

1. INDOOR UNIT

COMPACT CASSETTE TYPE:

AU*G07LVLA
AU*G09LVLA
AU*G12LVLA
AU*G14LVLA
AU*G18LVLA
AU*G12LVLB
AU*G14LVLB
AU*G18LVLB

SLIM DUCT TYPE:

AR*G07LLTA
AR*G09LLTA
AR*G12LLTA
AR*G14LLTA
AR*G18LLTA
AR*G12LLTB
AR*G14LLTB
AR*G18LLTB

COMPACT WALL MOUNTED (LJ) TYPE:

AS*G07LJCA
AS*G09LJCA
AS*G12LJCA

COMPACT WALL MOUNTED (LU) TYPE:

AS*G07LUCA
AS*G09LUCA
AS*G12LUCA
AS*G14LUCA

WALL MOUNTED TYPE:

AS*G18LFCA
AS*G24LFCA

FLOOR TYPE:
AG*G09LVCA
AG*G12LVCA
AG*G14LVCA

FLOOR/CEILING TYPE:

AB*G14LVTA
AB*G18LVTA
AB*G18LVTB

CONTENTS

1. INDOOR UNIT

1. FEATURE	01-01
1-1. INDOOR UNIT	01-01
1-2. LINE UP	01-08
2. REMOTE CONTROLLER	01-11
2-1. WIRELESS REMOTE CONTROLLER	01-11
2-2. WIRED REMOTE CONTROLLER [For Slim duct type]	01-20
3. SPECIFICATIONS	01-26
3-1. COMPACT CASSETTE TYPE	01-26
3-2. SLIM DUCT TYPE	01-27
3-3. COMPACT WALL MOUNTED TYPE	01-28
3-4. WALL MOUNTED TYPE	01-30
3-5. FLOOR / CEILING TYPE	01-31
3-6. FLOOR TYPE	01-32
4. DIMENSIONS	01-33
4-1. COMPACT CASSETTE TYPE	01-33
4-2. SLIM DUCT TYPE	01-35
4-3. COMPACT WALL MOUNTED TYPE	01-39
4-4. WALL MOUNTED TYPE	01-43
4-5. FLOOR / CEILING TYPE	01-45
4-6. FLOOR TYPE	01-47
5. WIRING DIAGRAMS	01-48
5-1. COMPACT CASSETTE TYPE	01-48
5-2. SLIM DUCT TYPE	01-49
5-3. COMPACT WALL MOUNTED TYPE	01-50
5-4. WALL MOUNTED TYPE	01-52
5-5. FLOOR / CEILING TYPE	01-53
5-6. FLOOR TYPE	01-54
6. AIR VELOCITY AND TEMPERATURE DISTRIBUTIONS	01-55
6-1. COMPACT CASSETTE TYPE	01-55
6-2. SLIM DUCT TYPE with Auto louver grille kit	01-63
6-3. COMPACT WALL MOUNTED TYPE	01-73
6-4. WALL MOUNTED TYPE	01-78
6-5. FLOOR / CEILING TYPE	01-80
6-6. FLOOR TYPE	01-84

CONTENTS

1. INDOOR UNIT

7.	FAN PERFORMANCE CURVE	01-85
7-1.	SLIM DUCT TYPE	01-85
8.	AIR FLOW	01-95
9.	NOISE LEVEL CURVE	01-97
9-1.	COMPACT CASSETTE TYPE	01-97
9-2.	SLIM DUCT TYPE	01-100
9-3.	COMPACT WALL MOUNTED TYPE	01-103
9-4.	WALL MOUNTED TYPE	01-107
9-5.	FLOOR / CEILING TYPE	01-108
9-6.	FLOOR TYPE	01-109
9-7.	SOUND LEVEL CHECK POINT	01-111
10.	ELECTRIC CHARACTERISTICS	01-114
11.	SAFETY DEVICES	01-115
12.	EXTERNAL INPUT & OUTPUT	01-116
12-1.	EXTERNAL INPUT	01-116
12-2.	EXTERNAL OUTPUT	01-119
13.	FUNCTION SETTING	01-123
13-1.	INDOOR UNIT (setting by jumper wire)	01-123
13-2.	INDOOR UNIT (setting by wireless remote controller)	01-124
13-3.	INDOOR UNIT (setting by wired remote controller)	01-135
13-4.	INDOOR UNIT (setting by simple remote controller)	01-139
13-5.	FUNCTION DETAILS	01-143
13-6.	WIRED REMOTE CONTROLLER	01-146
14.	OPTIONAL PARTS	01-152
14-1.	CONTROLLER	01-152
14-2.	OTHERS	01-153
15.	INSTALLATION PRECAUTIONS	01-156
15-1.	INDOOR UNIT INSTALLATION PRECAUTIONS	01-156

1. FEATURE

1-1. INDOOR UNIT

1-1-1. COMPACT CASSETTE TYPE

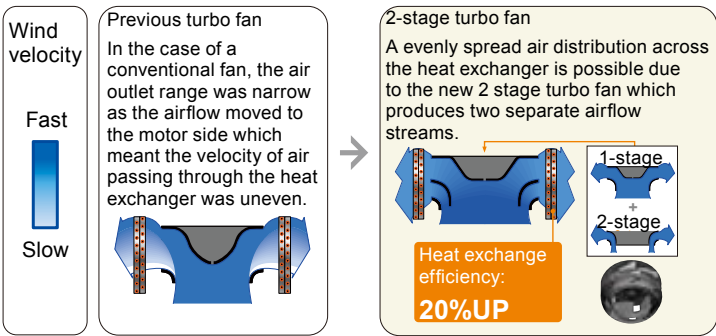
■ **MODELS** : AU*G07LVLA, AU*G09LVLA, AU*G12LVLA, AU*G14LVLA, AU*G18LVLA, AU*G12LVLB, AU*G14LVLB, AU*G18LVLB



■ FEATURES

● 2-stage turbo fan

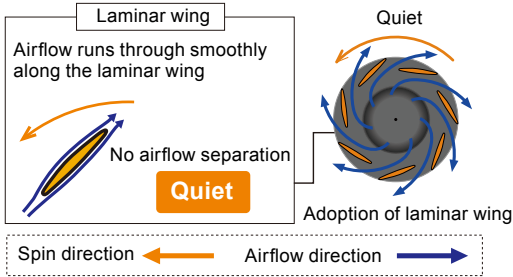
High efficiency design by 2 stage structure



● Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations



● Easy maintenance

① Maintenance of fan motor and fan

Maintenance of the fan motor and fan can be done easily after taking off the panel as the bell mouth of the fan can be removed easily.

A : Fan motor B : 2-stage turbo fan

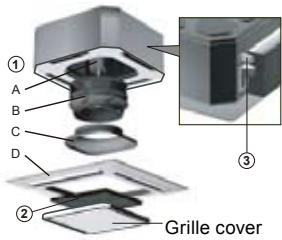
C : Bell-mouth D : Panel

② Long life filter

: standard equipment

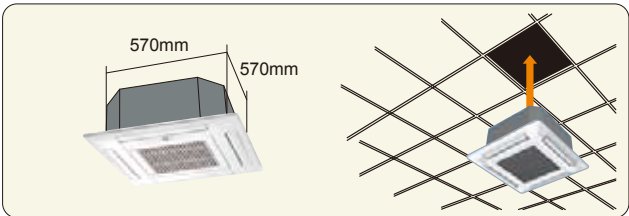
③ Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

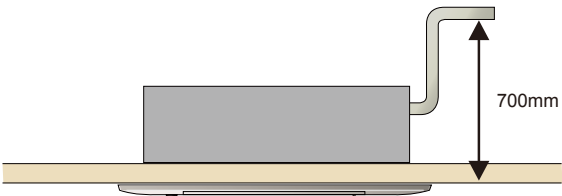


● Compact design

Easy installation by taking off ceiling panel of 600mm x 600mm size



● High lift drain pump



1-1-2. SLIM DUCT TYPE

■ **MODELS** : AR*G07LLTA, AR*G09LLTA, AR*G12LLTA, AR*G14LLTA, AR*G18LLTA, AR*G12LLTB, AR*G14LLTB, AR*G18LLTB

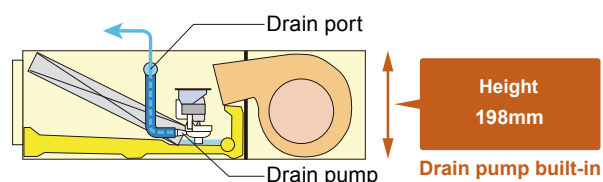


Slim design and wide range of static pressure for flexible installation.

■ FEATURES

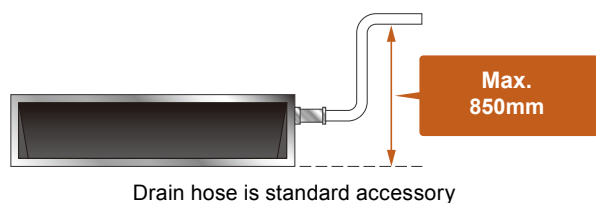
● Slim design

This model is slim design, it can install at the place where a ceiling is narrow.



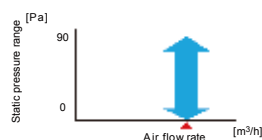
● Compact design

Condensate lift-up to 850mm.



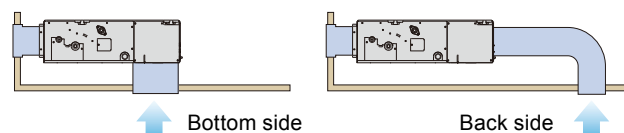
● Selectable with a wide range of static pressure

By using DC fan motor, it is possible to change of static pressure range 0 to 90Pa. The change of static pressure range is possible by remote controller.

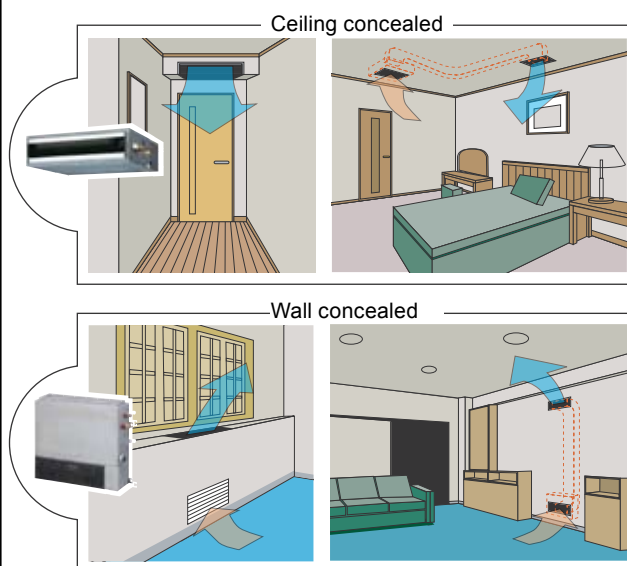


● Air - intake

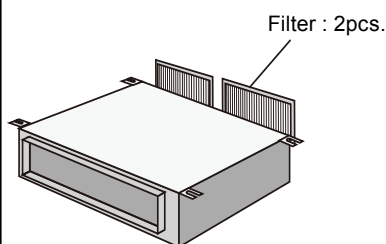
Air intake direction can be selected to match the installation site.



● Flexible installation



● Filter (Accessory)



1-1-3. COMPACT WALL MOUNTED TYPE

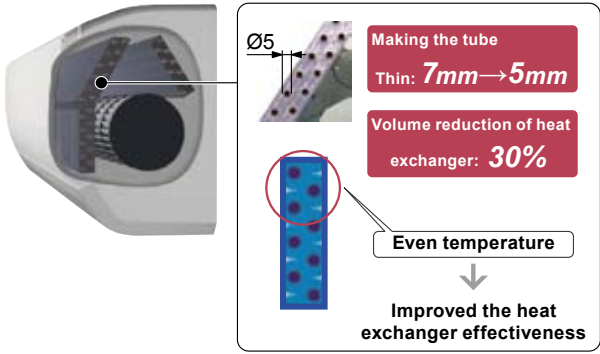
MODELS : AS*G07LJCA, AS*G09LJCA, AS*G12LJCA

Compact and Stylish design indoor unit



FEATURES

● High density heat transfer tube arrangement



● Filter features



Long-life*
Ion deodorization filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine particle ceramic.

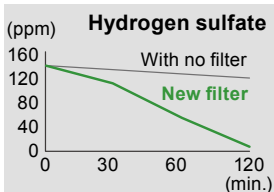
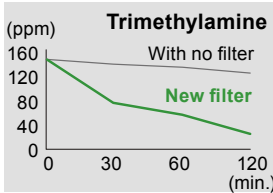
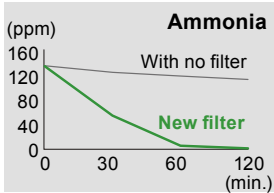
*The filter can be used for approx. 3 years if it is washed under water to restore it's surface action when it is dirty.



Apple-catechin filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.

Deodorizing effect (Odor reduction rate)



Testing organization :
Environmental Sanitary Inspection Center

Test method :
Deodorization Test

● Easy maintenance

Removable & washable panel



Dry operation

Dry operation removes moisture and keeps the air conditioner clean.

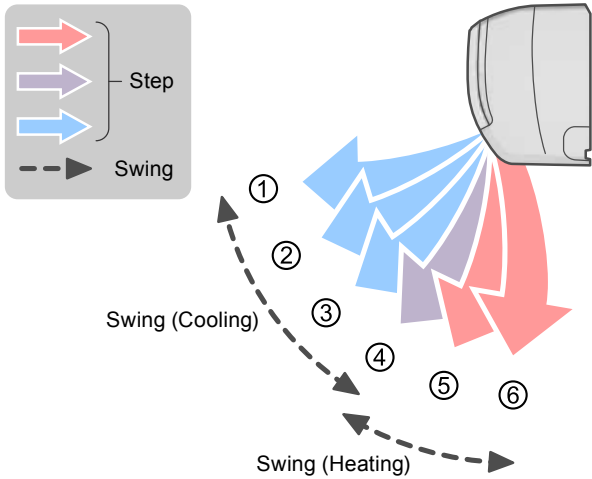
● Quiet operation

Cooling mode (07/09/12 TYPE)

Fan speed	Noise level
<i>Quiet</i>	21dB_(A)

● Auto swing louvre

The Auto Swing Louvre function ensures that the air direction corresponds to the mode selected.



● Wired control compatible



Wired and wireless remote controller are acceptable.

* Optional communication kit is necessary for the installation.



Wired remote controller



Simple remote controller

■ MODELS : AS*G07LUCA, AS*G09LUCA, AS*G12LUCA, AS*G14LUCA

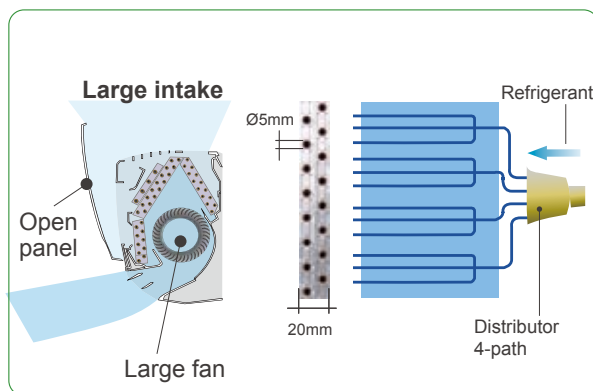
■ FEATURES

● Thin & Slim design

Thin and slim design is realized by Ø5mm heat exchanger and high efficiency wind blower.



Big open panel and High density multi path heat exchanger



● Powerful operation *Only available with Wireless RC.

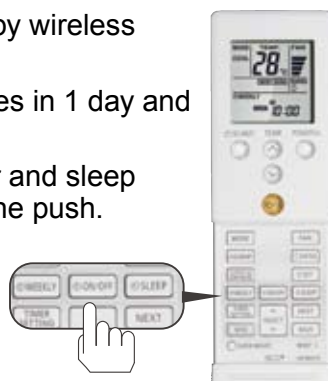
20 minutes continuous operation by maximum airflow is possible. The effect of the cooling and heating grow.

● 3 Mode timer (Weekly/Program/Sleep) *Only available with Wireless RC.

Weekly timer can be easily set by wireless remote controller.

ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week.

For other modes, program timer and sleep timer can be also selected by one push.



1-1-4. WALL MOUNTED TYPE

MODELS : AS*G18LFCA, AS*G24LFCA

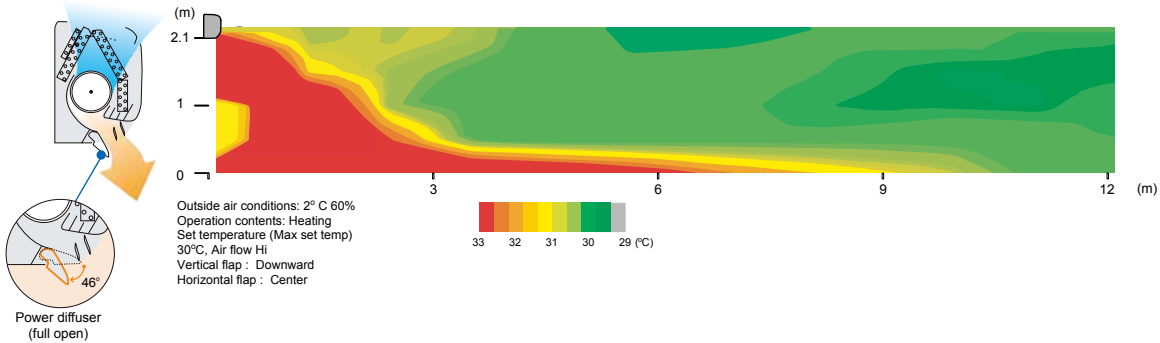
Simple & Elegant Appearance Design

FEATURES

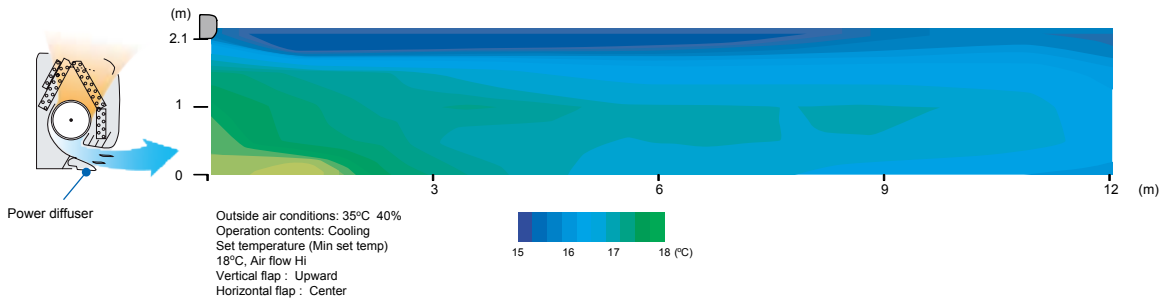
● Compact & Slim design



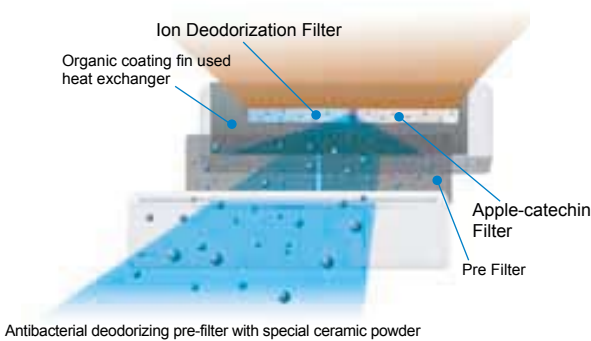
● “Vertical airflow” provides powerful floor level heating



● “Horizontal airflow” does not blow cool air directly at the occupants in the room



● Air conditioner filter features



Long-life*
Ion deodorization filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

(*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)



Using different filters at both sides



Apple-catechin filter

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

● Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

1-1-5. FLOOR / CEILING TYPE

■ **MODELS : AB*G14LVTA, AB*G18LVTA, AB*G18LVTB**

■ **FEATURES**

● **Flexible installation**

Example for floor installation



Example for ceiling installation



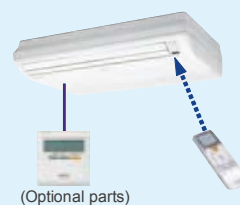
● **Easy installation**

Main work settings can be done easily from the remote controller at installation

Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

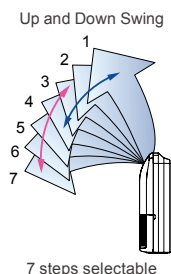
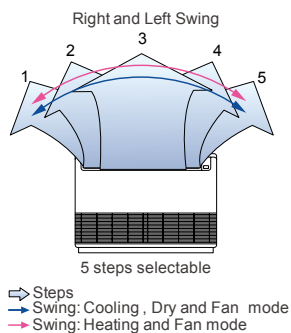
Setting by wireless or wired remote controller



(Optional parts)

● **Double auto swing**

A combination of right/left and up/down directional swing allows 3-dimensional air direction control

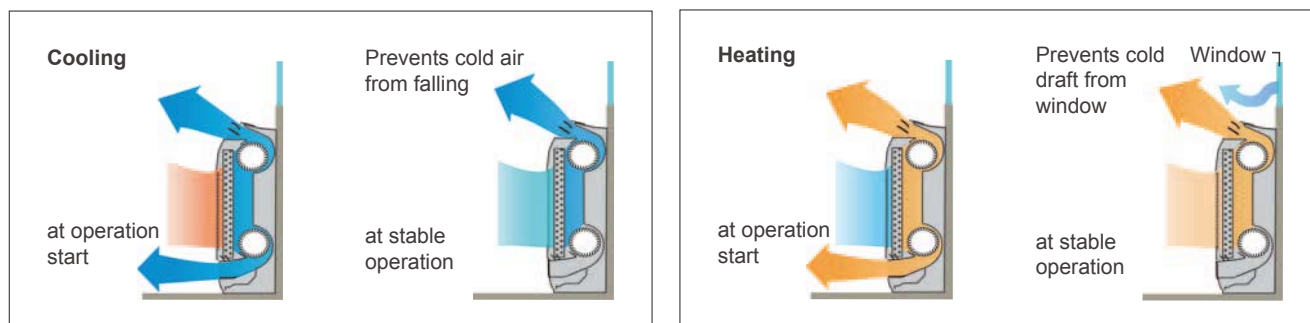


1-1-6. FLOOR TYPE

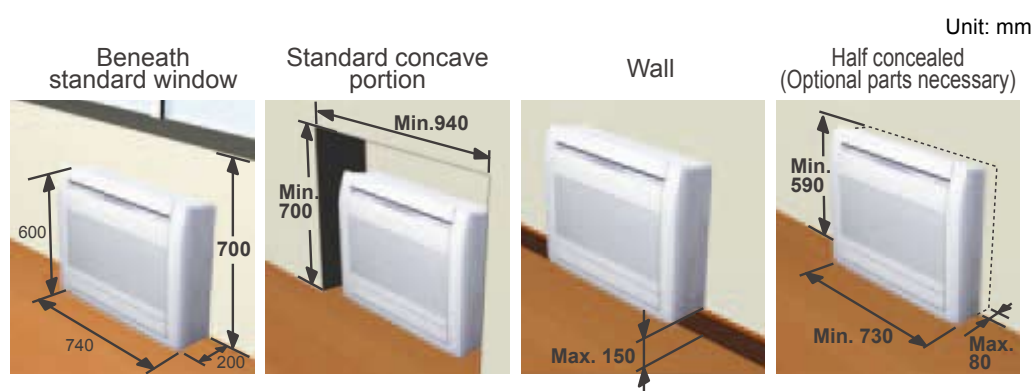
■ **MODELS : AG*G09LVCA, AG*G12LVCA, AG*G14LVCA**

■ **FEATURES**

● **2-Fan & Wide airflow**



● **Flexible & easy installation**



● **Filter features**

 Long-life* ion deodorization filter

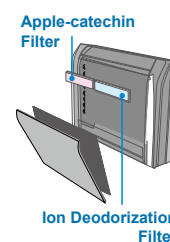
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.

✚ Using different filters at both sides

 Apple-catechin filter

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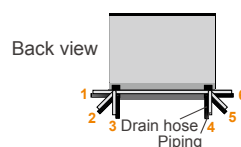
● **Easy maintenance**

Washable panel removable

Removable panel



● **Flexible piping connection 6 direction of drain & piping**



1-2. LINE UP

MODEL

INDOOR UNIT		
AU*G07LVLA , AU*G09LVLA AU*G12LVLA, AU*G14LVLA AU*G18LVLA, AU*G12LVLB AU*G14LVLB, AU*G18LVLB	AR*G07LLTA AR*G09LLTA AR*G12LLTA AR*G14LLTA AR*G12LLTB AR*G14LLTB	AR*G18LLTA AR*G18LLTB
		
AS*G07LJCA AS*G09LJCA AS*G12LJCA	AS*G07LUCA AS*G09LUCA AS*G12LUCA AS*G14LUCA	AS*G18LFCA AS*G24LFCA
		
AB*G14LVTA AB*G18LVTA AB*G18LVTB	AG*G09LVCA AG*G12LVCA AG*G14LVCA	
		
OUTDOOR UNIT		
AO*G14LAC2 AO*G18LAC2	AO*G18LAT3 AO*G24LAT3	AO*G30LAT4
		

Indoor units that can be connected to each outdoor unit

●: Connectable / —: Not connectable

OUTDOOR			COMPACT CASSETTE					SLIM DUCT					COMPACT WALL MOUNTED								WALL MOUNTED		FLOOR / CEILING		FLOOR		
			AU*G07-18LVLA AU*G12-18LVLB					AR*G07-18LLTA AR*G12-18LLTB					LJ				LU										
													AS*G07-12LJCA					AS*G07-14LUCA				AS*G18-24LFCA		AB*G14-18LVTA AB*G18LVTB		AG*G09-14LVCA	
Btu Class		07	09	12	14	18	07	09	12	14	18	07	09	12	07	09	12	14	18	24	14	18	09	12	14		
kW Class		2.0	2.5	3.5	4.0	5.0	2.0	2.5	3.5	4.0	5.0	2.0	2.5	3.5	2.0	2.5	3.5	4.0	5.0	7.0	4.0	5.0	2.5	3.5	4.0		
2 Rooms	AO*G14LAC2	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	—	—	—	—	—	—	—	—		
	AO*G18LAC2	●	●	●	—	—	●	●	●	—	—	●	●	●	●	●	●	●	—	—	—	—	●	●	—		
3 Rooms	AO*G18LAT3	●	●	●	●	—	●	●	●	●	—	●	●	●	●	●	●	●	—	—	●	—	●	●	●		
	AO*G24LAT3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	●	●	●	●	●		
4 Rooms	AO*G30LAT4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		

INDOOR UNIT CONNECTION PATTERNS

● 2 Rooms

AO*G14LAC2			
No.	room 1	room 2	total
1	7	7	14
2	7	9	16
3	7	12	19
4	9	9	18
5	9	12	21

AO*G18LAC2			
No.	room 1	room 2	total
1	7	7	14
2	7	9	16
3	7	12	19
4	7	14	21
5	9	9	18
6	9	12	21
7	9	14	23
8	12	12	24

Notes) 7: 7000Btu/h, 9: 9000Btu/h, 12: 12000Btu/h, 14: 14000Btu/h (AS*G14LUCA type only) models

● 3 Rooms

AO*G18LAT3				
No.	room 1	room 2	room 3	total
1	7	7	—	14
2	7	9	—	16
3	7	12	—	19
4	7	14	—	21
5	9	9	—	18
6	9	12	—	21
7	9	14	—	23
8	12	12	—	24
9	12	14	—	26
10	7	7	7	21
11	7	7	9	23
12	7	7	12	26
13	7	7	14	28
14	7	9	9	25
15	7	9	12	28
16	7	9	14	30
17	9	9	9	27
18	9	9	12	30

AO*G24LAT3				
No.	room 1	room 2	room 3	total
1	7	7	—	14
2	7	9	—	16
3	7	12	—	19
4	7	14	—	21
5	7	18	—	25
6	9	9	—	18
7	9	12	—	21
8	9	14	—	23
9	9	18	—	27
10	12	12	—	24
11	12	14	—	26
12	12	18	—	30
13	7	7	7	21
14	7	7	9	23
15	7	7	12	26
16	7	7	14	28
17	7	7	18	32
18	7	9	9	25
19	7	9	12	28
20	7	9	14	30
21	7	9	18	34
22	7	12	12	31
23	7	12	14	33
24	9	9	9	27
25	9	9	12	30
26	9	9	14	32
27 *1	9	9	18	36
28	9	12	12	33
29	9	12	14	35
30	12	12	12	36

Notes) 7: 7000Btu/h, 9: 9000Btu/h, 12: 12000Btu/h, 14: 14000Btu/h, 18: 18000Btu/h models

*1: When "ASYG18L" is connected, 9000Btu/h model shall be chosen at least one "Compact wall mounted type" or more.

●4 Rooms

AO*G30LAT4					
No.	room 1	room 2	room 3	room 4	total
1	7	7	14	-	28
2	7	7	18	-	32
3	7	7	24	-	38
4	7	9	12	-	28
5	7	9	14	-	30
6	7	9	18	-	34
7	7	9	24	-	40
8	7	12	12	-	31
9	7	12	14	-	33
10	7	12	18	-	37
11	7	12	24	-	43
12	7	14	14	-	35
13	7	14	18	-	39
14	7	14	24	-	45
15	7	18	18	-	43
16	7	18	24	-	49
17	9	9	9	-	27
18	9	9	12	-	30
19	9	9	14	-	32
20	9	9	18	-	36
21	9	9	24	-	42
22	9	12	12	-	33
23	9	12	14	-	35
24	9	12	18	-	39
25	9	12	24	-	45
26	9	14	14	-	37
27	9	14	18	-	41
28	9	14	24	-	47
29	9	18	18	-	45
30	12	12	12	-	36
31	12	12	14	-	38
32	12	12	18	-	42
33	12	12	24	-	48
34	12	14	14	-	40
35	12	14	18	-	44
36	12	18	18	-	48
37	7	7	7	7	28
38	7	7	7	9	30
39	7	7	7	12	33
40	7	7	7	14	35
41	7	7	7	18	39
42	7	7	9	9	32
43	7	7	9	12	35
44	7	7	9	14	37
45	7	7	9	18	41
46	7	7	12	12	38
47	7	7	12	14	40
48	7	7	12	18	44
49	7	7	14	14	42
50	7	7	14	18	46
51	7	9	9	9	34
52	7	9	9	12	37
53	7	9	9	14	39
54	7	9	9	18	43
55	7	9	12	12	40
56	7	9	12	14	42
57	7	9	12	18	46
58	7	9	14	14	44
59	7	9	14	18	48
60	7	12	12	12	43
61	7	12	12	14	45
62	7	12	12	18	49
63	7	12	14	14	47
64	9	9	9	9	36
65	9	9	9	12	39
66	9	9	9	14	41
67 *1	9	9	9	18	45
68	9	9	12	12	42
69	9	9	12	14	44
70 *2	9	9	12	18	48
71	9	9	14	14	46
72	9	12	12	12	45
73	9	12	12	14	47
74	9	12	14	14	49
75	12	12	12	12	48

Notes) 7: 7000Btu/h, 9: 9000Btu/h, 12: 12000Btu/h, 14: 14000Btu/h, 18: 18000Btu/h, 24: 24000Btu/h models

*1: " AR*G09L + AR*G09L + AR*G09L + AS*G18L " can not be connected in this combination.

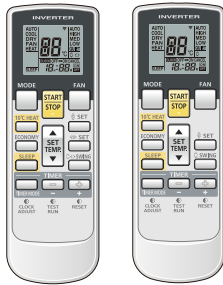
*2: " AR*G09L + AR*G09L + AR*G12L + AS*G18L " can not be connected in this combination.

2. REMOTE CONTROLLER

2-1. WIRELESS REMOTE CONTROLLER

■ MODEL : AR-RAH2E / AR-RAH1E

■ FEATURES



- Four kinds of timer setup (ON / OFF / PROGRAM / SLEEP) are possible.
- Can be used jointly with wired remote controllers .
- Easy to change signal code (4 patterns).

● Built-in timers

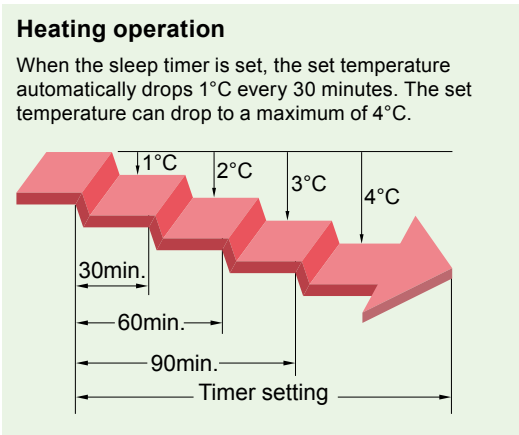
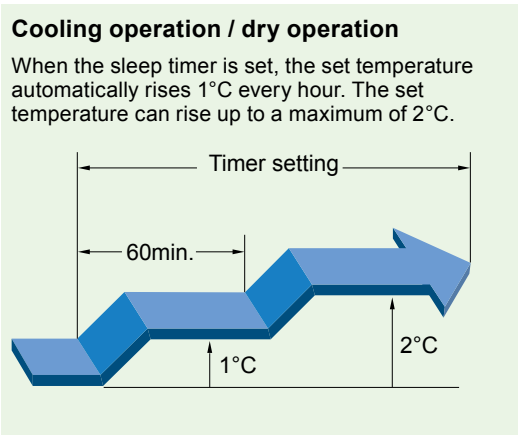
Select from four different timer programs (ON / OFF / PROGRAM / SLEEP).

● Program timer

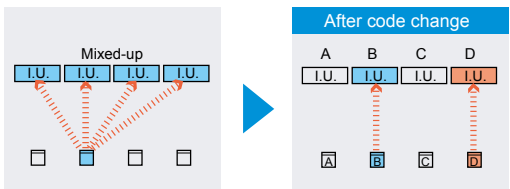
The program timer operates the ON and OFF timer once within a 24 hour period.

● 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.



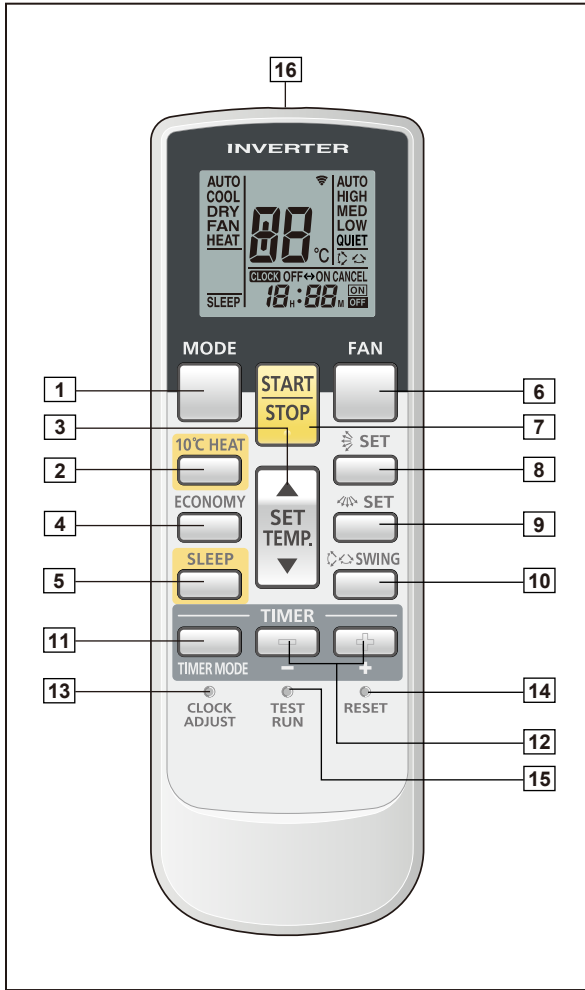
● Switching remote controller signal code



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

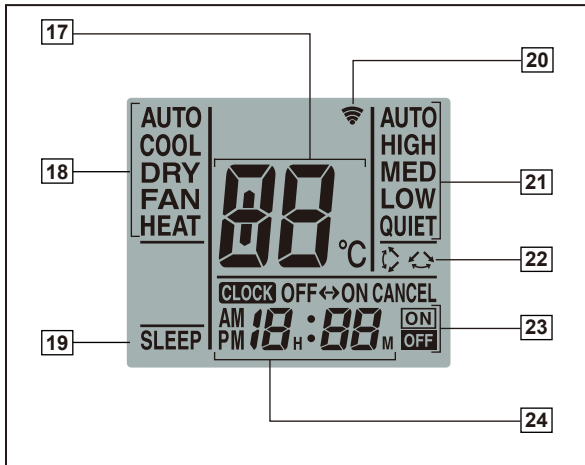
*I.U.=Indoor unit

■ FUNCTIONS [Wall mounted, Floor/Ceiling type]



- 1 MODE button
Selects the operating mode (AUTO, COOL, DRY, FAN, HEAT).
/Start / end R.C. signal code change. (Max 4 types)
- 2 10°C HEAT button
- 3 SET TEMP. button (▲ / ▼)
Sets the indoor temp./ Sets R.C. signal 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.

Display panel

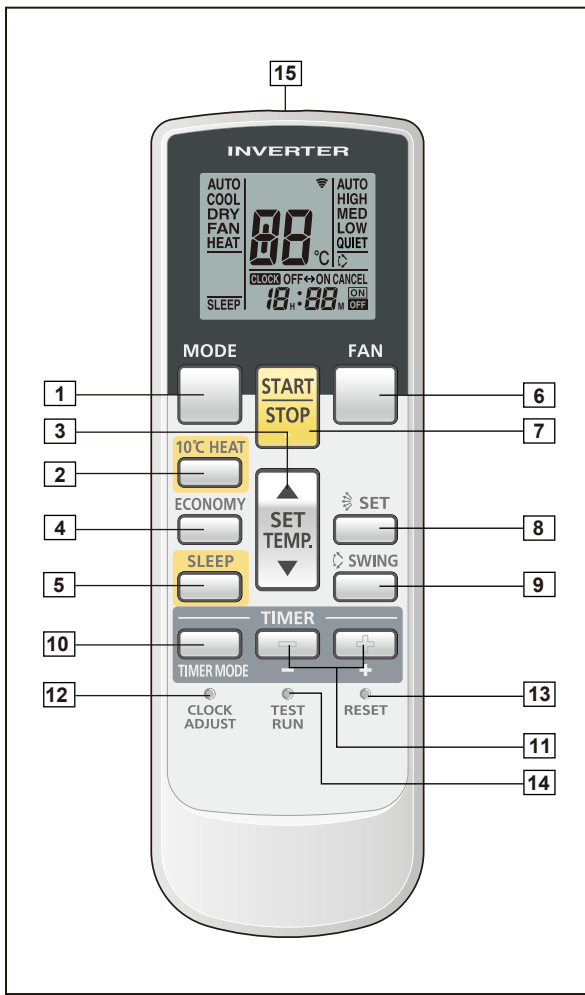


- 16 Signal transmitter
- 17 Temperature set display
- 18 Operating mode display
- 19 Sleep display
- 20 Transmit indicator
- 21 Fan speed display
- 22 Swing display
- 23 Timer mode display
- 24 Clock display

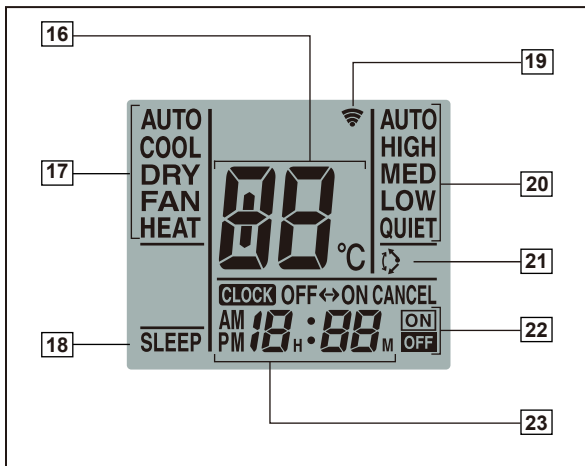
Note: Functions will be different due to type of indoor unit.
For details, please see operation manual.

FUNCTIONS

[Compact cassette, Compact wall mounted (LJ), Floor type]



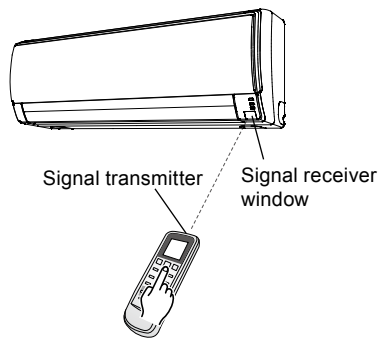
Display panel



- 1 MODE button
Selects the operating mode (AUTO, COOL, DRY, FAN, HEAT).
/Start / end R.C. signal code change. (Max 4 types)
- 2 10°C HEAT button
- 3 SET TEMP. button (▲ / ▼)
Sets the indoor temp./ Sets R.C. signal 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 SWING button
Air flow direction swing button.
- 10 TIMER MODE button
Pressed to select the timer mode. (OFF TIMER, ON TIMER, PROGRAM TIMER, TIMER RESET)
- 11 TIMER SET (+ / -) button
Sets the current time and on-off time.
- 12 CLOCK ADJUST button
Sets the current time.
- 13 RESET button
Used when replacing batteries.
- 14 TEST RUN button
Used when testing the air conditioner after installation.
- 15 Signal transmitter
- 16 Temperature set display
- 17 Operating mode display
- 18 Sleep display
- 19 Transmit indicator
- 20 Fan speed display
- 21 Swing display
- 22 Timer mode display
- 23 Clock display

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

SYSTEM DIAGRAM

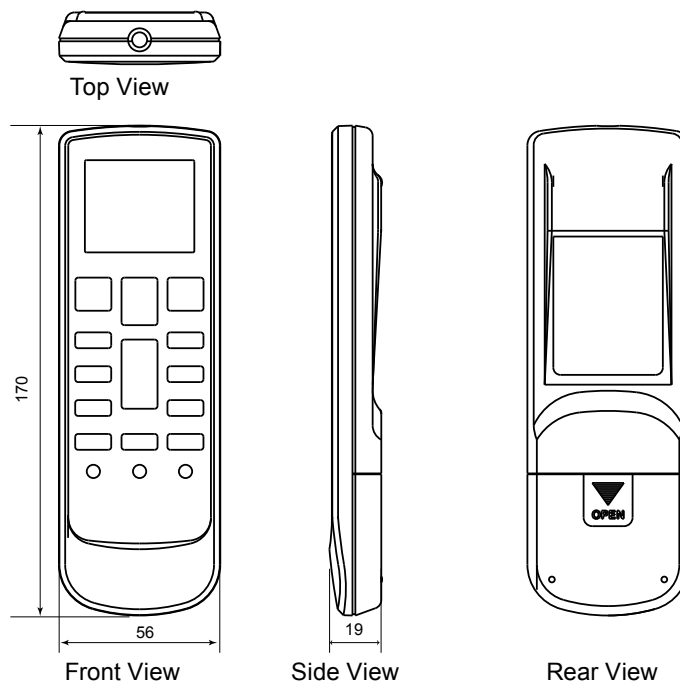


- Control signal might not be recognized in following cases:
 - A curtain or a wall, etc. exists between transmitter and receiver.
 - There is an instant-start type (inverter type, etc.) fluorescent lamp in the room.
- Air conditioner might not work correctly when strong light hits the signal receiver window. Shut off the direct sunlight and also make illuminator far away from the receiver window.

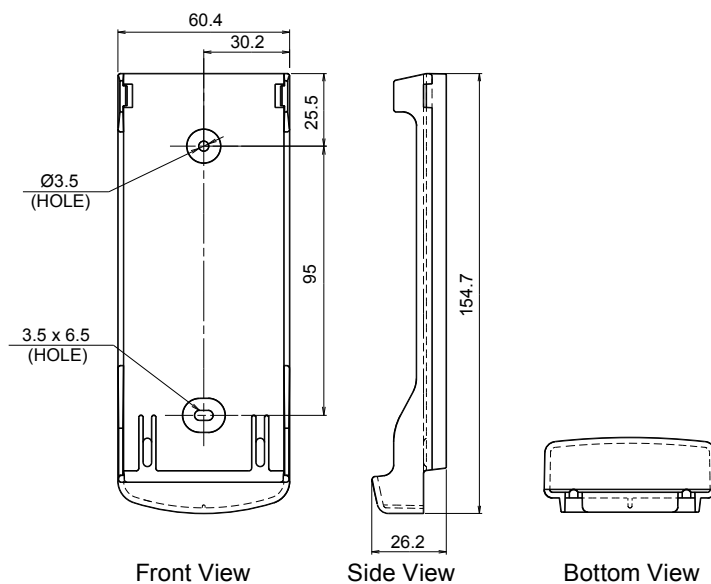
DIMENSIONS

Controller

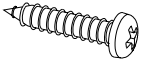
[Unit : mm]



Holder



■ PACKING LIST

Name and shape	Quantity	Application
Remote controller holder 	1	Use as remote controller holder
Tapping screw 	2	For remote controller holder installation
Battery [1.5V (R03 / AAA)] 	2	For remote controller

■ SPECIFICATIONS

Dimensions [H x W x D]: (mm)	170 x 56 x 19
Weight : (g)	85 [w/o batteries]

■ MODEL : AR-REA2E

■ FEATURES



- * Three kinds of timer setup (Weekly / Program / Sleep) are possible.
- * Easy operation.
- * Easy to change signal code (4 patterns) by button operation.

● Simple function setting

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

● Built-in timers

Select from three different timer programs (Weekly / Program / Sleep).

● Weekly timer

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week.

● Program timer

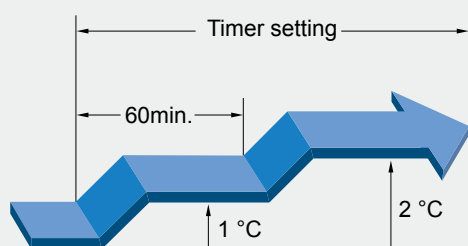
The program timer operates the on and off timer once within a 24 hour period.

● Sleep timer

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

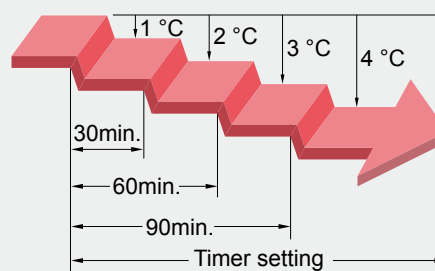
Cooling operation/dry operation

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.

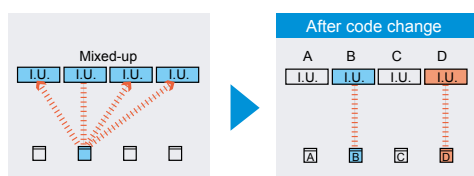


Heating operation

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.



