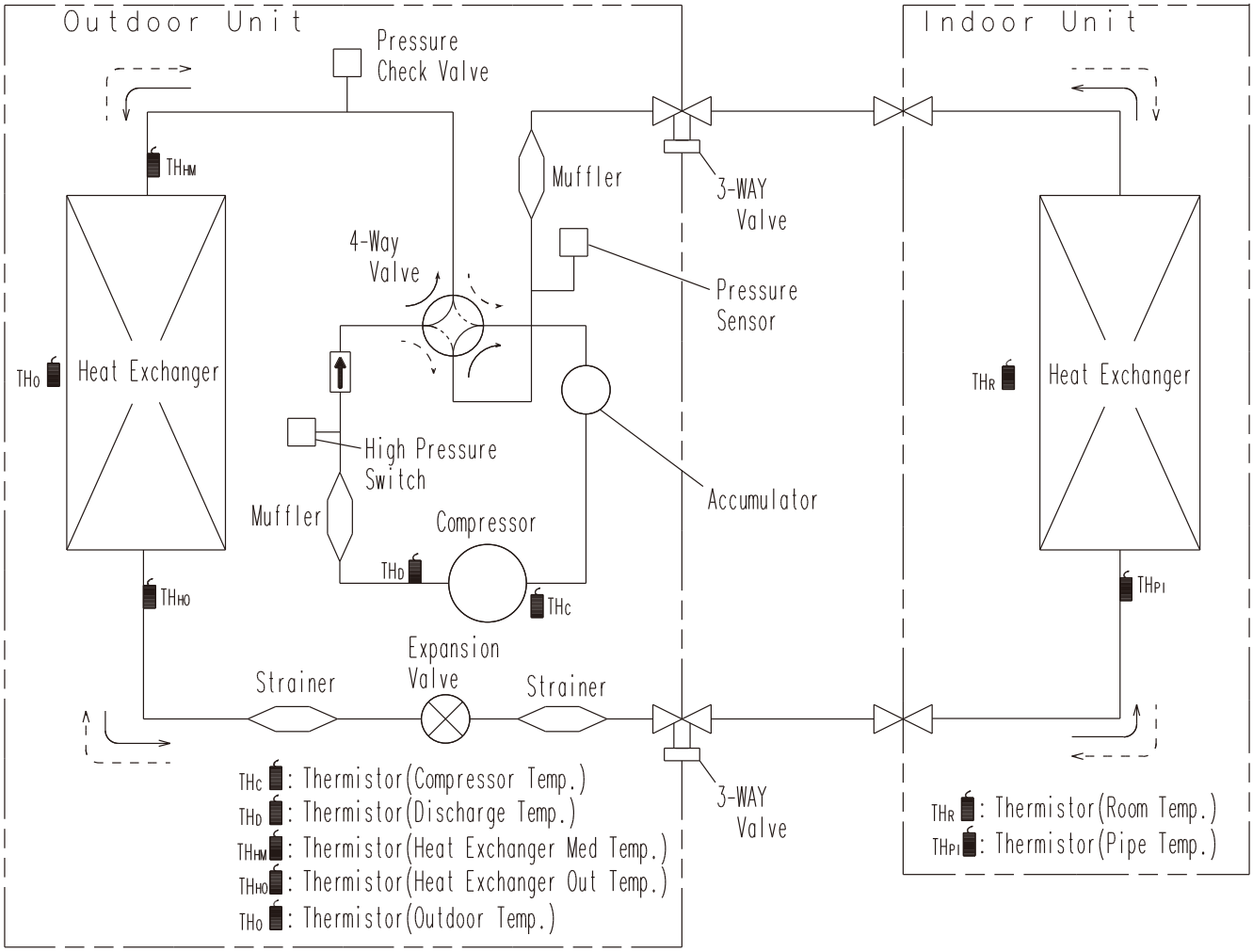
Multiple parallel unit arrangement



If the space is larger than stated, the condition will be the same as those without any obstacles.

5. REFRIGERANT CIRCUIT

■ MODELS: AO∗G45LETL, AO∗G54LETL



Refrigerant direction

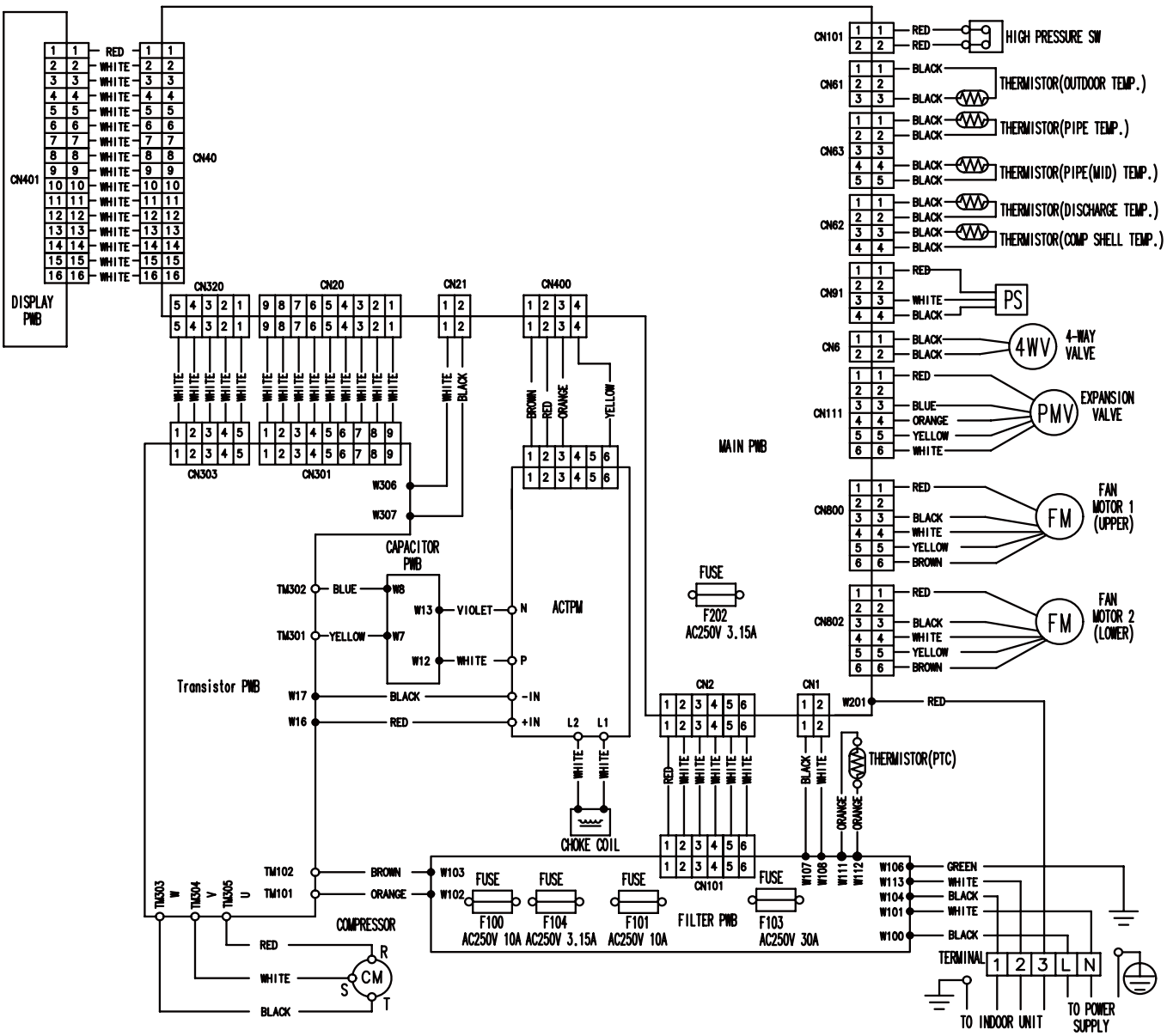
⟶ Cooling

- - -> Heating

Refrigerant pipe diameter
Liquid : 9.52mm (3/8")
Gas : 15.88mm (5/8")

6. WIRING DIAGRAMS

■ MODELS: AO*G45LETL, AO*G54LETL



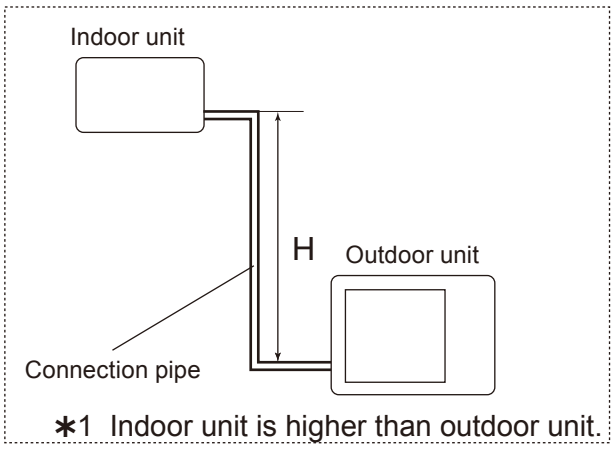
7. CAPACITY COMPENSATION RATE FOR PIPE LENGTH AND HEIGHT DIFFERENCE

■ MODEL: AO∗G45LETL

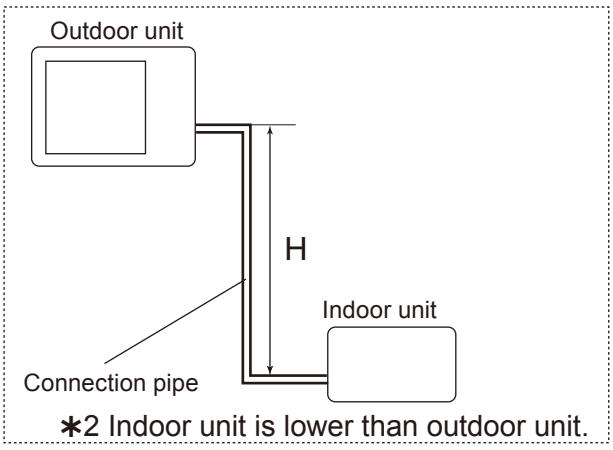
COOLING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	∗1 Indoor unit is higher than outdoor unit.	30	-	-	-	-	0.879	0.846	0.814
		20	-	-	-	0.926	0.893	0.861	0.828
		10	-	-	0.975	0.942	0.908	0.875	0.841
		7.5	-	0.988	0.979	0.946	0.912	0.878	0.845
		5	0.992	0.992	0.983	0.949	0.916	0.882	0.848
		0	1.000	1.000	0.991	0.957	0.923	0.889	0.855
	∗2 Indoor unit is lower than outdoor unit.	-5	1.000	1.000	0.991	0.957	0.923	0.889	0.855
		-7.5	-	1.000	0.991	0.957	0.923	0.889	0.855
		-10	-	-	0.991	0.957	0.923	0.889	0.855
		-20	-	-	-	0.957	0.923	0.889	0.855
		-30	-	-	-	-	0.923	0.889	0.855

HEATING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	∗1 Indoor unit is higher than outdoor unit.	30	-	-	-	-	0.978	0.968	0.958
		20	-	-	-	0.988	0.978	0.968	0.958
		10	-	-	0.998	0.988	0.978	0.968	0.958
		7.5	-	1.000	0.998	0.988	0.978	0.968	0.958
		5	1.000	1.000	0.998	0.988	0.978	0.968	0.958
		0	1.000	1.000	0.998	0.988	0.978	0.968	0.958
	∗2 Indoor unit is lower than outdoor unit.	-5	0.998	0.995	0.993	0.983	0.973	0.963	0.953
		-7.5	-	0.993	0.991	0.981	0.971	0.961	0.951
		-10	-	-	0.988	0.978	0.968	0.958	0.948
		-20	-	-	-	0.968	0.958	0.949	0.939
		-30	-	-	-	-	0.949	0.939	0.929

Height difference H



∗1 Indoor unit is higher than outdoor unit.