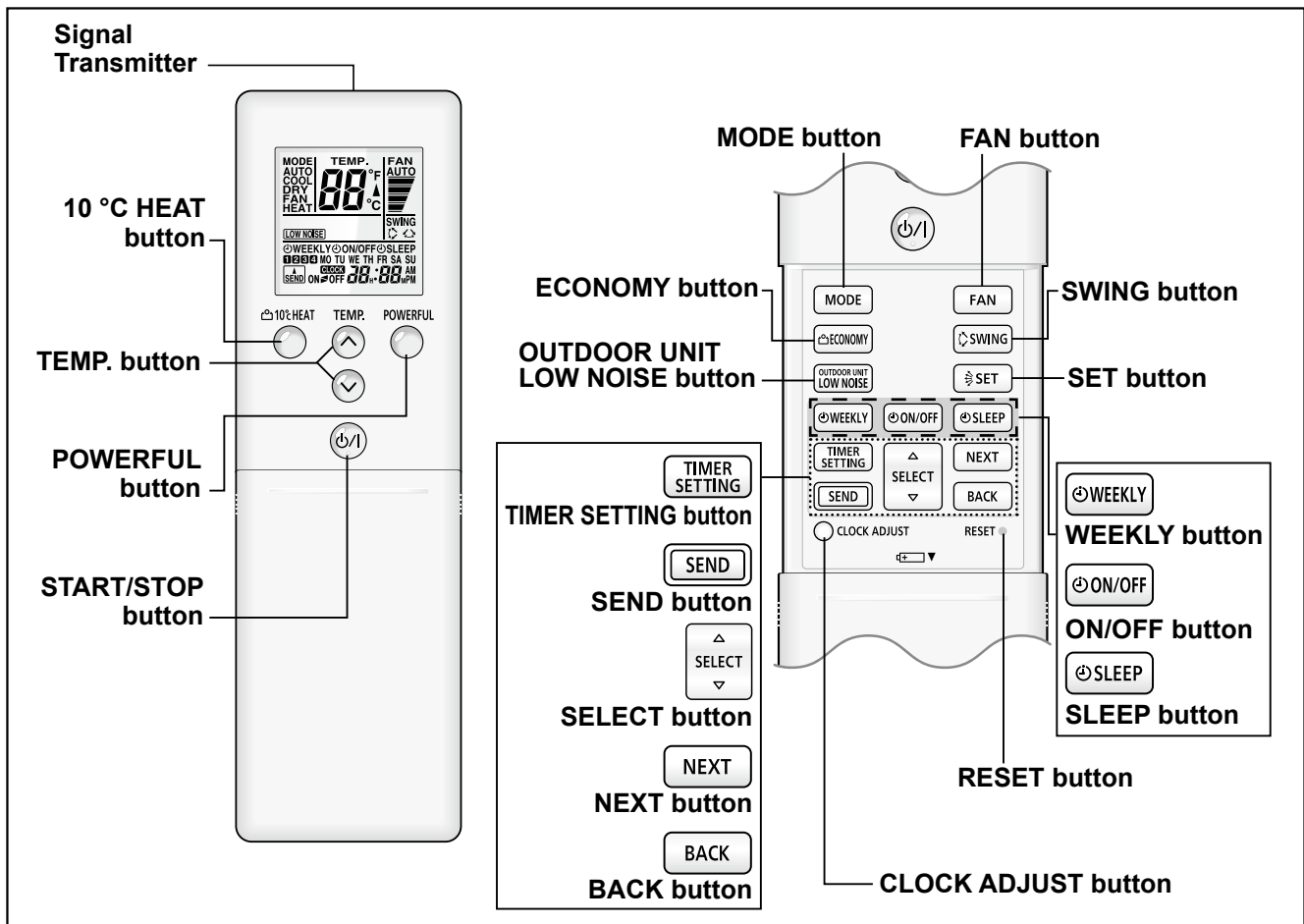
● Switching remote controller signal code



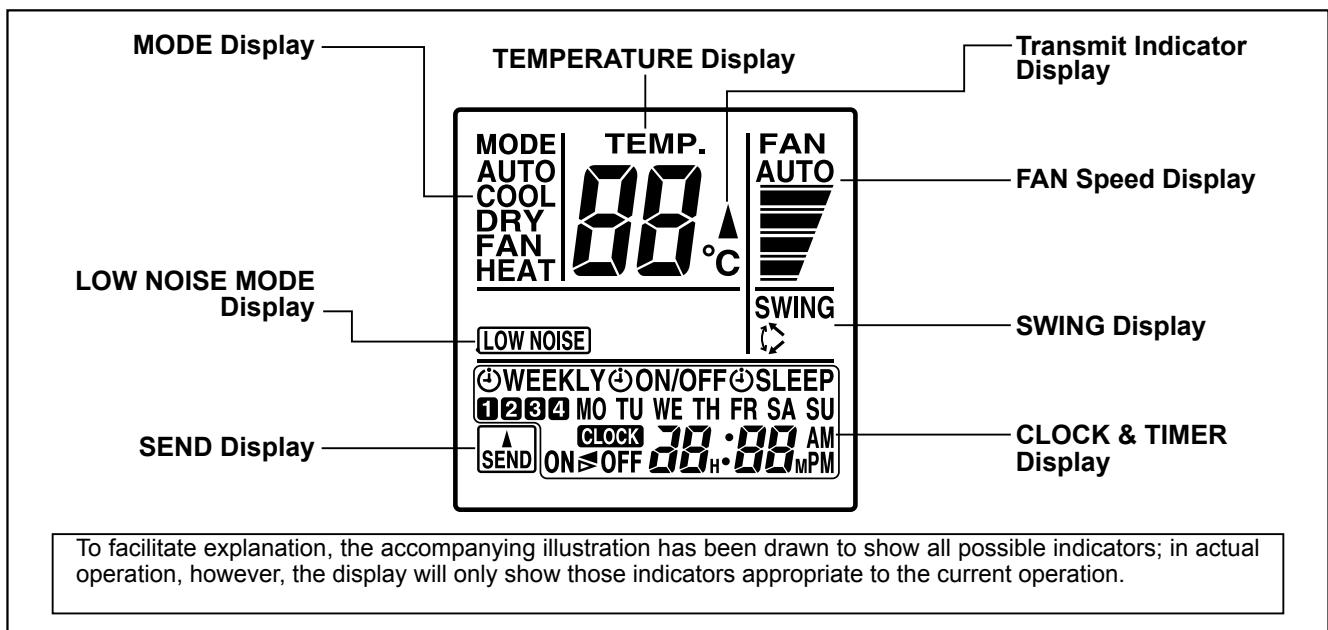
- Code selector switch eliminates unit being wrongly switched.
(Up to 4 codes can be set.)

*I.U.=Indoor unit

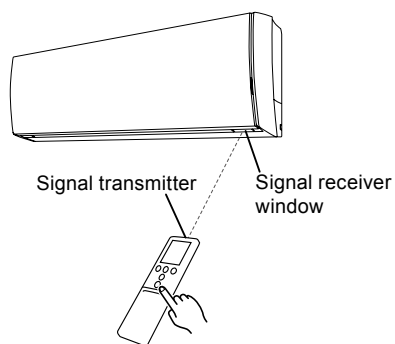
FUNCTIONS [Compact wall mounted (LU)]



Display panel



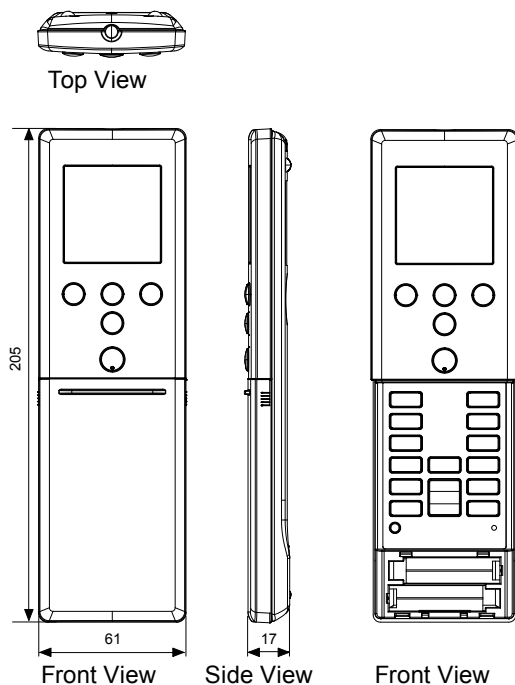
Note: Functions will be different due to type of indoor unit.
For details, please see operation manual.



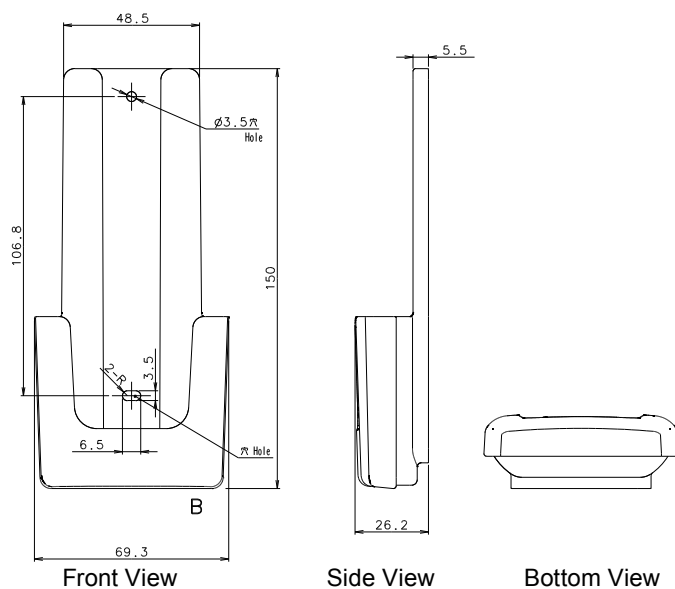
- Control signal might not be recognized in following cases:
 - (i) A curtain or a wall, etc. exists between transmitter and receiver.
 - (ii) There is an instant-start type (inverter type, etc.) fluorescent lamp in the room.
- Air conditioner might not work correctly when strong light hits the signal receiver window. Shut off the direct sunlight and also make illuminator far away from the receiver window.

● Controller

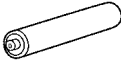
[Unit : mm]



● Holder



■ PACKING LIST

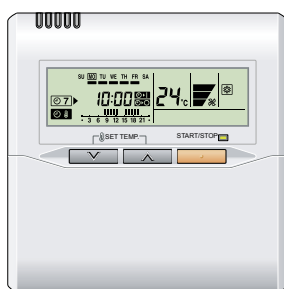
Name and shape	Quantity	Application
Remote controller holder 	1	Use as remote controller holder
Tapping screw 	2	For remote controller holder installation
Battery [1.5V (R03 / AAA)] 	2	For remote controller

■ SPECIFICATIONS

Dimensions [H x W x D]: (mm)	205 x 61 x 17
Weight : (g)	122 [w/o batteries]

2-2. WIRED REMOTE CONTROLLER [For Slim duct type]

■ FEATURES



- Various timer setup (ON / OFF / WEEKLY) are possible.
- Equipped with weekly timer as standard function.
(Start / Stop function is twice per day for a week)
- When setting up a timer, start / stop and a temperature setup can be changed.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- The room temperature can be controlled by being detected the temperature accurately with Built-in thermo sensor.

● Powerful features and compact size

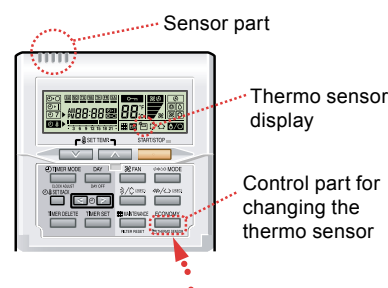


● Accurate and comfortable

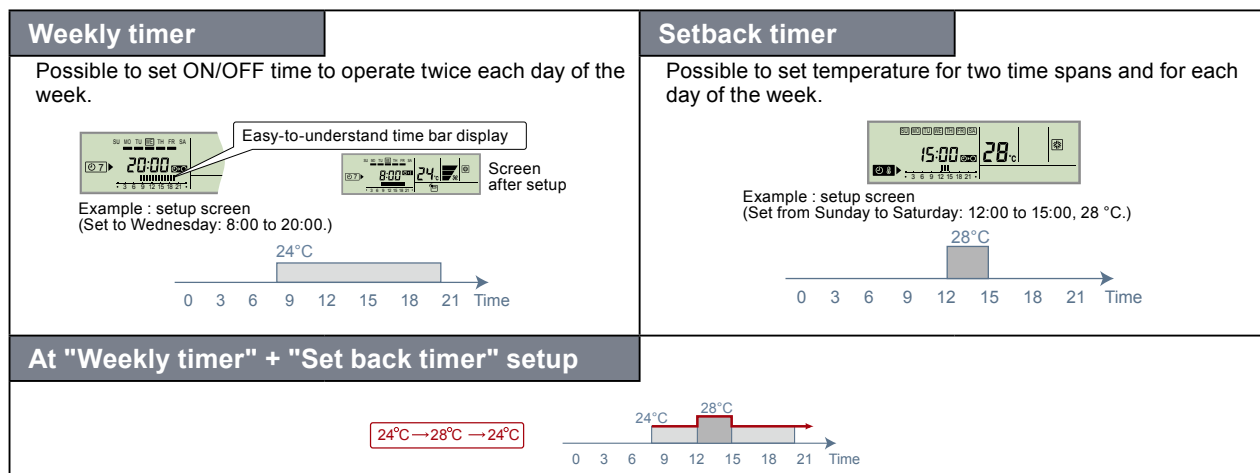
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.

Our system can correspond to various scenes.

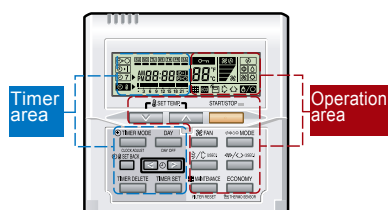
This wired remote controller and the optional remote sensor allows flexibility in sensor location, and suitable for all requirements.



● Built-in timers



● Easy-to-understand operation

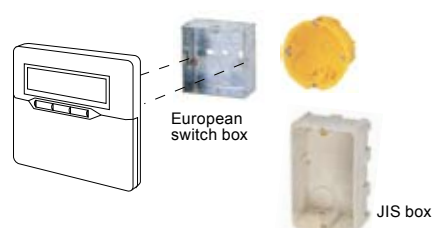


[Variable timer control]

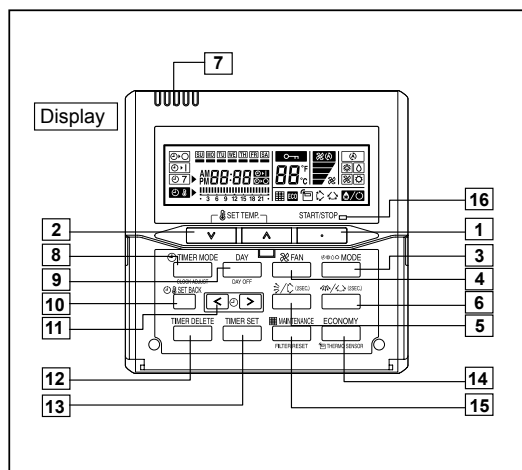
The operation/display sections are zoned according to time and operation, enabling variable programming to match application.

● Simple installation

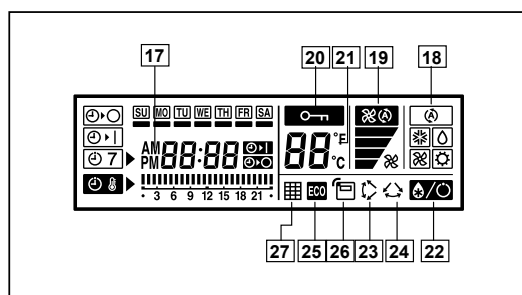
Components are compatible with standard switch boxes. Flat back surface allows equipment to be installed wherever it is needed.



FUNCTIONS



Display panel

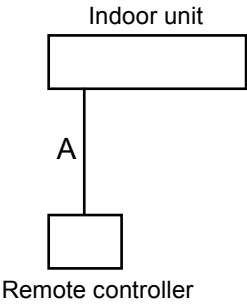


- 1 START/STOP button
Pressed to start and stop operation.
- 2 SET TEMP. button
Selects the setting temperature.
- 3 MODE button
Selects the operating mode (AUTO (A), COOL (❄️), DRY (💧), FAN (🌀), HEAT (🔥)).
- 4 FAN button
Selects the fan speed (AUTO (🌀), HIGH (🌀), MED (🌀), LOW (🌀), QUIET (🌀)).
- 5 Vertical air flow direction and swing button
Press for two seconds to change the swing mode
- 6 Horizontal air flow direction and swing button
Press for two seconds to change the swing mode.
- 7 Built-in thermo sensor
Detect room temperature.
- 8 TIMER MODE (CLOCK ADJUST) button
Selects the timer mode (OFF TIMER, ON TIMER, WEEKLY TIMER)
Set the current time.
- 9 DAY (DAY OFF) button
Temporarily cancels of one day timer.
- 10 SET BACK button
Pressed select the set back timer.
- 11 SET TIME button
Pressed to select the set back timer.
- 12 TIMER DELETE button
The schedule of a weekly timer is deleted.
- 13 TIME SET button
Sets the date, hour, minute and on-off time.
- 14 ECONOMY (THERMO SENSOR) button
- 15 FILTER RESET button
- 16 Operation lamp
Lights during operation and when the timer is on.
- 17 Timer and clock display
- 18 Operation mode display
- 19 Fan speed display
- 20 Operation lock display
- 21 Temperature display
Displayed temperature is set temperature.
- 22 Defrost display
Indicates during the oil recovery and defrosting operation.
- 23 Vertical swing display
- 24 Horizontal swing display
- 25 Economy display
- 26 Thermo sensor display
- 27 Filter display

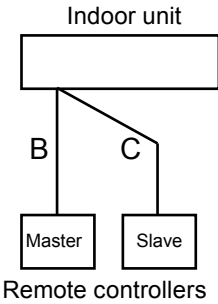
Note: Functions will be different due to type of indoor unit.
For details, please see operation manual.

SYSTEM DIAGRAM

1 remote controller



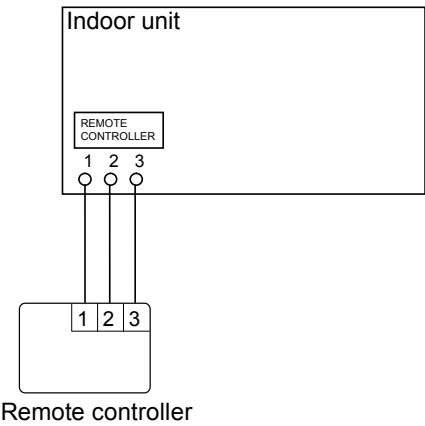
2 remote controllers



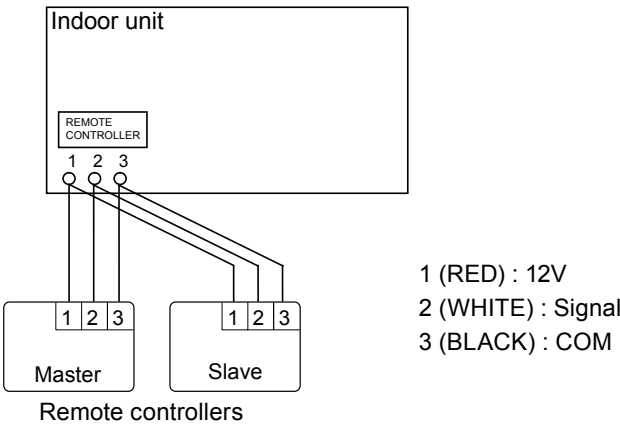
A , B , C : Remote controller cable.
 $A \leq 500\text{m}$; $B+C \leq 500\text{m}$

ELECTRICAL WIRING

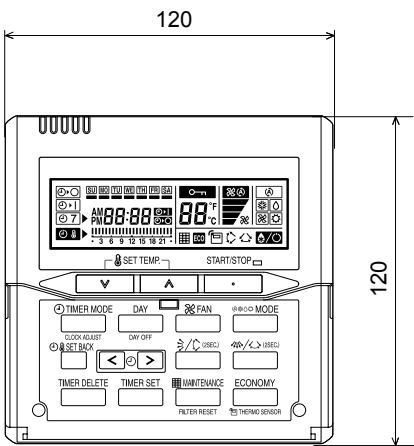
1 remote controller



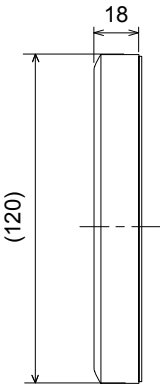
2 remote controllers



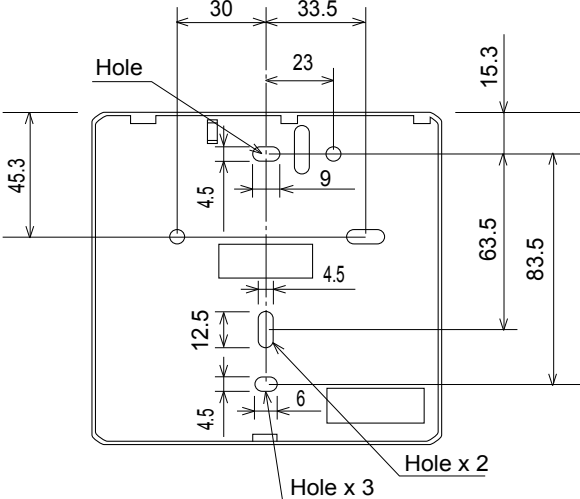
DIMENSIONS



Front View



Side View



Rear View

[Unit : mm]

■ INSTALLATION

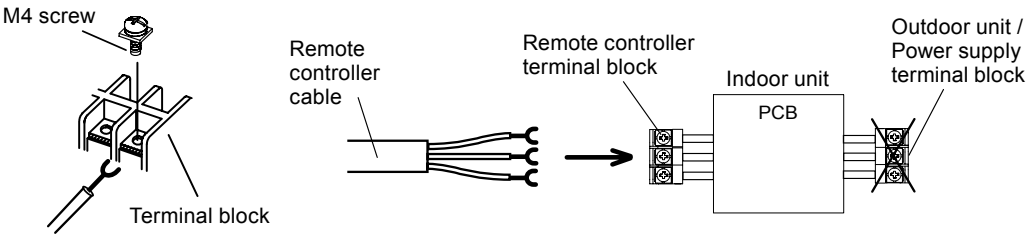
● Connection Pattern

Note: Connection pattern is different according to type of Indoor unit.

Indoor unit types		Connection Pattern
Compact Cassette type		Pattern A
Slim Duct type		
Floor / Ceiling type		
Compact Wall Mounted type	LJ LU	Pattern B
Wall Mounted type		Pattern C
Floor type		

● Pattern A

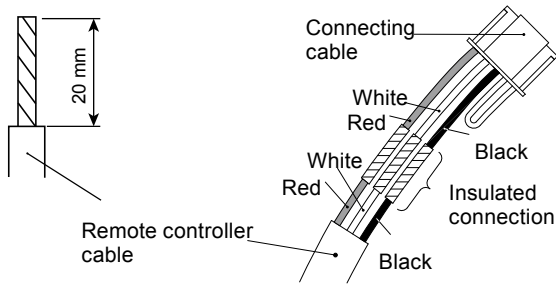
Connect the end of remote controller cable directly to the exclusive terminal block.



Note: It may be failed if it is connected to the outdoor unit or the terminal block for power supply.

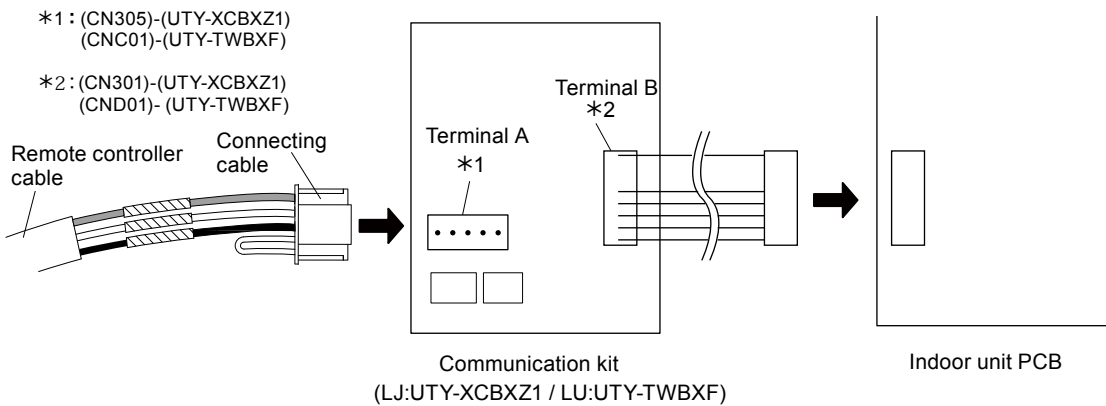
● Pattern B

- 1) Modify the remote controller cable as per below methods.
- Use a tool to cut off the terminal on the end of the remote controller cable and then remove the insulation from the cut end of the cable as shown in Fig.
- Connect the remote controller cable and connecting cable as shown in Fig.
- Be sure to insulate the connection between the cables.



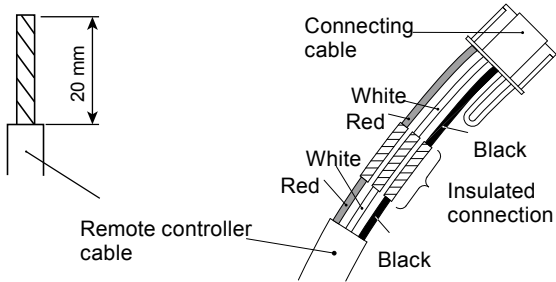
2) Method of connecting remote controller cable

- Connecting cable made by above-mentioned 1) is connected with terminal A of optional communication kit .
- Cable connected with terminal B of communication kit is connected with PCB of Indoor unit.



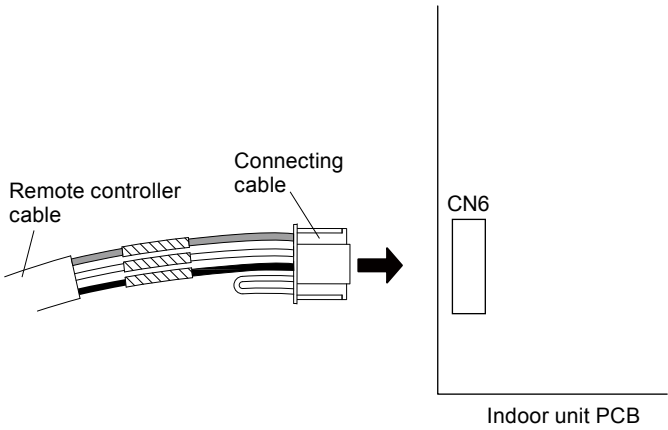
● Pattern C

- 1) Modify the remote controller cable as per below methods.
- Use a tool to cut off the terminal on the end of the remote controller cable and then remove the insulation from the cut end of the cable as shown in Fig.
 - Connect the remote controller cable and connecting cable as shown in Fig.
 - Be sure to insulate the connection between the cables.

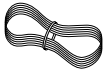
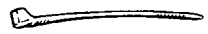


2) Method of connecting remote controller cable

- Connecting cable made by above-mentioned 1) is connected with PCB of Indoor unit.



■ PACKING LIST

Name and shape	Quantity	Application
Remote controller cable (10m) 	1	For connecting the remote controller
Screw (M4 x 16mm) 	2	For installing the remote controller
Binder 	1	For remote controller and remote controller cable binding
Connecting cable *1 	1	For connecting the remote controller cable to the Compact wall mounted type and Wall mounted type indoor unit
Screw *1 (M4 x 14mm) 	1	For installing the remote controller cable to the indoor unit
Cable clamber *1 	1	For installing the remote controller cable to the indoor unit
Installation manual 	1	
Operating manual 	1	

*1: Use only if the remote controller cable must be modified for the indoor unit model.

■ WIRING SPECIFICATIONS

Use	Cable size	Wire type	Remarks
Remote controller cable	0.33 mm ² (22 AWG)	Polar 3 core	Use sheathed PVC cable

■ SPECIFICATIONS

Dimensions [H x W x D]: (mm)	120 x 120 x 18
Weight: (g)	160

■ PART (OPTIONAL)

	Compact wall mounted	
Model name	LJ:UTY-XCBXZ1	LU:UTY-TWBXF

*The communication kit (LJ:UTY-XCBXZ1 / LU:UTY-TWBXF) is needed for connecting the wired remote controller to the compact wall mounted type.

3. SPECIFICATIONS

3-1. COMPACT CASSETTE TYPE

Model name					AU*G07LVLA	AU*G09LVLA	AU*G12LVLA AU*G12LVLB	AU*G14LVLA AU*G14LVLB	AU*G18LVLA AU*G18LVLB
Power source					1ø 230V ~ 50Hz				
Available voltage range					198-264V				
Capacity					2.0kW Class	2.5kW Class	3.5kW Class	4.0kW Class	5.0kW Class
Input power				W	18	18	23	28	39
Running current				A	0.15	0.15	0.19	0.22	0.30
Fan	Airflow rate	Cooling	High	m³/h	540	540	610	680	750
			Med		490	490	530	580	610
			Low		440	440	470	490	520
			Quiet		390	390	410	410	410
		Heating	High		540	540	610	700	800
			Med		490	490	530	620	710
			Low		440	440	470	550	600
			Quiet		390	390	410	430	450
	Fan Type × Q'ty			Turbo × 1					
	Fan Motor Output			W	42				
Sound pressure level		Cooling	High	dB(A)	33	33	37	40	42
			Med		31	31	33	35	37
			Low		29	29	31	32	33
			Quiet		27	27	28	29	29
		Heating	High		34	34	37	40	44
			Med		32	32	33	37	40
			Low		29	29	31	34	37
			Quiet		27	27	28	29	30
Heat exchanger	Dimension (H × W × D)			mm	210 × 1310 × 13.3 + 210 × 1250 × 13.3				
	Fin pitch				1.2				
	Rows × Stages				2 × 10				
	Pipe type				Copper tube				
	Fin Type				Aluminium				
Dimensions (H × W × D)	Net			mm	245×570×570				
	Gross				265×730×625				
Weight	Net			kg	15				
	Gross				18				
Connection pipe	Size	Liquid	mm	ø6.35 (ø1/4in.)					
		Gas		ø9.52 (ø3/8in.)			ø12.7 (ø1/2in.)		
	Method			Flare					
Operation range	Cooling			°C	18 to 32				
				%RH	80 or less				
	Heating			°C	16 to 30				
Drain pipe	Material				HARD PVC				
	Size			mm	Outer diameter : 32 / Inner diameter : 25				
Decoration panel	Model name				UTG-UF*D-W				
	Material				PS				
	Colour				WHITE (Approximate colour of MUNSELL N9.25 /)				
	Dimensions (H × W × D)	Net	mm	49 × 700 × 700					
		Gross		120 × 765 × 755					
	Weight	Net	kg	2.6					
		Gross		4.5					
Remote controller type					Wireless [Wired (option)]				

Note : The protective function might work when using it outside the operation range.

3-2. SLIM DUCT TYPE

Model name				AR*G07LLTA	AR*G09LLTA	AR*G12LLTA AR*G12LLTB	AR*G14LLTA AR*G14LLTB	AR*G18LLTA AR*G18LLTB	
Power source				1ø 230V ~ 50Hz					
Available voltage range				198-264V					
Capacity				2.0kW Class	2.5kW Class	3.5kW Class	4.0kW Class	5.0kW Class	
Input power			W	33	49	58	76	73	
Running current			A	0.33	0.30	0.35	0.51	0.44	
Fan	Airflow rate	Cooling	High	m³/h	550	600	650	800	940
			Med		490	550	600	700	880
			Low		470	500	550	600	820
			Quiet		440	450	480	480	750
		Heating	High		550	600	650	800	940
			Med		490	550	600	700	880
			Low		470	500	550	600	820
			Quiet		440	450	480	480	750
	Fan type × Q'ty		Sirocco × 2					Sirocco × 3	
	Fan motor output		W	80	81			96	
Recommended static pressure			Pa	0 to 90					
Sound pressure level		Cooling	High	dB(A)	28	28	29	32	32
			Med		26	27	28	30	31
			Low		25	26	27	28	30
			Quiet		24	25	26	26	29
		Heating	High		28	28	29	33	33
			Med		26	26	28	30	32
			Low		25	25	27	28	31
			Quiet		24	24	24	25	29
Heat exchanger	Dimension (H × W × D)		mm	294 × 500 × 26.6	294 × 500 × 39.9			294 × 700 × 39.9	
	Fin pitch			1.3					
	Rows × Stages			2 × 14	3 × 14				
	Pipe type			Copper tube					
	Fin Type			Aluminium					
Enclosure	Material			GALVANIZED STEEL SHEET					
	Colour			-					
Dimensions (H × W × D)	Net		mm	198 × 700 × 620				198 × 900 × 620	
	Gross			276 × 968 × 772				276 × 1168 × 772	
Weight	Net		kg	17	19			23	
	Gross			24	26			30	
Connection pipe	Size	Liquid	mm	Ø6.35 (Ø1/4in.)					
		Gas		Ø9.52 (Ø3/8in.)			Ø12.7 (Ø1/2in.)		
	Method			Flare					
Drain pipe	Material			HARD PVC					
	size		mm	Outer Diameter: 32					
				Inner Diameter: 25					
Operation range		Cooling	°C	18 to 32					
			%RH	80 or less					
		Heating	°C	16 to 30					
Remote controller type				Wired [Wireless (option)]					

Note : Specifications are based on the following conditions.
Static Pressure : 25Pa
The protective function might work when using it outside the operation range.

3-3. COMPACT WALL MOUNTED TYPE

Model name				AS*G07LJCA		AS*G09LJCA		AS*G12LJCA	
Power source				1ø 230V ~ 50Hz					
Available voltage range				198-264V					
Capacity				2.0kW Class		2.5kW Class		3.5kW Class	
Input power			W	15		17		22	
Running current			A	0.13		0.15		0.19	
Fan	Airflow rate	Cooling	High	m³/h	560	600	660		
			Med		500	520	560		
			Low		430	430	450		
			Quiet		310	310	310		
		Heating	High		560	600	660		
			Med		500	520	560		
			Low		430	430	470		
			Quiet		330	330	330		
	Fan type × Q'ty			Cross flow ×1					
	Fan motor output			W	30				
Sound pressure level		Cooling	High	dB(A)	36	37	40		
			Med		32	33	36		
			Low		29	29	30		
			Quiet		21	21	21		
		Heating	High		36	37	40		
			Med		32	33	36		
			Low		29	29	31		
			Quiet		22	22	22		
Heat exchanger	Dimension (H × W × D)		mm	Main: 320 x 630 x 20 Sub: 84 x 630 x 13.3					
	Fin pitch			Main: 1.1, Sub:1.4					
	Rows × Stages			Main: 2 x 20, Sub:1 x 4					
	Pipe type			Copper tube					
	Fin Type			Aluminium					
Enclosure	Material			Polystyrene					
	Colour			WHITE (Approximate colour of MUNSELL N9.25 /)					
Dimensions (H × W × D)	Net		mm	280 × 790 × 203					
	Gross			263 × 840 × 375					
Weight	Net		kg	8					
	Gross			10.5					
Connection pipe	Size	Liquid	mm	Ø6.35 (Ø1/4in.)					
		Gas		Ø9.52 (Ø3/8in.)					
	Method			Flare					
Drain pipe	Material			PP+LLDPE					
	size		mm	Outer Diameter :15.8 to 16.7					
				Inner Diameter :13.8					
Operation range		Cooling	°C	18 to 32					
			%RH	80 or less					
		Heating	°C	16 to 30					
Remote controller type				Wireless [Wired (option)]					

Note : The protective function might work when using it outside the operation range.

Model name				AS*G07LUCA		AS*G09LUCA		AS*G12LUCA		AS*G14LUCA			
Power source				1ø 230V ~ 50Hz									
Available voltage range				198-264V									
Capacity				2.0kW Class		2.5kW Class		3.5kW Class		4.0kW Class			
Input power			W	13		16		19		23			
Running current			A	0.13		0.14		0.17		0.20			
Fan	Airflow rate	Cooling	High	m³/h	570		600		660		710		
			Med		520		550		600		640		
			Low		470		470		530		570		
			Quiet		330		330		330		390		
		Heating	High		570		600		660		710		
			Med		520		550		600		640		
			Low		470		470		530		590		
			Quiet		330		330		330		430		
	Fan type × Q'ty			Cross flow x 1									
	Fan motor output			W	29								
Sound pressure level			Cooling	High	dB(A)	35		36		37		41	
				Med		30		32		34		36	
				Low		28		28		31		33	
				Quiet		21		21		21		25	
			Heating	High		35		36		37		41	
				Med		30		32		34		36	
				Low		28		28		31		34	
				Quiet		21		21		21		27	
Heat exchanger	Dimensions (H × W × D)		mm	Main: 320 x 690 x 20 Sub: 84 x 690 x 13.3									
	Fin pitch			Main: 1.1 , Sub: 1.4									
	Rows x Stages			Main: 2 x 20 , Sub: 1 x 4									
	Pipe type			Copper tube									
	Fin type			Aluminium									
Enclosure	Material			Polystyrene									
	Colour			WHITE (Approximate colour of MUNSELL N9.3/)									
Dimensions (H × W × D)	Net		mm	282 x 870 x 185									
	Gross			247 x 920 x 373									
Weight	Net		kg	9.5									
	Gross			12									
Connection pipe	Size	Liquid	mm	Ø6.35 (Ø1/4in)									
		Gas		Ø9.52 (Ø3/8in)						Ø12.7 (Ø1/2in)			
	Method			Flare									
Drain pipe	Material			PP + LLDPE									
	Size		mm	Outer Diameter: 15.8 to 16.7									
				Inner Diameter: 13.8									
Operation range		Cooling	°C	18 to 32									
			%RH	80 or less									
		Heating	°C	16 to 30									
Remote controller type				Wireless [Wired(option)]									

Note : The protective function might work when using it outside the operation range.

3-4. WALL MOUNTED TYPE

Model name					AS*G18LFCA		AS*G24LFCA		
Power source					1ø 230V ~ 50Hz				
Available voltage range					198-264V				
Capacity					5.0kW Class		7.0kW Class		
Input power				W	37		69		
Running current				A	0.33		0.53		
Fan	Airflow rate	Cooling	High	m³/h	900		1120		
			Med		740		900		
			Low		620		740		
			Quiet		550		620		
		Heating	High		900		1100		
			Med		740		900		
			Low		620		740		
			Quiet		550		620		
	Fan type × Q'ty			Cross flow × 1					
	Fan motor output			W	40		64		
	Sound pressure level		Cooling	High	dB(A)	43		49	
Med				37		42			
Low				33		37			
Quiet				26		33			
Heating			High	42		48			
			Med	37		42			
			Low	33		37			
			Quiet	25		33			
Heat exchanger	Dimension (H × W × D)			mm	Main: 378 x 832 x 26.6 Sub: 84 x 832 x 13.3				
	Fin pitch				Main:1.2, Sub:1.4				
	Rows × Stages			Main: 2 x 18, Sub: 1 x 4		Main: 2 x 18, Sub: 1 x 4 + 1 x 4			
	Pipe type			Copper tube					
	Fin Type			Aluminium					
Enclosure	Material			Polystyrene					
	Colour			WHITE (Approximate colour of MUNSELL N9.25 /)					
Dimensions (H × W × D)	Net			mm	320 × 998 × 238				
	Gross				329 × 1090 × 420				
Weight	Net			kg	14				
	Gross				18				
Connection pipe	Size	Liquid	mm	Ø6.35 (Ø1/4in.)					
		Gas		Ø12.70 (Ø1/2in.)		Ø15.88 (Ø5/8in.)			
	Method			Flare					
Drain pipe	Material			PVC					
	size			mm	Outer diameter: 16				
					Inner diameter: 12				
Operation range		Cooling	°C	18 to 32					
			%RH	80 or less					
		Heating	°C	16 to 30					
Remote controller type					Wireless [Wired (option)]				

Note : The protective function might work when using it outside the operation range.

3-5. FLOOR / CEILING TYPE

Model name				AB*G14LVTA		AB*G18LVTA AB*G18LVTB		
Power source				1ø 230V ~ 50Hz				
Available voltage range				198-264V				
Capacity				4.0kW Class		5.0kW Class		
Input power			W	26		47		
Running current			A	0.21		0.36		
Fan	Airflow rate	Cooling	High	m³/h	640		780	
			Med		590		700	
			Low		540		560	
			Quiet		480		500	
		Heating	High		640		780	
			Med		590		700	
			Low		540		560	
			Quiet		480		500	
	Fan type × Q'ty			Sirocco x 2				
	Fan motor output			W	80			
Sound pressure level		Cooling	High	dB(A)	36 (Under ceiling) 39 (Floor console)		41 (Under ceiling) 44 (Floor console)	
			Med		34 (Under ceiling) 37 (Floor console)		38 (Under ceiling) 41 (Floor console)	
			Low		33 (Under ceiling) 36 (Floor console)		34 (Under ceiling) 37 (Floor console)	
			Quiet		29 (Under ceiling) 32 (Floor console)		32 (Under ceiling) 35 (Floor console)	
		Heating	High		36 (Under ceiling) 39 (Floor console)		41 (Under ceiling) 44 (Floor console)	
			Med		34 (Under ceiling) 37 (Floor console)		38 (Under ceiling) 41 (Floor console)	
			Low		33 (Under ceiling) 36 (Floor console)		34 (Under ceiling) 37 (Floor console)	
			Quiet		29 (Under ceiling) 32 (Floor console)		32 (Under ceiling) 35 (Floor console)	
Heat exchanger	Dimension (H × W × D)		mm	252 × 800 × 26.6		252 × 800 × 39.9		
	Fin pitch			1.2		1.3		
	Rows × Stages			2 × 12		3 × 12		
	Pipe type			Copper tube				
	Fin Type			Aluminium				
Enclosure	Material			ABS				
	Colour			WHITE (Approximate colour of MUNSELL N9.25 /)				
Dimensions (H × W × D)	Net		mm	199 × 990 × 655				
	Gross			320 × 1150 × 790				
Weight	Net		kg	27				
	Gross			36				
Connection pipe	Size	Liquid	mm	Ø6.35 (Ø1/4in.)				
		Gas		Ø12.70 (Ø1/2in.)				
	Method			Flare				
Drain pipe	Material			Hard PVC				
	size		mm	Outer diameter: 32				
				Inner diameter: 25				
Operation range		Cooling	°C	18 to 32				
			%RH	80 or less				
		Heating	°C	16 to 30				
Remote controller type				Wireless [Wired (option)]				

Note : The protective function might work when using it outside the operation range.

3-6.FLOOR TYPE

Model name				AG*G09LVCA		AG*G12LVCA		AG*G14LVCA	
Power source				1ø 230V ~ 50Hz					
Available voltage range				198-264V					
Capacity				2.5kW Class		3.5kW Class		4.0kW Class	
Input power			W	16		20		23	
Running current			A	0.15		0.18		0.20	
Fan	Airflow rate	Cooling	High	m³/h	530	600	650		
			Med		440	490	520		
			Low		360	380	400		
			Quiet		270	270	270		
		Heating	High		530	600	650		
			Med		460	510	540		
			Low		380	410	430		
			Quiet		270	270	270		
	Fan type × Q'ty			Cross flow x 2					
	Fan motor output			W	42				
Sound pressure level		Cooling	High	dB(A)	39	42	44		
			Med		34	36	38		
			Low		28	30	31		
			Quiet		22	22	22		
		Heating	High		39	42	44		
			Med		35	38	39		
			Low		30	32	33		
			Quiet		22	22	22		
Heat exchanger	Dimension (H × W × D)		mm	378 × 550 × 26.6					
	Fin pitch			1.2					
	Rows × Stages			2 x 18					
	Pipe type			Copper tube					
	Fin Type			Aluminium					
Enclosure	Material			Polystyrene					
	Colour			WHITE (Approximate colour of MUNSELL N9.25 /)					
Dimensions (H × W × D)	Net		mm	600 × 740 × 200					
	Gross			700 × 820 × 310					
Weight	Net		kg	14					
	Gross			17					
Connection pipe	Size	Liquid	mm	Ø6.35 (Ø1/4in.)					
		Gas		Ø9.52 (Ø3/8in.)			Ø12.70 (Ø1/2in.)		
	Method			Flare					
Drain pipe	Material			PVC					
	size		mm	Outer Diameter: 16.7					
				Inner Diameter: 13.8					
Operation range		Cooling	°C	18 to 32					
			%RH	80 or less					
		Heating	°C	16 to 30					
Remote controller type				Wireless [Wired (option)]					

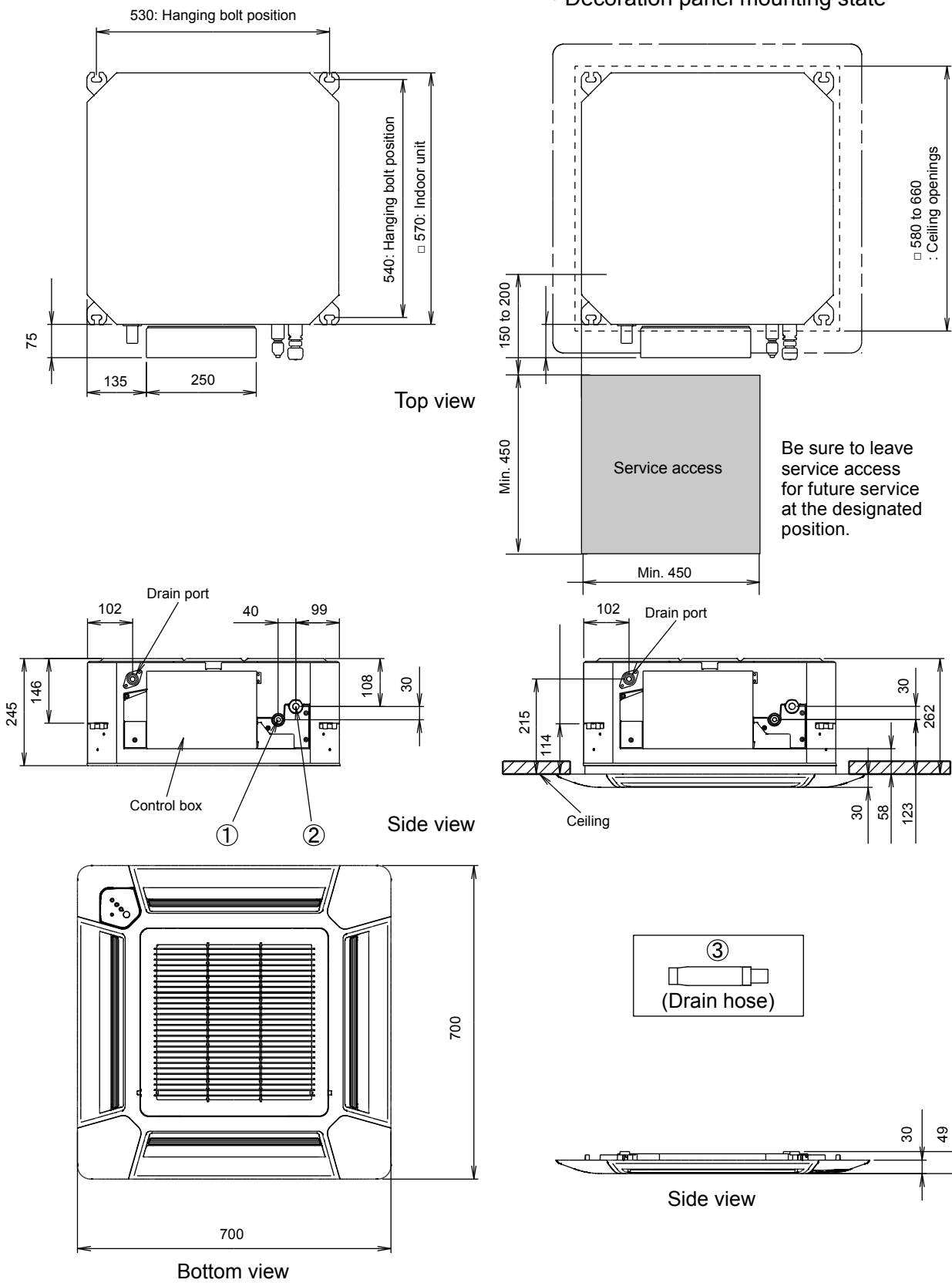
Note : The protective function might work when using it outside the operation range.