∗2 Indoor unit is lower than outdoor unit.

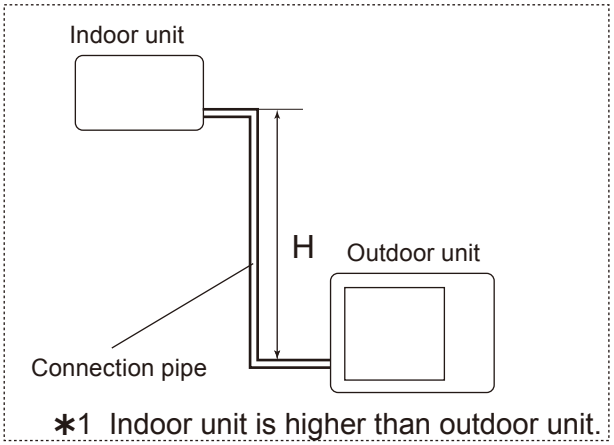
OUTDOOR UNIT
AO∗G45-54LETL

■ MODEL: AO∗G54LETL

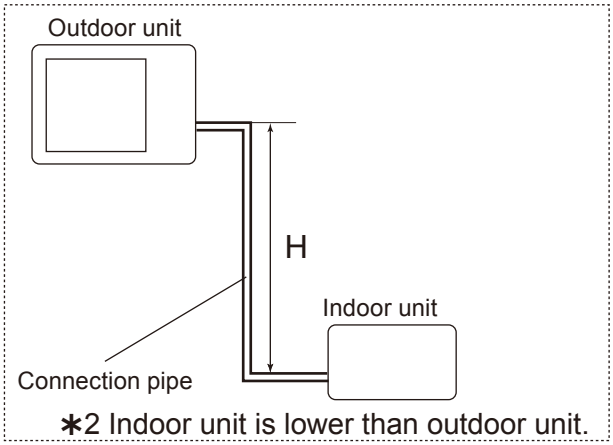
COOLING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	∗1 Indoor unit is higher than outdoor unit.	30	-	-	-	-	0.871	0.837	0.803
		20	-	-	-	0.921	0.886	0.851	0.816
		10	-	-	0.971	0.936	0.900	0.865	0.830
		7.5	-	0.988	0.975	0.940	0.904	0.868	0.833
		5	0.992	0.992	0.979	0.943	0.908	0.872	0.836
		0	1.000	1.000	0.987	0.951	0.915	0.879	0.843
	∗2 Indoor unit is lower than outdoor unit.	-5	1.000	1.000	0.987	0.951	0.915	0.879	0.843
		-7.5	-	1.000	0.987	0.951	0.915	0.879	0.843
		-10	-	-	0.987	0.951	0.915	0.879	0.843
		-20	-	-	-	0.951	0.915	0.879	0.843
		-30	-	-	-	-	0.915	0.879	0.843

HEATING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	∗1 Indoor unit is higher than outdoor unit.	30	-	-	-	-	0.978	0.968	0.958
		20	-	-	-	0.988	0.978	0.968	0.958
		10	-	-	0.998	0.988	0.978	0.968	0.958
		7.5	-	1.000	0.998	0.988	0.978	0.968	0.958
		5	1.000	1.000	0.998	0.988	0.978	0.968	0.958
		0	1.000	1.000	0.998	0.988	0.978	0.968	0.958
	∗2 Indoor unit is lower than outdoor unit.	-5	0.998	0.995	0.993	0.983	0.973	0.963	0.953
		-7.5	-	0.993	0.991	0.981	0.971	0.961	0.951
		-10	-	-	0.988	0.978	0.968	0.958	0.948
		-20	-	-	-	0.968	0.958	0.949	0.939
		-30	-	-	-	-	0.949	0.939	0.929

Height difference H



∗1 Indoor unit is higher than outdoor unit.



∗2 Indoor unit is lower than outdoor unit.

8. ADDITIONAL CHARGE CALCULATION

■ MODELS: AO∗G45LETL, AO∗G54LETL

Refrigerant type		R410A
Refrigerant amount	g	3350

● Refrigerant Charge

Total pipe length	m	20 or less	30	40	50 (MAX)	40g/m
Additional charge	g	0	400	800	1200	

OUTDOOR UNIT
AO∗G45-54LETL

OUTDOOR UNIT
AO∗G45-54LETL

9. AIR FLOW

■ MODELS: AO∗G45LETL, AO∗G54LETL

● Cooling

MODEL		Number of rotations (r.p.m.)	Air flow	
AO∗G45LETL	Upper fan	850	m^3/h	6750
			l/s	1875
	Lower fan	800	CFM	3974
AO∗G54LETL	Upper fan	850	m^3/h	6750
			l/s	1875
	Lower fan	800	CFM	3974

● Heating

MODEL		Number of rotations (r.p.m.)	Air flow	
AO∗G45LETL	Upper fan	780	m^3/h	6200
			l/s	1722
	Lower fan	750	CFM	3650
AO∗G54LETL	Upper fan	850	m^3/h	6850
			l/s	1903
	Lower fan	830	CFM	4033

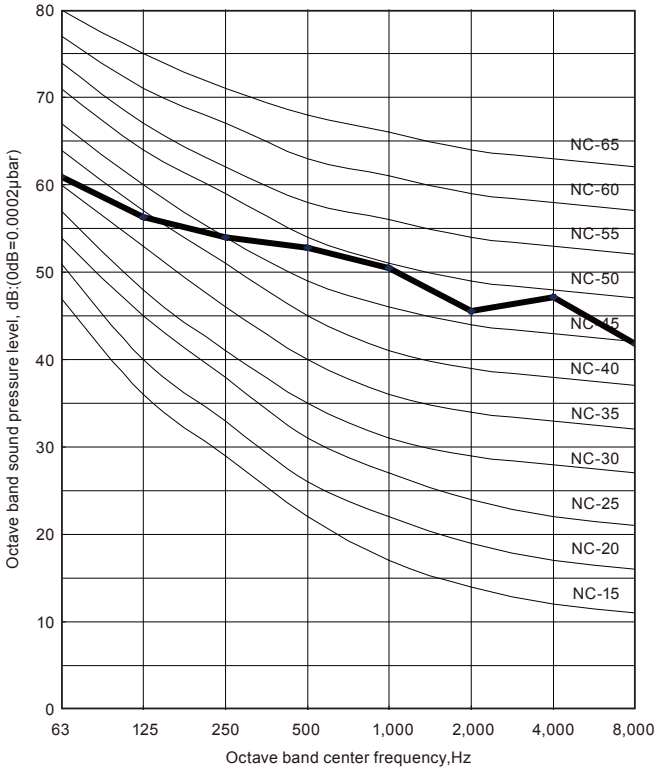
OUTDOOR UNIT
AO∗G45-54LETL

10. OPERATION NOISE (SOUND PRESSURE)

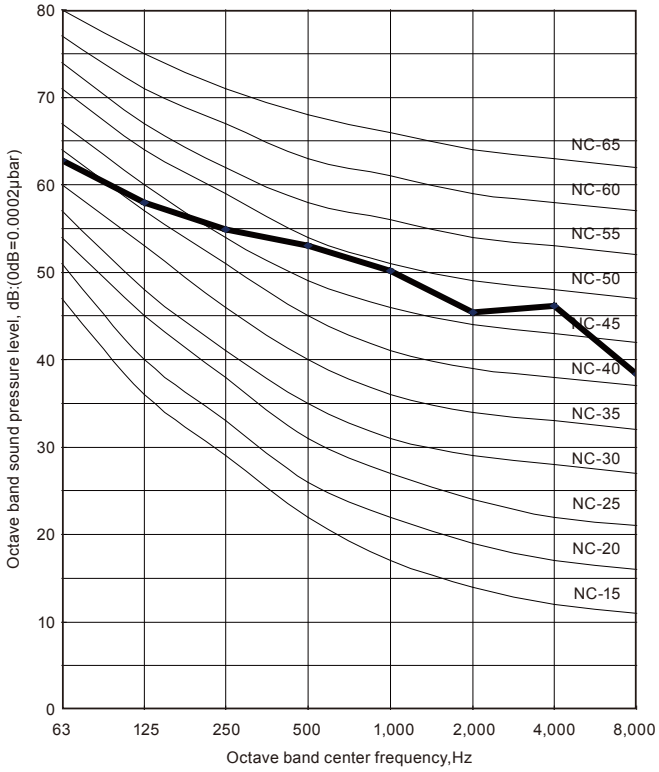
10-1. NOISE LEVEL CURVE

■ MODEL: AO∗G45LETL

● Cooling

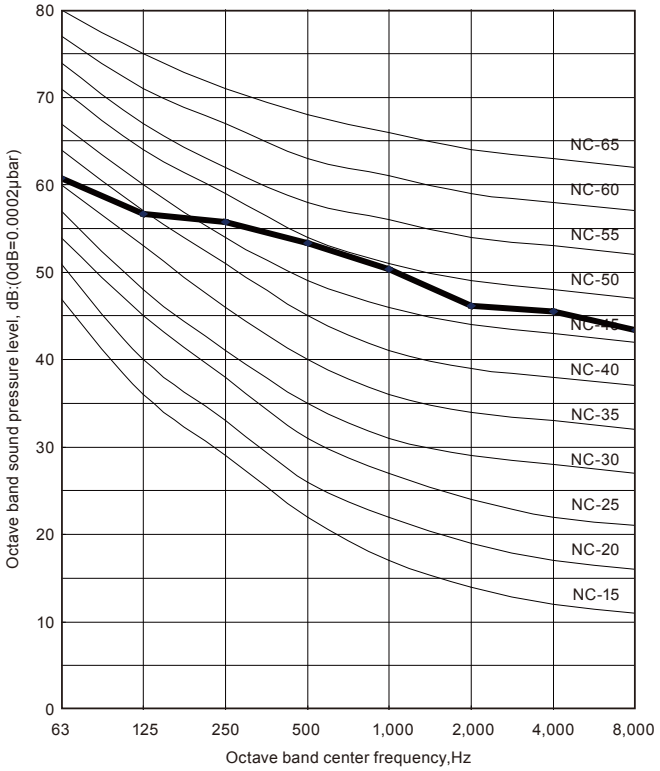


● Heating

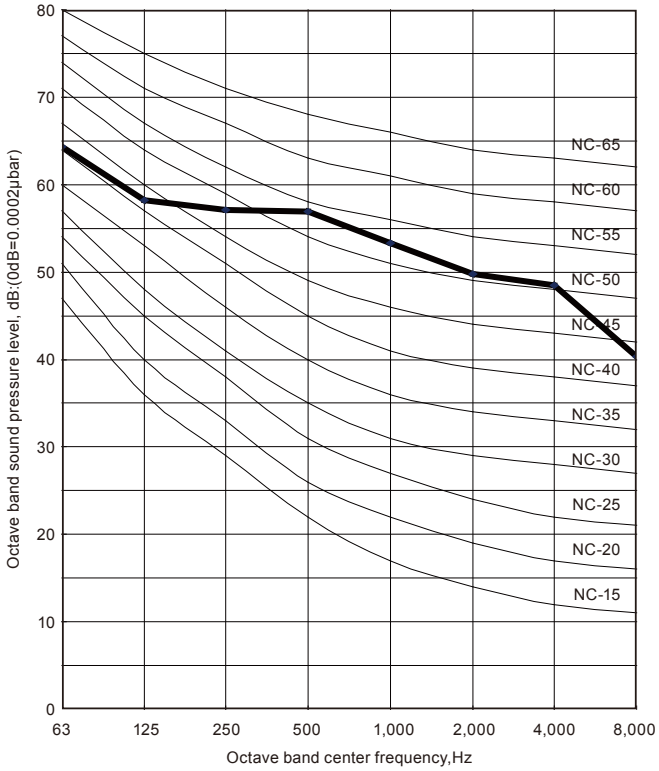


■ MODEL: AO∗G54LETL

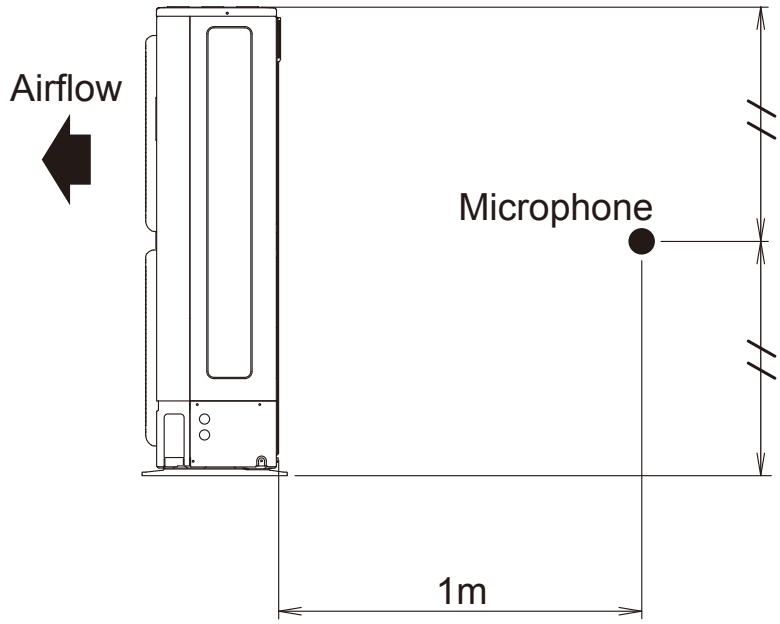
● Cooling

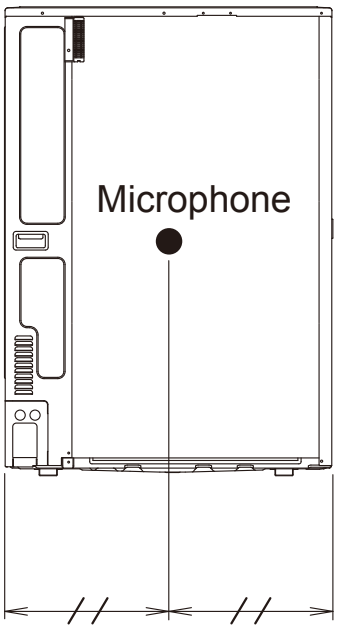


● Heating



10-2. SOUND LEVEL CHECK POINT





OUTDOOR UNIT
AO∗G45-54LETL

11. ELECTRIC CHARACTERISTICS

Model name			AO∗G45LETL	AO∗G54LETL
Power supply	Voltage	V	230 ~	
	Frequency	Hz	50	
*1) Max. operating current		A	22.5	23.5
*2) Wiring spec.	Circuit breaker current	A	30	
	Power cable	mm^2	6.0	

*1) The maximum current is the total current of indoor unit and outdoor unit.

*2) Wiring spec. :
Selected sample
(Selected based on Japan Electrotechnical Standards and Codes Committee E0005)

OUTDOOR UNIT
AO∗G45-54LETL

12. SAFETY DEVICES

	Protection form	Model	