4. DIMENSIONS

4-1. COMPACT CASSETTE TYPE

■ MODELS : AU*G07LVLA, AU*G09LVLA, AU*G12LVLA,
AU*G14LVLA, AU*G18LVLA,
AU*G12LVLB, AU*G14LVLB, AU*G18LVLB

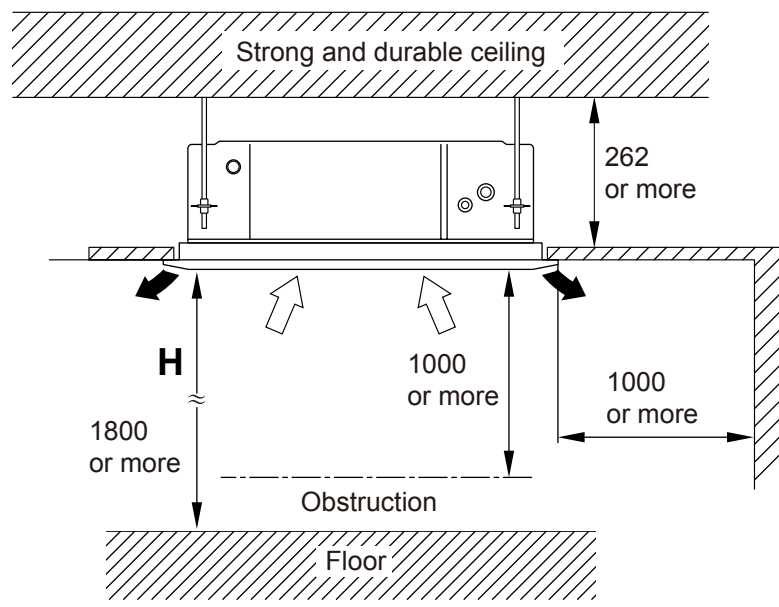
• Decoration panel mounting state Unit : mm



			AU*G07L, AU*G09L, AU*G12L	AU*G14L, AU*G18L
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)	ø 6.35 mm (ø 1/4 in.)
②		Gas	ø 9.52 mm (ø 3/8 in.)	ø 12.70 mm (ø 1/2 in.)
③	Drain hose connection	Drain hose	O.D. 32mm (VP25)	

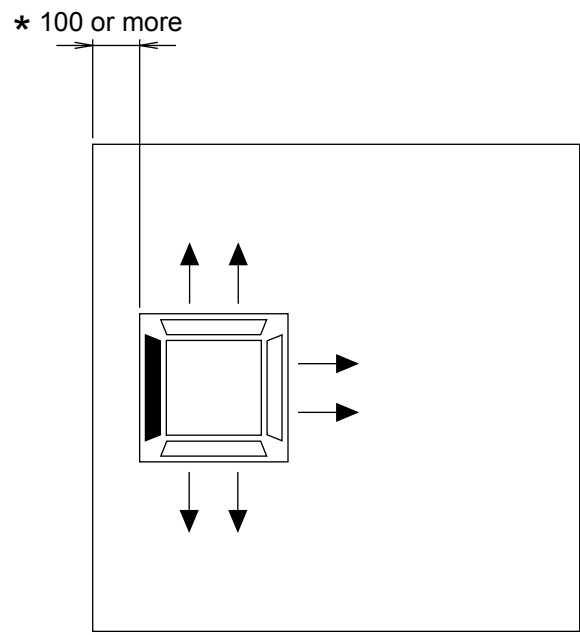
■ INSTALLATION PLACE

Unit : mm



	H (The maximum height from floor to ceiling) Unit: mm				
Model name	AU*G07	AU*G09	AU*G12	AU*G14	AU*G18
Standard mode	2700	2700	2700	2700	2700
High Ceiling mode	-	-	3000	3000	3000

● 3-way directions setting



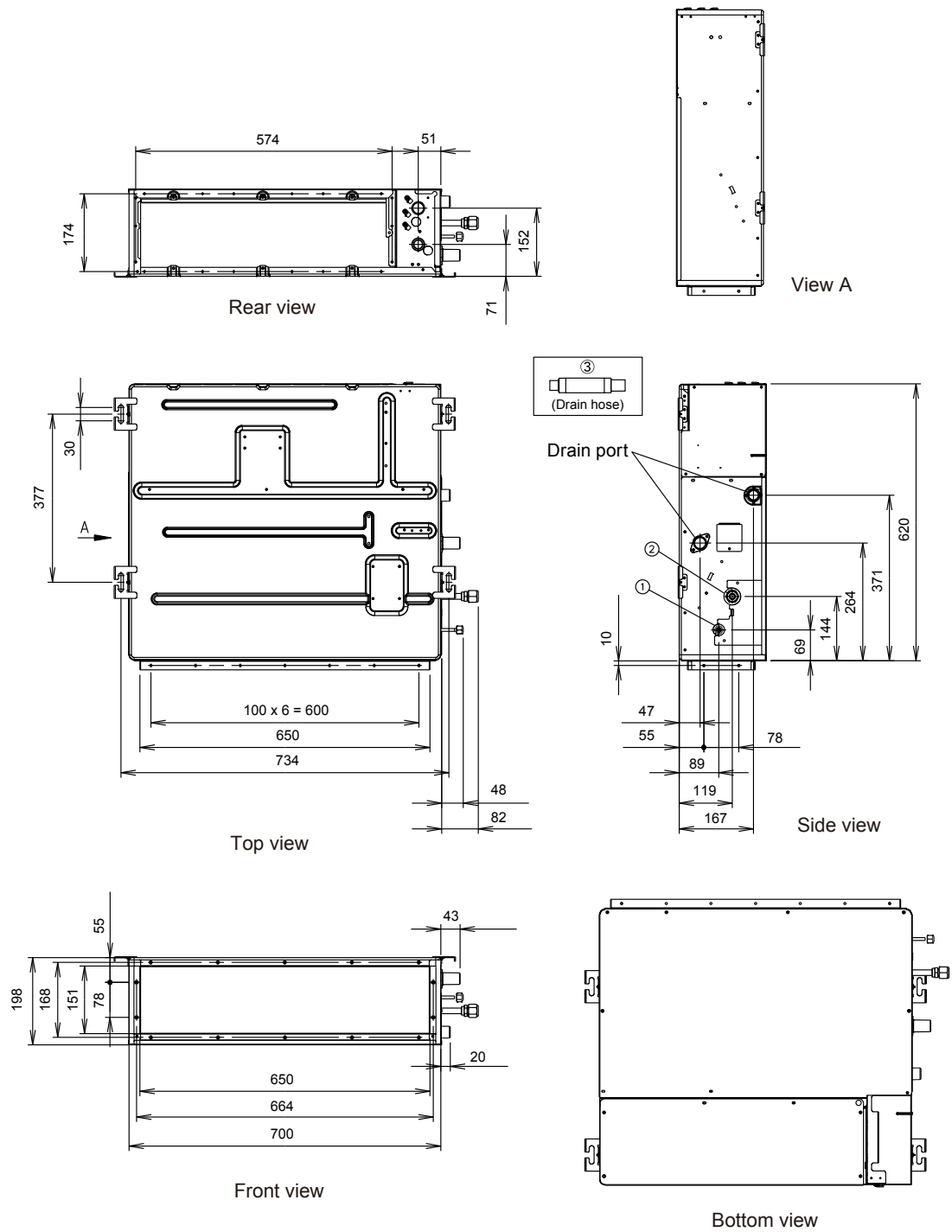
To set “3-way directions”, the air outlet shutter plate (UTR-YDZB) sold separately must be installed and “outlet-direction” switched to “3-way” by remote controller.

*When installing the indoor unit, be careful about the maintenance space.

4-2. SLIM DUCT TYPE

■ MODELS : AR*G07LLTA, AR*G09LLTA, AR*G12LLTA,
AR*G14LLTA,
AR*G12LLTB, AR*G14LLTB

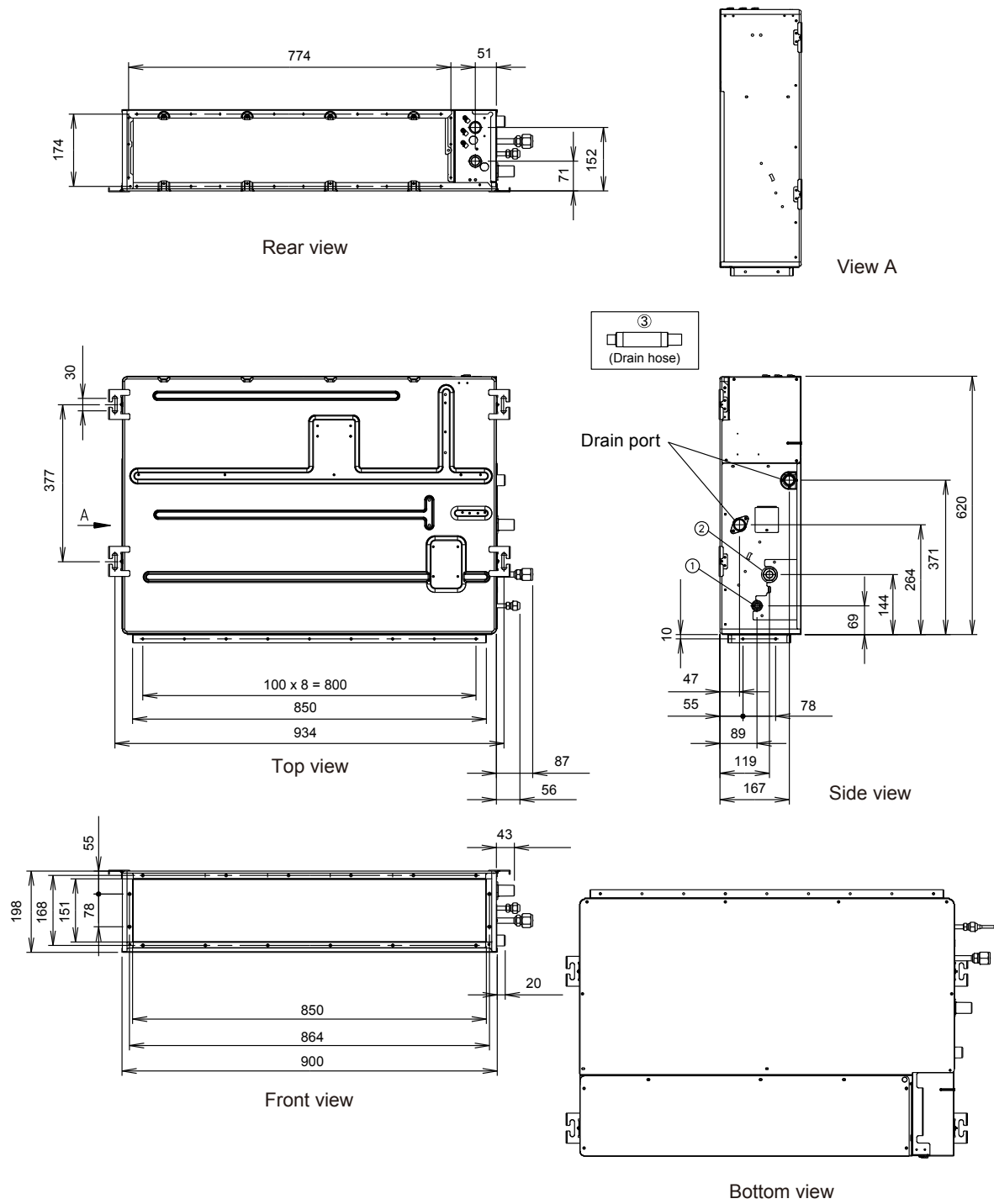
Unit : mm



			AR*G07L, AR*G09L, AR*G12L	AR*G14L
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)	
②		Gas	ø 9.52 mm (ø 3/8 in.)	ø 12.70 mm (ø 1/2 in.)
③	Drain hose connection	Drain hose	O.D. 32mm (VP25)	

■ MODEL : AR*G18LLTA,
AR*G18LLTB

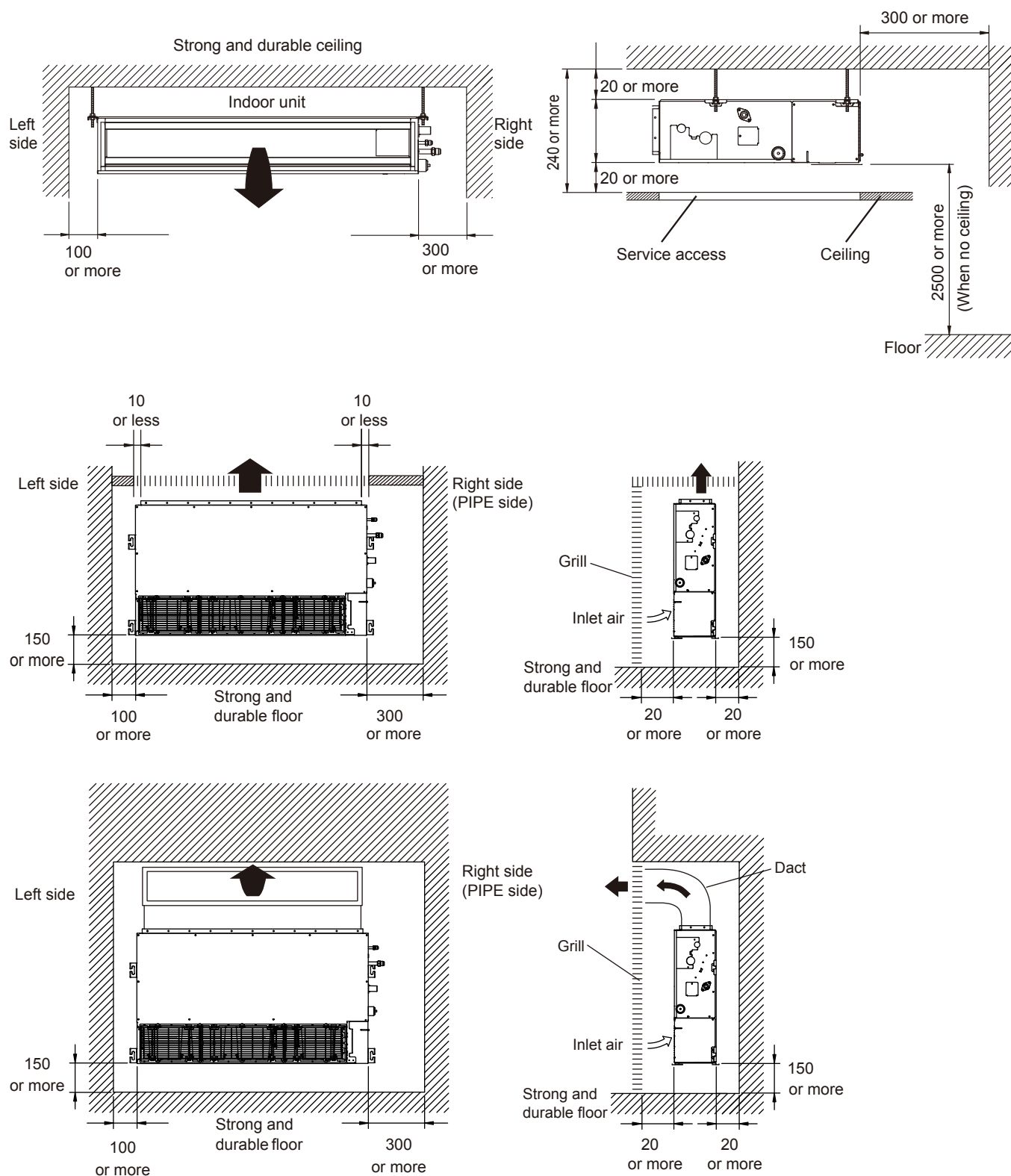
Unit : mm



			AR*G18L
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)
②		Gas	ø 12.70 mm (ø 1/2 in.)
③	Drain hose connection	Drain hose	O.D. 32mm (VP25)

Unit : mm

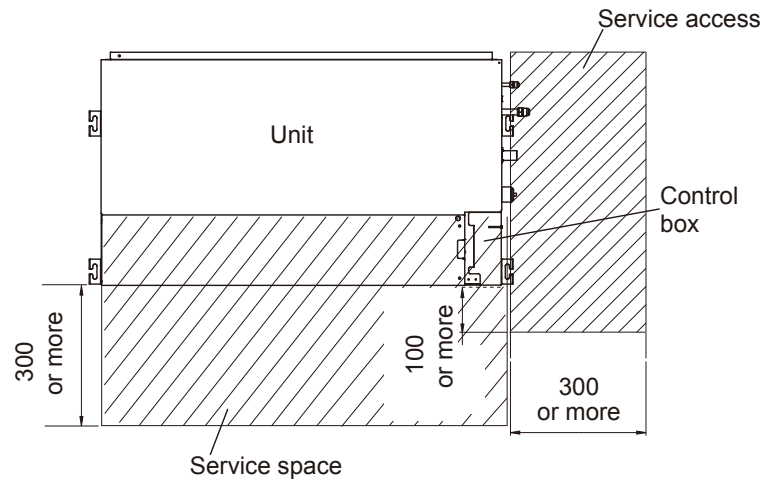
■ INSTALLATION PLACE



Unit : mm

MAINTENANCE SPACE

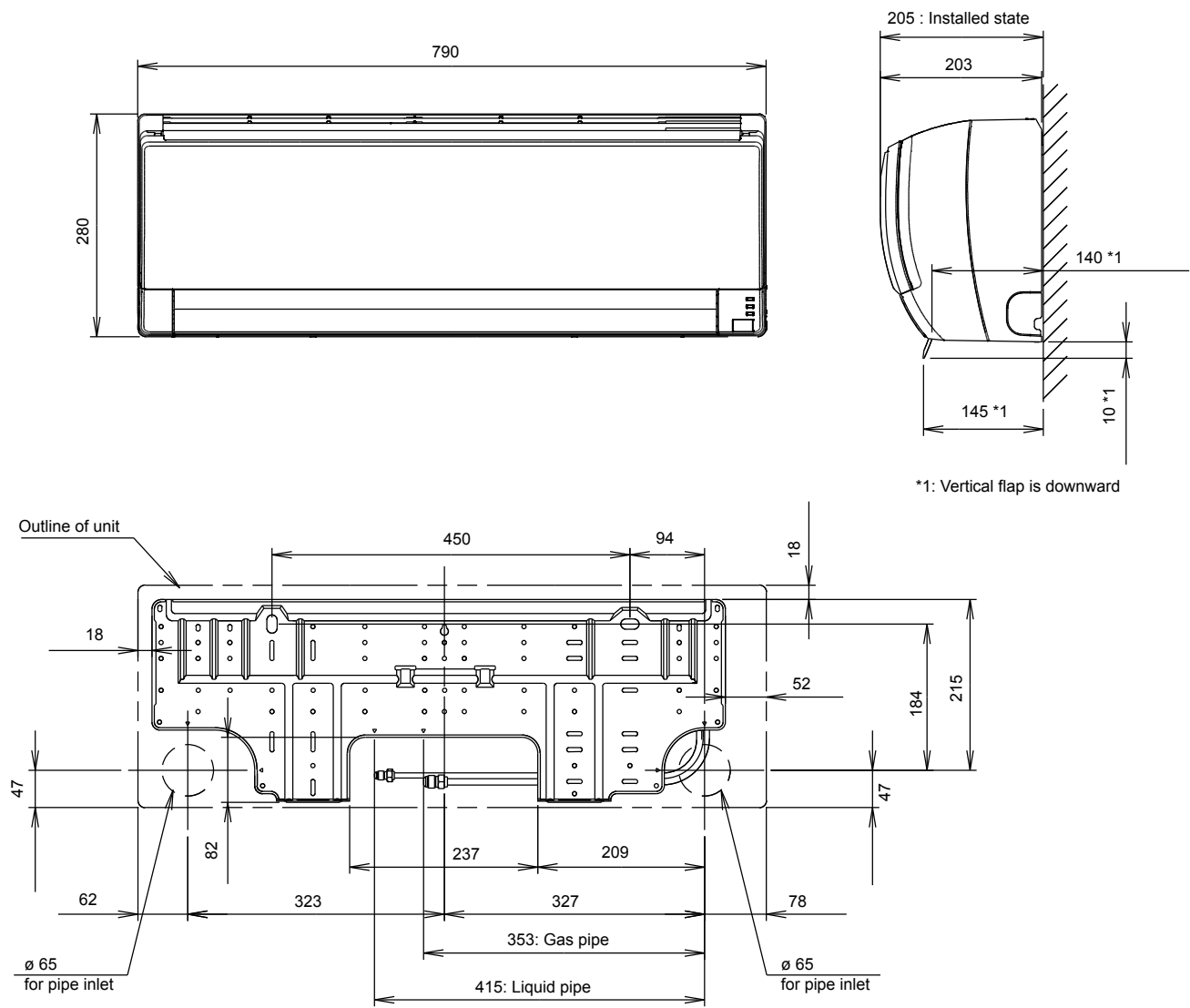
Provide a service access for inspection purposes as shown below.
Do not place any wiring or illumination in the service space, as they will impede service.



4-3. COMPACT WALL MOUNTED TYPE

■ MODELS : AS*G07LJCA, AS*G09LJCA, AS*G12LJCA

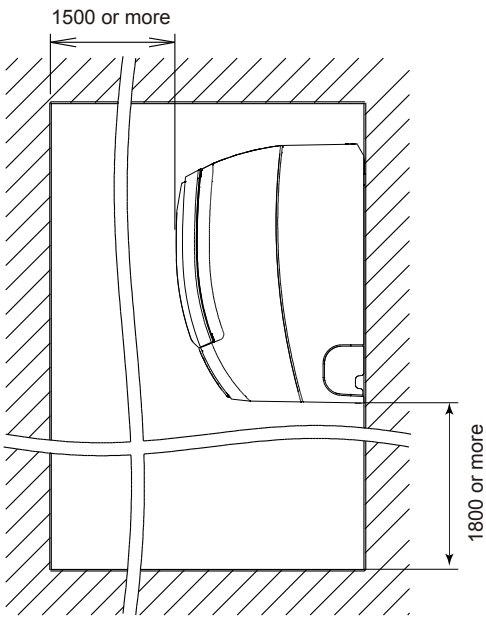
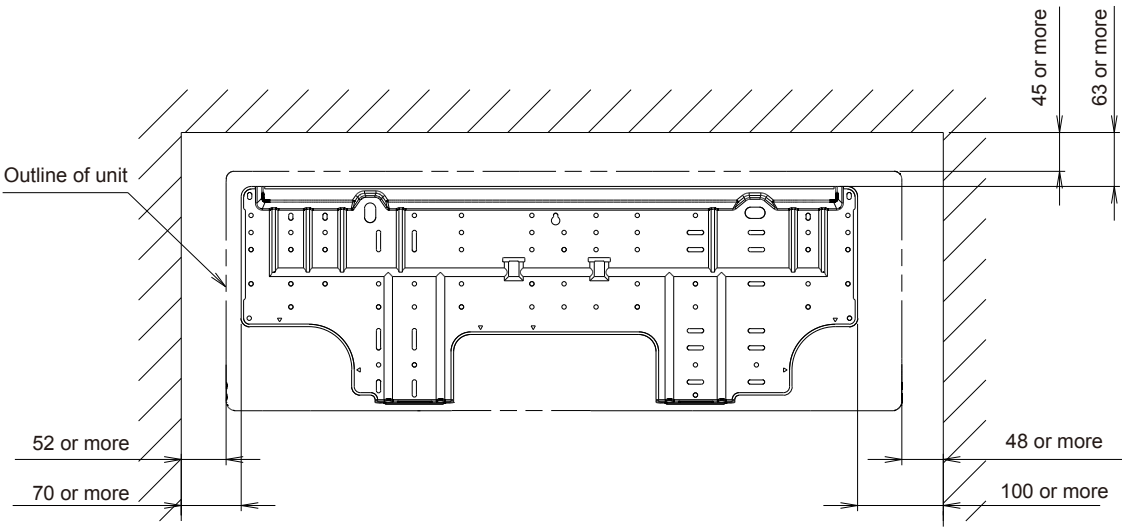
Unit : mm



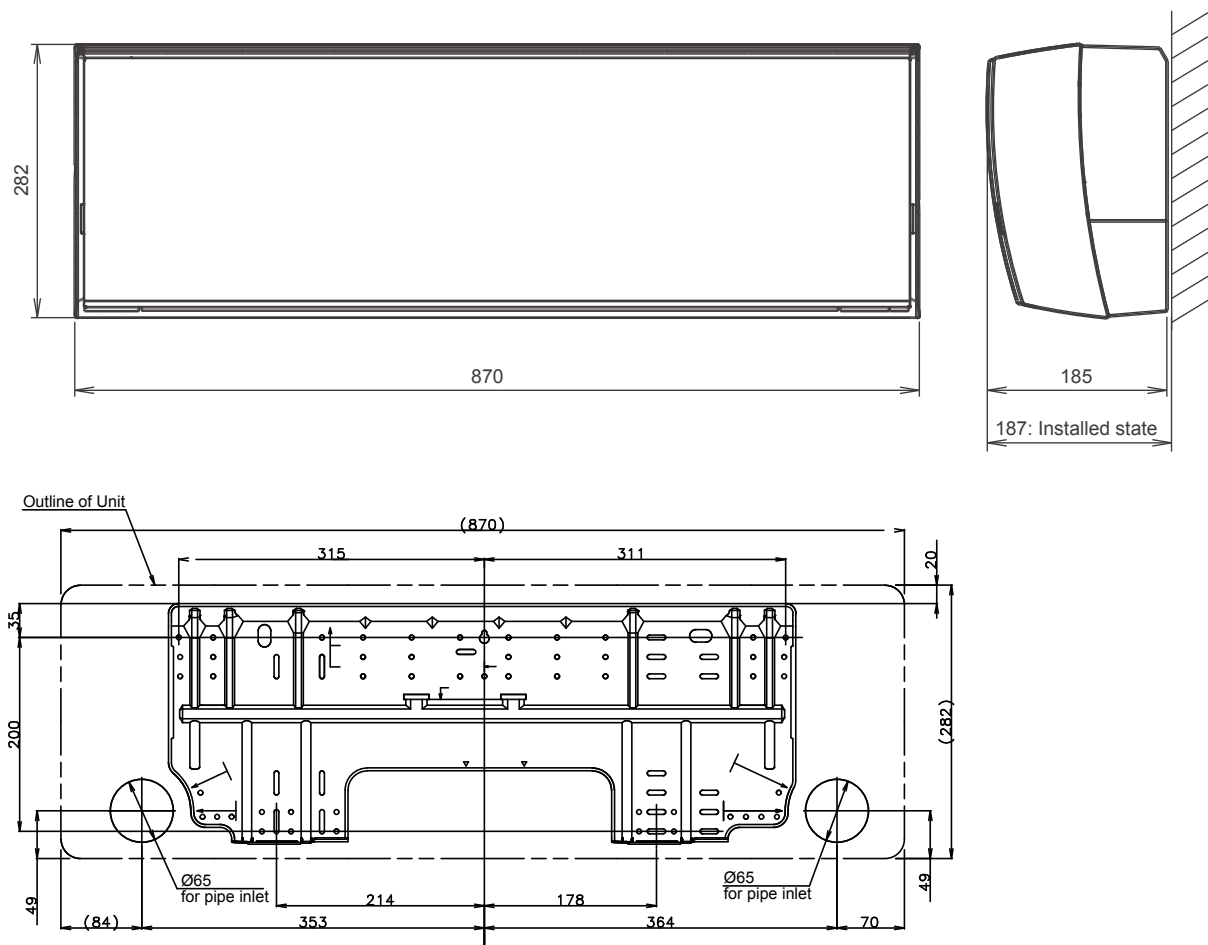
			AS*G07L, AS*G09L, AS*G12L
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)
②		Gas	ø 9.52 mm (ø 3/8 in.)
③	Drain hose connection	Drain hose	I.D. 13.8 mm, O.D. 15.8 to 16.7 mm Drain hose : L=520mm

■ INSTALLATION PLACE

Unit : mm

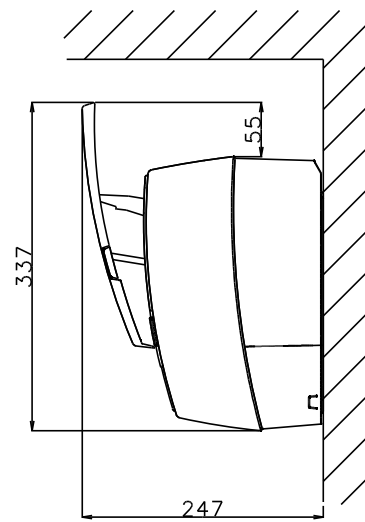
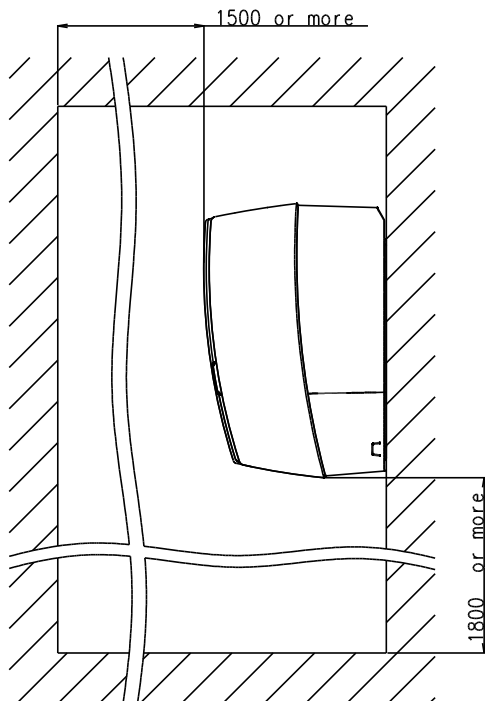
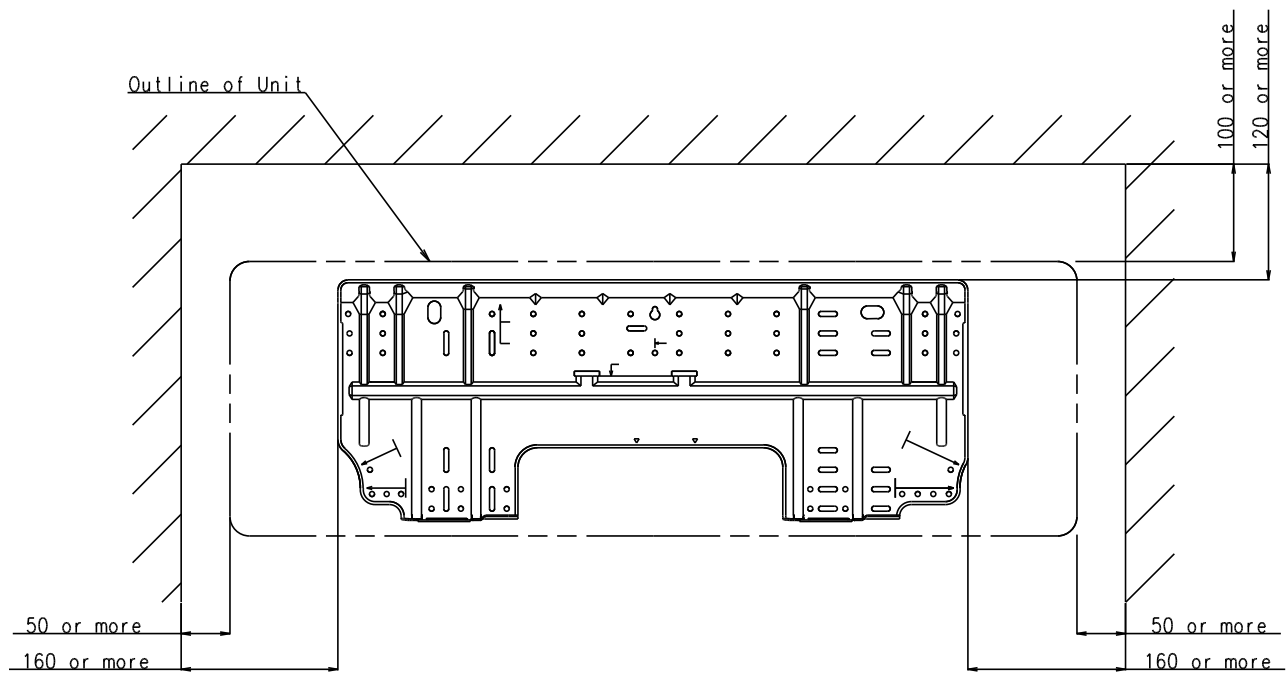


■ MODELS : AS*G07LUCA, AS*G09LUCA, AS*G12LUCA,
AS*G14LUCA



			AS*G07LU, AS*G09LU, AS*G12LU	AS*G14LU
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)	ø 6.35 mm (ø 1/4 in.)
②		Gas	ø 9.52 mm (ø 3/8 in.)	ø 12.70 mm (ø 1/2 in.)
③	Drain hose connection	Drain hose	I.D. 13.8 mm, O.D. 15.8 to 16.7 mm Drain hose : L=520mm	

■ INSTALLATION PLACE

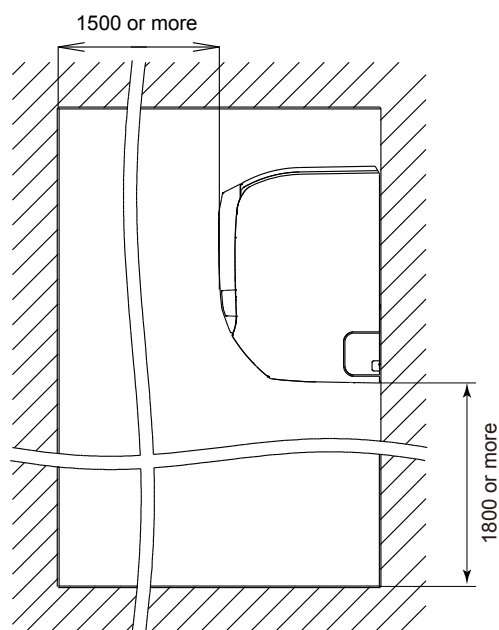
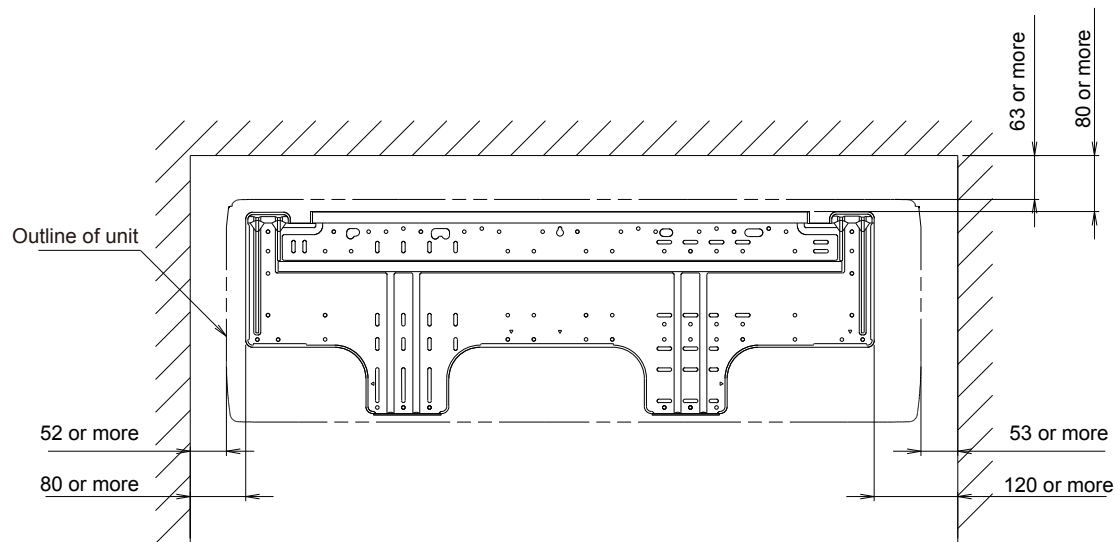


■ MODELS : AS*G18LFCA, AS*G24LFCA

			AS*G18L	AS*G24L
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)	ø 6.35 mm (ø 1/4 in.)
②		Gas	ø 12.70 mm (ø 1/2 in.)	ø 15.88 mm (ø 5/8 in.)
③	Drain hose connection	Drain hose	I.D. 12 mm , O.D. 16 mm Drain hose : L=670mm	

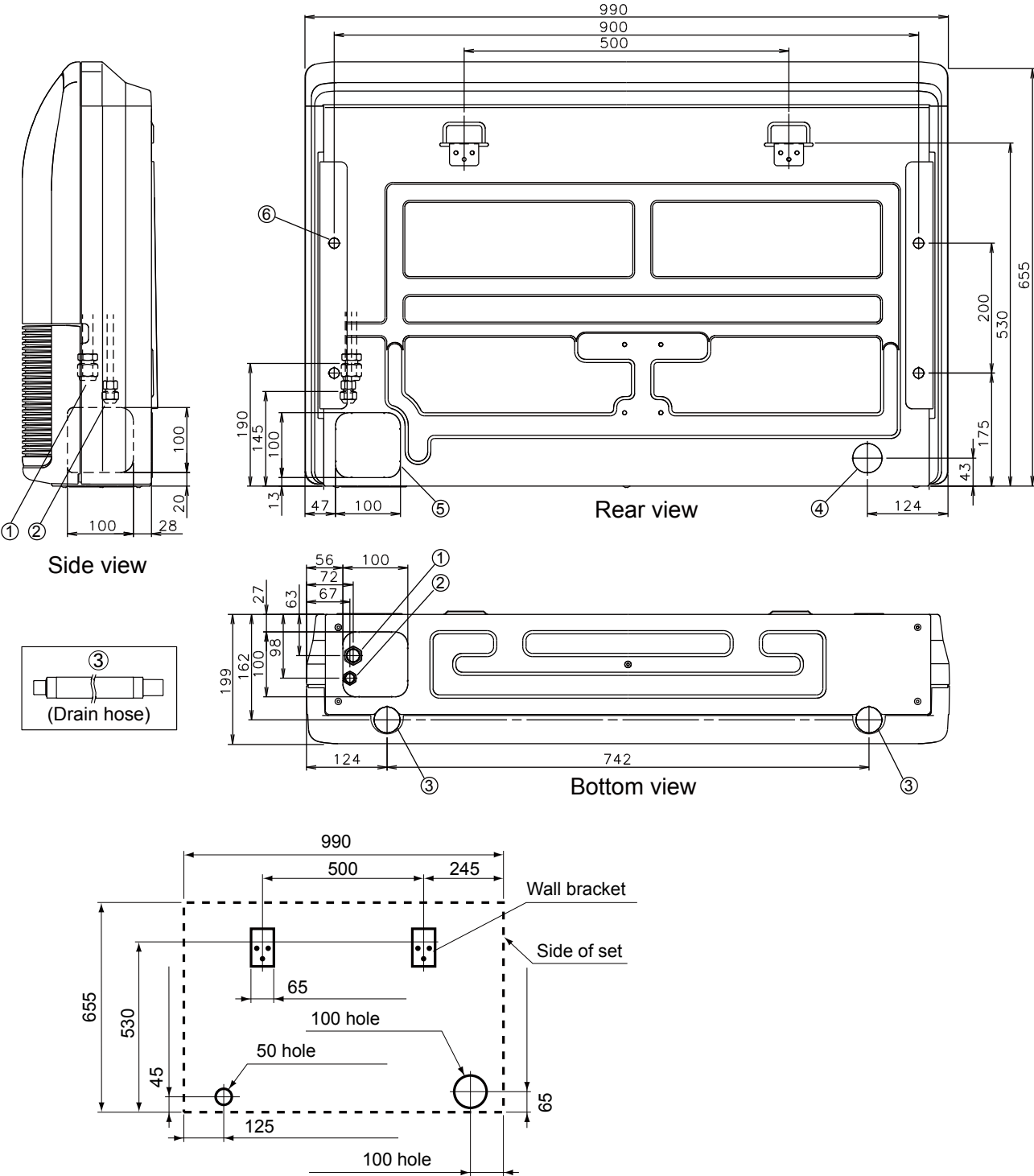
■ INSTALLATION PLACE

Unit : mm



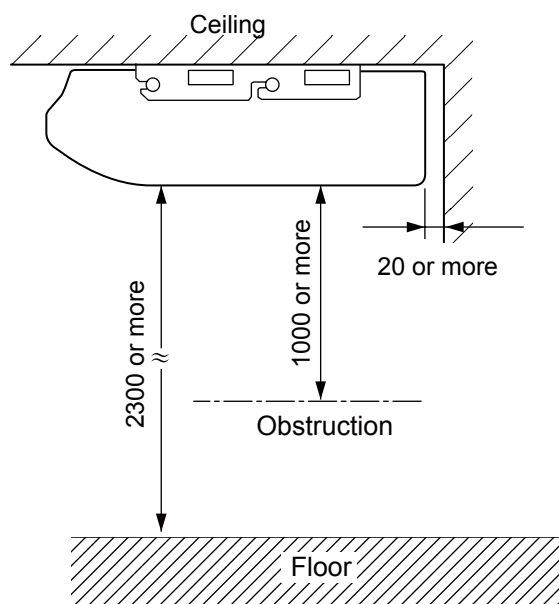
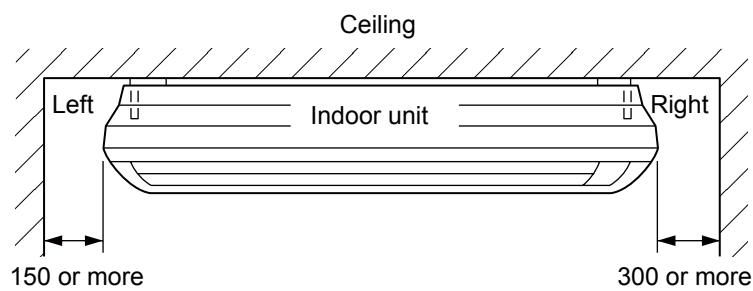
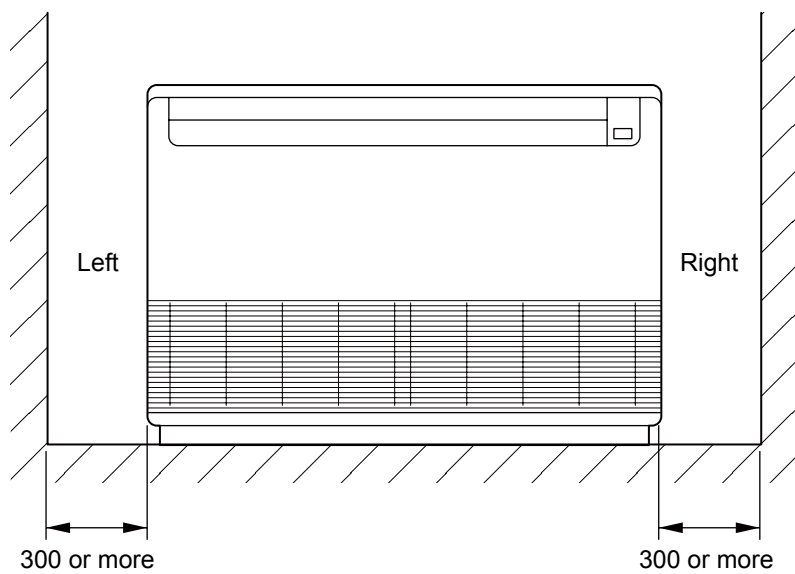
4-5. FLOOR / CEILING TYPE

■ MODELS : AB*G14LVTA, AB*G18LVTA,
AB*G18LVTB



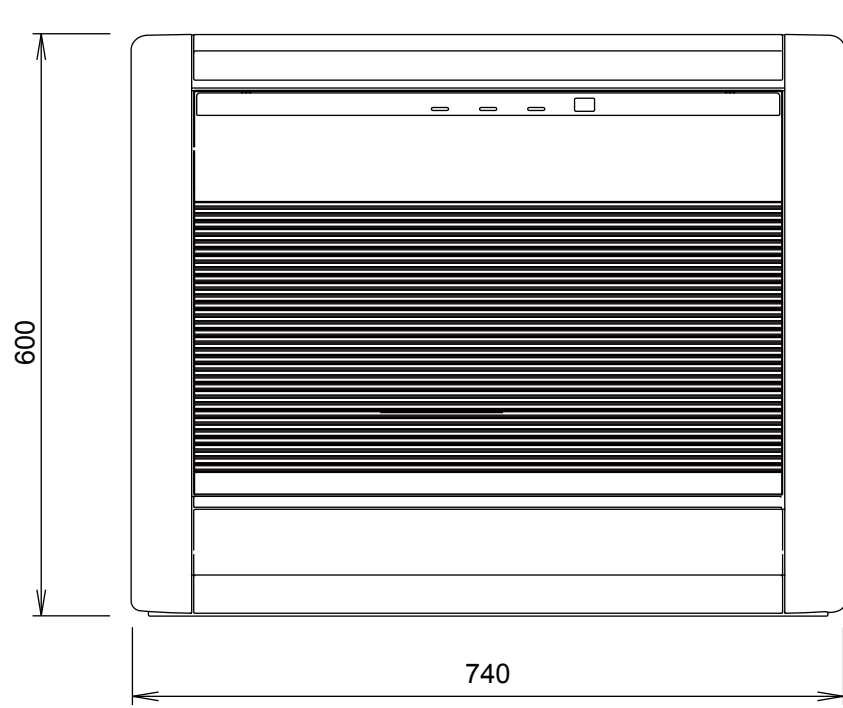
			AB*G14L, AB*G18L
①	Refrigerant pipe flare connection	Liquid	ø 6.35 mm (ø 1/4 in.)
②		Gas	ø 12.70 mm (ø 1/2 in.)
③	Drain hose connection	Drain hose	O.D. 32 mm (VP25)
④	Knock out hole	Drain outlet	ø 45 mm
⑤		-	-
⑥	Hole for lifting bolt	-	Use M10 screw bolt

■ INSTALLATION PLACE

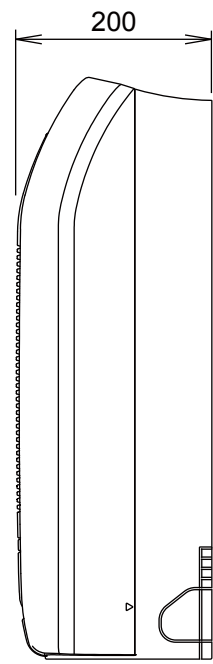


4-6.FLOOR TYPE

■ MODELS : AG*G09LVCA, AG*G12LVCA, AG*G14LVCA

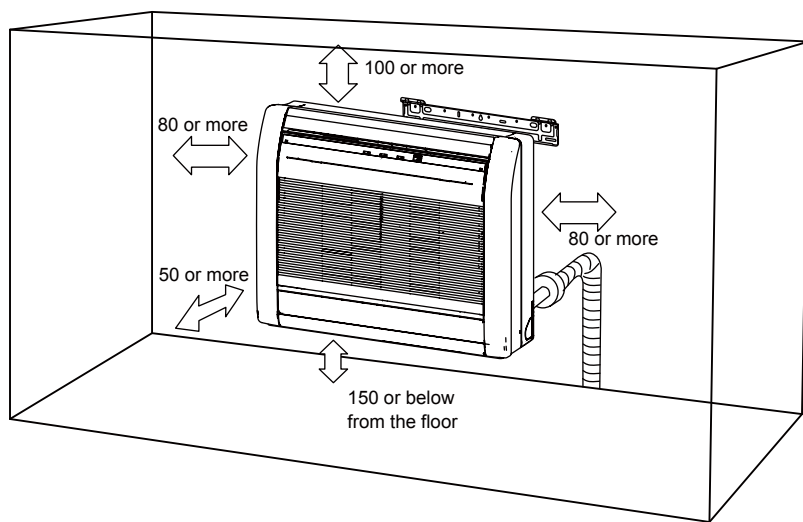


Front view



Side view

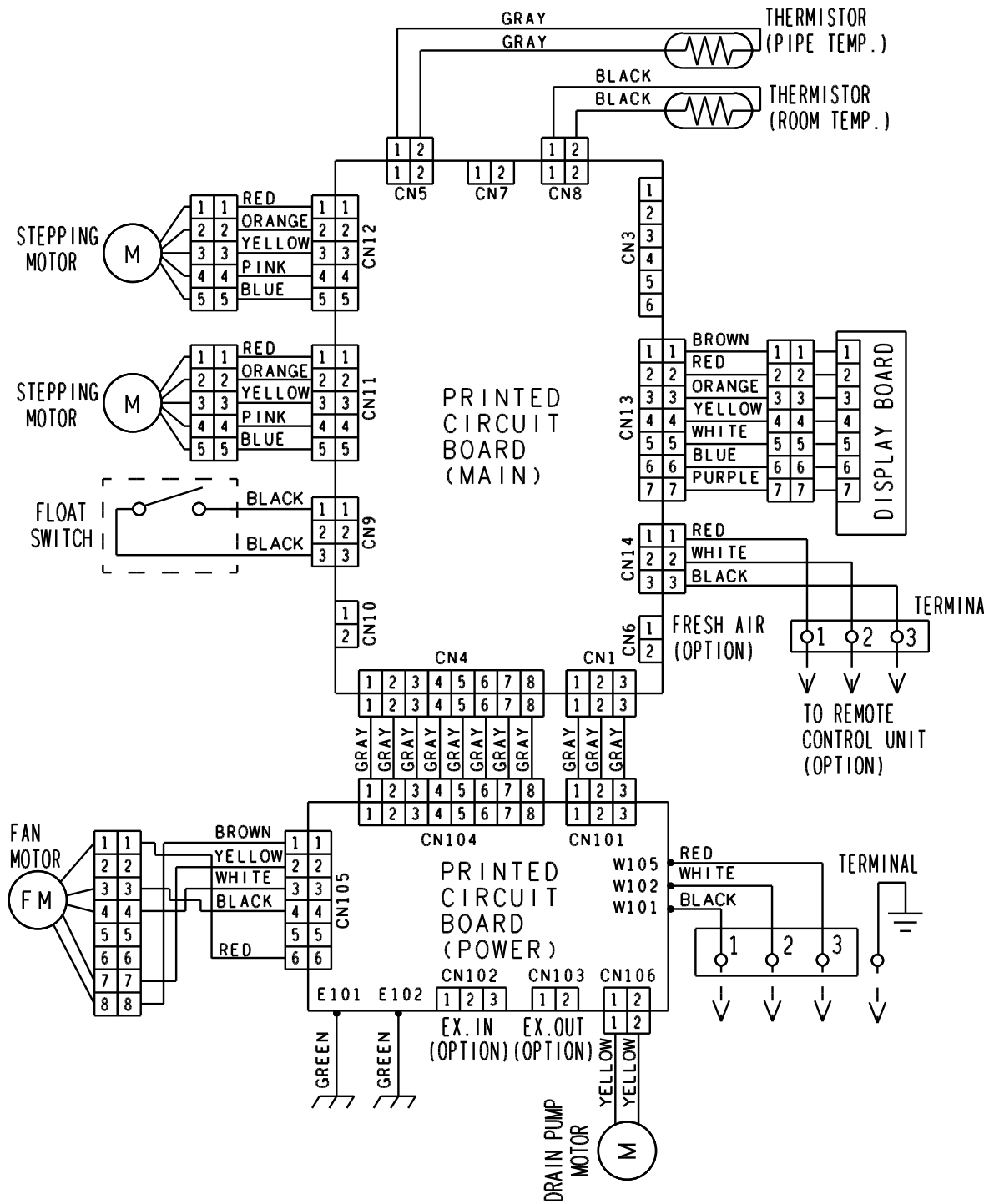
■ INSTALLATION PLACE



5. WIRING DIAGRAMS

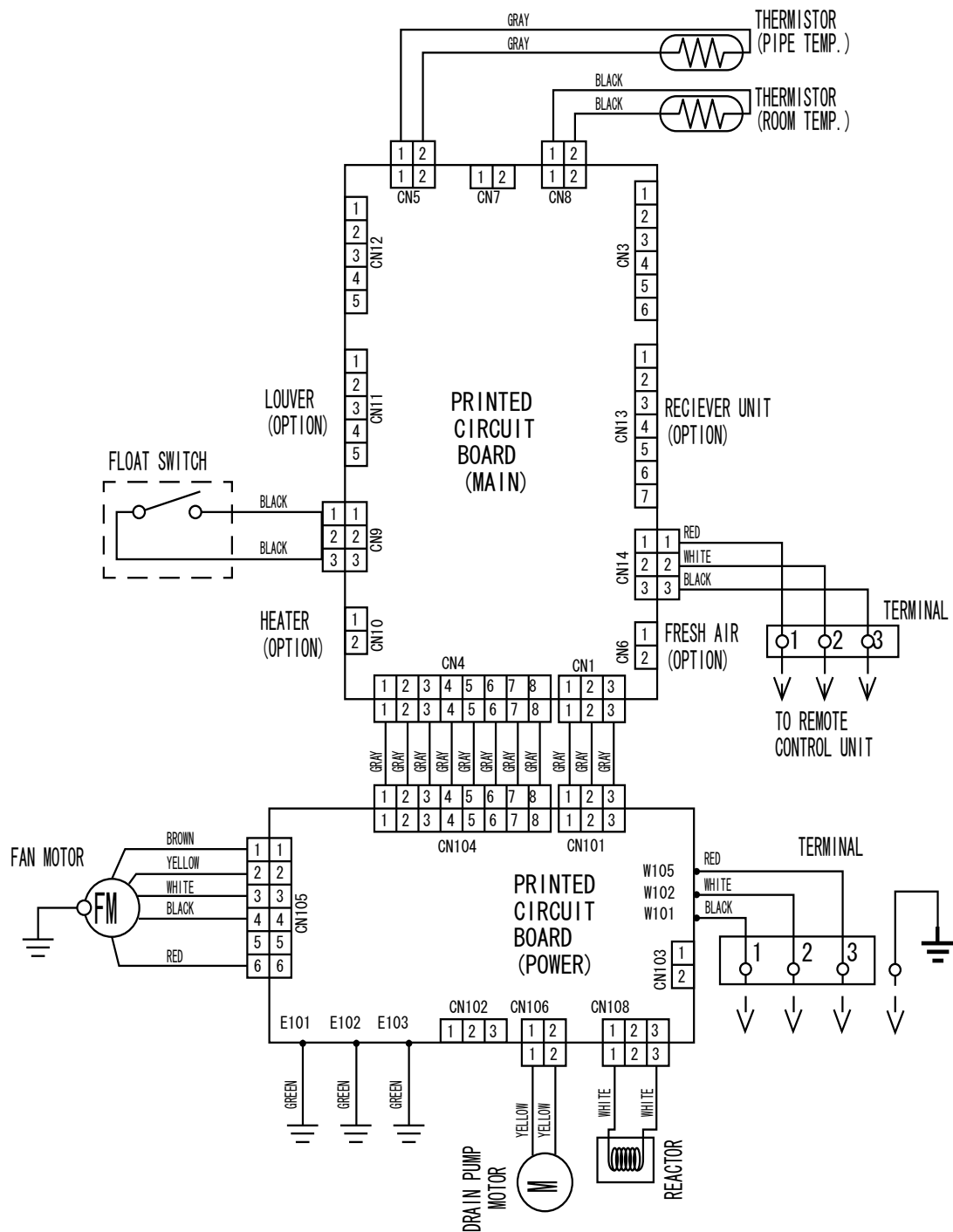
5-1. COMPACT CASSETTE TYPE

■ MODELS : AU*G07LVLA, AU*G09LVLA, AU*G12LVLA,
AU*G14LVLA, AU*G18LVLA,
AU*G12LVLB, AU*G14LVLB, AU*G18LVLB



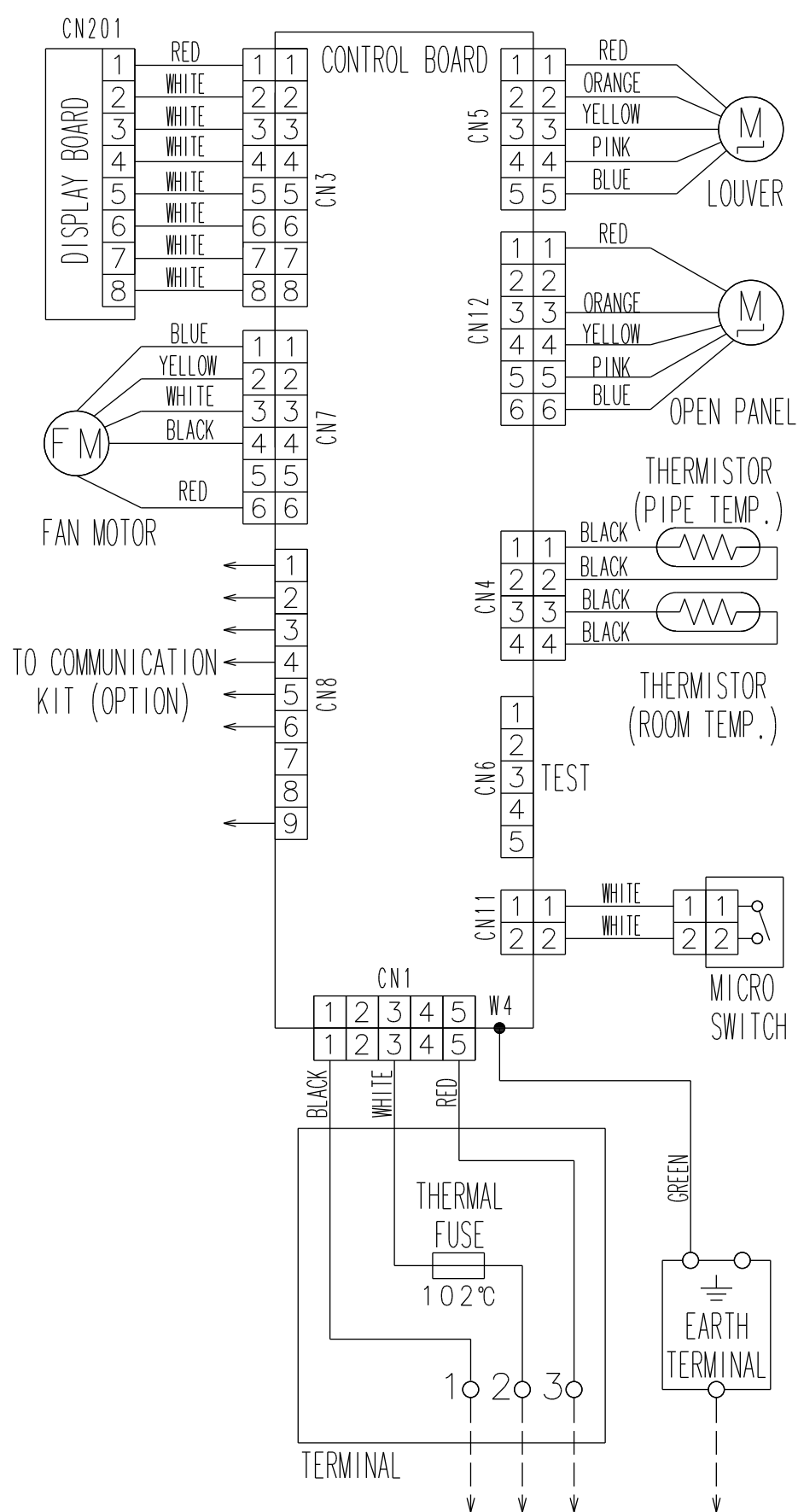
5-2. SLIM DUCT TYPE

■ MODELS : AR*G07LLTA, AR*G09LLTA, AR*G12LLTA,
AR*G14LLTA, AR*G18LLTA,
AR*G12LLTB, AR*G14LLTB, AR*G18LLTB



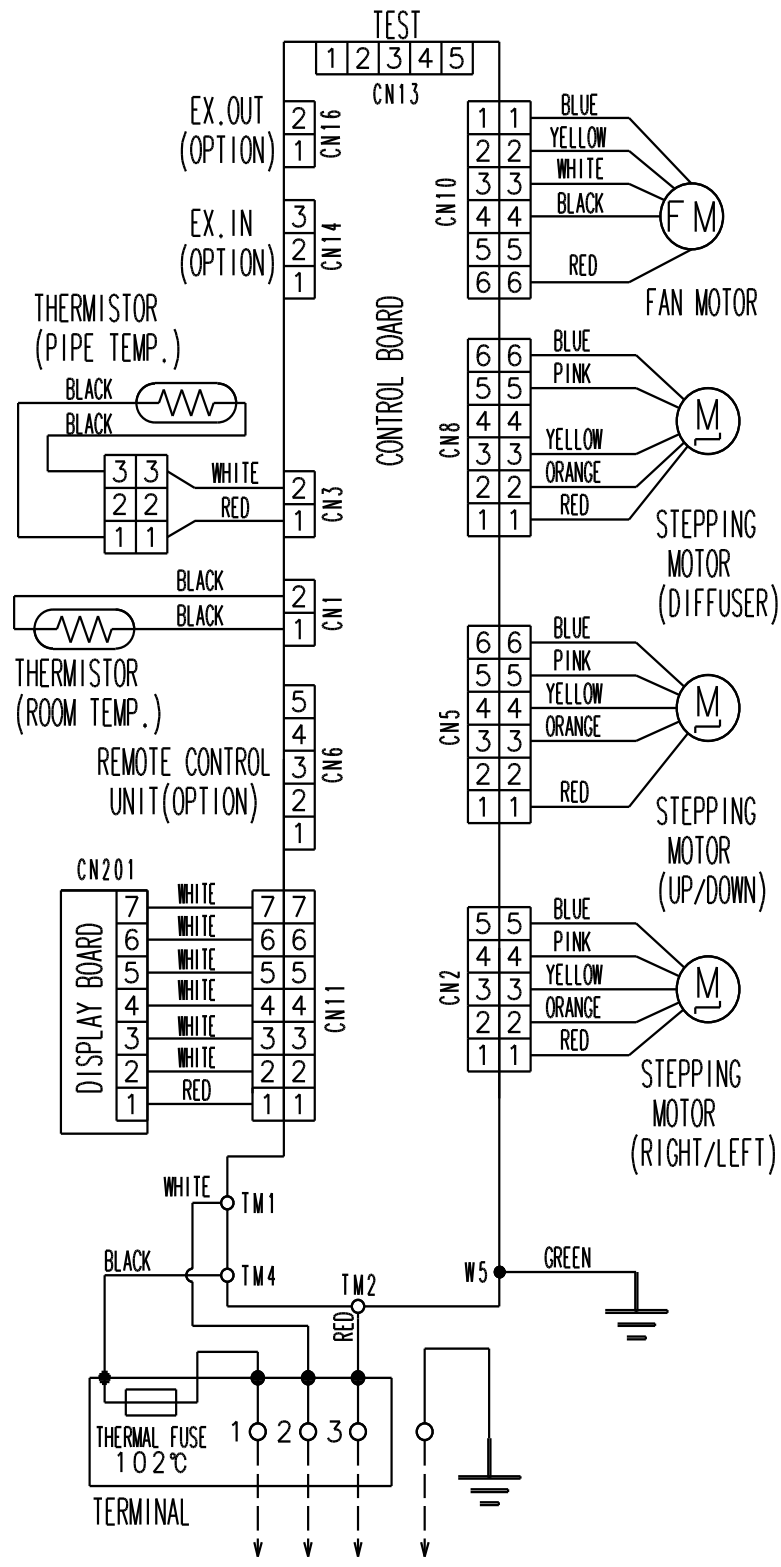
■ MODELS : AS*G07LJCA, AS*G09LJCA, AS*G12LJCA

■ MODELS : AS*G07LUCA, AS*G09LUCA, AS*G12LUCA, AS*G14LUCA



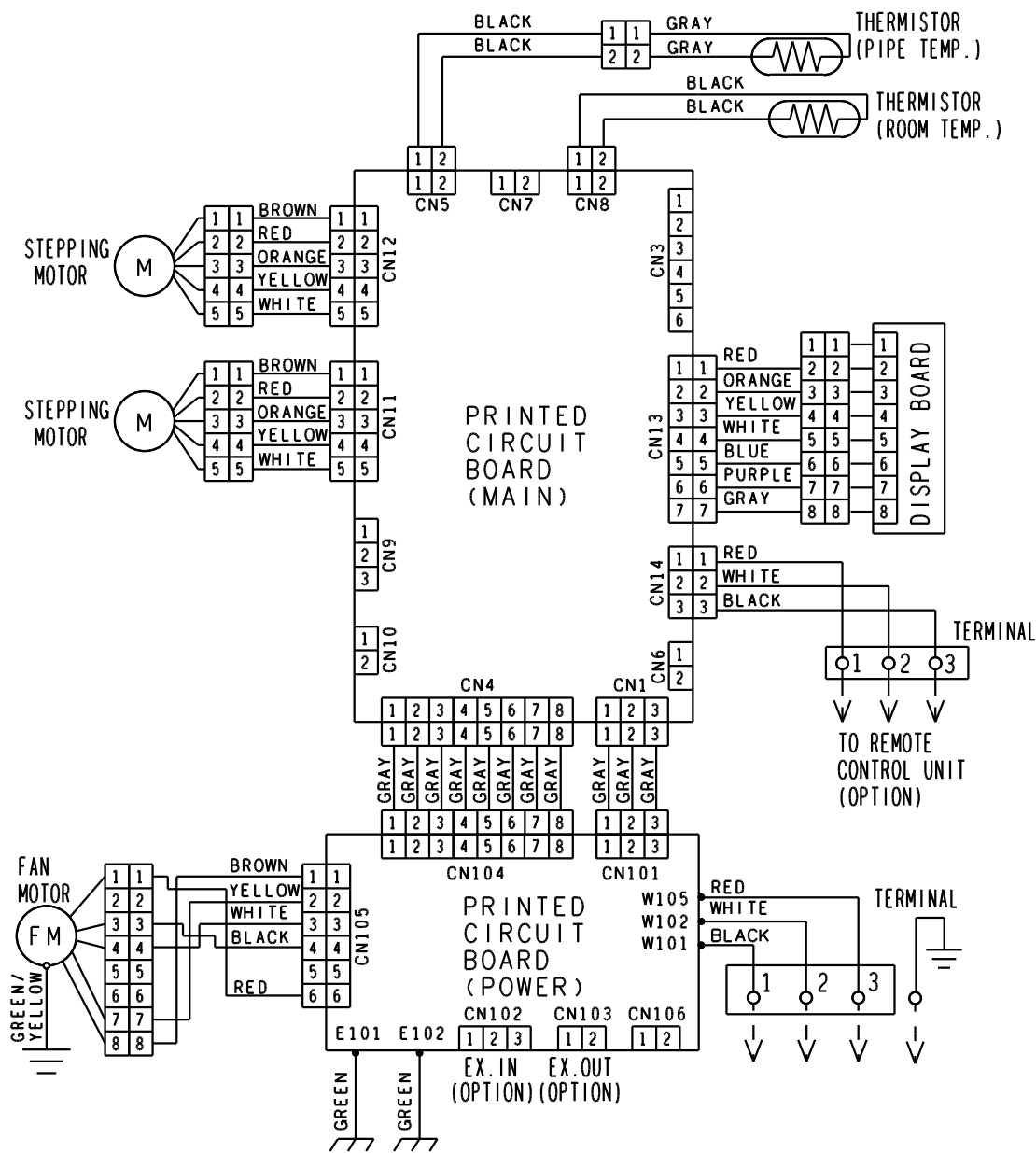
5-4. WALL MOUNTED TYPE

■ MODELS : AS*G18LFCA, AS*G24LFCA



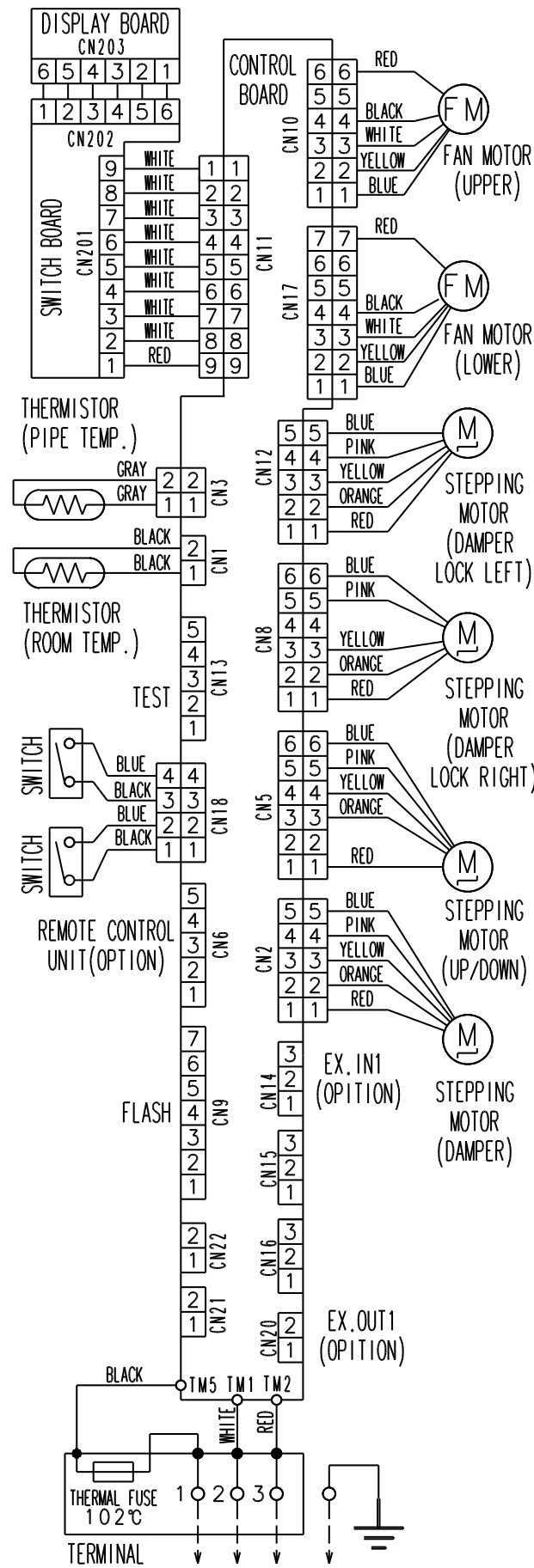
5-5. FLOOR / CEILING TYPE

■ MODELS : AB*G14LVTA, AB*G18LVTA,
AB*G18LVTB



5-6.FLOOR TYPE

■ MODELS : AG*G09LVCA, AG*G12LVCA, AG*G14LVCA



6. AIR VELOCITY AND TEMPERATURE DISTRIBUTIONS

6-1. COMPACT CASSETTE TYPE

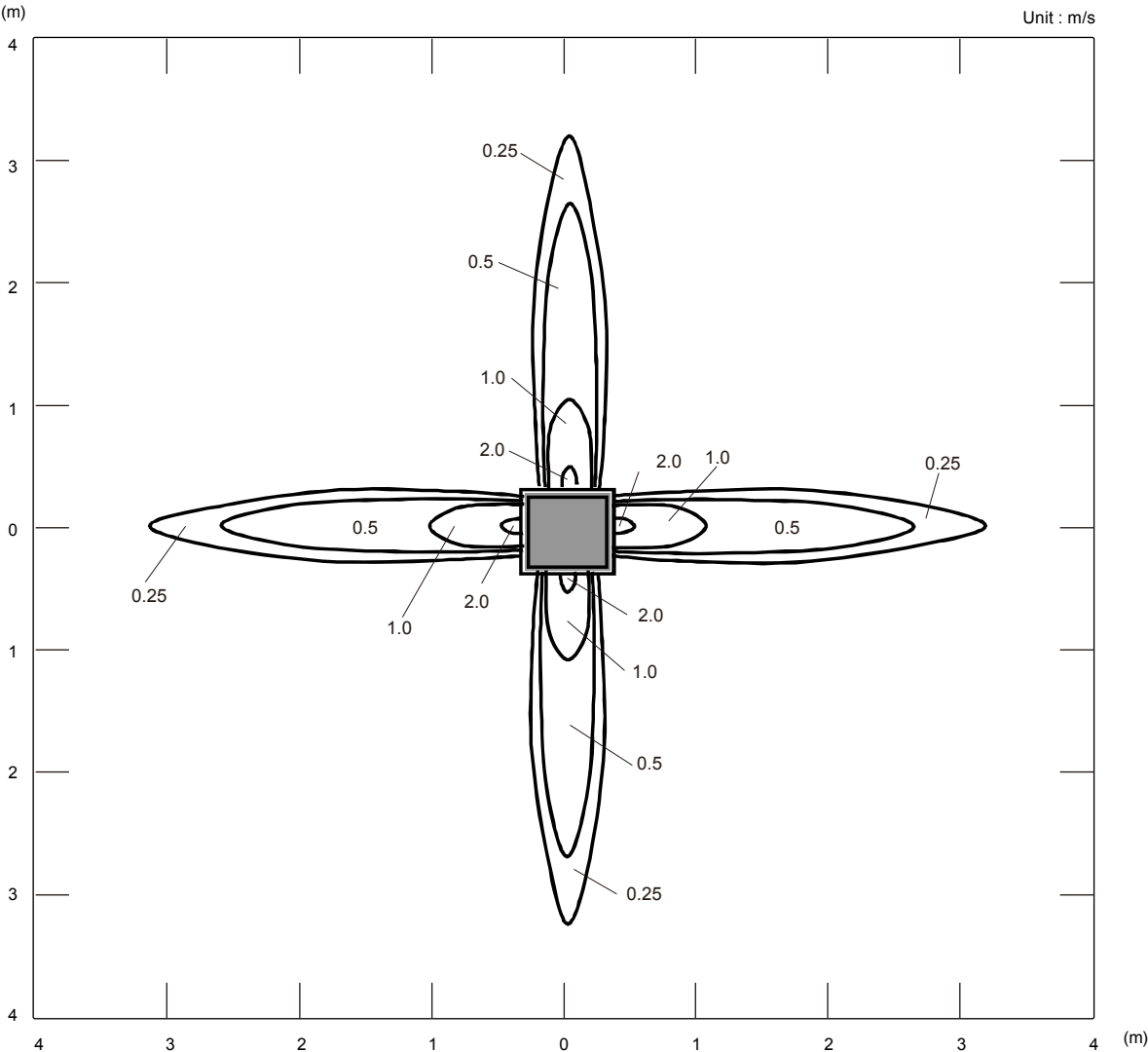
■ MODELS : AU*G07LVLA, AU*G09LVLA

Conditions	
Fan speed	: High
Operation mode	: FAN

● Air velocity distribution

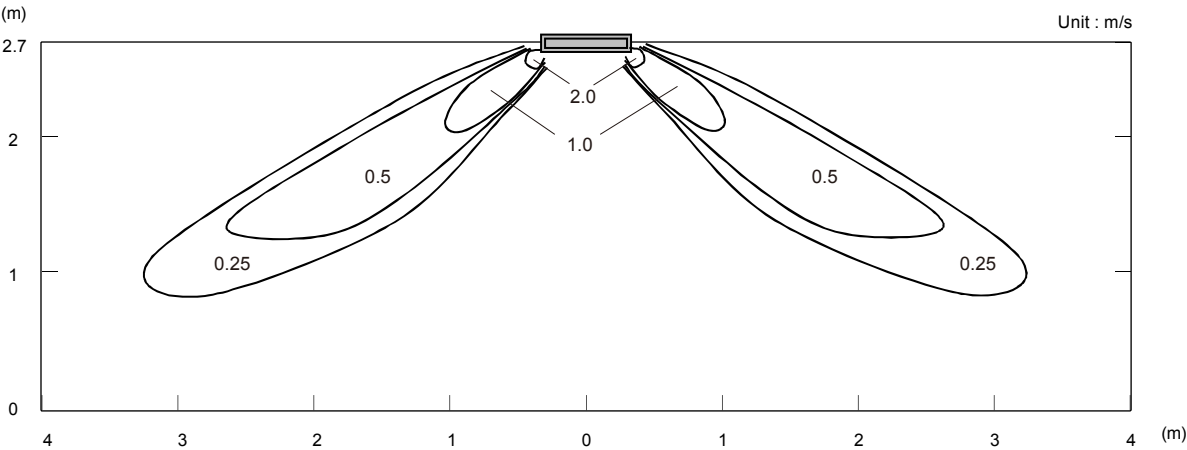
Top view

Vertical flap : Up



Side view

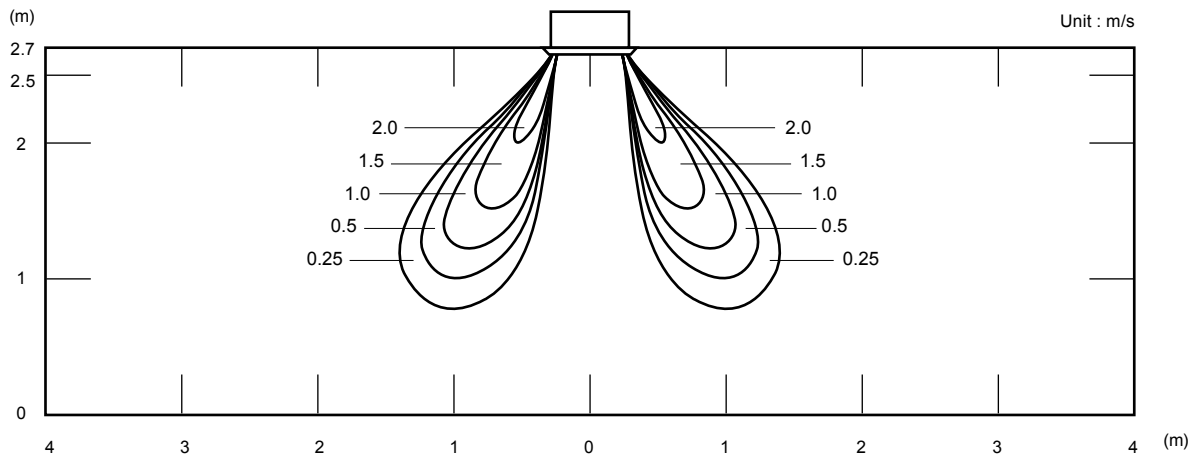
Vertical flap : Up



Note: Reference data
Conditions
Fan speed : High
Operation mode : Heating
Vertical flap: Downward (4Way)

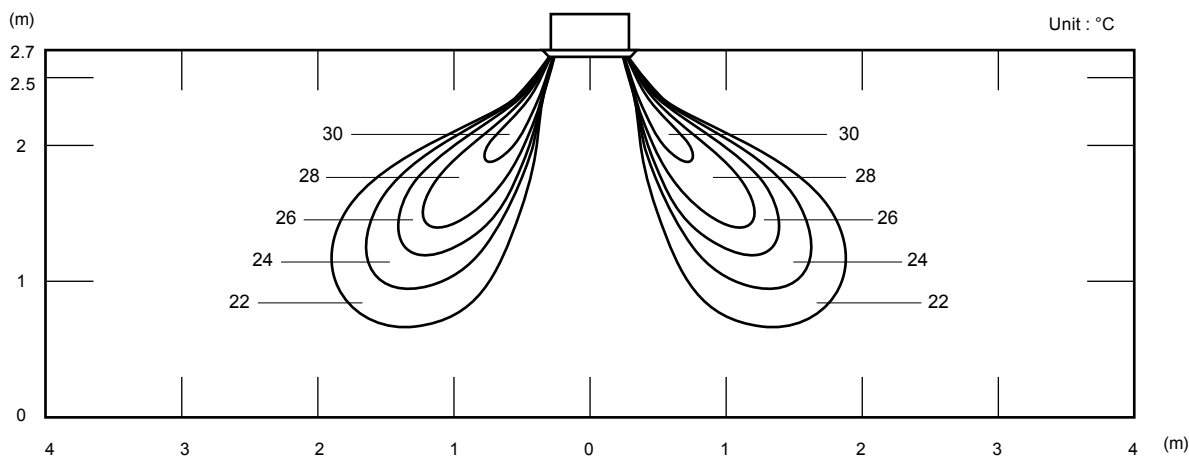
● Air velocity distribution

Side view
Vertical flap : Down

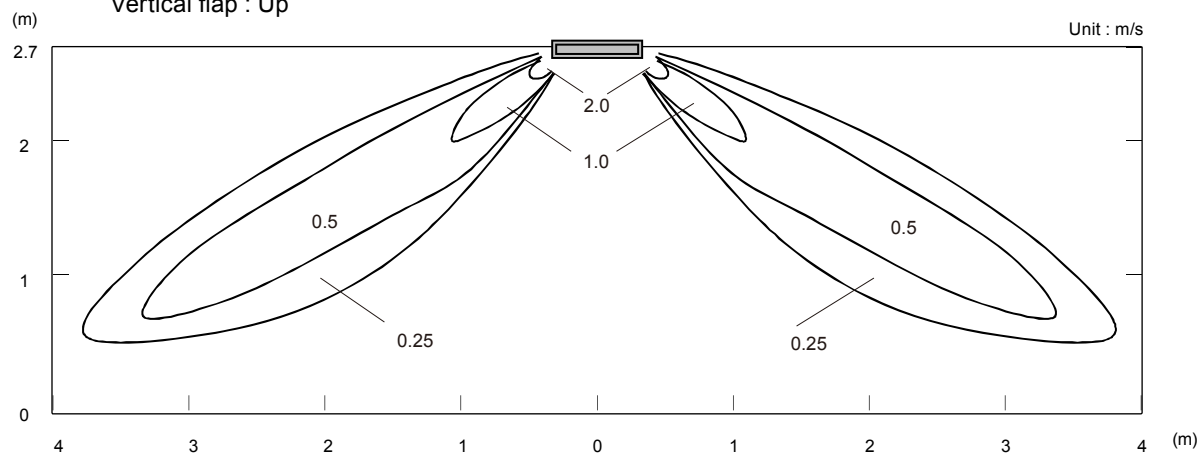


● Air temperature distribution

Side view
Vertical flap : Down



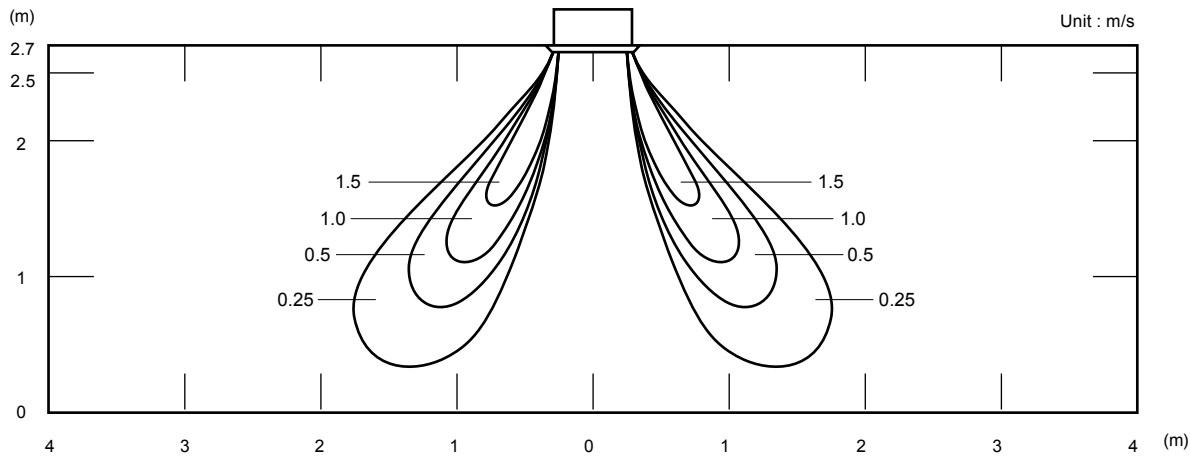
Conditions
Fan speed : High
Operation mode : FAN



Note: Reference data
Conditions
Fan speed : High
Operation mode : Heating
Vertical flap: Downward (4Way)

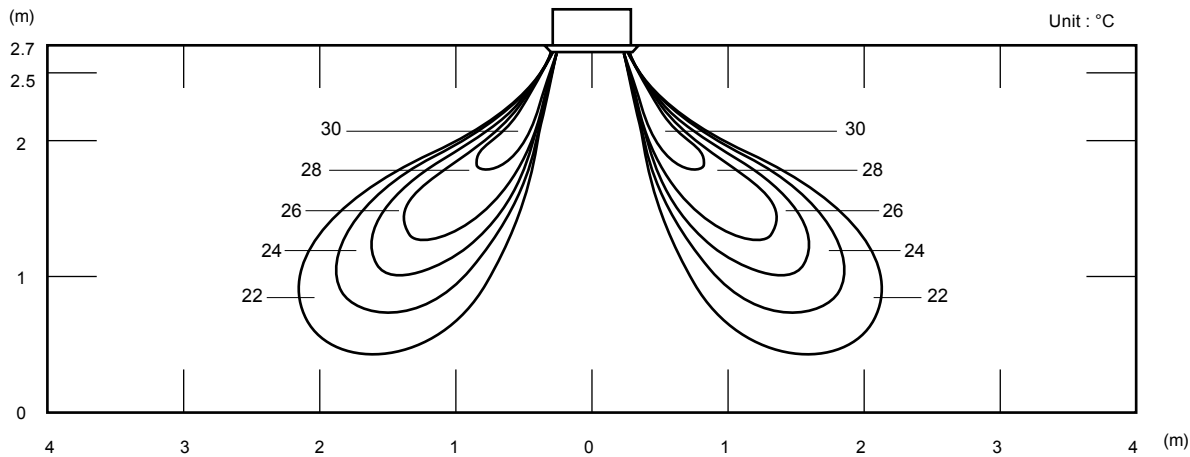
● Air velocity distribution

Side view
Vertical flap : Down



● Air temperature distribution

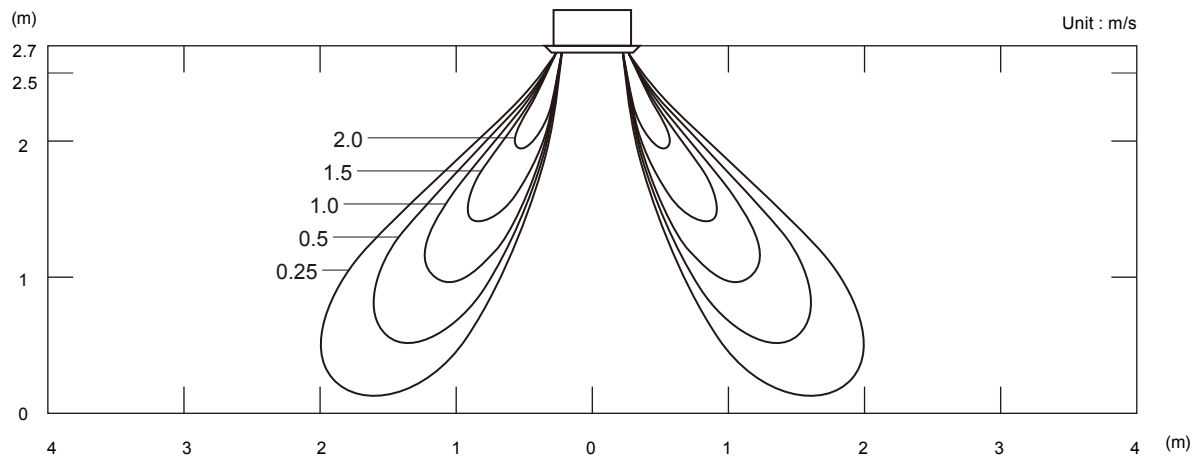
Side view
Vertical flap : Down



Note: Reference data
Conditions
Fan speed : High
Operation mode : Heating
Vertical flap: Downward (4Way)

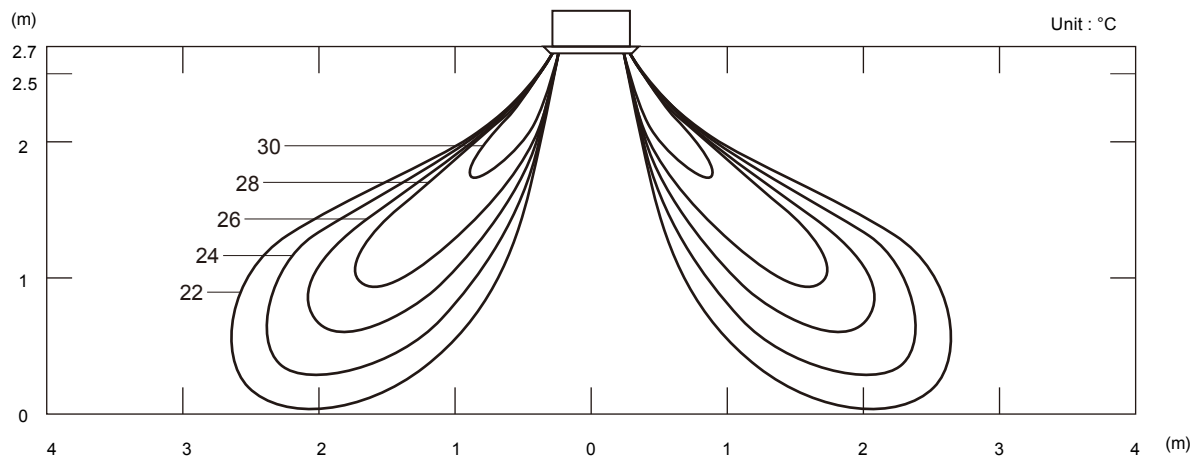
● Air velocity distribution

Side view
Vertical flap : Down



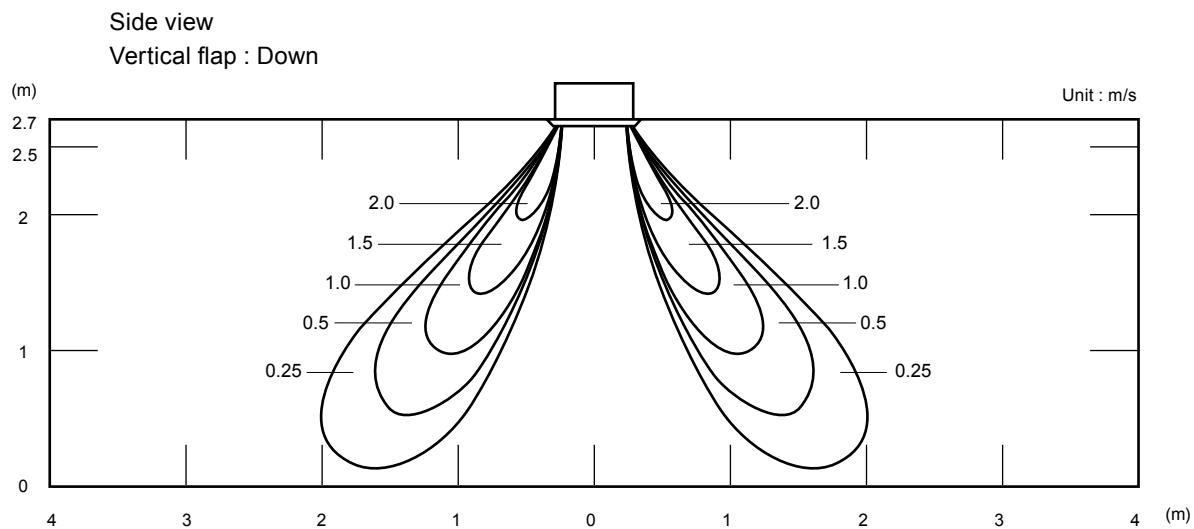
● Air temperature distribution

Side view
Vertical flap : Down

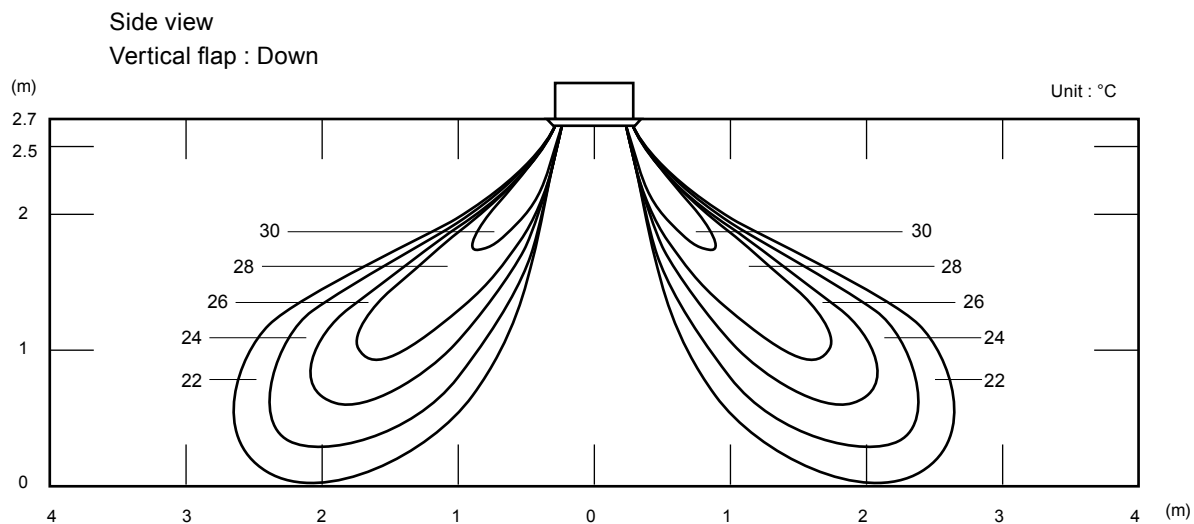


Note: Reference data
Conditions
Fan speed : High
Operation mode : Heating
Vertical flap: Downward (4Way)

● Air velocity distribution



● Air temperature distribution



6-2. SLIM DUCT TYPE with Auto louver grille kit

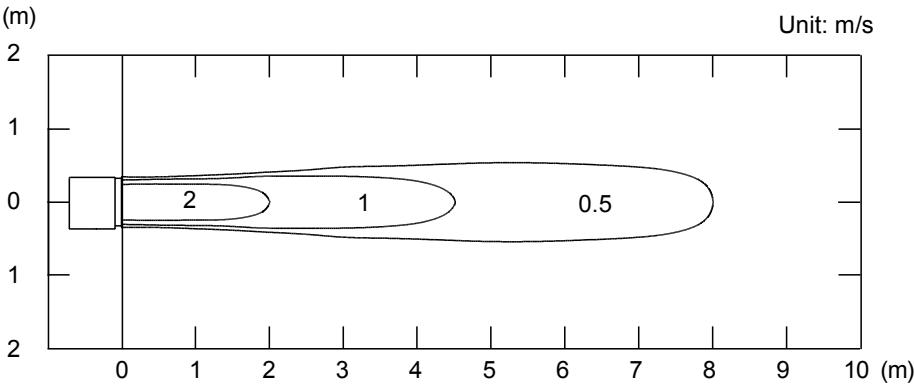
■ MODEL : AR*G07LLTA (UTD-GXSA-W)

Note: This data is a measurement of Auto louver grille kit(option) by installing it.

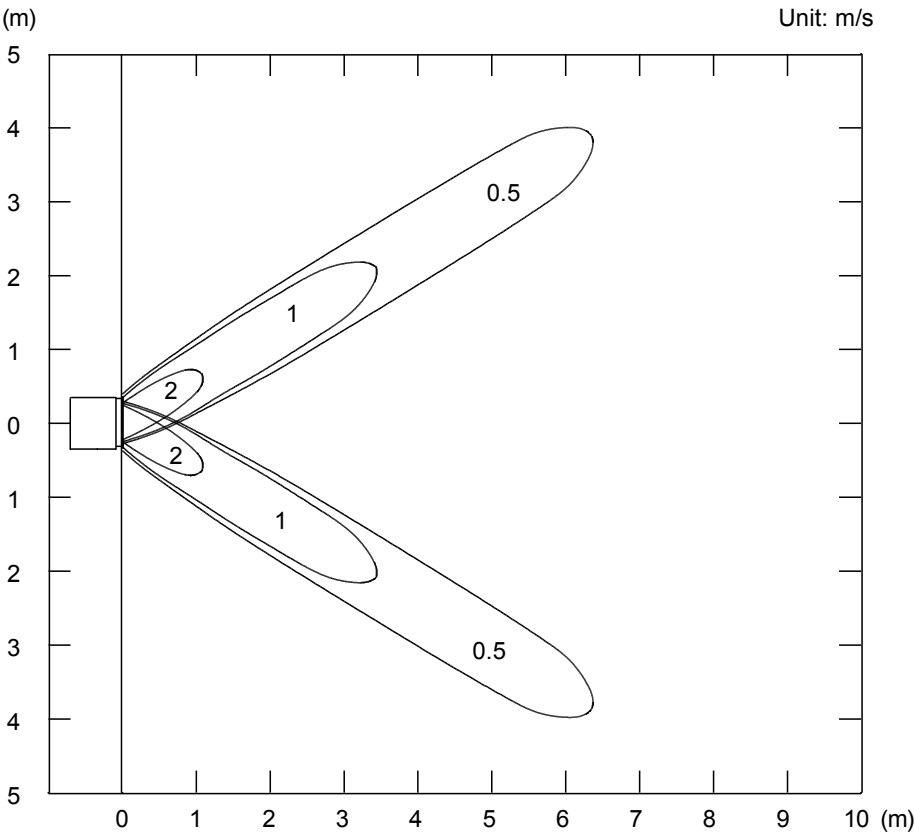
Conditions	
Fan speed	: High
Operation mode	: Fan
Voltage	: 230V

● Air velocity distribution

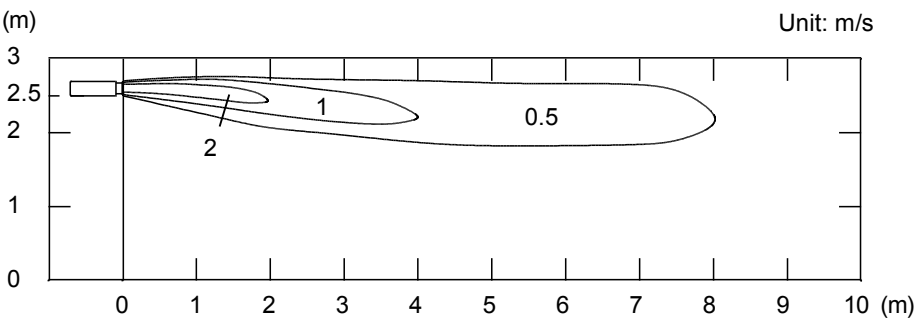
Top view
Vertical flap : Up
Horizontal flap : Center



Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center

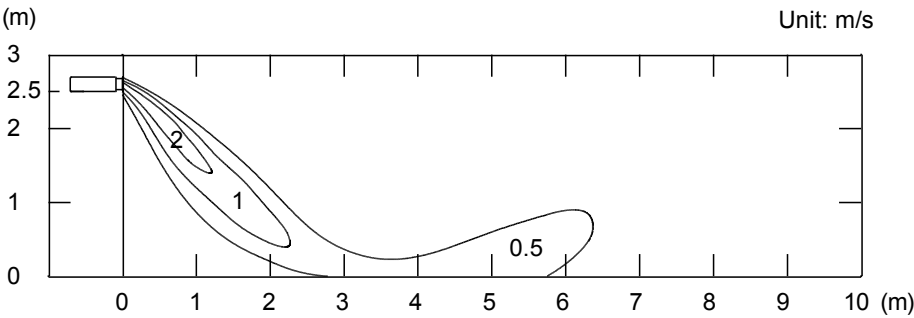


Note: This data is a measurement of Auto louver grille kit(option) by installing it.