		AO∗G45LETL	AO∗G54LETL
Circuit protection	Current fuse (Filter printed circuit board)	250V 30A, 250V 10A x2, 250V 3.15A	
	Current fuse (Main printed circuit board)	250V 3.15A	
Fan motor protector	Thermal protector	OFF : 150±15°C ON : 120±15°C	
Compressor protection	Thermal protection program (Compressor temp.)	OFF : 108°C ON : 80°C	
	Thermal protection program (Discharge temp.)	OFF : 110°C ON : After 7 minutes	
High pressure protection	Pressure switch	OFF : 4.2±0.1MPa ON : 3.2±0.15MPa	
Low pressure protection	Pressure sensor	OFF : 0.12MPa ON : 0.15MPa	

OUTDOOR UNIT
AO∗G45-54LETL

13. EXTERNAL INPUT & OUTPUT

Input	Output	Connector	Remarks
Low noise mode	—	CN10	See external input/output settings for details.
Peak cut mode	—	CN11	
—	Error status	CN12	
—	Compressor status	CN13	

OUTDOOR UNIT
AO*G45-54LETL

13-1. EXTERNAL INPUT

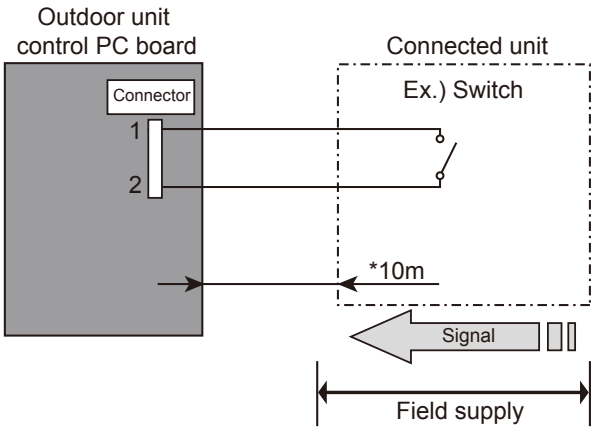
ON/OFF of the "Low noise mode" and "Peak cut mode" functions can be specified by external signal.