Conditions	
Fan speed	: High
Operation mode	: Heat
Voltage	: 230V
Reference Data	

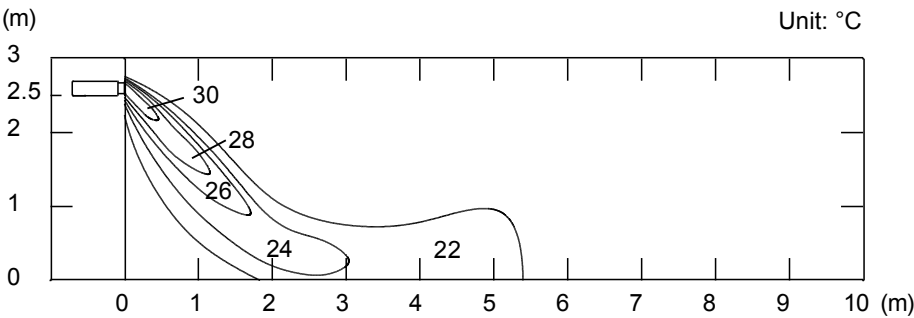
● Air velocity distribution

Side view
Vertical flap : Down
Horizontal flap : Center



● Air temperature distribution

Side view
Vertical flap : Down
Horizontal flap : Center



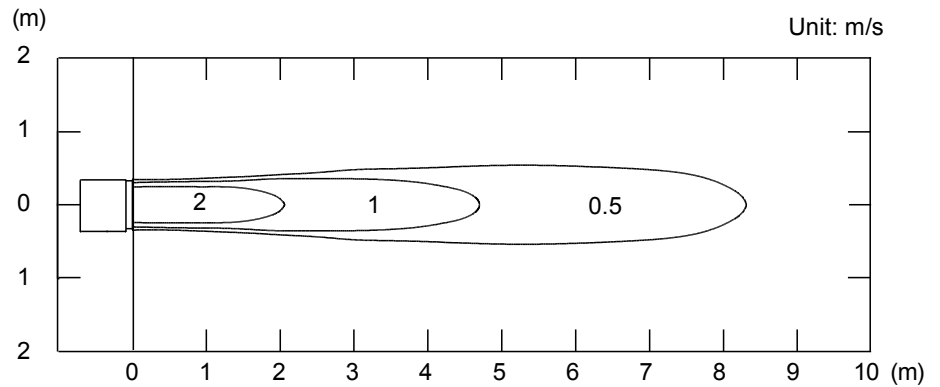
MODEL : AR*G09LLTA (UTD-GXSA-W)

Note: This data is a measurement of Auto louver grille kit(option) by installing it.

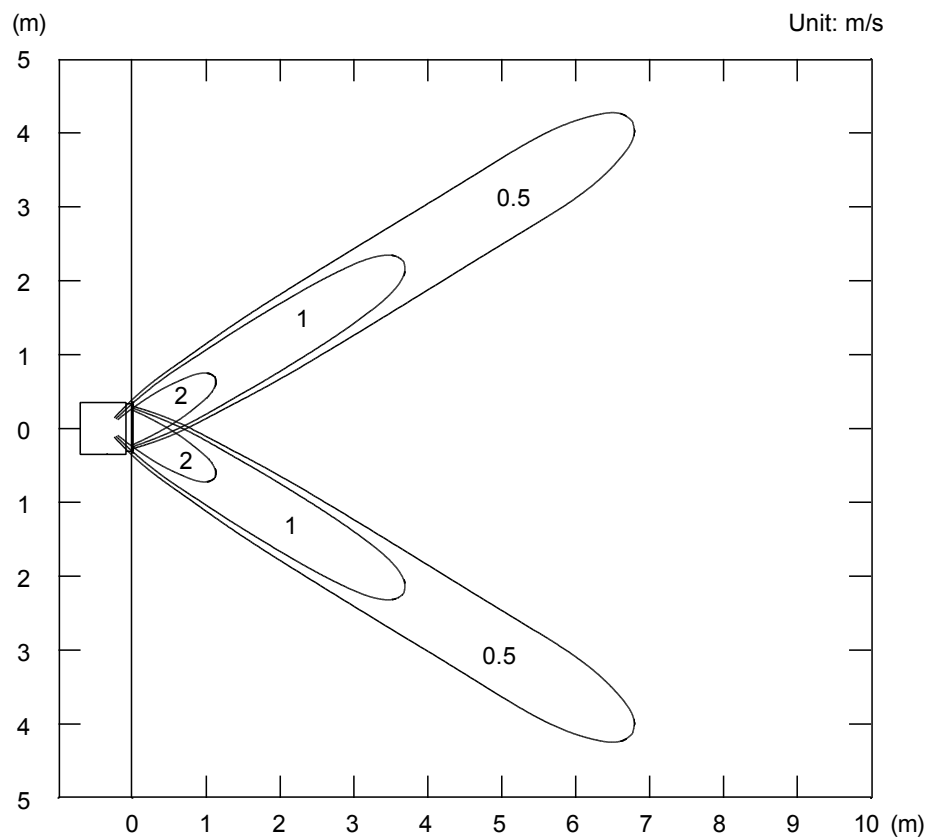
Conditions	
Fan speed	: High
Operation mode	: Fan
Voltage	: 230V

● Air velocity distribution

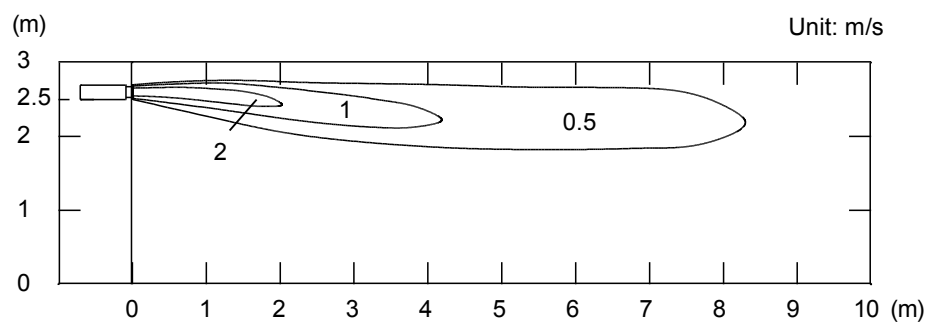
Top view
Vertical flap : Up
Horizontal flap : Center



Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center

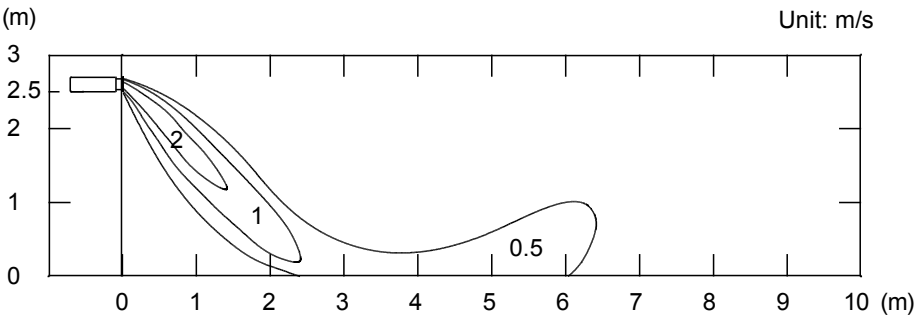


Note: This data is a measurement of Auto louver grille kit(option) by installing it.

Conditions	
Fan speed	: High
Operation mode	: Heat
Voltage	: 230V
Reference Data	

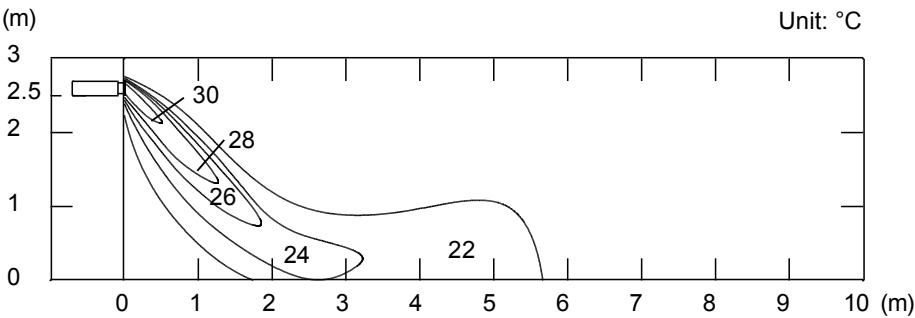
● Air velocity distribution

Side view
Vertical flap : Down
Horizontal flap : Center



● Air temperature distribution

Side view
Vertical flap : Down
Horizontal flap : Center



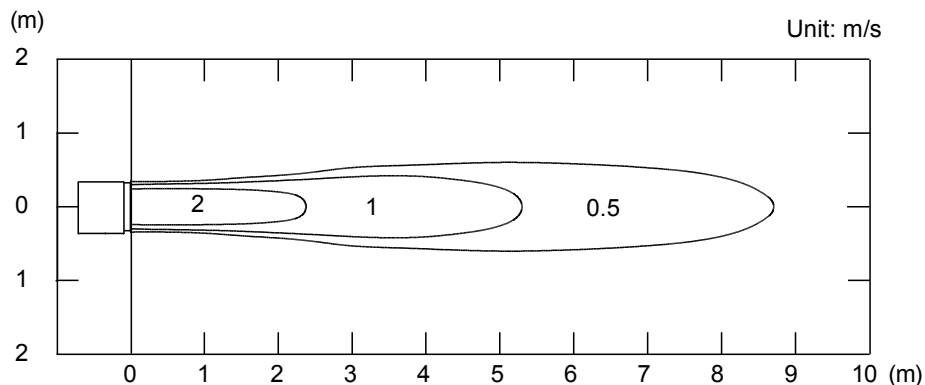
MODEL : AR*G12LLTA, AR*G12LLTB **(UTD-GXSA-W)**

Note: This data is a measurement of Auto louver grille kit(option) by installing it.

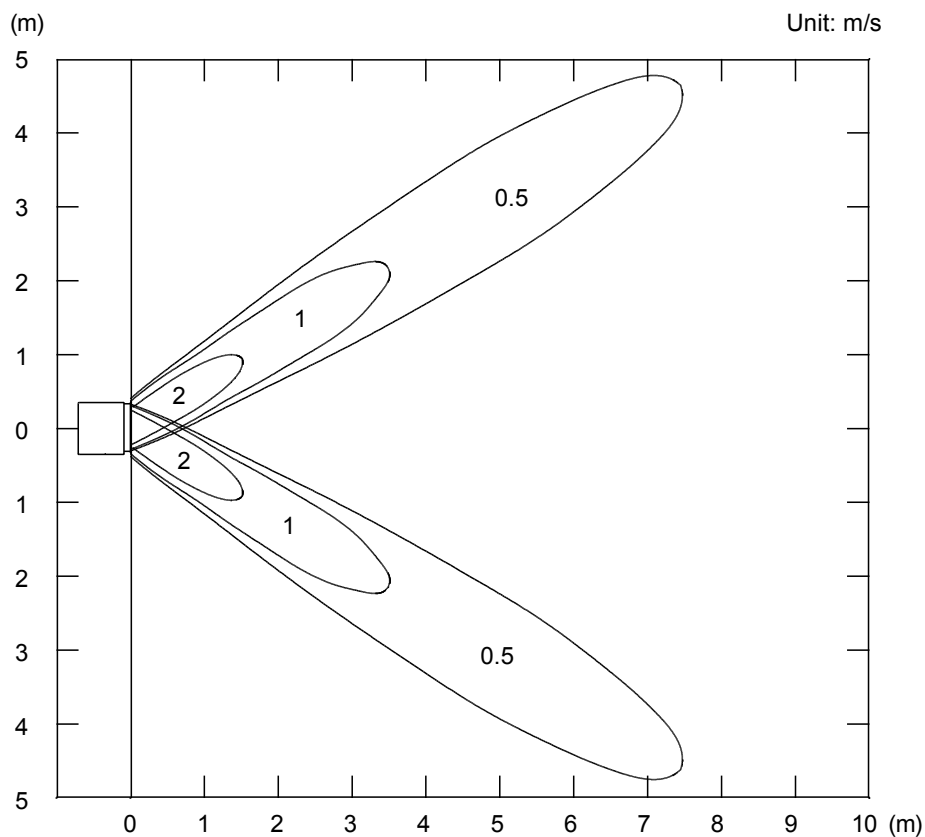
Conditions	
Fan speed	: High
Operation mode	: Fan
Voltage	: 230V

● Air velocity distribution

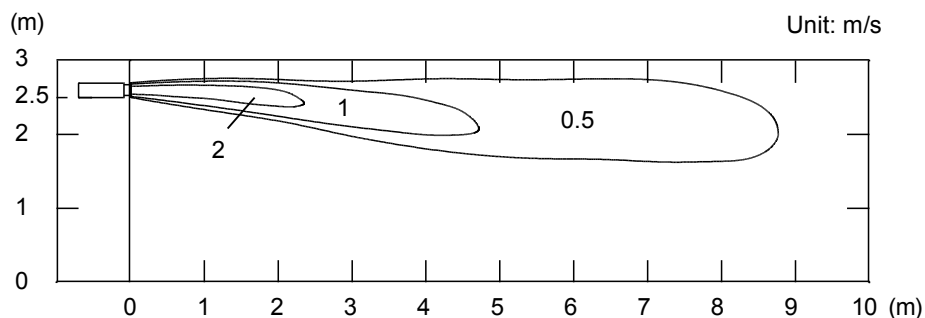
Top view
 Vertical flap : Up
 Horizontal flap : Center



Top view
 Vertical flap : Up
 Horizontal flap : Right & Left



Side view
 Vertical flap : Up
 Horizontal flap : Center

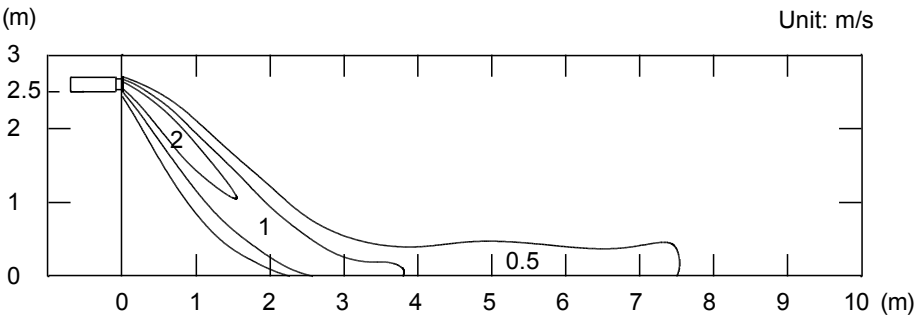


Note: This data is a measurement of Auto louver grille kit(option) by installing it.

Conditions	
Fan speed	: High
Operation mode	: Heat
Voltage	: 230V
Reference Data	

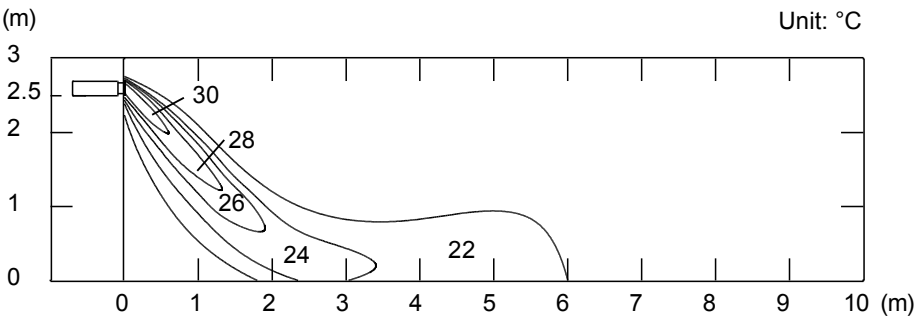
● Air velocity distribution

Side view
Vertical flap : Down
Horizontal flap : Center



● Air temperature distribution

Side view
Vertical flap : Down
Horizontal flap : Center



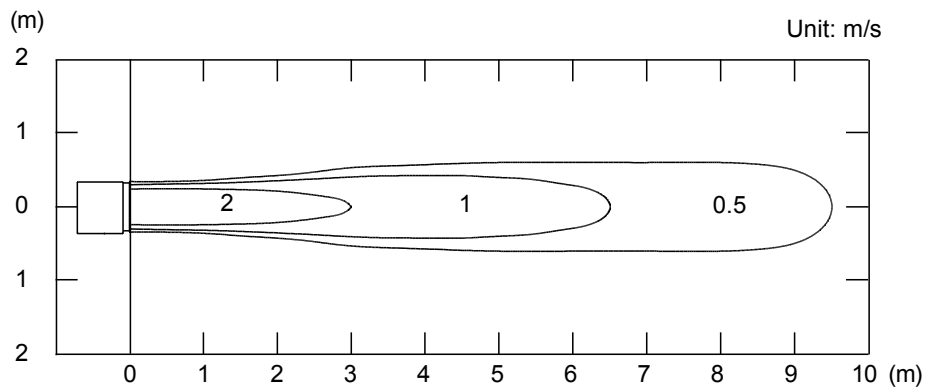
■ **MODEL : AR*G14LLTA, AR*G14LLTB (UTD-GXSA-W)**

Note: This data is a measurement of Auto louver grille kit(option) by installing it.

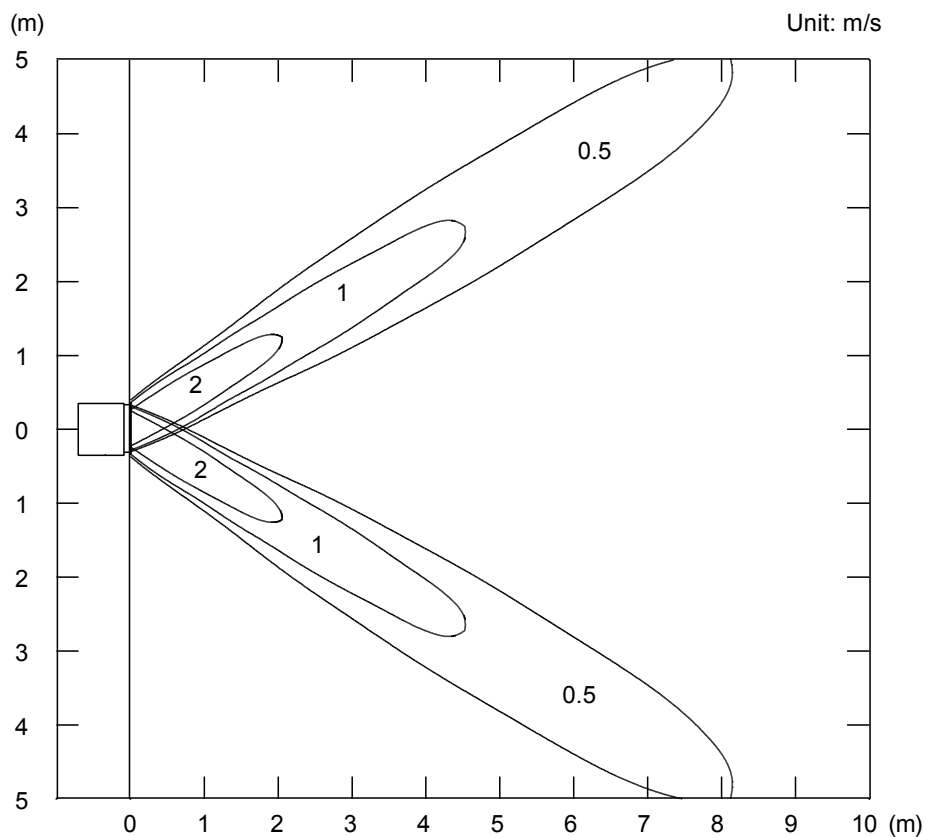
Conditions	
Fan speed	: High
Operation mode	: Fan
Voltage	: 230V

● **Air velocity distribution**

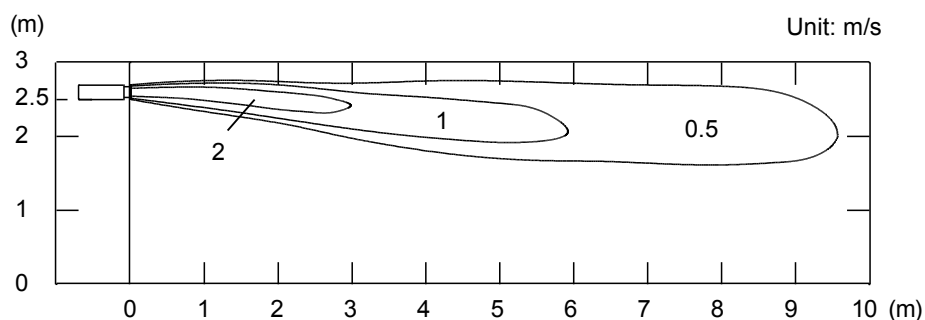
Top view
Vertical flap : Up
Horizontal flap : Center



Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center

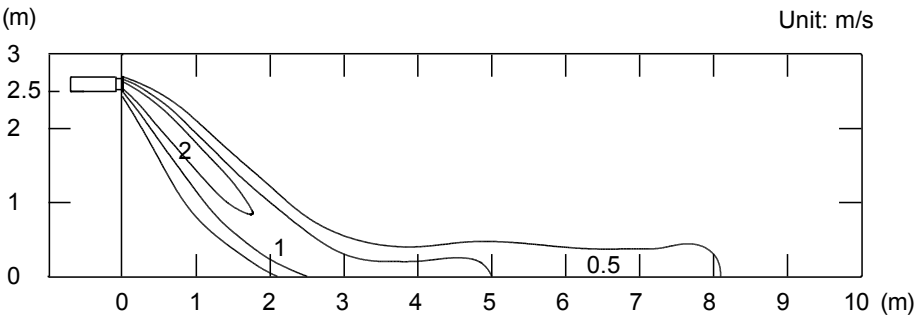


Note: This data is a measurement of Auto louver grille kit(option) by installing it.

Conditions	
Fan speed	: High
Operation mode	: Heat
Voltage	: 230V
Reference Data	

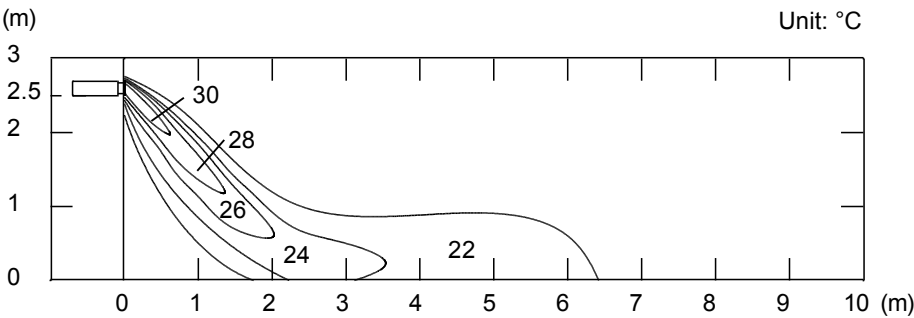
● Air velocity distribution

Side view
Vertical flap : Down
Horizontal flap : Center



● Air temperature distribution

Side view
Vertical flap : Down
Horizontal flap : Center



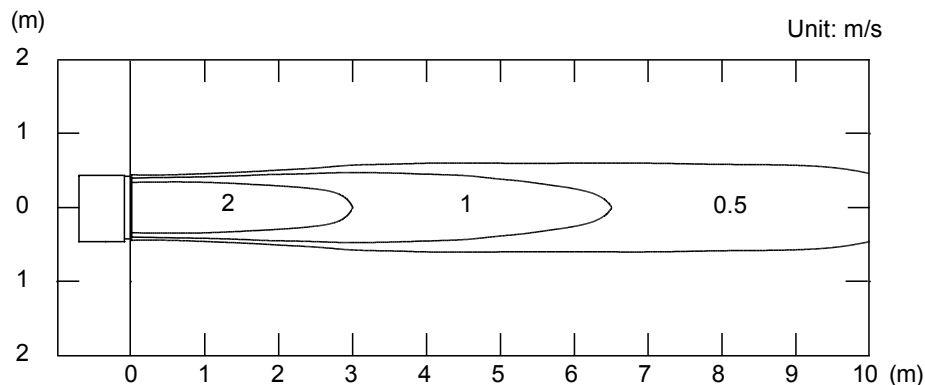
■ **MODEL : AR*G18LLTA, AR*G18LLTB (UTD-GXSB-W)**

Note: This data is a measurement of Auto louver grille kit(option) by installing it.

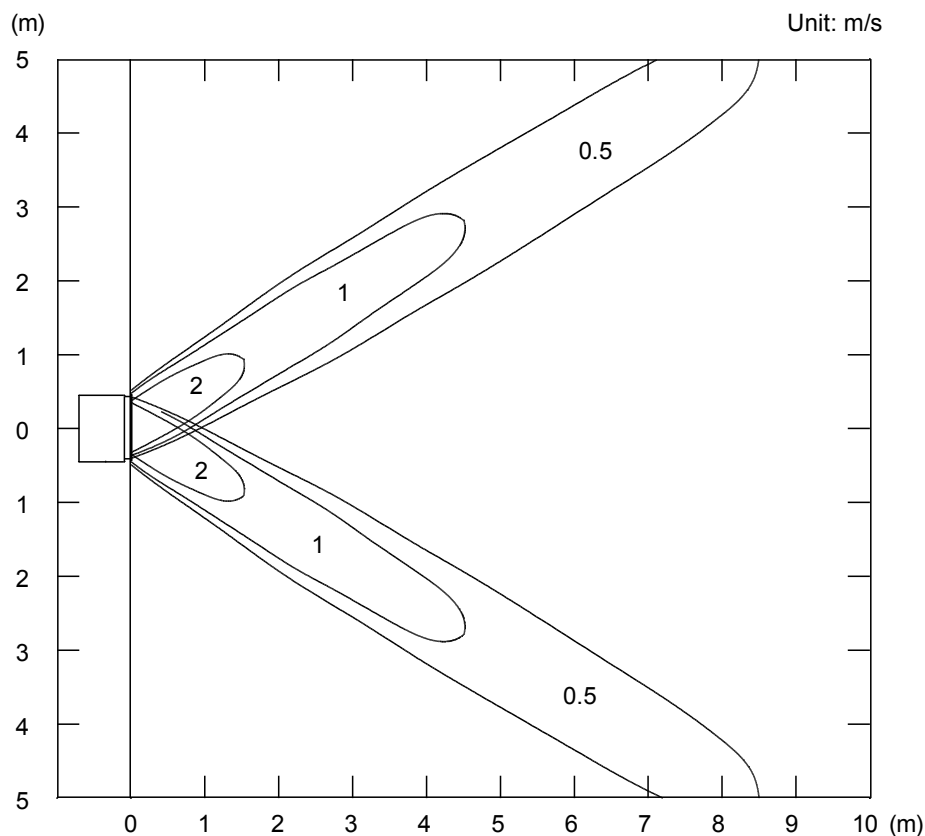
Conditions	
Fan speed	: High
Operation mode	: Fan
Voltage	: 230V

● **Air velocity distribution**

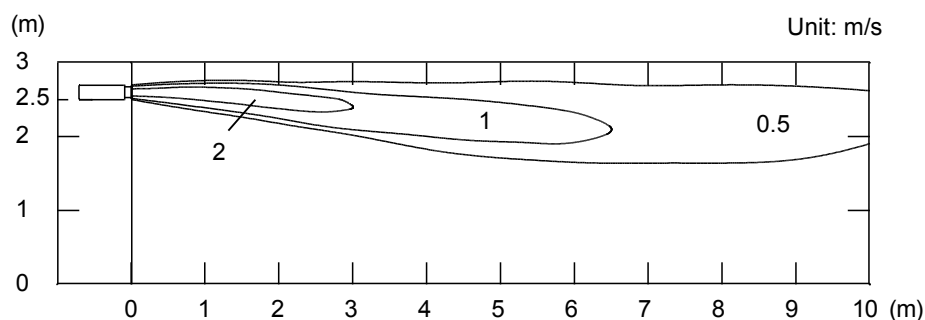
Top view
Vertical flap : Up
Horizontal flap : Center



Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center

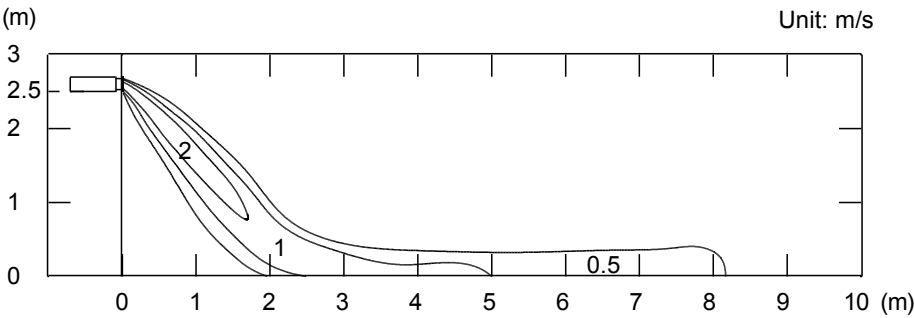


Note: This data is a measurement of Auto louver grille kit(option) by installing it.

Conditions	
Fan speed	: High
Operation mode	: Heat
Voltage	: 230V
Reference Data	

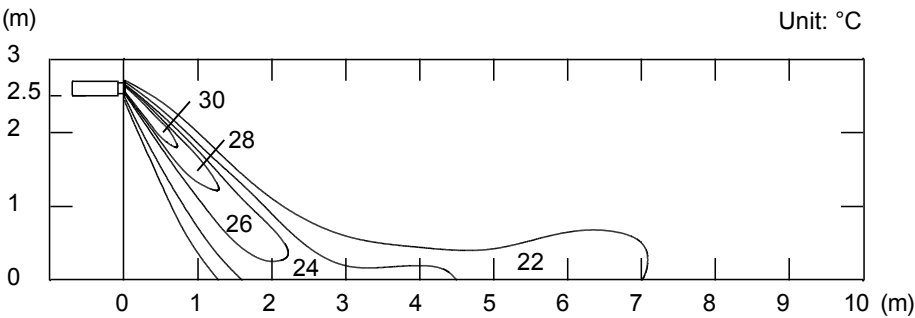
● Air velocity distribution

Side view
Vertical flap : Down
Horizontal flap : Center



● Air temperature distribution

Side view
Vertical flap : Down
Horizontal flap : Center

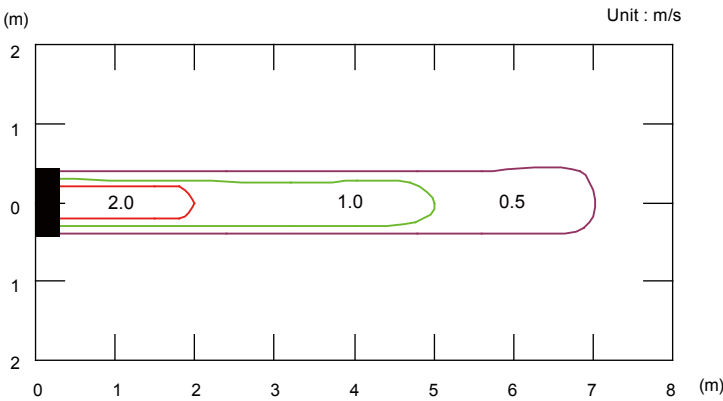


6-3. COMPACT WALL MOUNTED TYPE

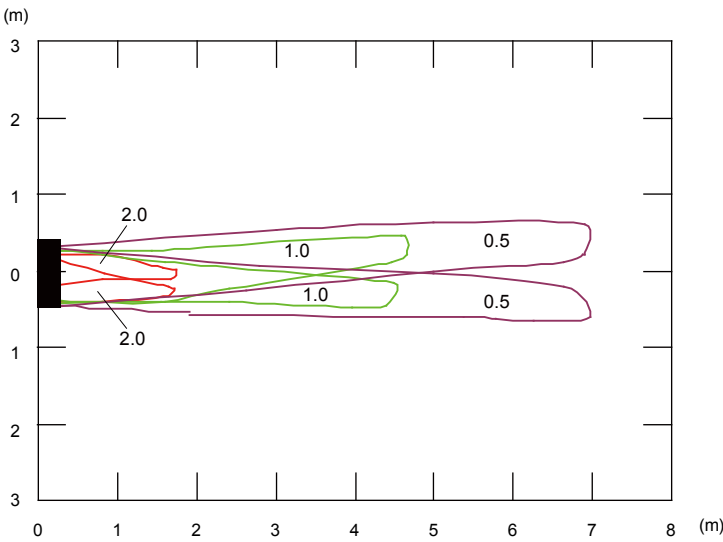
■ MODEL : AS*G07LJCA

Conditions	
Fan speed	: High
Operation mode	: Fan

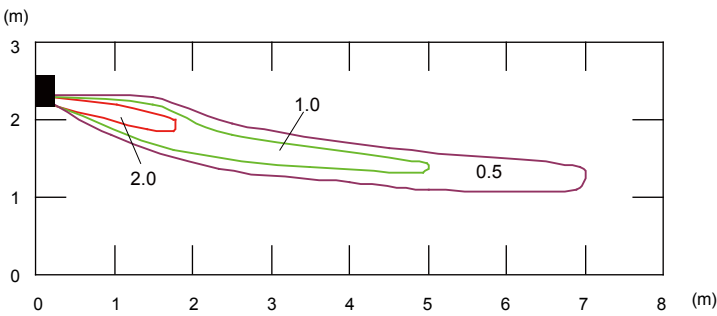
Top view
Vertical flap : Up
Horizontal flap : Center



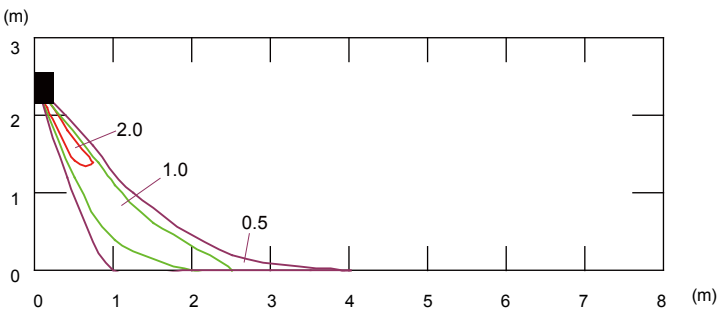
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



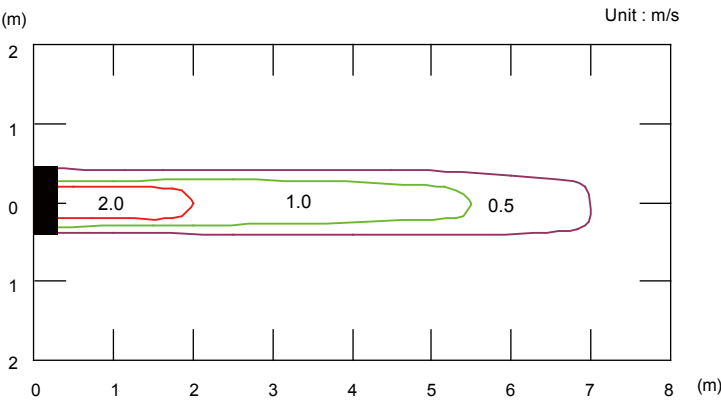
Side view
Vertical flap : Down
Horizontal flap : Center



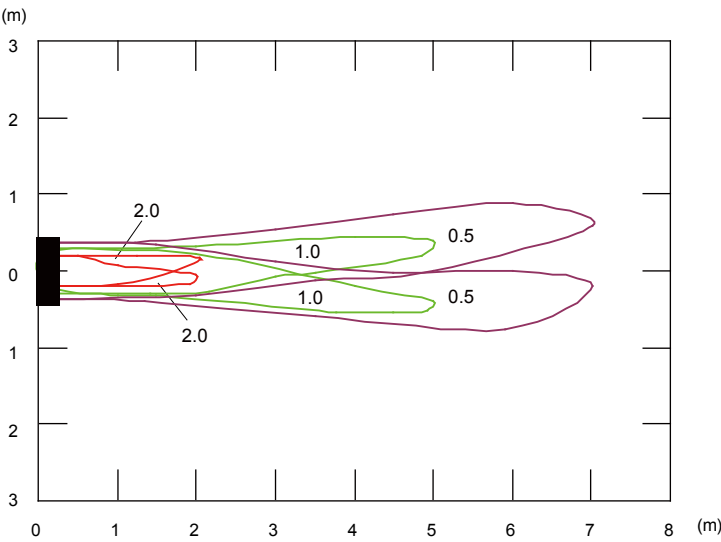
■ **MODEL : AS*G09LJCA**

Conditions
Fan speed : High
Operation mode : Fan

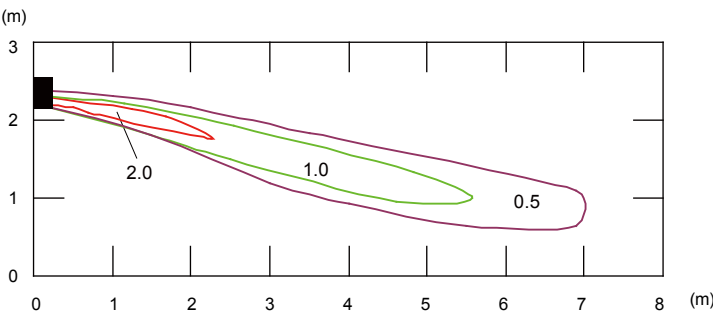
Top view
Vertical flap : Up
Horizontal flap : Center



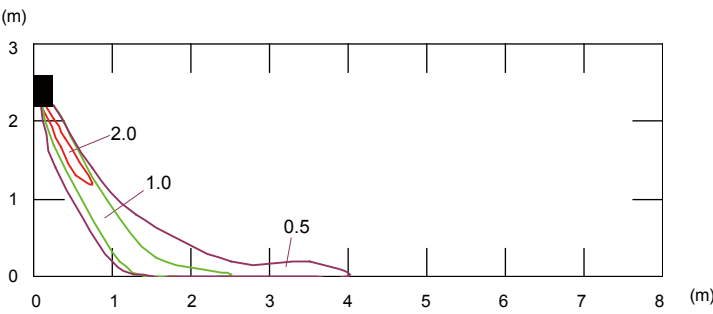
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



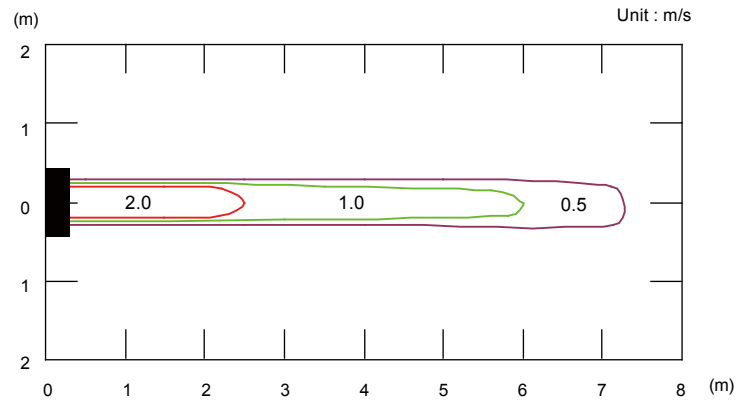
Side view
Vertical flap : Down
Horizontal flap : Center



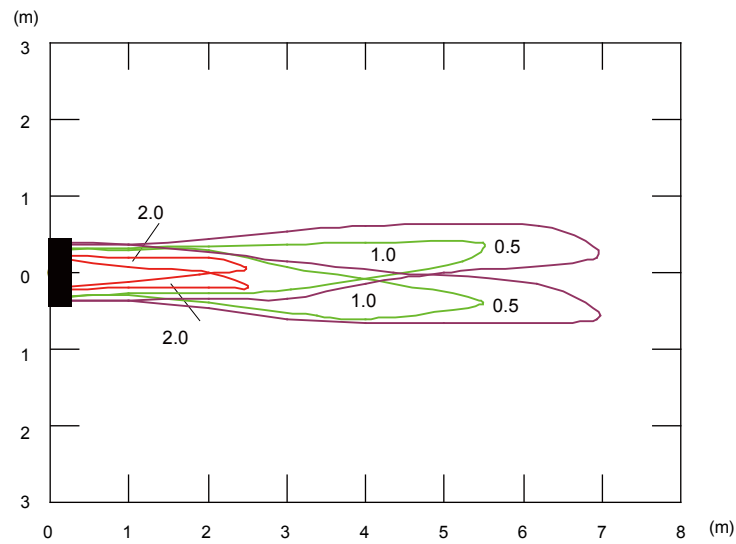
■ MODEL : AS*G12LJCA

Conditions
Fan speed : High
Operation mode : Fan

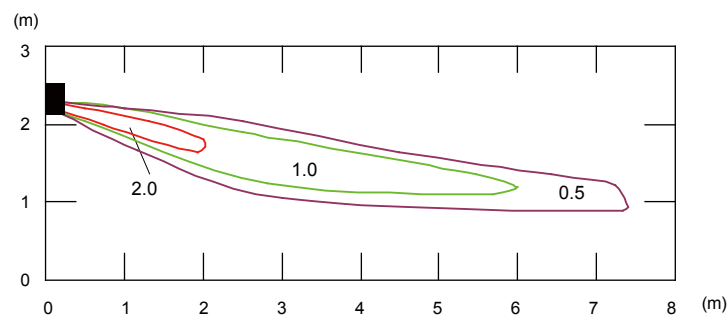
Top view
Vertical flap : Up
Horizontal flap : Center



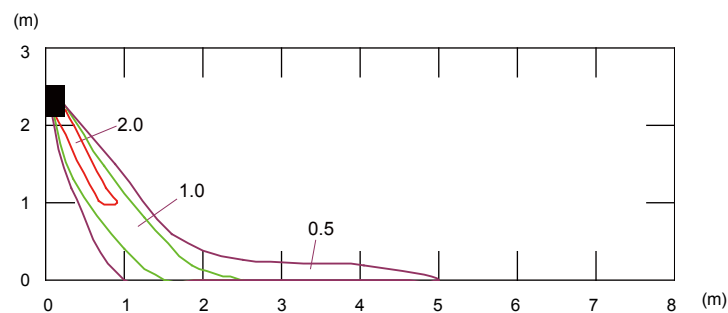
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



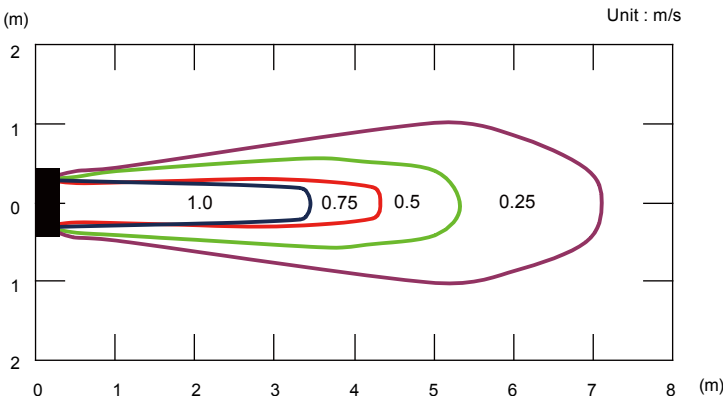
Side view
Vertical flap : Down
Horizontal flap : Center



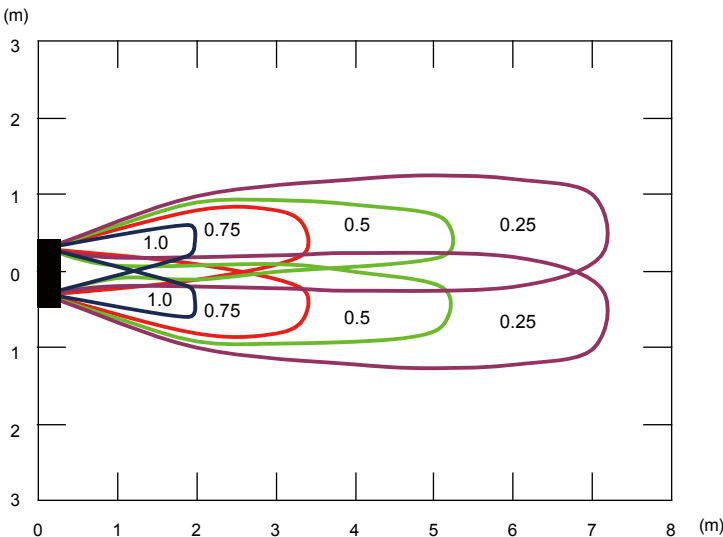
■ **MODEL : AS*G07LUCA, AS*G09LUCA**

Conditions
Fan speed : High
Operation mode : Fan

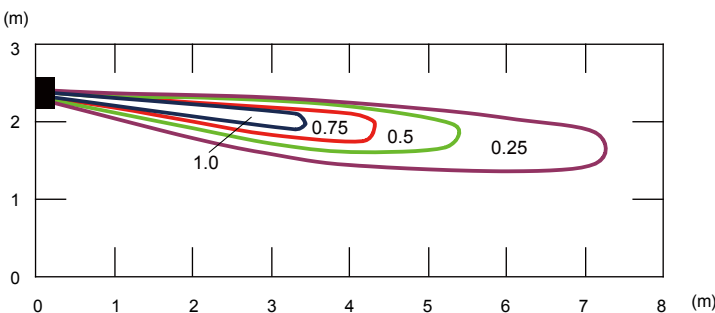
Top view
Vertical flap : Up
Horizontal flap : Center



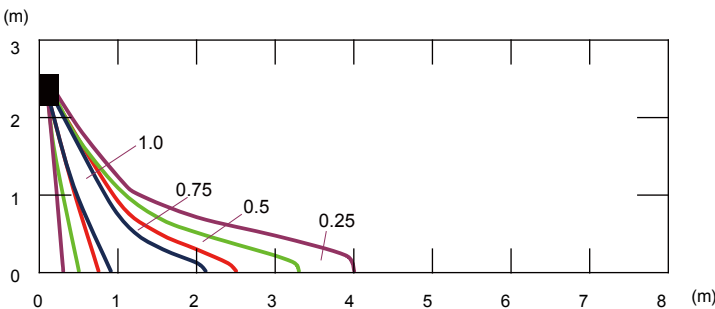
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



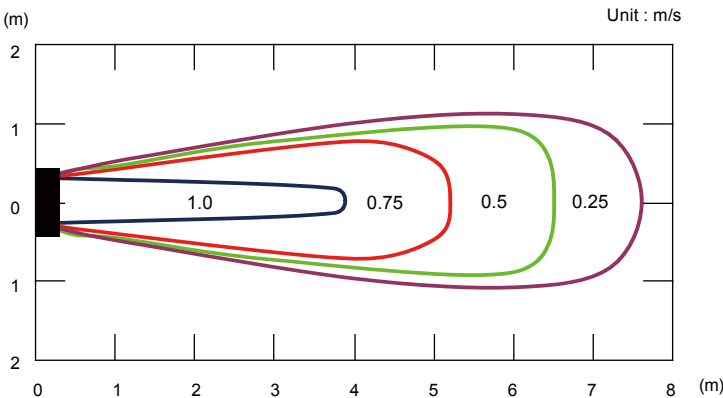
Side view
Vertical flap : Down
Horizontal flap : Center



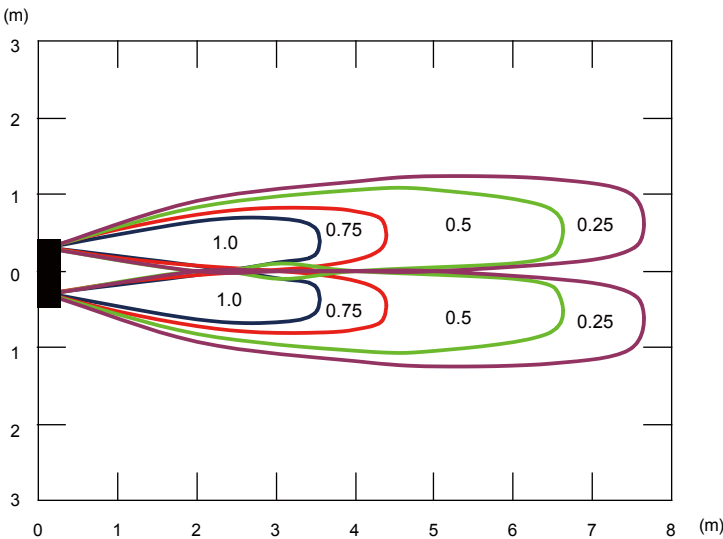
■ **MODEL : AS*G12LUCA, AS*G14LUCA**

Conditions
Fan speed : High
Operation mode : Fan

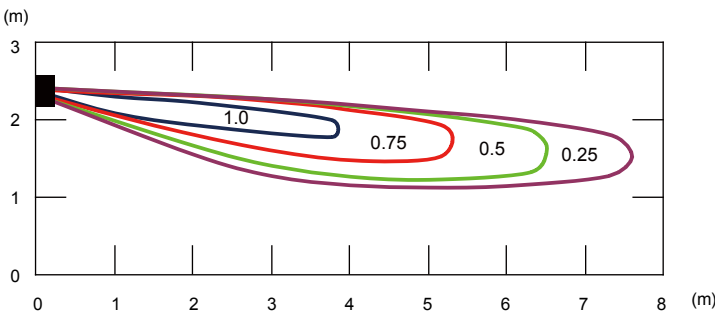
Top view
Vertical flap : Up
Horizontal flap : Center



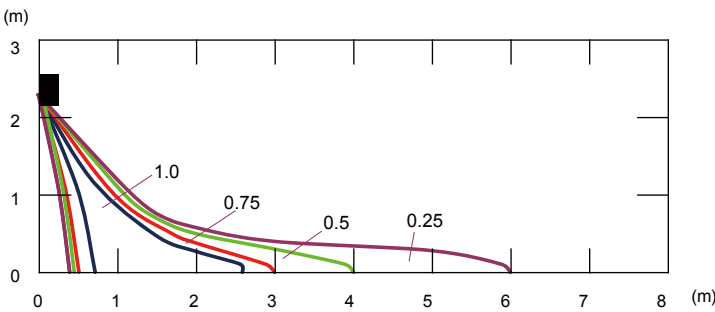
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



Side view
Vertical flap : Down
Horizontal flap : Center

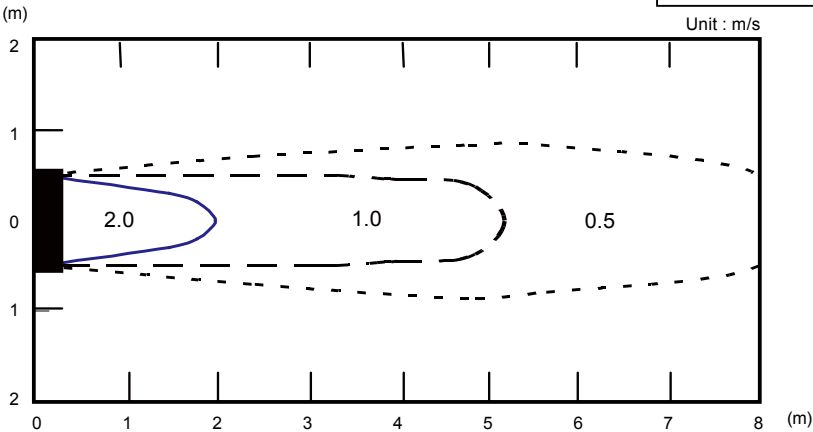


6-4. WALL MOUNTED TYPE

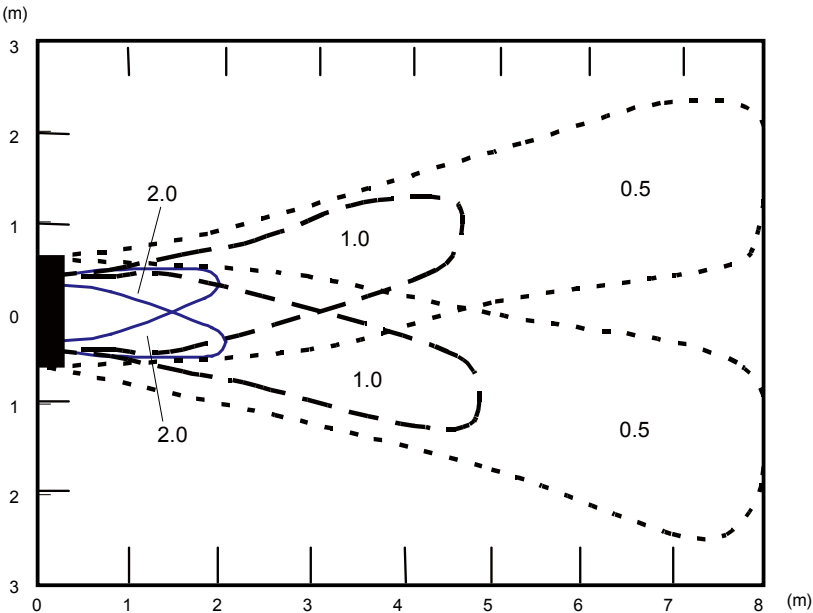
■ **MODEL : AS*G18LFCA**

Conditions
Fan speed : High
Operation mode : Fan

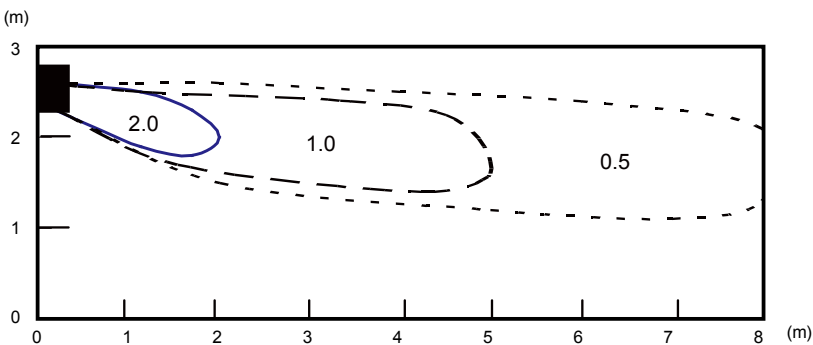
Top view
Vertical flap : Up
Horizontal flap : Center



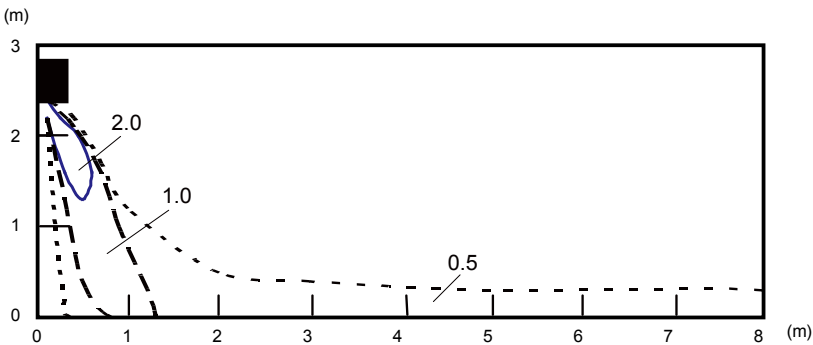
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



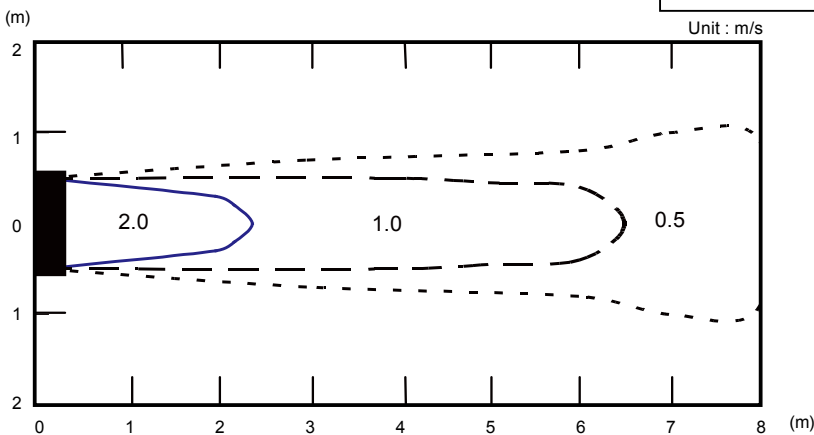
Side view
Vertical flap : Down
Horizontal flap : Center



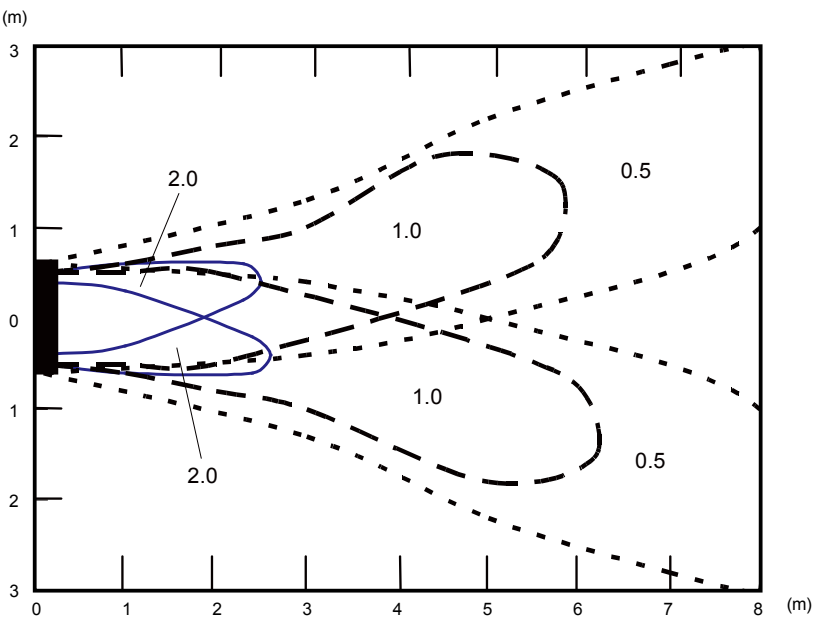
■ MODEL : AS*G24LFCA

Conditions
Fan speed : High
Operation mode : Fan

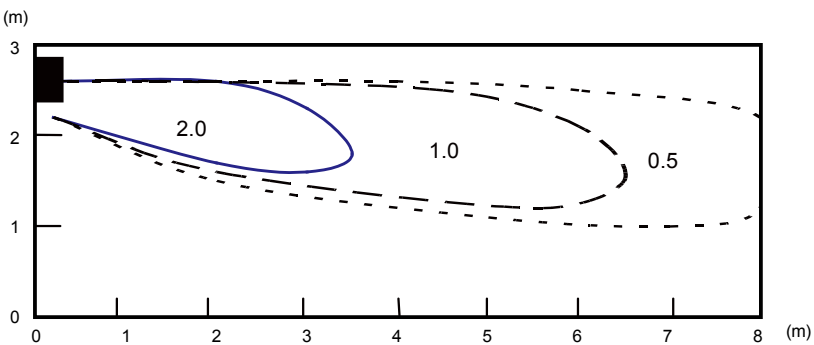
Top view
Vertical flap : Up
Horizontal flap : Center



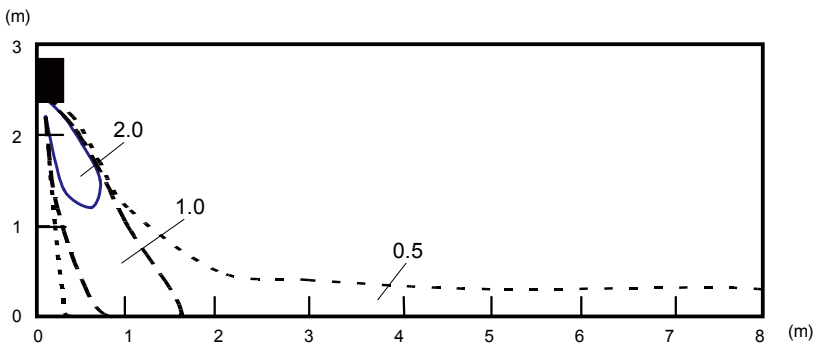
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



Side view
Vertical flap : Down
Horizontal flap : Center

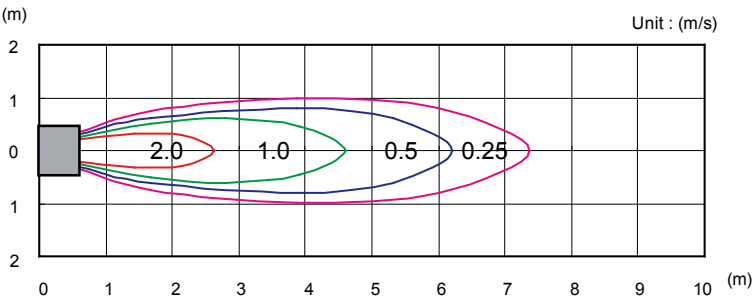


6-5. FLOOR / CEILING TYPE

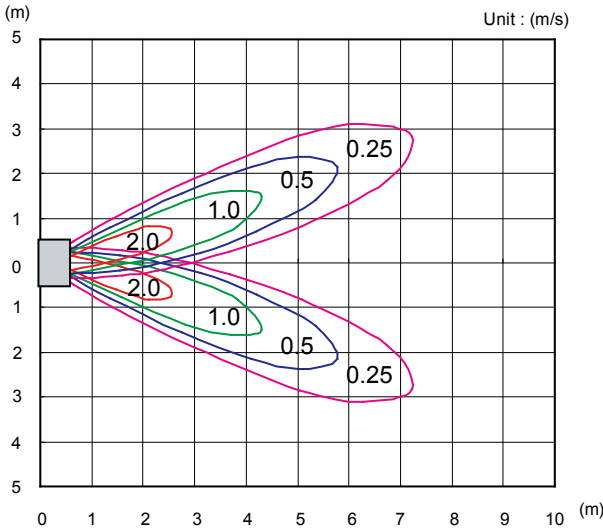
■ MODEL : AB*G14LVTA (UNDER CEILING)

Conditions
Fan speed : High
Operation mode : Fan

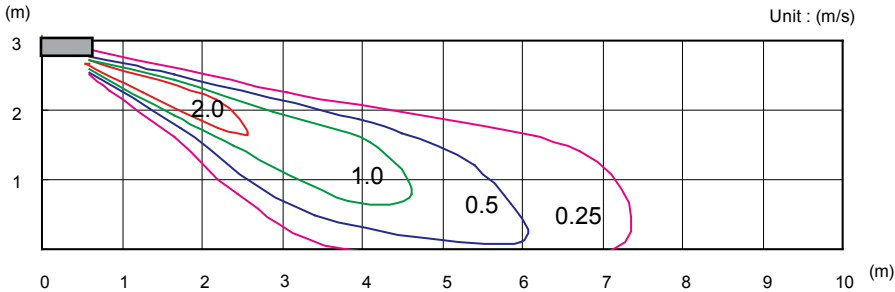
Top view
Vertical flap : Up
Horizontal flap : Center



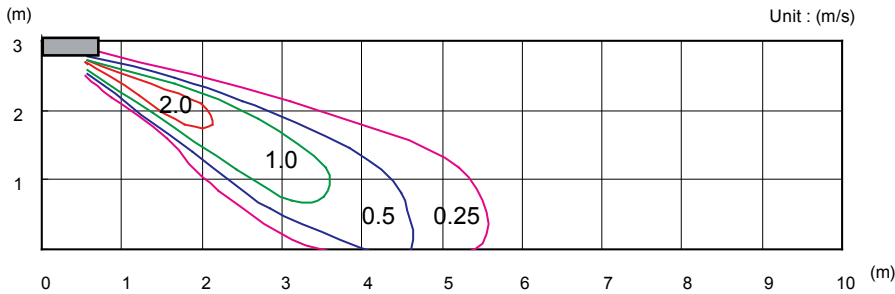
Top view
Vertical flap : Up
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



Side view
Vertical flap : Center
Horizontal flap : Center



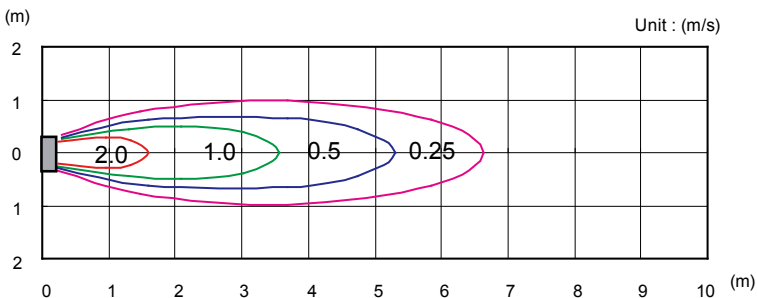
Side view
Vertical flap : Down
Horizontal flap : Center



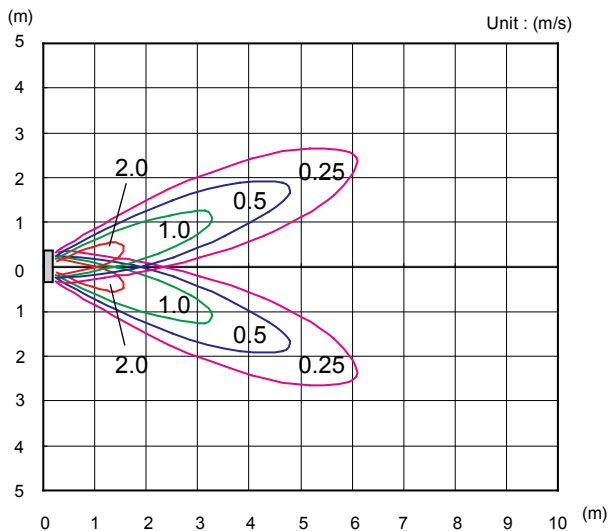
■ MODEL : AB*G14LVTA (FLOOR CONSOLE)

Conditions
Fan speed : High
Operation mode : Fan

Top view
Vertical flap : Up
Horizontal flap : Center



Top view
Vertical flap : Up
Horizontal flap : Right & Left



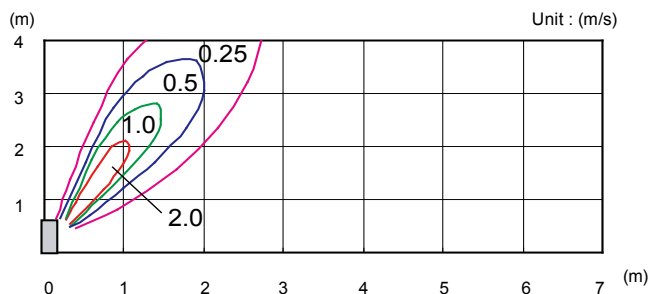
Side view
Vertical flap : Down
Horizontal flap : Center



Side view
Vertical flap : Center
Horizontal flap : Center



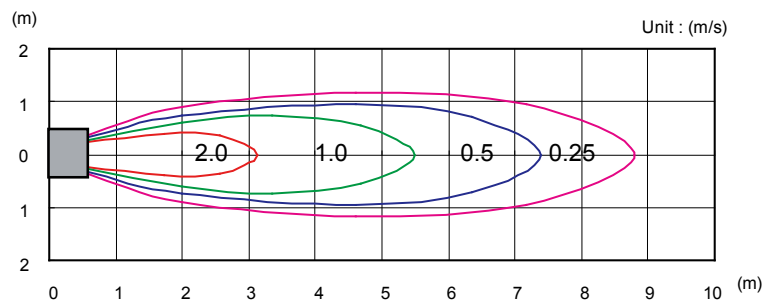
Side view
Vertical flap : Up
Horizontal flap : Center



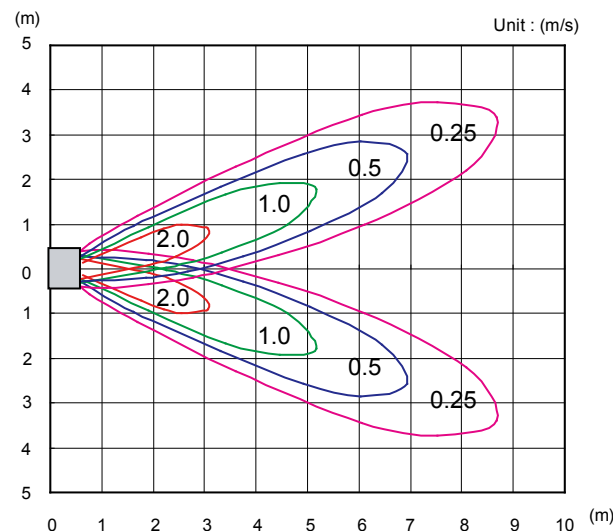
■ **MODEL : AB*G18LVTA, AB*G18LVTB** (UNDER CEILING)

Conditions
Fan speed : High
Operation mode : Fan

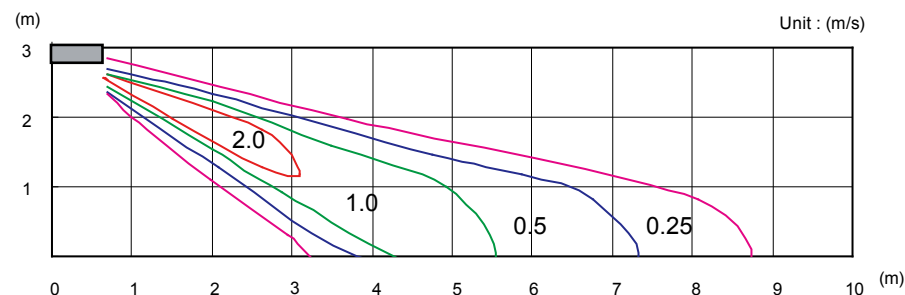
Top view
Vertical flap : Up
Horizontal flap : Center



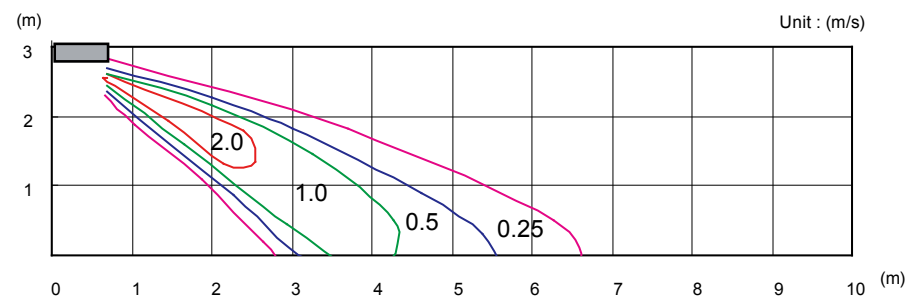
Top view
Vertical flap : Up
Horizontal flap : Right & Left



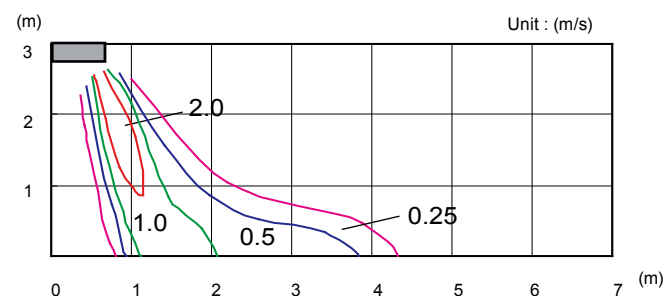
Side view
Vertical flap : Up
Horizontal flap : Center



Side view
Vertical flap : Center
Horizontal flap : Center



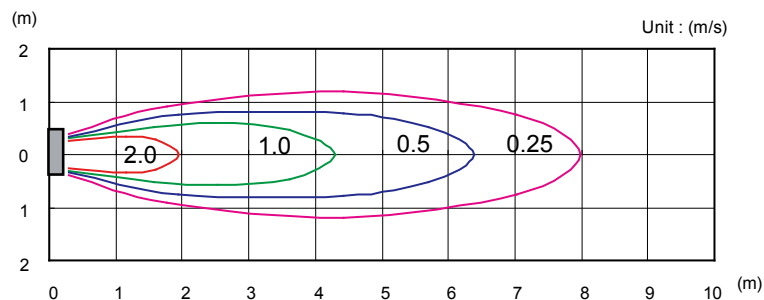
Side view
Vertical flap : Down
Horizontal flap : Center



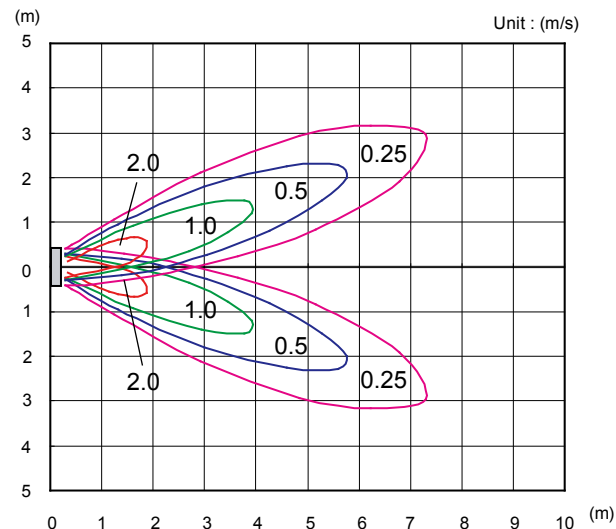
■ **MODEL : AB*G18LVTA, AB*G18LVTB** (FLOOR CONSOLE)

Conditions
Fan speed : High
Operation mode : Fan

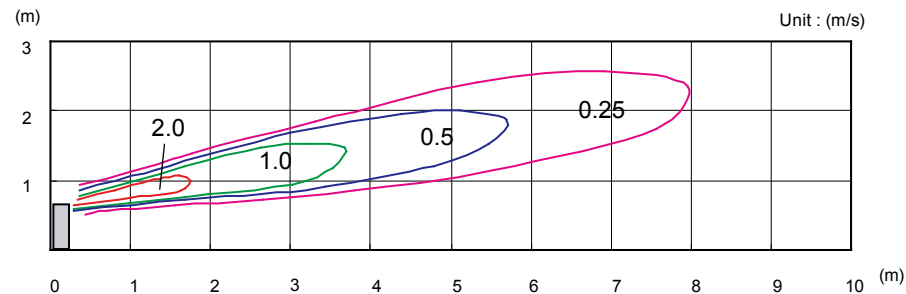
Top view
Vertical flap : Up
Horizontal flap : Center



Top view
Vertical flap : Up
Horizontal flap : Right & Left



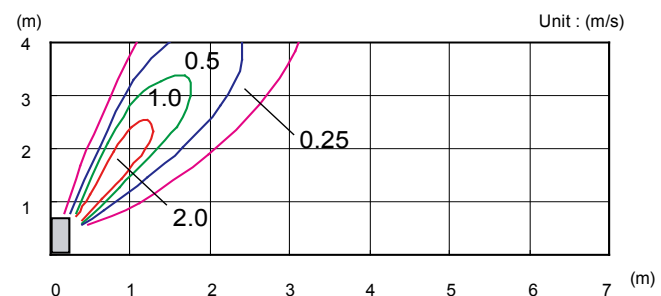
Side view
Vertical flap : Down
Horizontal flap : Center



Side view
Vertical flap : Center
Horizontal flap : Center



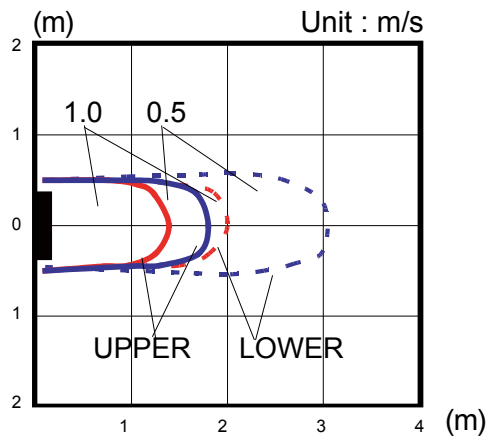
Side view
Vertical flap : Up
Horizontal flap : Center



6-6. FLOOR TYPE

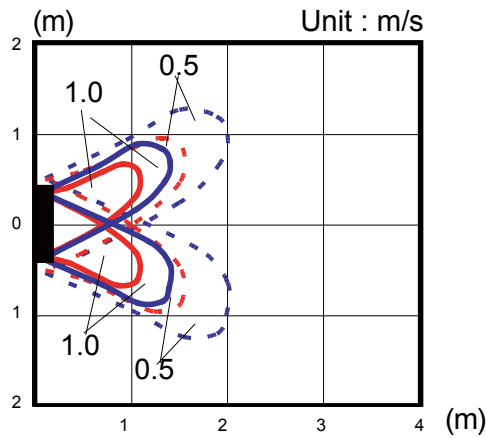
■ MODELS : AG*G09LVCA, AG*G12LVCA, AG*G14LVCA

Top view
Vertical flap : Down
Horizontal flap : Center

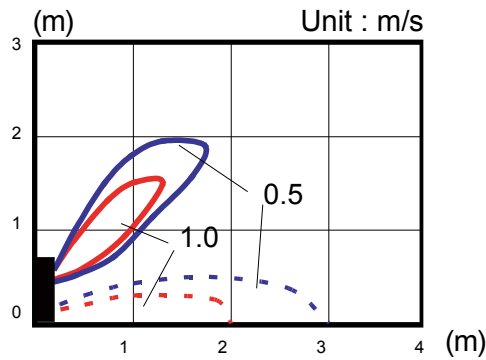


Conditions
Fan speed : High
Operation mode : Fan
Fan select : UPPER & LOWER

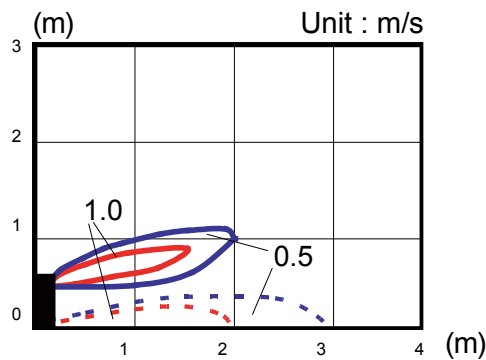
Top view
Vertical flap : Down
Horizontal flap : Right & Left



Side view
Vertical flap : Up
Horizontal flap : Center



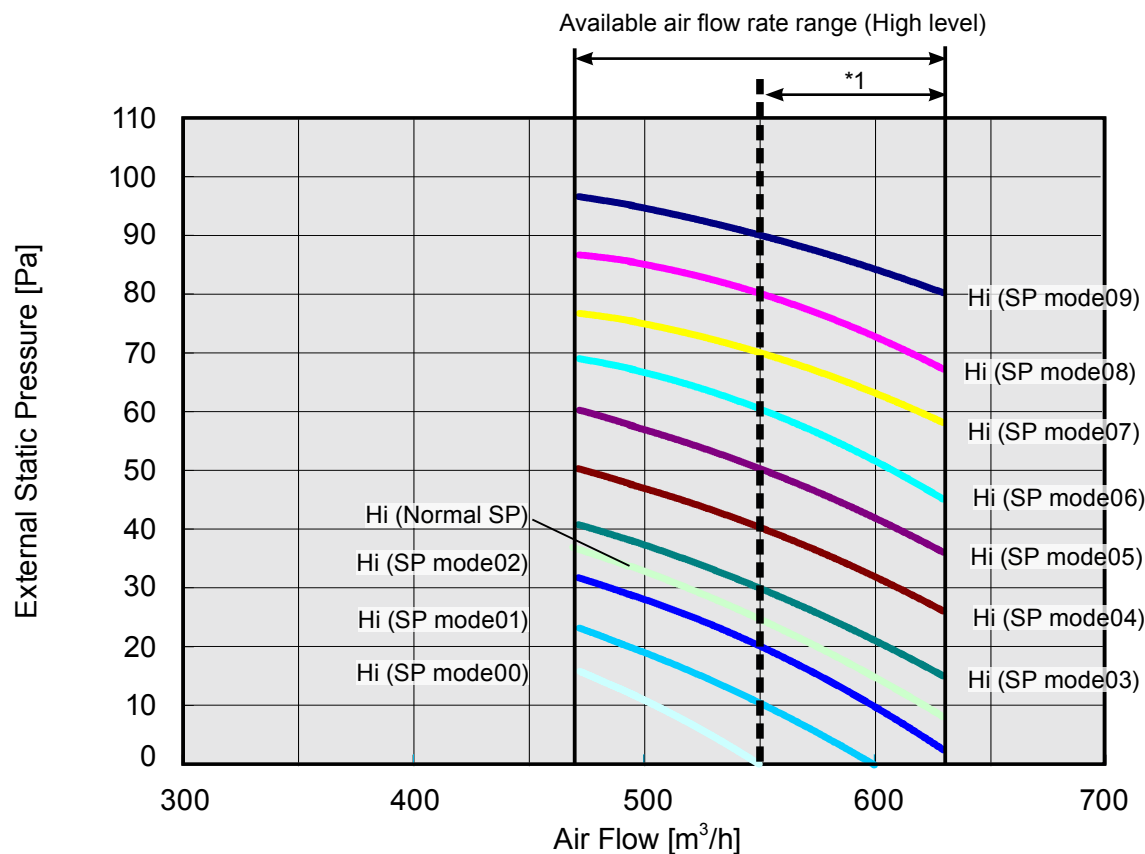
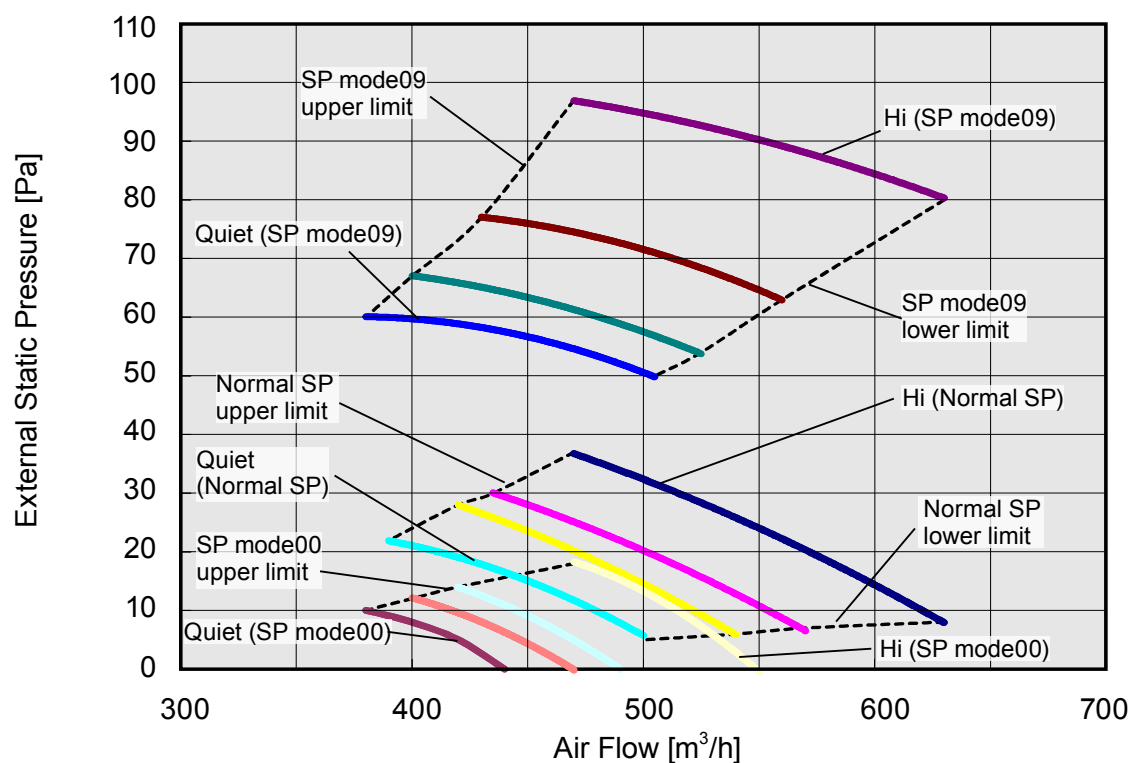
Side view
Vertical flap : Down
Horizontal flap : Center



7. FAN PERFORMANCE CURVE

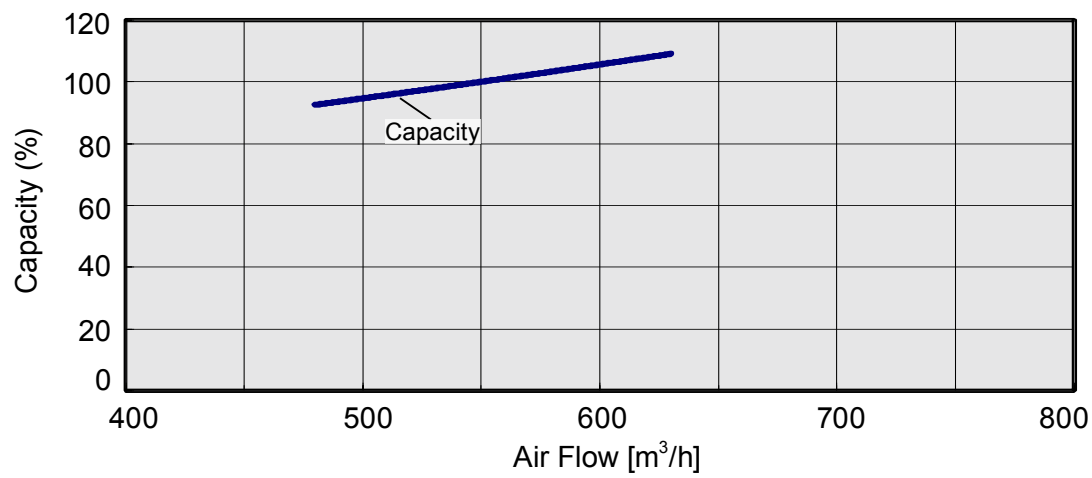
7-1. SLIM DUCT TYPE

■ MODEL : AR*G07LLTA

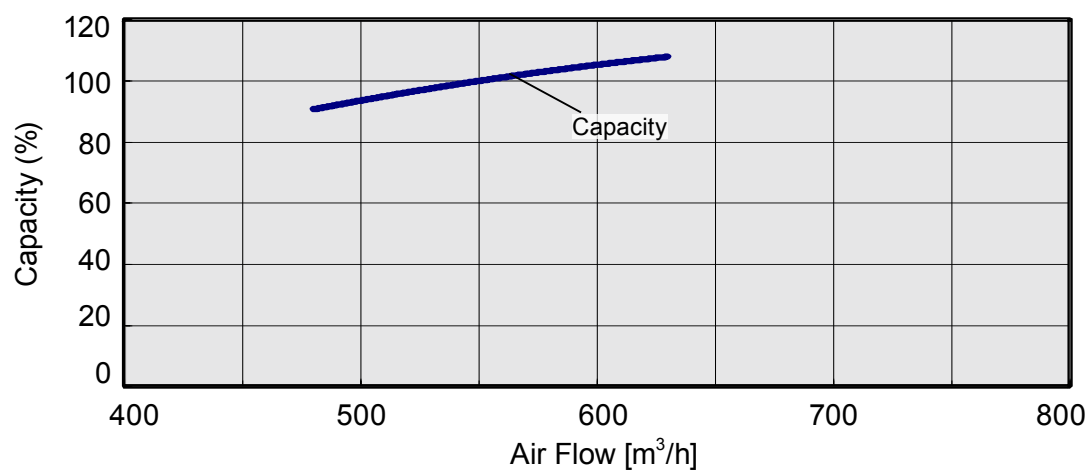


*1: Available air flow rate range when Auto louver grille (option) is installed.
Fan speed : High
Vertical flap : Up

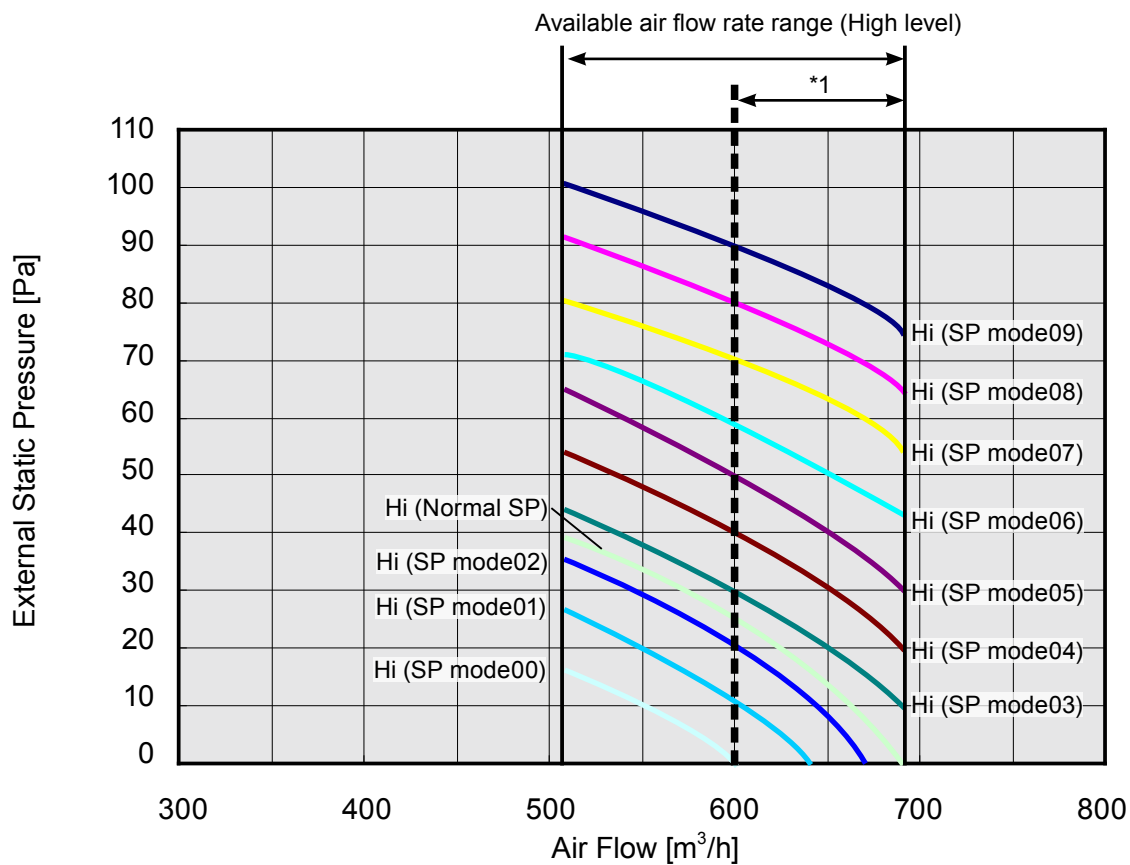
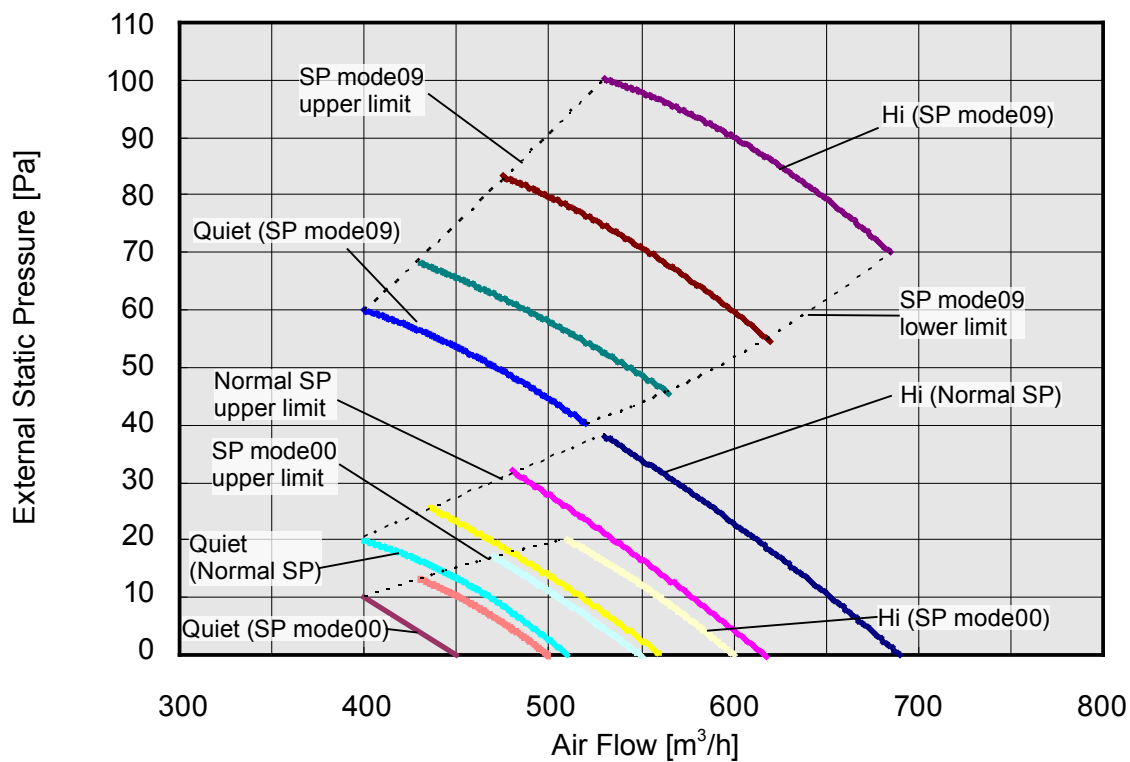
● Cooling