■ 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

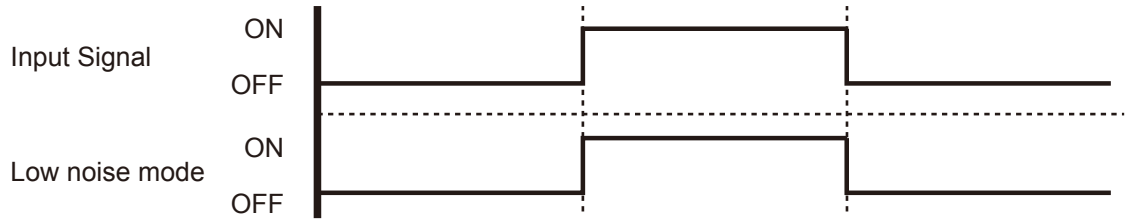


Contact capacity : 24VDC or more, 10mA or more.

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

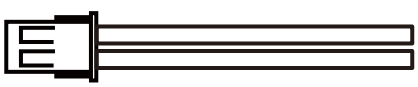
- Use the following parts and construct a circuit as shown above.
- Input Signal···ON : Low noise mode, Input Signal···OFF : Normal operation

*To set the "Low noise mode" level, refer to "13.FUNCTION SETTINGS".



● Parts (Optional)

Parts name	External connect kit
Model name	UTY-XWZXZ3

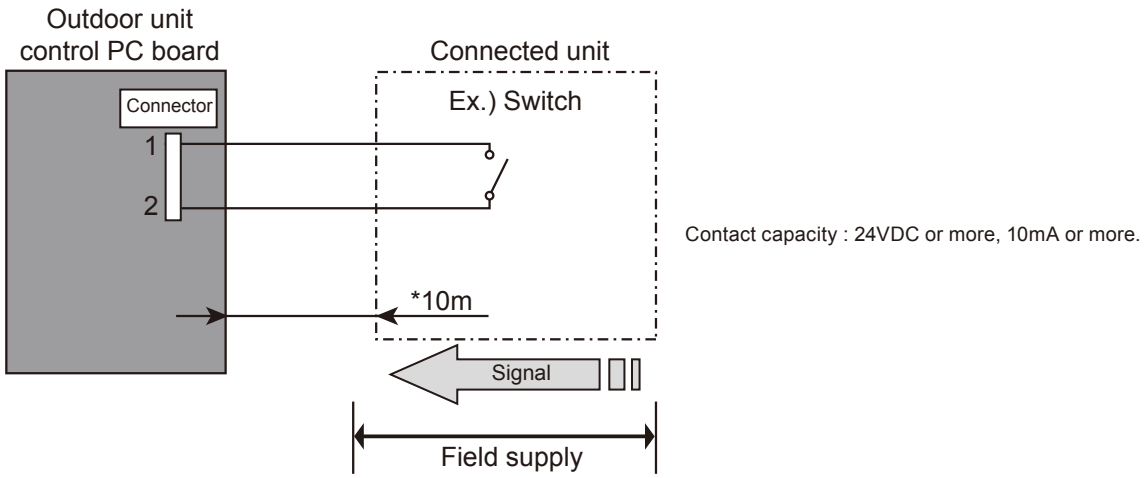


OUTDOOR UNIT
AO∗G45-54LETL

■ 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

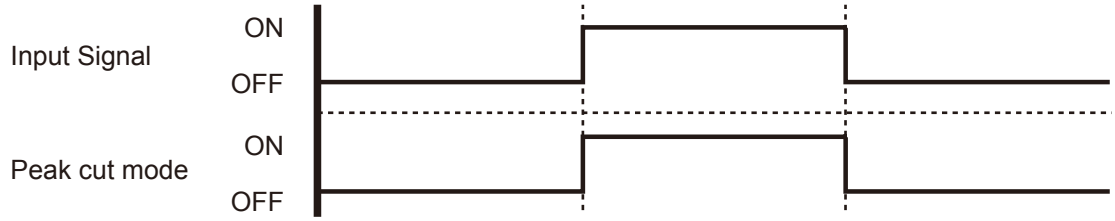


* Make the distance from the PC board to the connected unit within 10m.

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

• Input Signal···ON : Peak cut mode, Input Signal···OFF : Normal operation

*To set the "Peak cut mode" level, refer to "13.FUNCTION SETTINGS".