● Heating

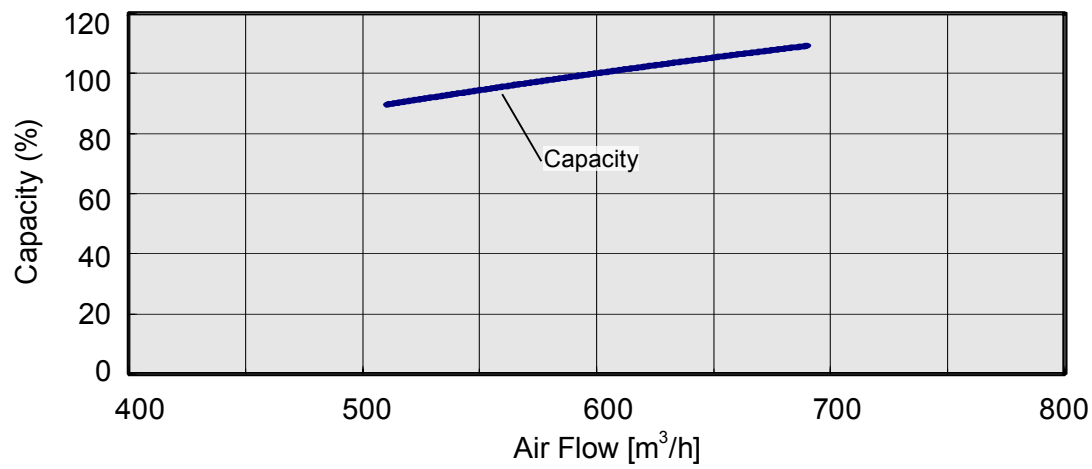


MODEL : AR*G09LLTA

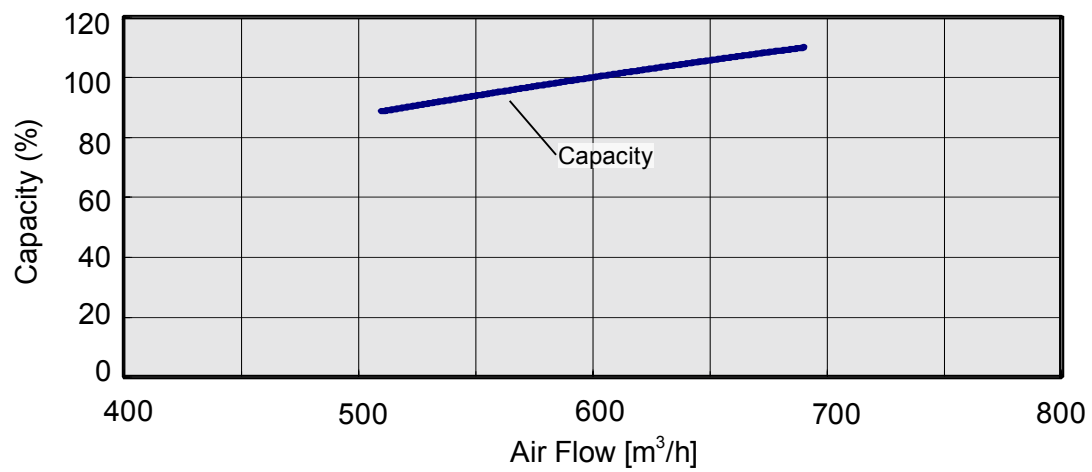


*1: Available air flow rate range when Auto louver grille (option) is installed.
Fan speed : High
Vertical flap : Up

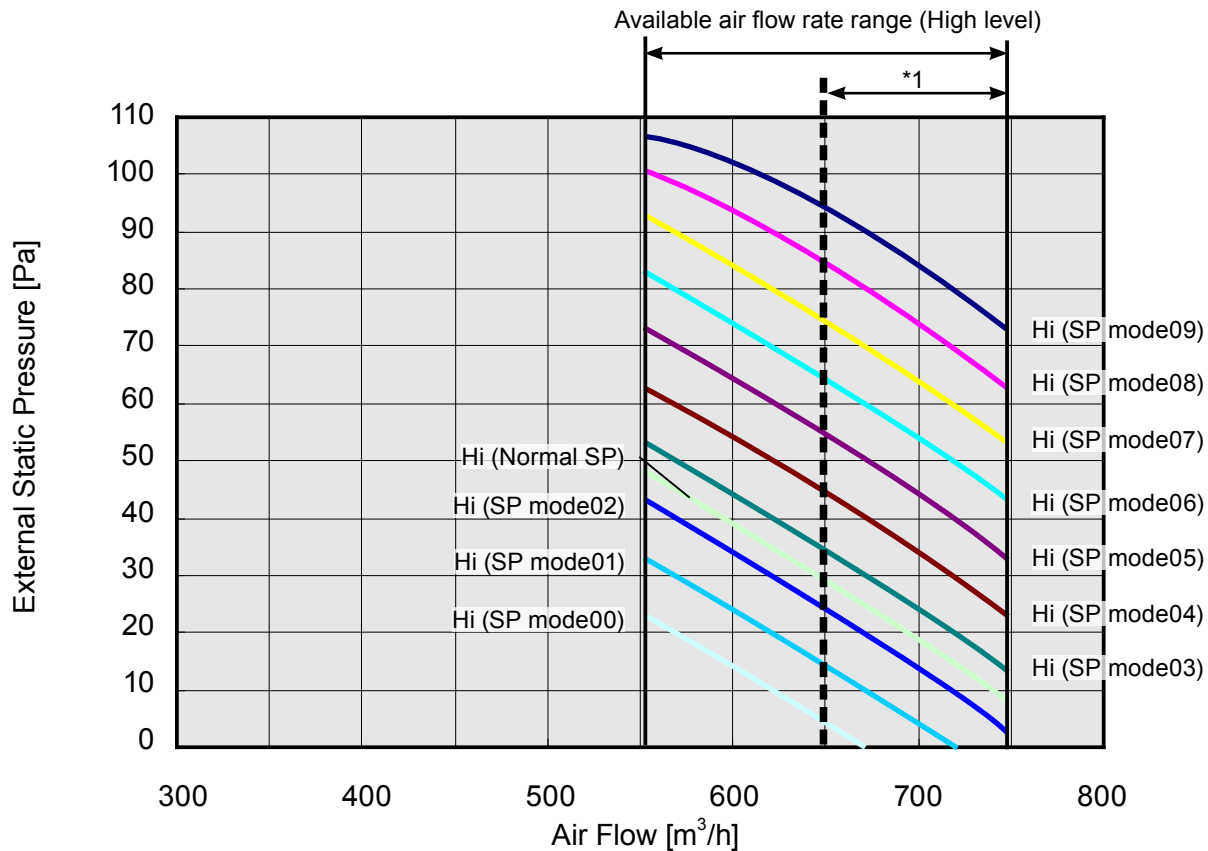
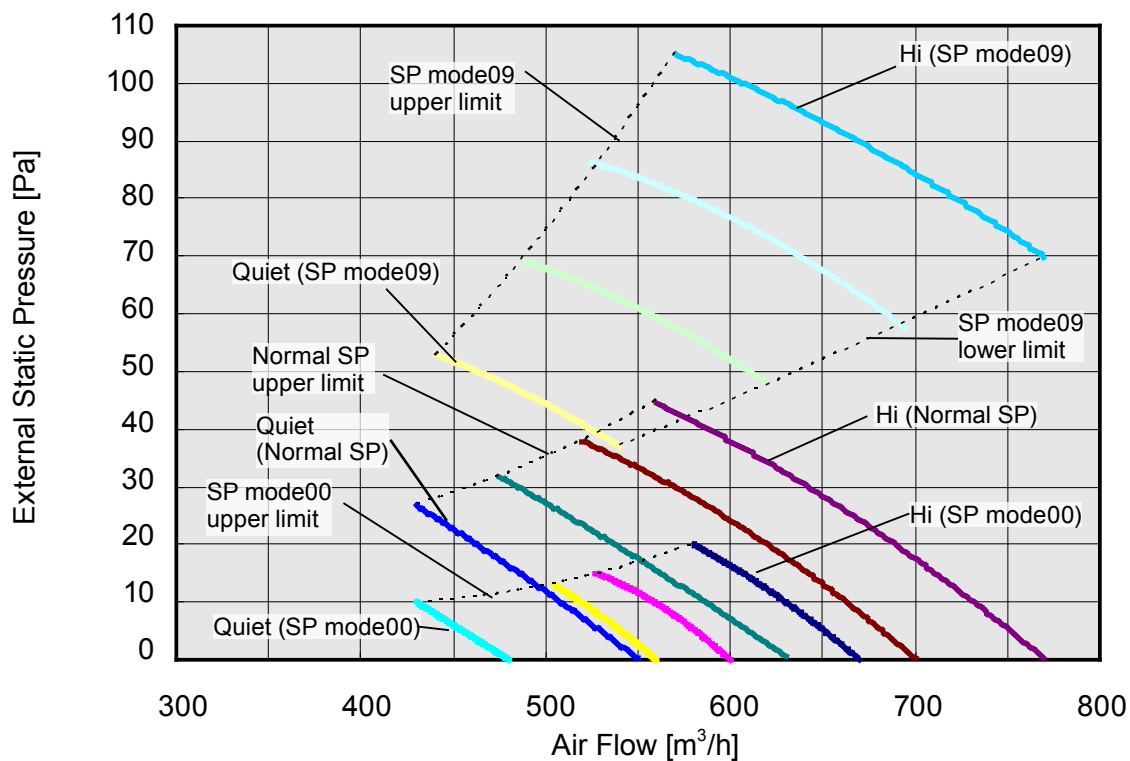
● Cooling



● Heating

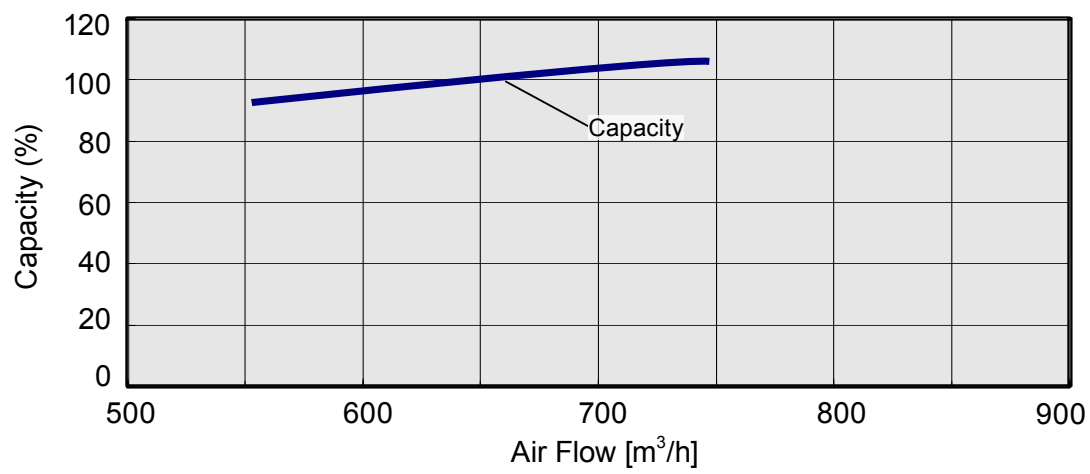


MODEL : AR*G12LLTA, AR*G12LLTB

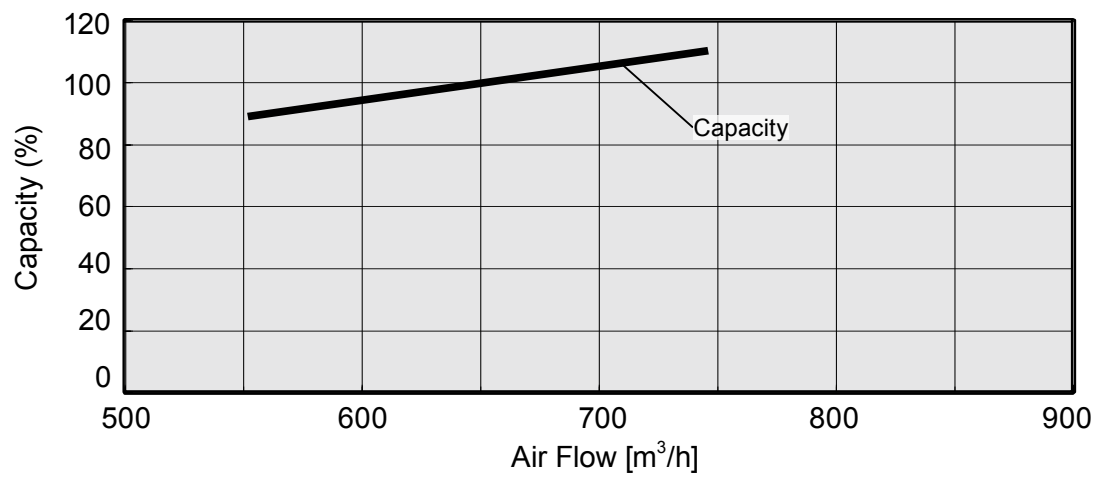


*1: Available air flow rate range when Auto louver grille (option) is installed.
Fan speed : High
Vertical flap : Up

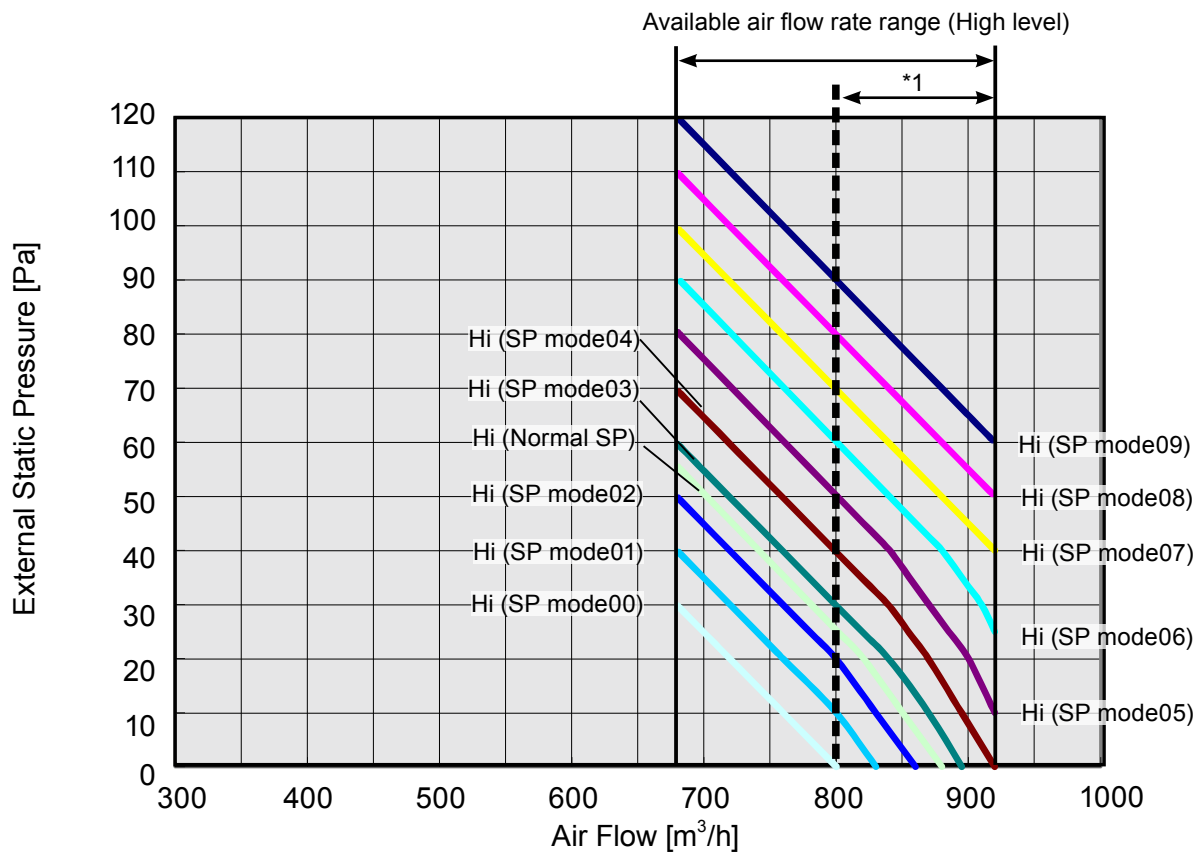
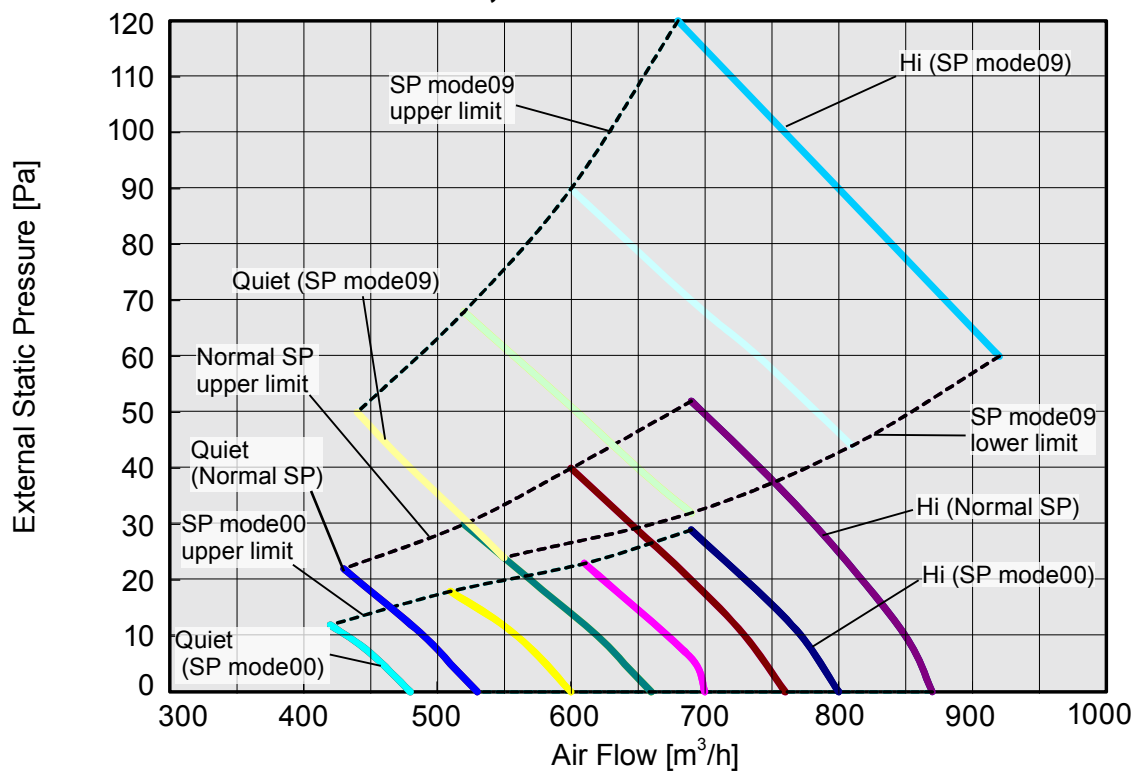
● Cooling



● Heating

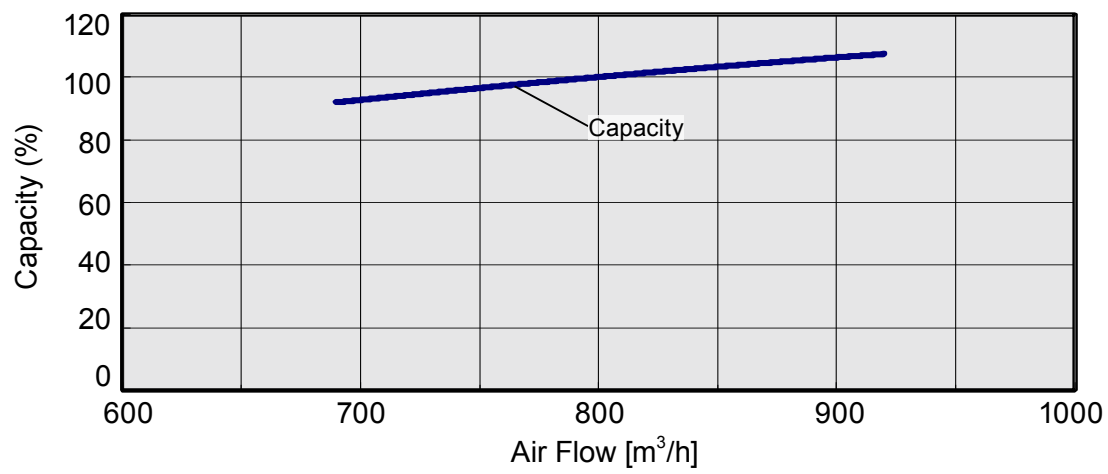


MODEL : AR*G14LLTA, AR*G14LLTB

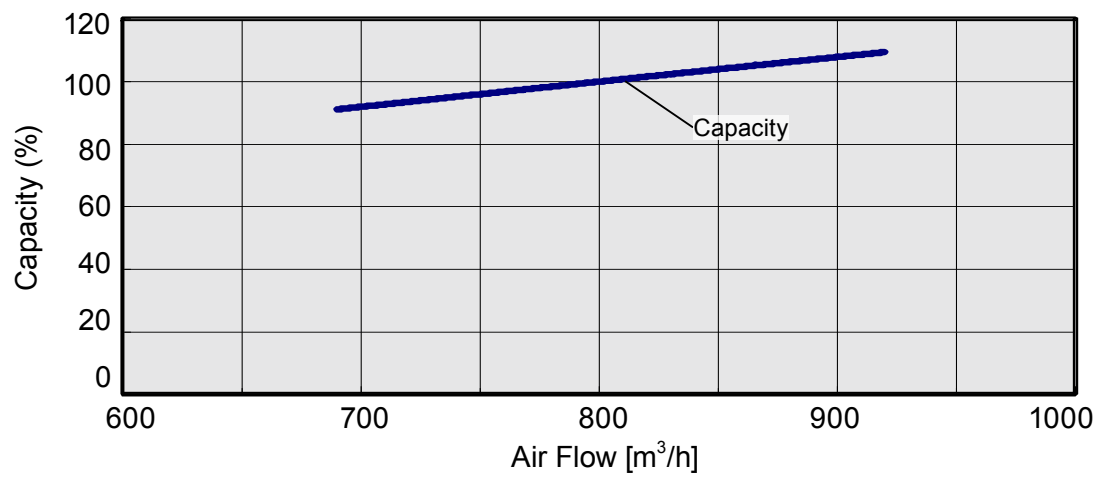


*1: Available air flow rate range when Auto louver grille (option) is installed.
Fan speed : High
Vertical flap : Up

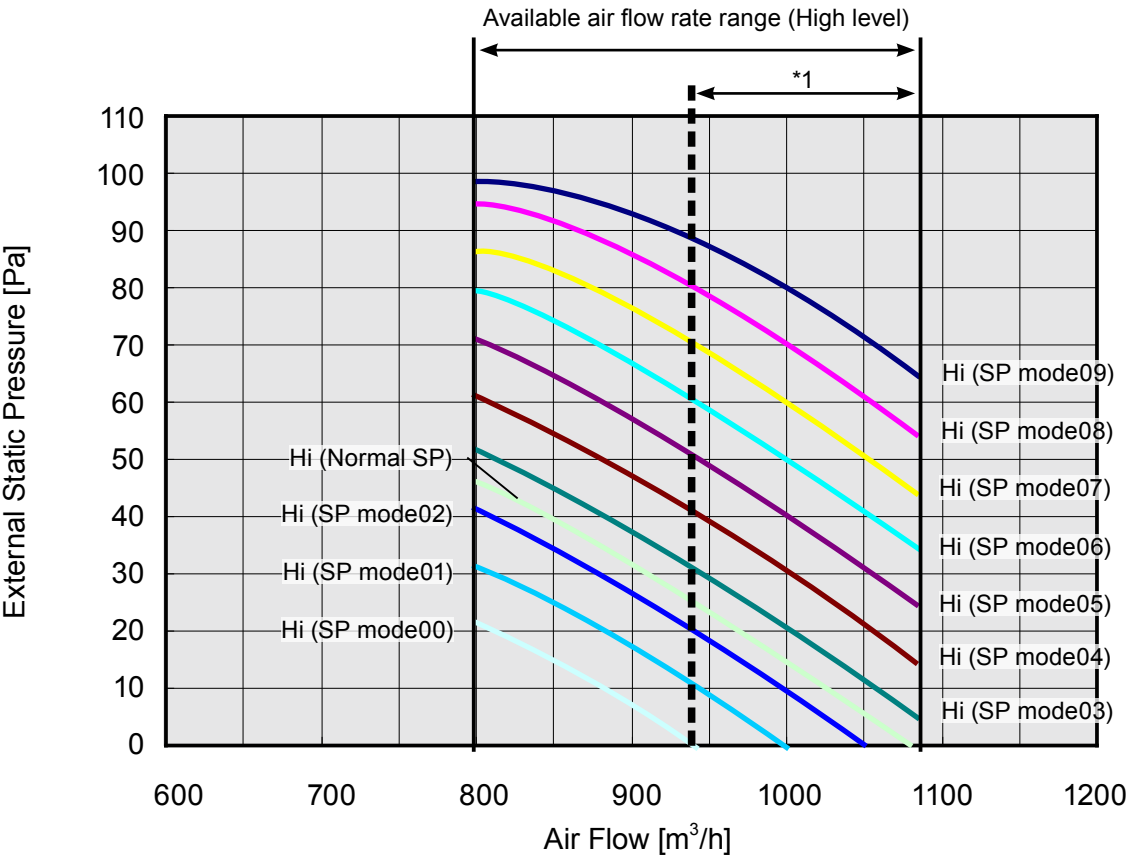
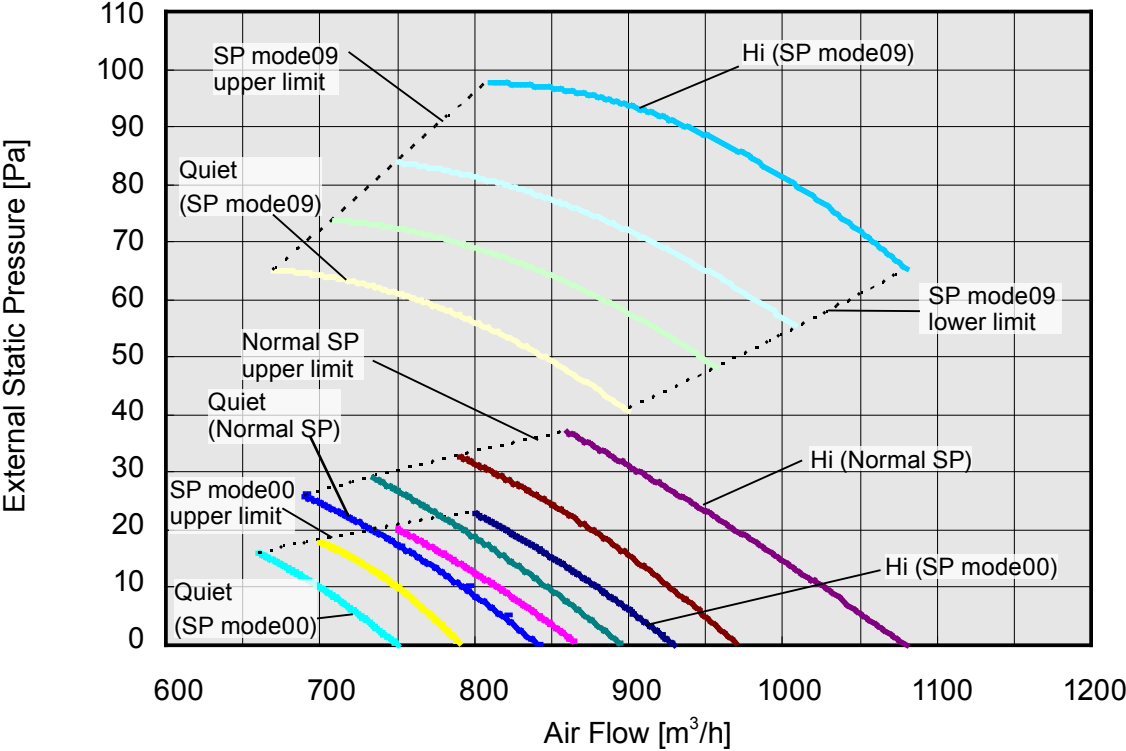
● Cooling



● Heating

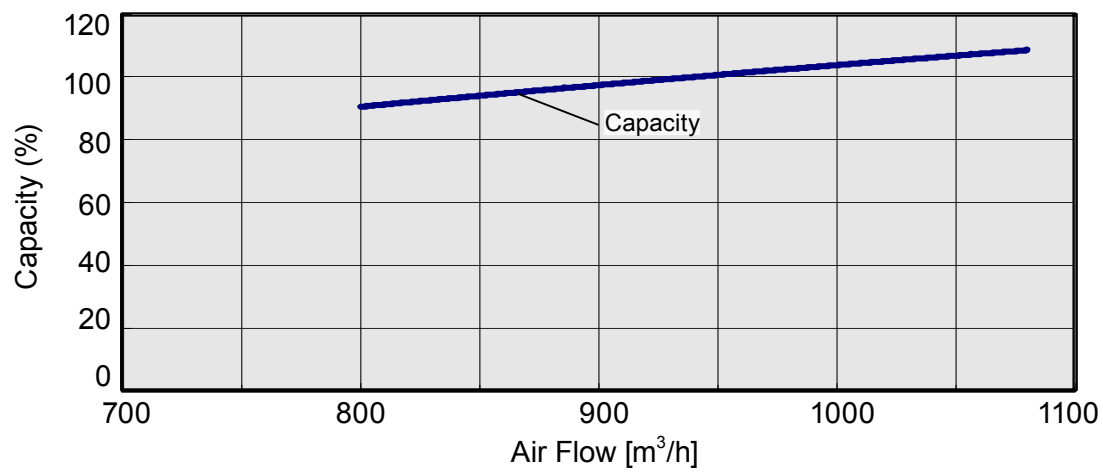


MODEL : AR*G18LLTA, AR*G18LLTB

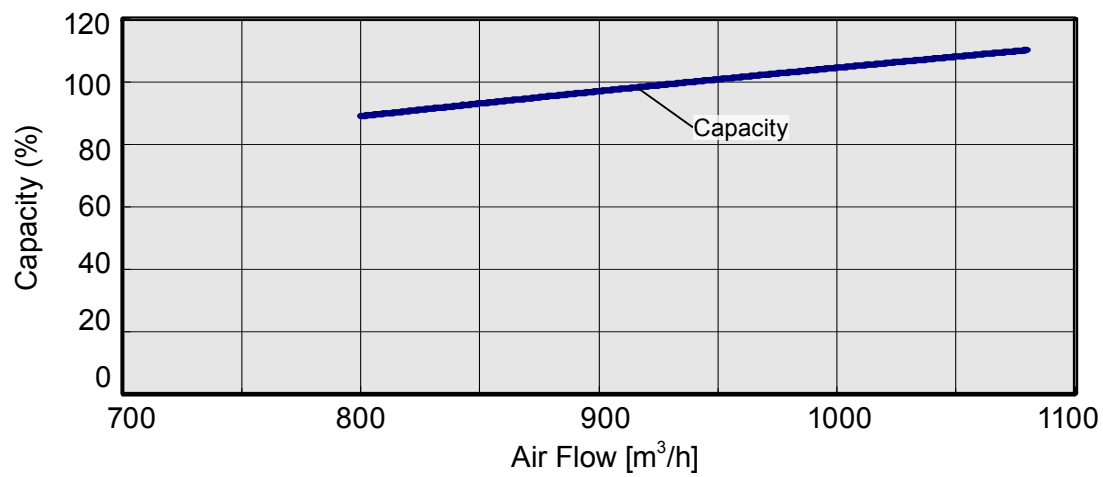


*1: Available air flow rate range when Auto louver grille (option) is installed.
Fan speed : High
Vertical flap : Up

● Cooling



● Heating



8. AIR FLOW

Type	Model	Operation mode	Fan speed	Air flow			Type	Model	Operation mode	Fan speed	Air flow		
				m³/h	l/s	CFM					m³/h	l/s	CFM
Compact Cassette	AU*G07LVLA AU*G09LVLA	Cooling	High	540	150	318	Compact Wall Mounted	AS*G07LJCA	Cooling	High	560	156	330
			Med	490	136	288				Med	500	139	294
			Low	440	122	259				Low	430	119	253
			Quiet	390	108	230				Quiet	310	86	182
		Heating	High	540	150	318			Heating	High	560	156	330
			Med	490	136	288				Med	500	139	294
			Low	440	122	259				Low	430	119	253
			Quiet	390	108	230				Quiet	330	92	194
	AU*G12LVLA AU*G12LVLB	Cooling	High	610	169	359		AS*G09LJCA	Cooling	High	600	167	353
			Med	530	147	312				Med	520	144	306
			Low	470	131	277				Low	430	119	253
			Quiet	410	114	241				Quiet	310	86	182
		Heating	High	610	169	359			Heating	High	600	167	353
			Med	530	147	312				Med	520	144	306
			Low	470	131	277				Low	430	119	253
			Quiet	410	114	241				Quiet	330	92	194
	AU*G14LVLA AU*G14LVLB	Cooling	High	680	189	400		AS*G12LJCA	Cooling	High	660	183	388
			Med	580	161	341				Med	560	156	330
			Low	490	136	288				Low	450	125	265
			Quiet	410	114	241				Quiet	310	86	182
		Heating	High	700	194	412			Heating	High	660	183	388
			Med	620	172	365				Med	560	156	330
			Low	550	153	324				Low	470	131	277
			Quiet	430	119	253				Quiet	330	92	194
	AU*G18LVLA AU*G18LVLB	Cooling	High	750	208	441		AS*G07LUCA	Cooling	High	570	158	335
			Med	610	169	359				Med	520	144	306
			Low	520	144	306				Low	470	131	276
			Quiet	410	114	241				Quiet	330	92	194
		Heating	High	800	222	471			Heating	High	570	158	335
			Med	710	197	418				Med	520	144	306
			Low	600	167	353				Low	470	131	276
			Quiet	450	125	265				Quiet	330	92	194
Slim Duct	AR*G07LLTA	Cooling	High	550	153	324	Compact Wall Mounted	AS*G09LUCA	Cooling	High	600	167	353
			Med	490	136	288				Med	550	153	324
			Low	470	131	277				Low	470	131	276
			Quiet	440	122	259				Quiet	330	92	194
		Heating	High	550	153	324			Heating	High	600	167	353
			Med	490	136	288				Med	550	153	324
			Low	470	131	277				Low	470	131	276
			Quiet	440	122	259				Quiet	330	92	194
	AR*G09LLTA	Cooling	High	600	167	353		AS*G12LUCA	Cooling	High	660	183	388
			Med	550	153	324				Med	600	167	353
			Low	500	139	294				Low	530	147	312
			Quiet	450	125	265				Quiet	330	92	194
		Heating	High	600	167	353			Heating	High	660	183	388
			Med	550	153	324				Med	600	167	353
			Low	500	139	294				Low	530	147	312
			Quiet	450	125	265				Quiet	330	92	194
	AR*G12LLTA AR*G12LLTB	Cooling	High	650	181	383		AS*G14LUCA	Cooling	High	710	197	418
			Med	600	167	353				Med	640	178	376
			Low	550	153	324				Low	570	158	335
			Quiet	480	133	283				Quiet	390	108	229
		Heating	High	650	181	383			Heating	High	710	197	418
			Med	600	167	353				Med	640	178	376
			Low	550	153	324				Low	590	164	347
			Quiet	480	133	283				Quiet	430	119	253
	AR*G14LLTA AR*G14LLTB	Cooling	High	800	222	471				High	800	222	471
			Med	700	194	412				Med	700	194	412
			Low	600	167	353				Low	600	167	353
			Quiet	480	133	283				Quiet	480	133	283
		Heating	High	800	222	471				High	800	222	471
			Med	700	194	412				Med	700	194	412
			Low	600	167	353				Low	600	167	353
			Quiet	480	133	283				Quiet	480	133	283
	AR*G18LLTA AR*G18LLTB	Cooling	High	940	261	553				High	940	261	553
			Med	880	244	518				Med	880	244	518
			Low	820	227	483				Low	820	227	483
			Quiet	750	208	441				Quiet	750	208	441
		Heating	High	940	261	553				High	940	261	553
			Med	880	244	518				Med	880	244	518
			Low	820	227	483				Low	820	227	483
			Quiet	750	208	441				Quiet	750	208	441

Conversion Factor
1 m³/h = 0.2778 l/s = 0.5886 CFM
3.6 m³/h = 1 l/s
1.699 m³/h = 1 CFM

Type	Model	Operation mode	Fan speed	Air flow		
				m³/h	l/s	CFM
Wall Mounted	AS*G18LFCA	Cooling	High	900	250	530
			Med	740	206	436
			Low	620	172	365
			Quiet	550	153	324
		Heating	High	900	250	530
			Med	740	206	436
			Low	620	172	365
			Quiet	550	153	324
	AS*G24LFCA	Cooling	High	1120	311	659
			Med	900	250	530
			Low	740	206	436
			Quiet	620	172	365
		Heating	High	1100	306	647
			Med	900	250	530
			Low	740	206	436
			Quiet	620	172	365
Floor / Ceiling	AB*G14LVTA	Cooling	High	640	178	377
			Med	590	164	347
			Low	540	150	318
			Quiet	480	133	283
		Heating	High	640	178	377
			Med	590	164	347
			Low	540	150	318
			Quiet	480	133	283
	AB*G18LVTA AB*G18LVTB	Cooling	High	780	217	459
			Med	700	194	412
			Low	560	156	330
			Quiet	500	139	294
		Heating	High	780	217	459
			Med	700	194	412
			Low	560	156	330
			Quiet	500	139	294
Floor	AG*G09LVCA	Cooling	High	530	147	312
			Med	440	122	259
			Low	360	100	212
			Quiet	270	75	159
		Heating	High	530	147	312
			Med	460	128	270
			Low	380	106	224
			Quiet	270	75	159
	AG*G12LVCA	Cooling	High	600	167	353
			Med	490	136	288
			Low	380	106	224
			Quiet	270	75	159
		Heating	High	600	167	353
			Med	510	142	300
			Low	410	114	241
			Quiet	270	75	159
	AG*G14LVCA	Cooling	High	650	181	383
			Med	520	144	306
			Low	400	111	235
			Quiet	270	75	159
		Heating	High	650	181	383
			Med	540	150	318
			Low	430	119	253
			Quiet	270	75	159

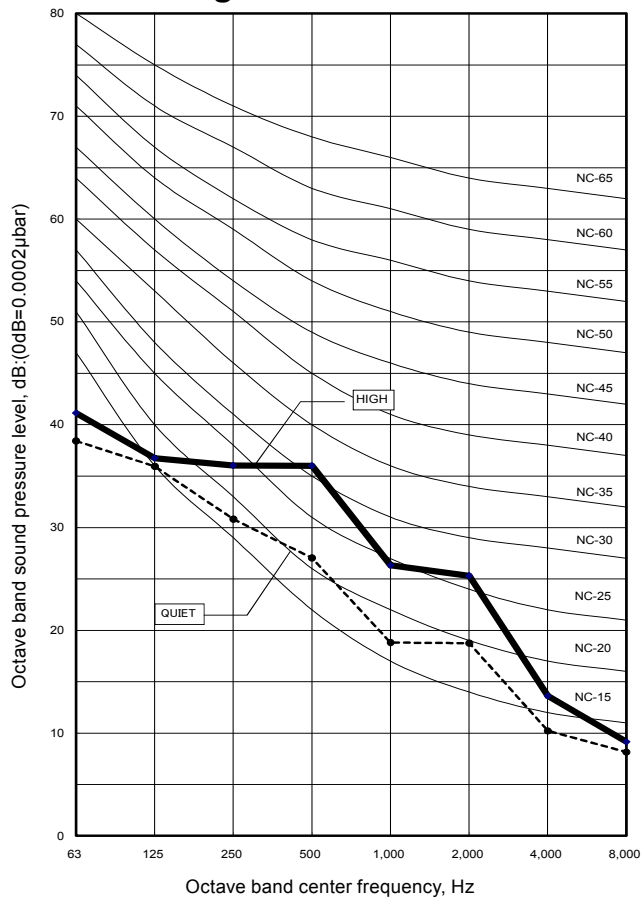
Conversion Factor
 1 m³/h = 0.2778 l/s = 0.5886 CFM
 3.6 m³/h = 1 l/s
 1.699 m³/h = 1 CFM