● Parts (Optional)

Parts name	External connect kit
Model name	UTY-XWZXZ3

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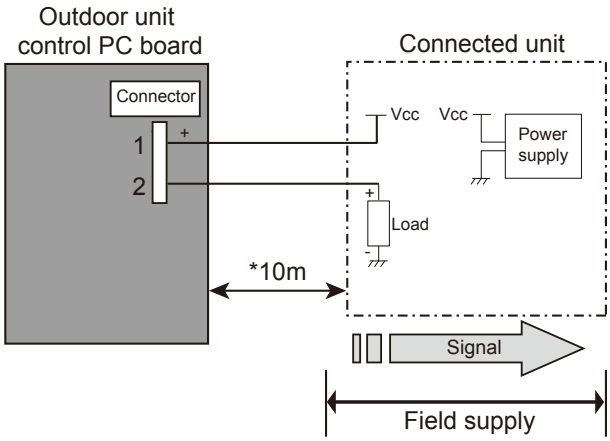
13-2. EXTERNAL OUTPUT

■ ERROR STATUS OUTPUT

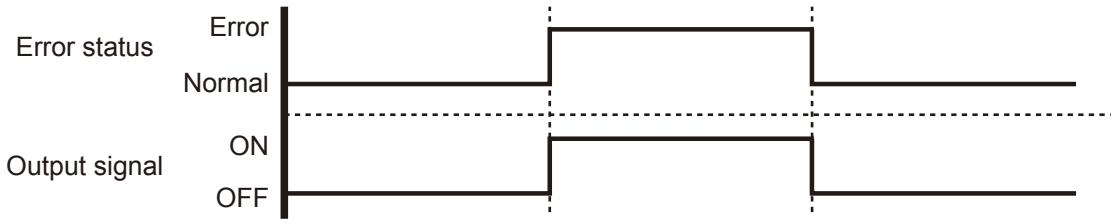
• An air conditioner error status signal is produced when a malfunction occurs.

● Circuit diagram example



1) Power supply
●Voltage (Chart sign=Vcc) : DC 24V or less
2) Load
●Load : DC 500mA or less is recommended

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



● Parts (Optional)

Parts name	External connect kit
Model name	UTY-XWZXZ3

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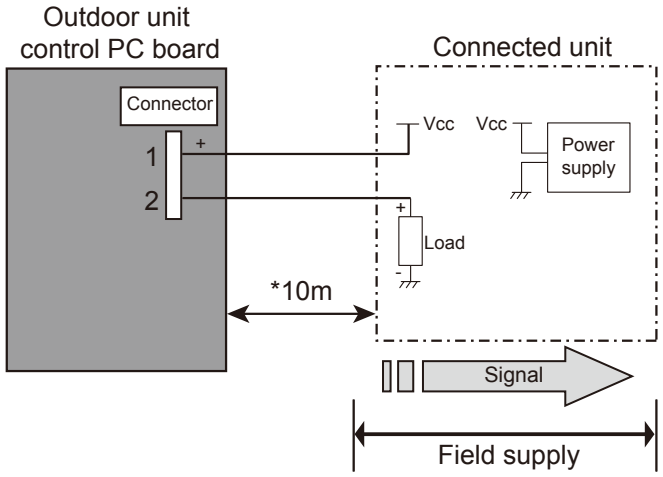
■ COMPRESSOR STATUS OUTPUT

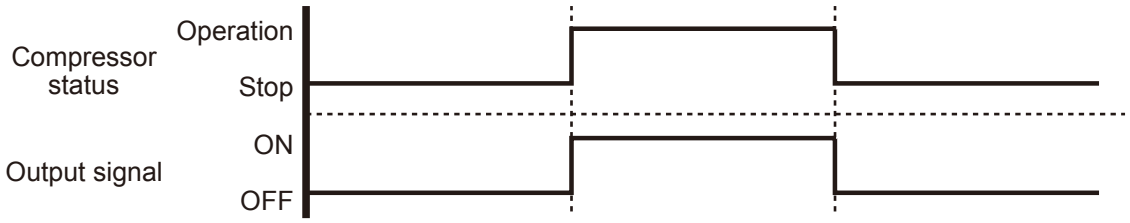
• Compressor operation status signal is produced when the compressor is running.

● Circuit diagram example



1) Power supply
●Voltage (Chart sign=Vcc) : DC 24V or less
2) Load
●Load : DC 500mA or less is recommended

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



● Parts (Optional)

Parts name	External connect kit
Model name	UTY-XWZXZ3

14. FUNCTION SETTINGS

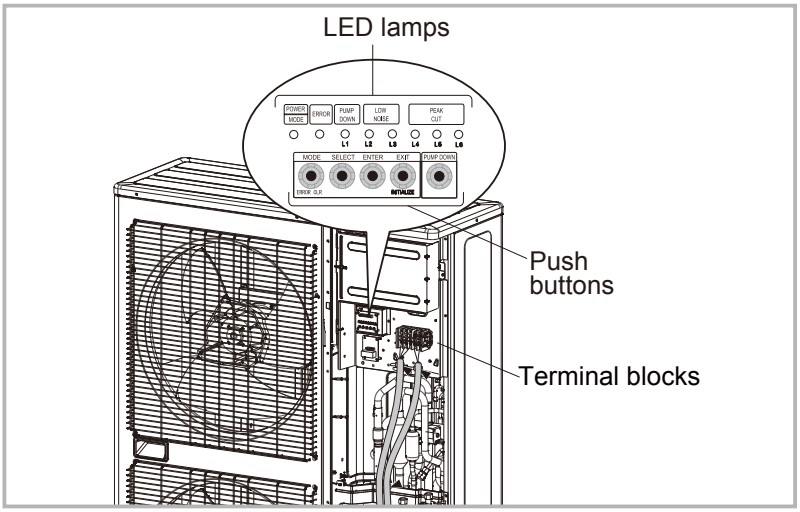
⚠ Caution

Discharge the static electricity from your body before setting up the push buttons.

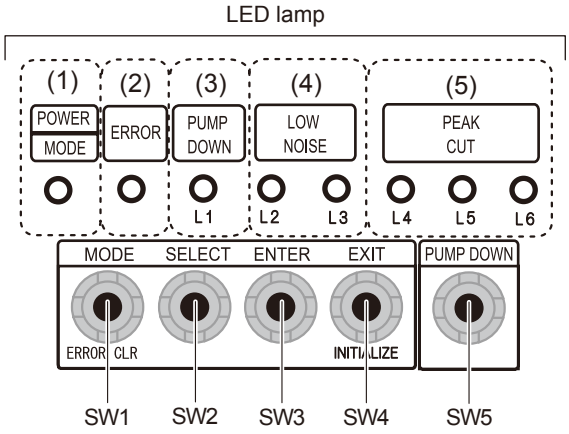
Never touch the terminals or the patterns on the parts that are mounted on the board.

14-1. FIELD SETTING SWITCHES

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



■ FUNCTIONS



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 operation.
(3) PUMP DOWN (L1)	Orange	Lights on during pump down operation.
(4) LOW NOISE MODE (L2,L3)	Orange	Lights on during “Low noise” mode when local setting is activated. (Lighting pattern of L2 and L3 indicates low noise level)
(5) PEAK CUT MODE (L4,L5,L6)	Orange	Lights on during “Peak cut” mode when local setting is activated. (Lighting pattern of L4, L5 and L6 indicates peak cut level)

Button		Function or operation method
SW1	MODE	To switch between “Local setting” and “Error code display”.
SW2	SELECT	To switch between the individual “Local settings” and the “Error code displays”.
SW3	ENTER	To fix between the individual “Local settings” and the “Error code displays”.
SW4	EXIT	To return to “Operation status display”.
SW5	PUMP DOWN	To start the pump down operation.

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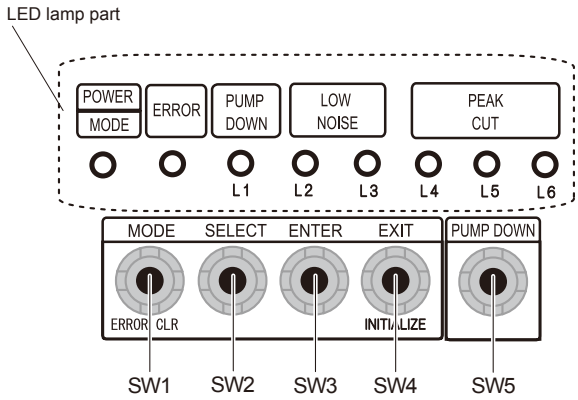
14-2. SETTING METHOD

※ Stop the operation of air conditioner before this setting.

14-2-1. LOW NOISE MODE



(1) Switch to “Local setting mode” by pressing [MODE] button (SW1) for 3 seconds or more.

(2) Confirm that the (POWER / MODE) blinks 9 times, then press [ENTER] button (SW3).

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

Sign “ ○ ” : Lights off

(3) Press [SELECT] button (SW2), and adjust LED lamp as shown below. (Current setting is displayed)

	LOW NOISE (L2)	LOW NOISE (L3)
LOW NOISE MODE	○	Blink

(4) Press [ENTER] button (SW3).

	LOW NOISE (L2)	LOW NOISE (L3)
LOW NOISE MODE	○	●

Sign “ ● ” : Lights on

(5) Press [SELECT] button (SW2), and adjust LED lamp as shown in below figure.

	PEAK CUT (L4)	(L5)	(L6)
MODE 1: Rated noise value -2dB	○	○	Blink
MODE 2: Rated noise value -4dB	○	Blink	○

The noise of MODE2 is lower than that of MODE1.

(6) Press [ENTER] button (SW3) to fix it.

	PEAK CUT (L4)	(L5)	(L6)
MODE 1: Rated noise value -2dB	○	○	●
MODE 2: Rated noise value -4dB	○	●	○

(7) Return to “Operating status display (Normal operation)” by pressing [EXIT] button (SW4).

• To restart the setting during the process, return to "Operating status display (Normal operation)" by pressing the [EXIT] button once.

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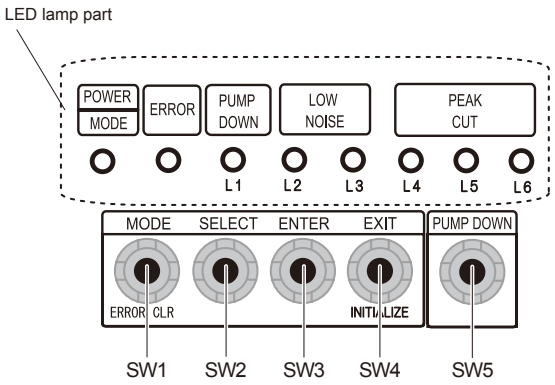
14-2-2. PEAK CUT MODE



(1) Switch to “Local setting mode” by pressing [MODE] button (SW1) for 3 seconds or more.

(2) Confirm that the (POWER / MODE) blinks 9 times, then press [ENTER] button (SW3).

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

Sign “ ○ ” : Lights off

(3) Press [SELECT] button (SW2), and adjust LED lamp as shown below. (Current setting is displayed)

	LOW NOISE (L2)	LOW NOISE (L3)
PEAK CUT MODE	Blink	○

(4) Press [ENTER] button (SW3).

	LOW NOISE (L2)	LOW NOISE (L3)
PEAK CUT MODE	●	○

Sign “ ● ” : Lights on

(5) Press [SELECT] button (SW2), and adjust LED lamp as shown in below figure.

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
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	○	○

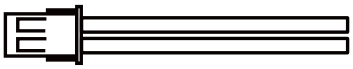
(6) Press [ENTER] button (SW3) to fix it.

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (L6)
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] button (SW4).

- To restart the setting during the process, return to "Operating status display (Normal operation)" by pressing the [EXIT] button once.

15. OPTIONAL PARTS

Exterior	Parts name	Model No.	Summary
	External connect kit	UTY-XWZXZ3	Use to operate the External input and output function of Outdoor unit.

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