9. NOISE LEVEL CURVE

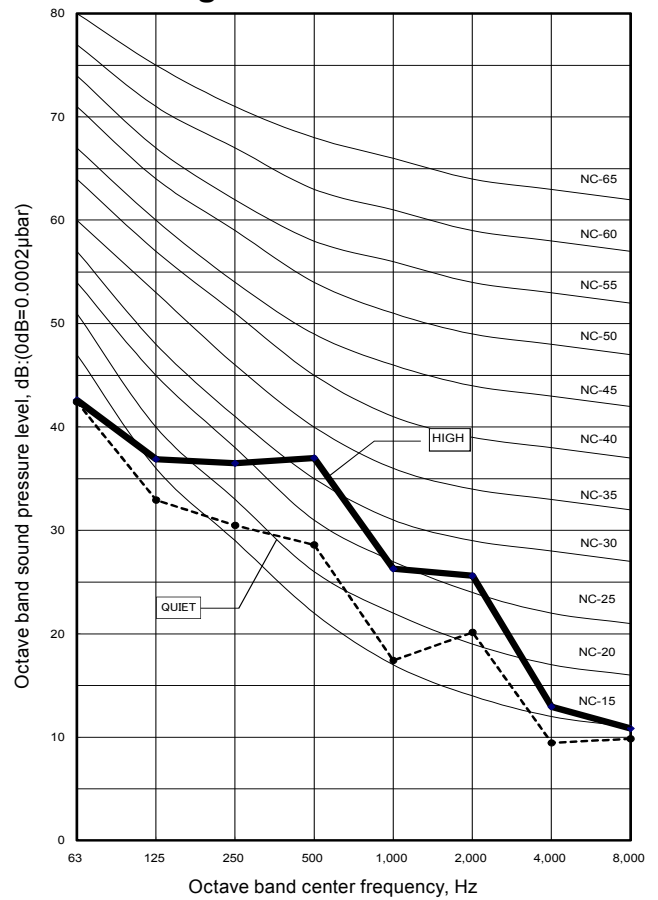
9-1. COMPACT CASSETTE TYPE

■ MODEL : AU*G07LVLA

● Cooling

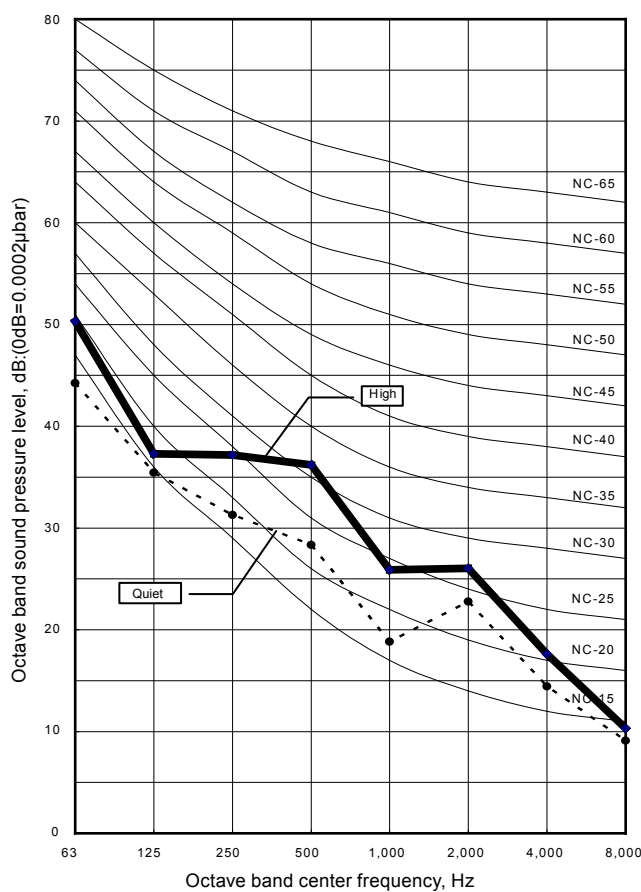


● Heating

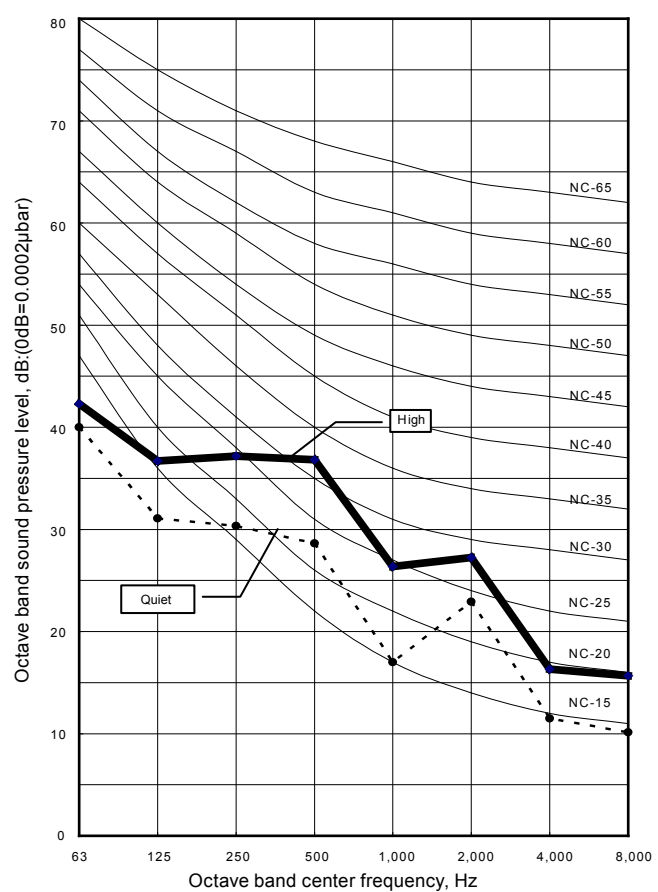


■ MODEL : AU*G09LVLA

● Cooling

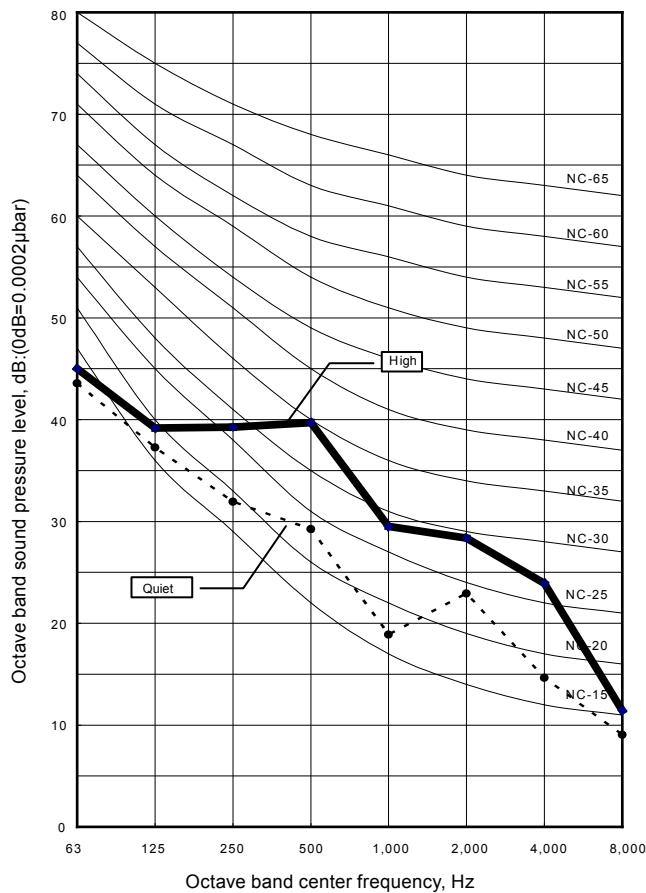


● Heating

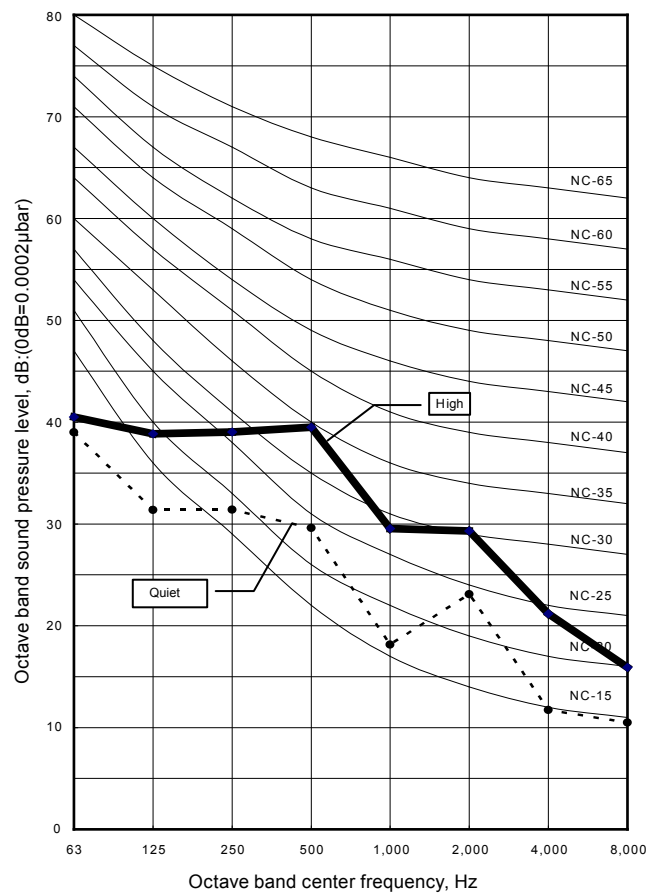


■ MODEL : AU*G12LVLA, AU*G12LVLB

● Cooling

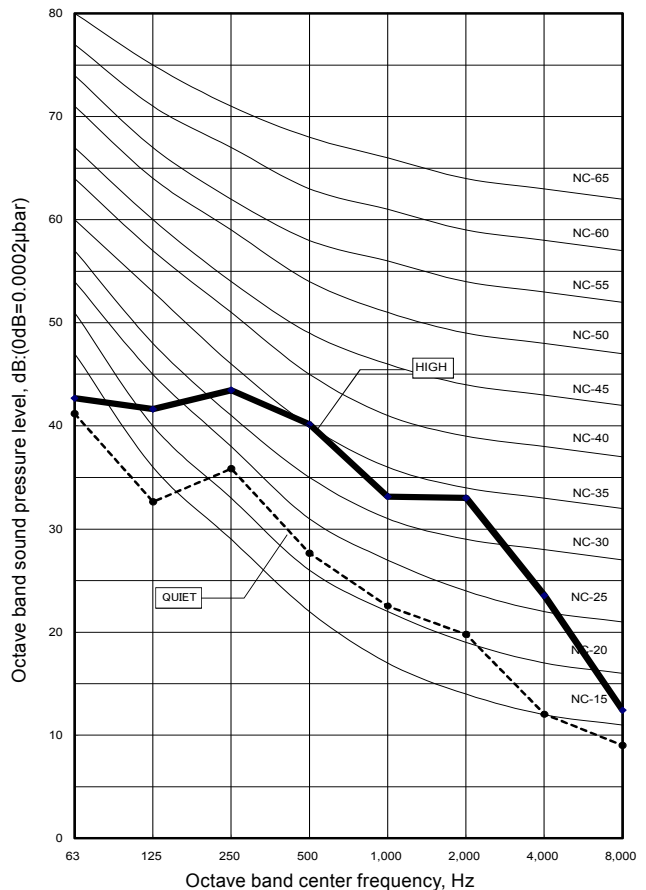


● Heating

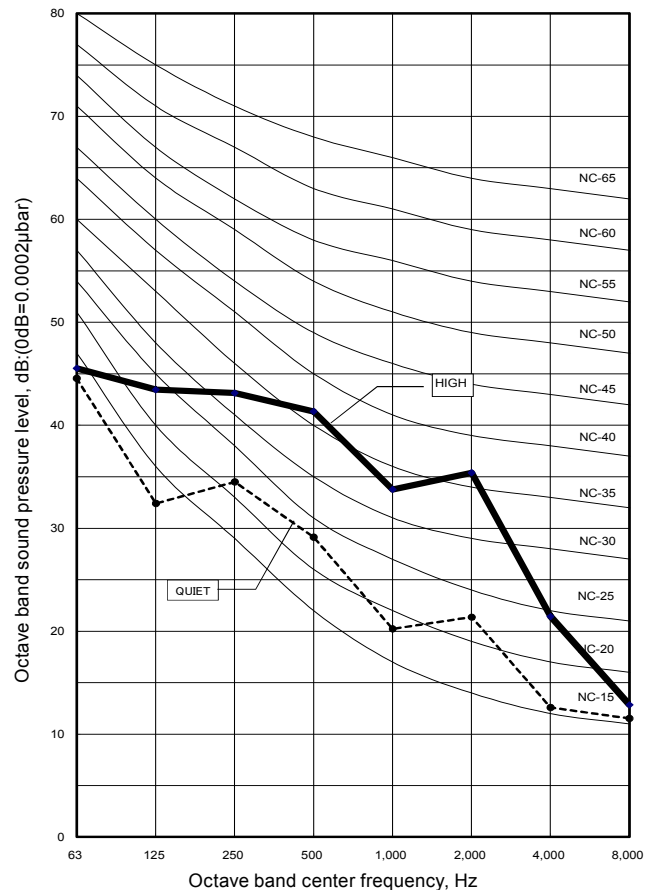


■ MODEL : AU*G14LVLA, AU*G14LVLB

● Cooling

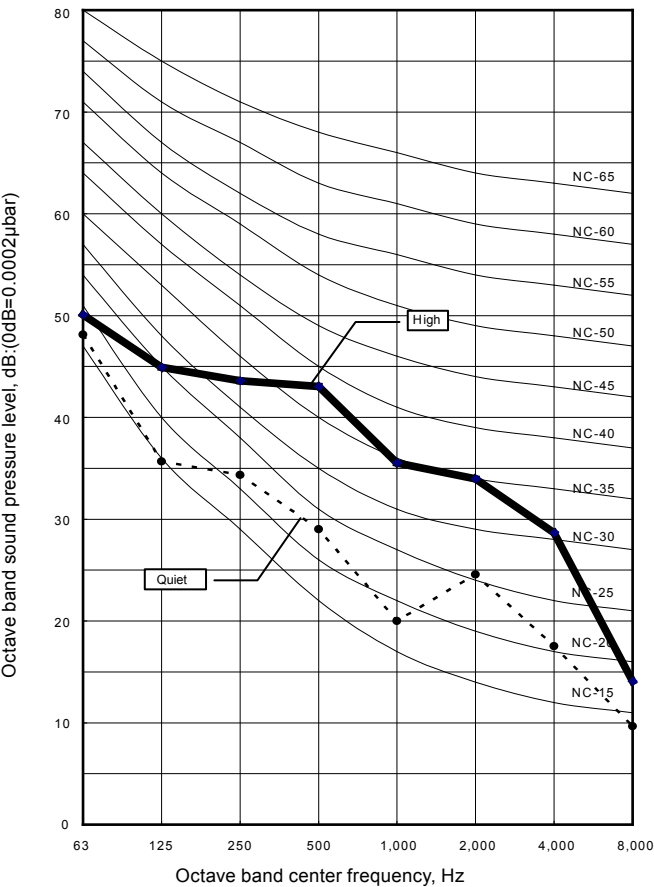


● Heating

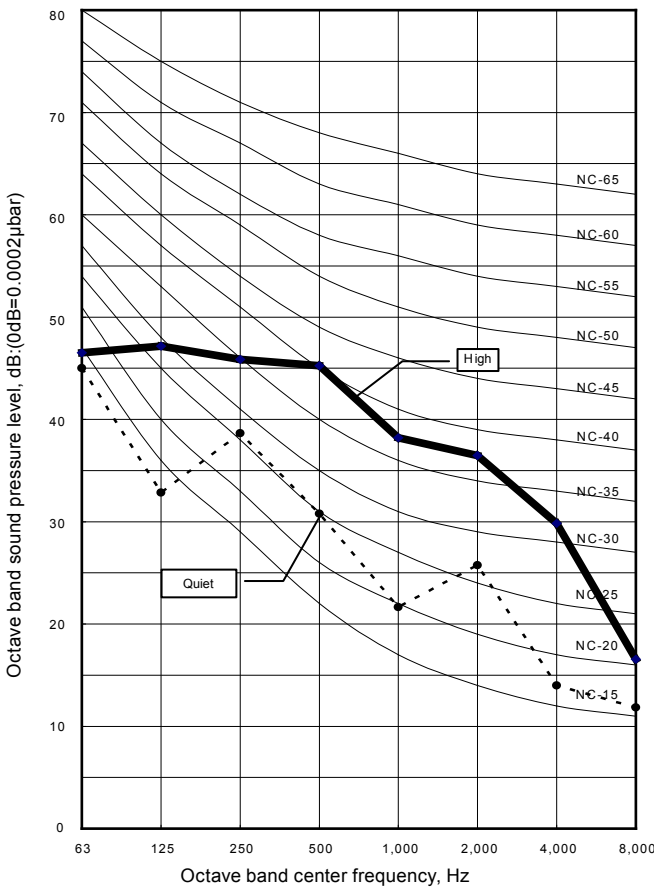


MODEL : AU*G18LVLA, AU*G18LVLB

Cooling



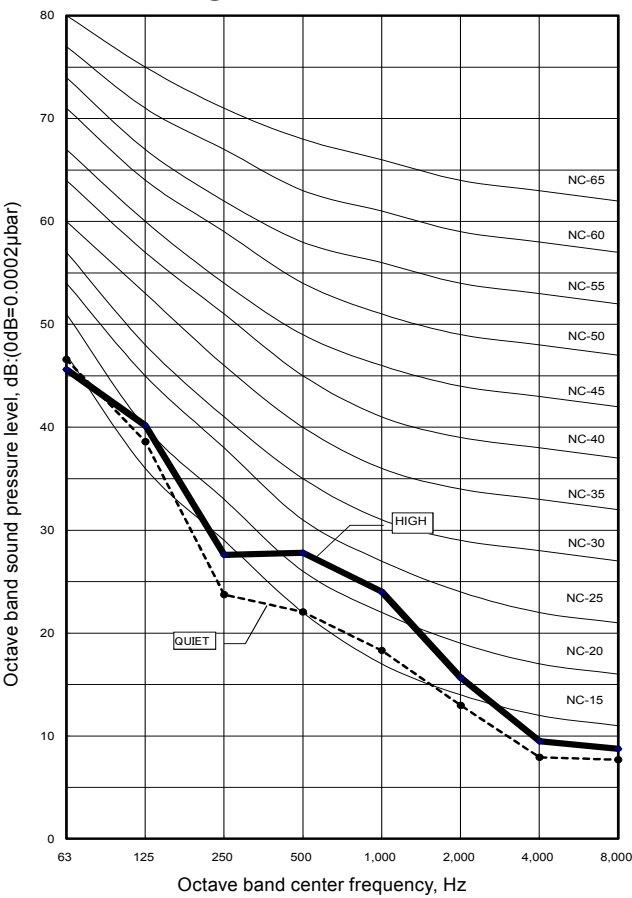
Heating



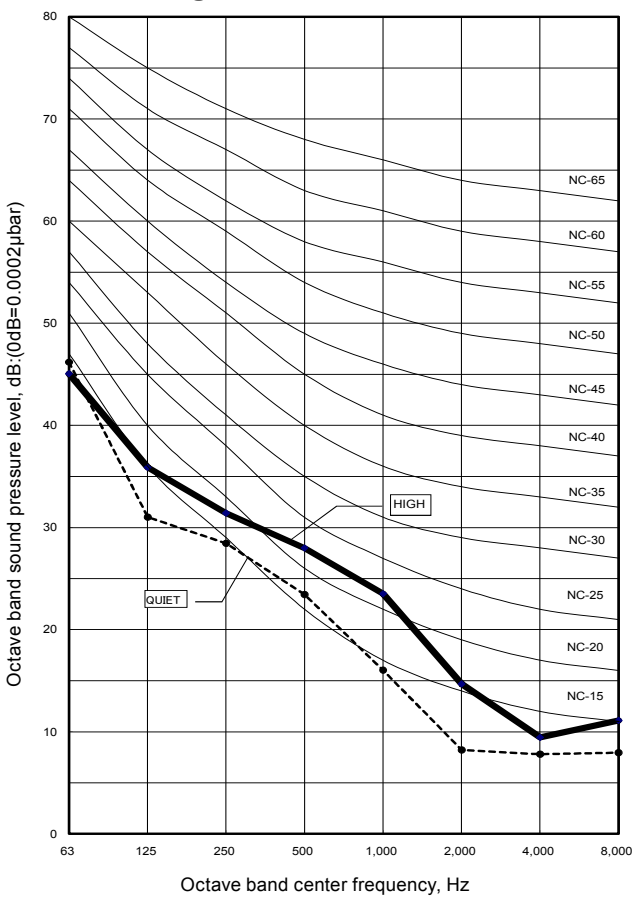
9-2. SLIM DUCT TYPE

■ MODEL : AR*G07LLTA

● Cooling

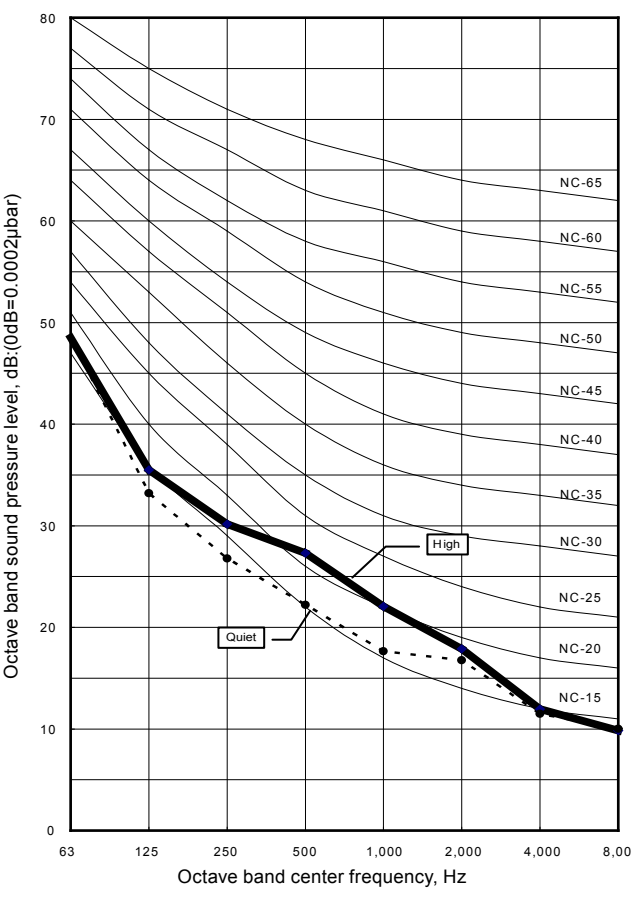


● Heating

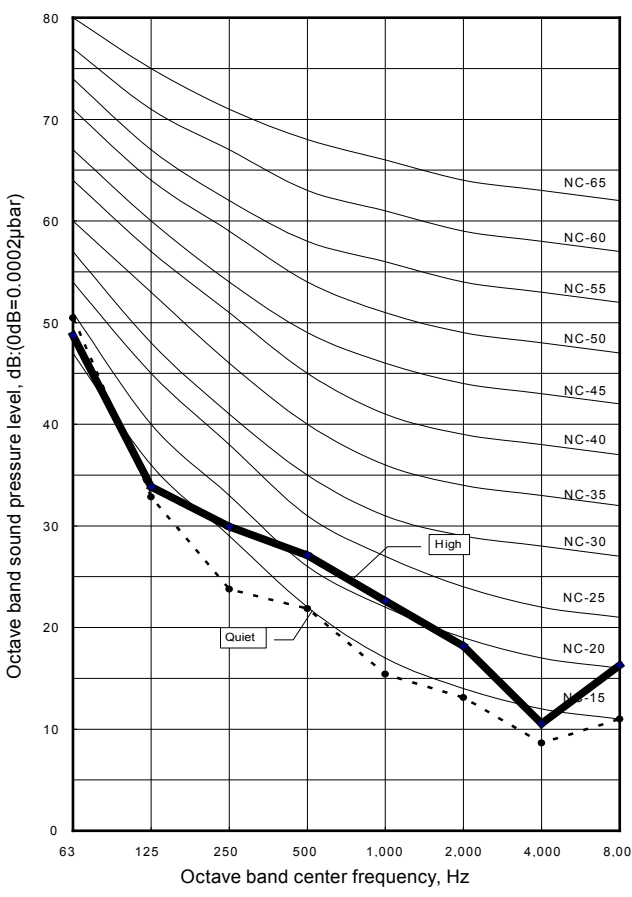


■ MODEL : AR*G09LLTA

● Cooling

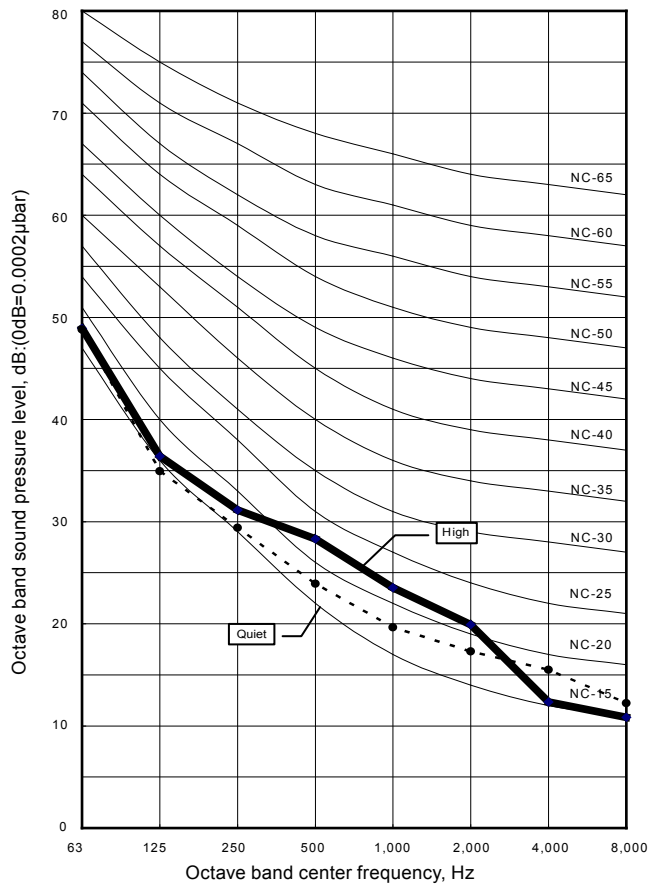


● Heating

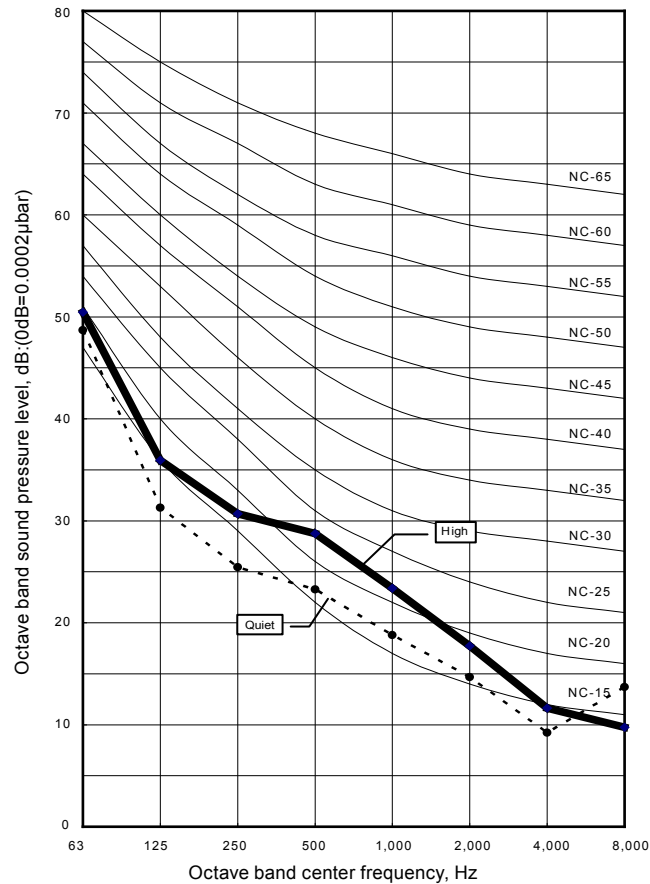


■ **MODEL : AR*G12LLTA, AR*G12LLTB**

● **Cooling**

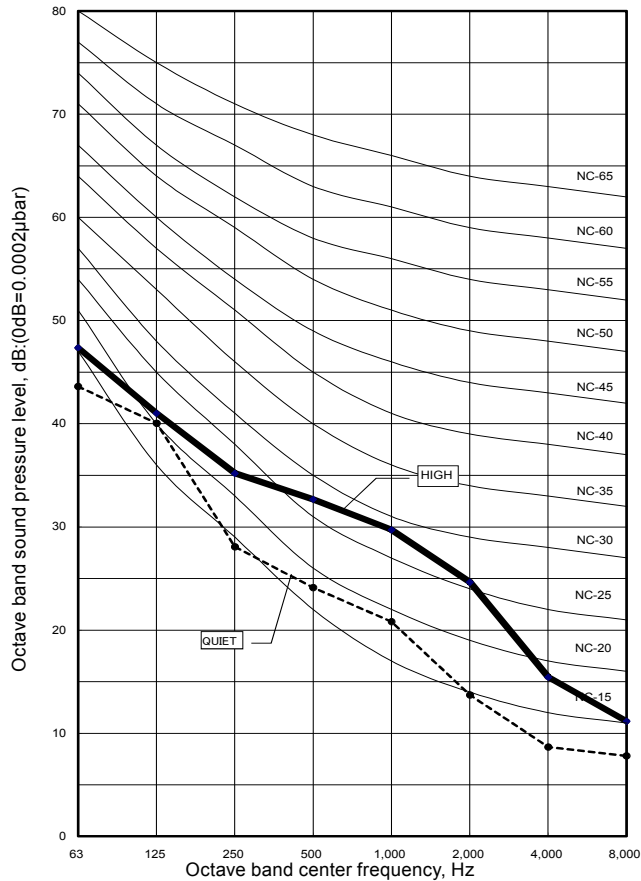


● **Heating**

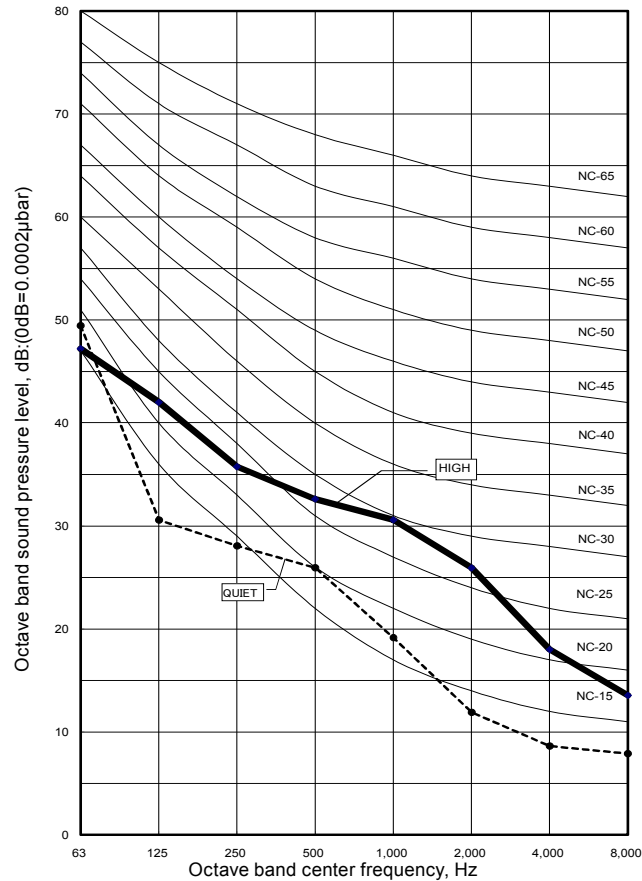


■ **MODEL : AR*G14LLTA, AR*G14LLTB**

● **Cooling**

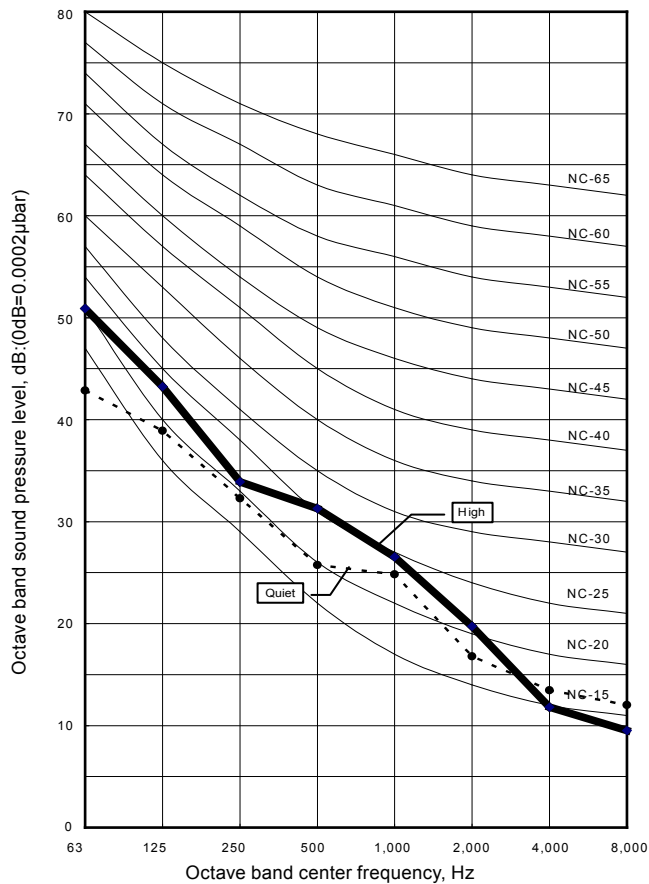


● **Heating**

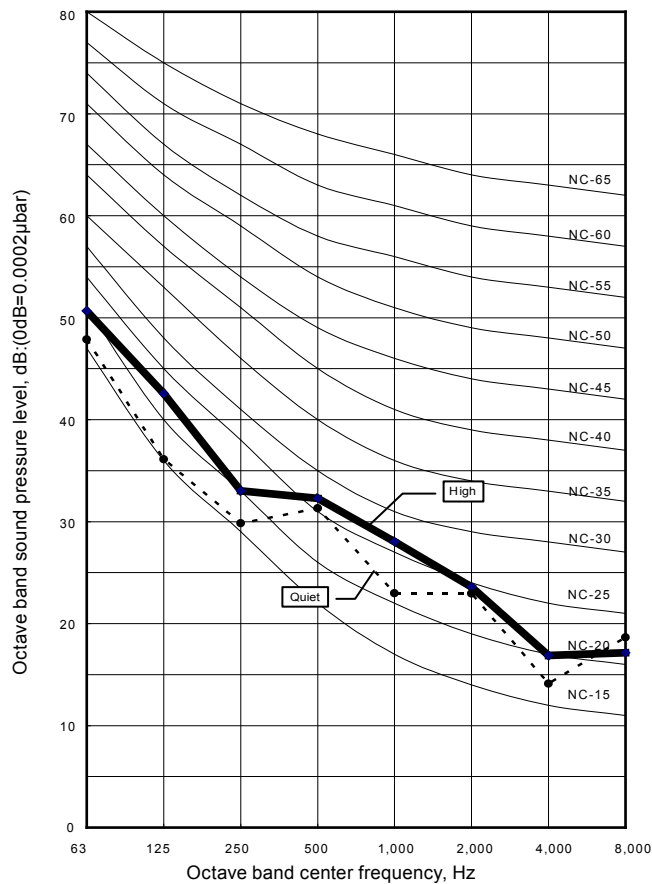


■ MODEL : AR*G18LLTA, AR*G18LLTB

● Cooling



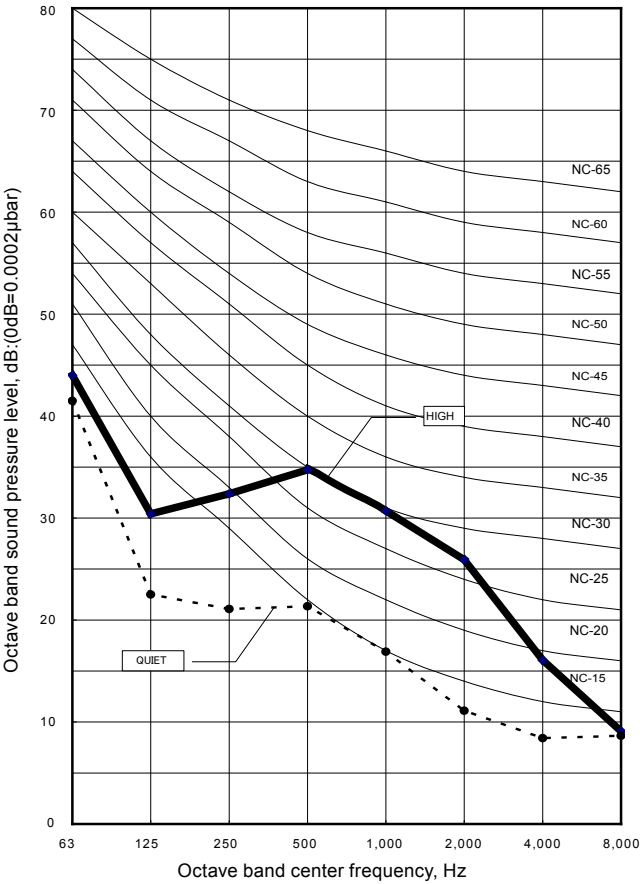
● Heating



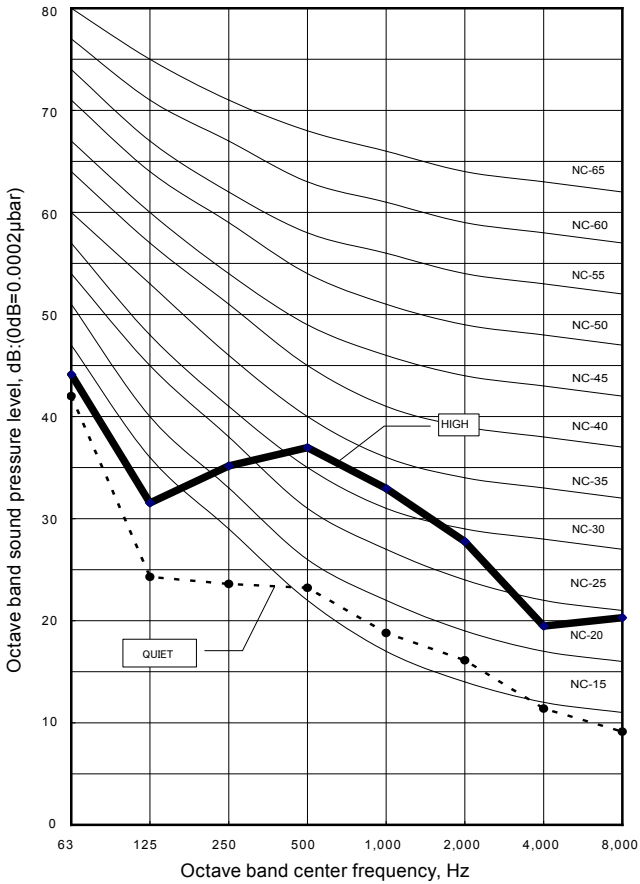
9-3. COMPACT WALL MOUNTED TYPE

■ MODEL : AS*G07LJCA

● Cooling

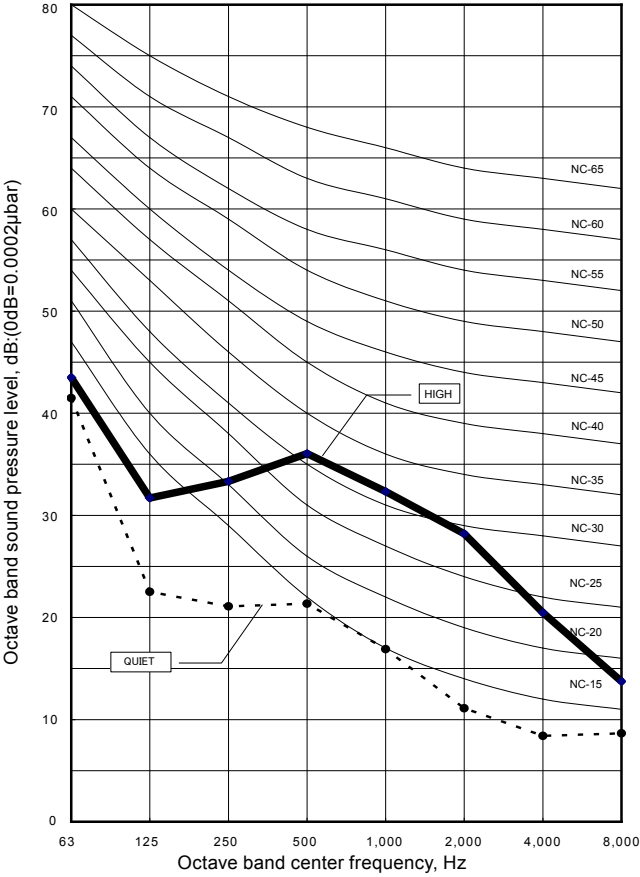


● Heating

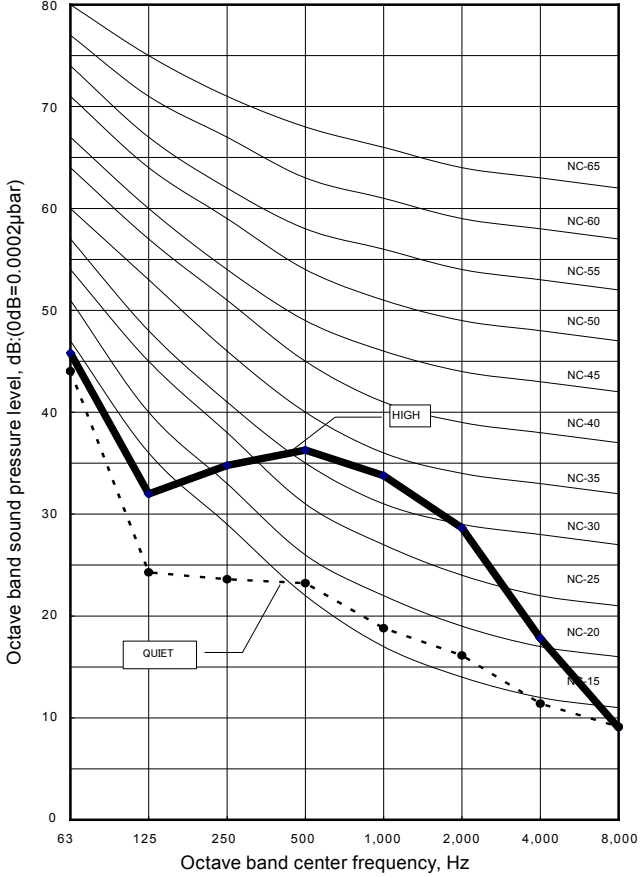


■ MODEL : AS*G09LJCA

● Cooling

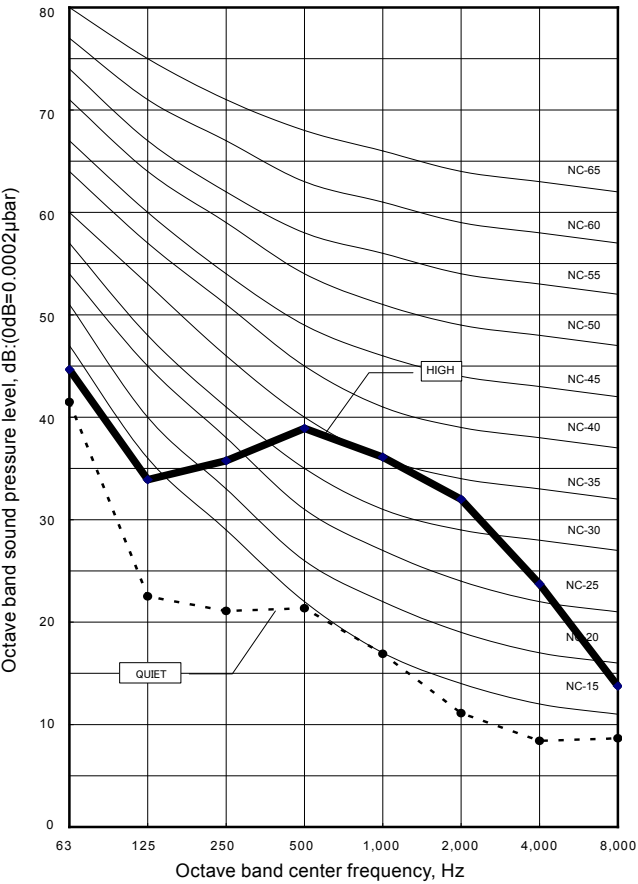


● Heating

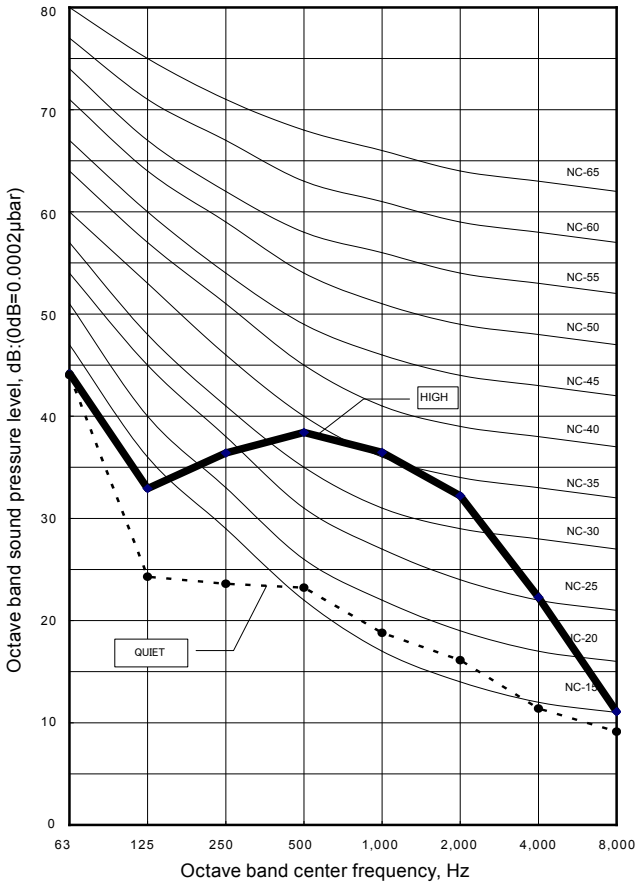


MODEL : AS*G12LJCA

Cooling

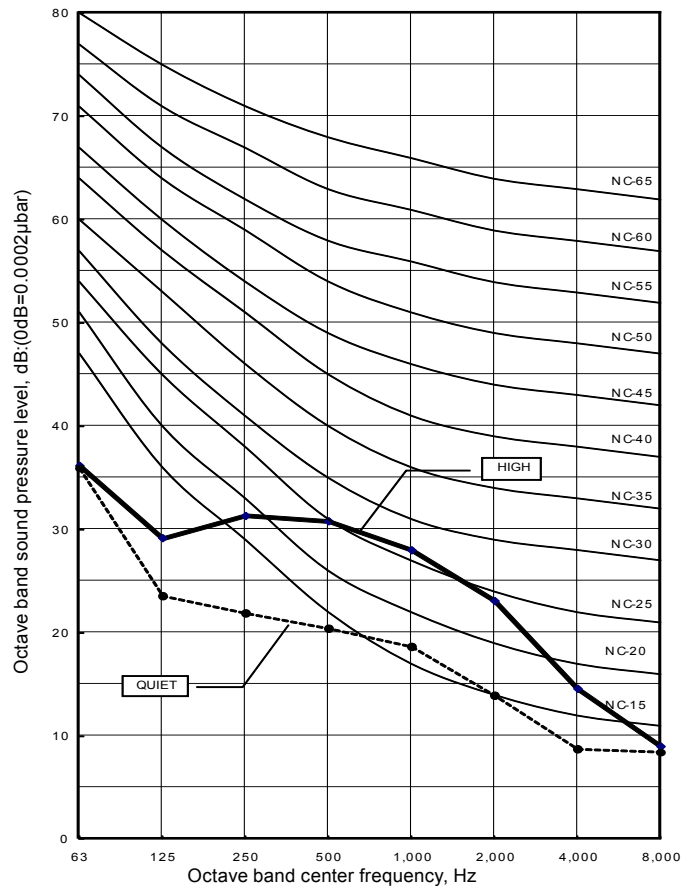


Heating

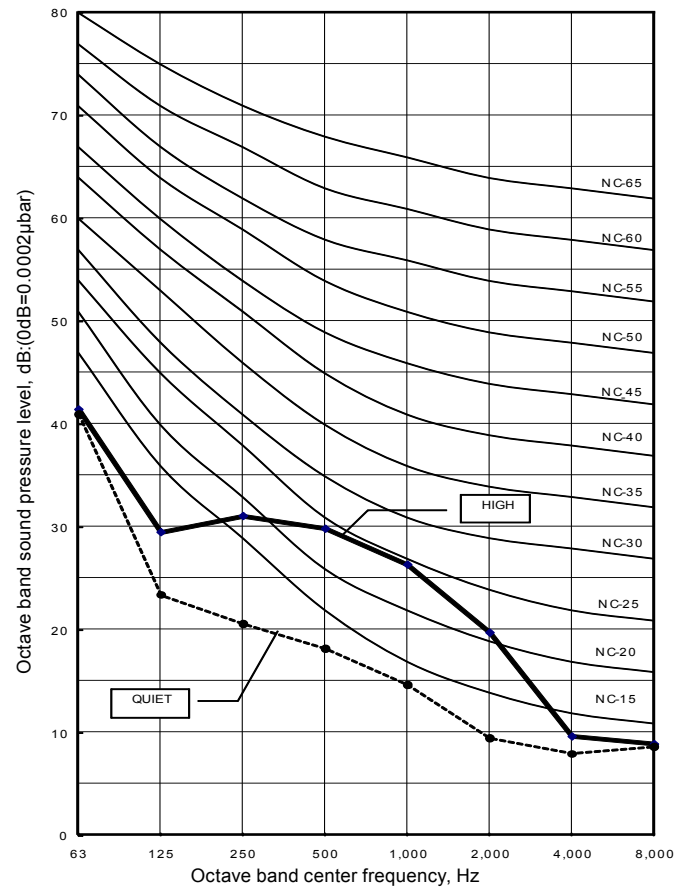


■ **MODEL : AS*G07LUCA**

● **Cooling**

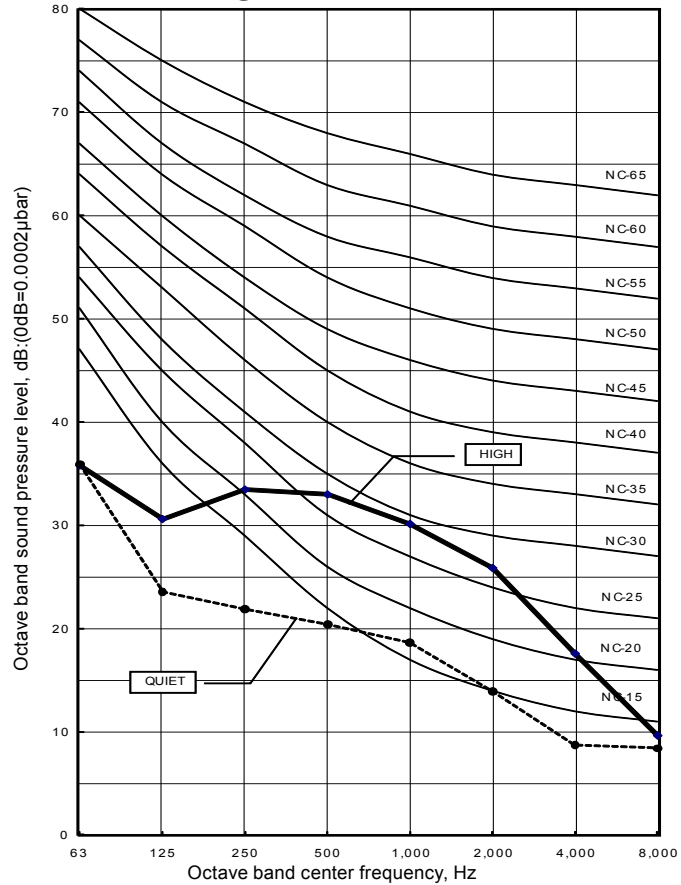


● **Heating**

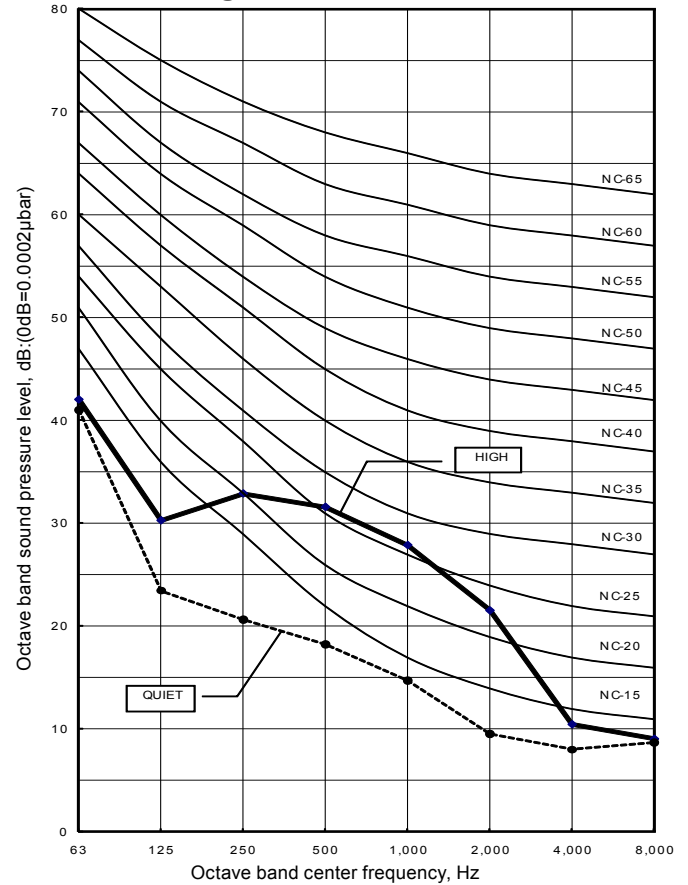


■ **MODEL : AS*G09LUCA**

● **Cooling**

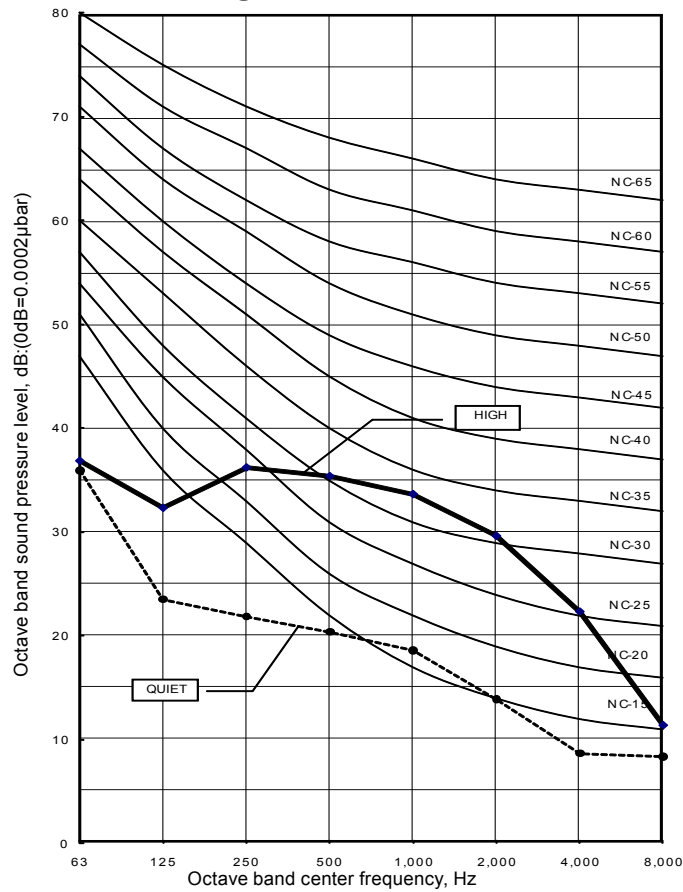


● **Heating**

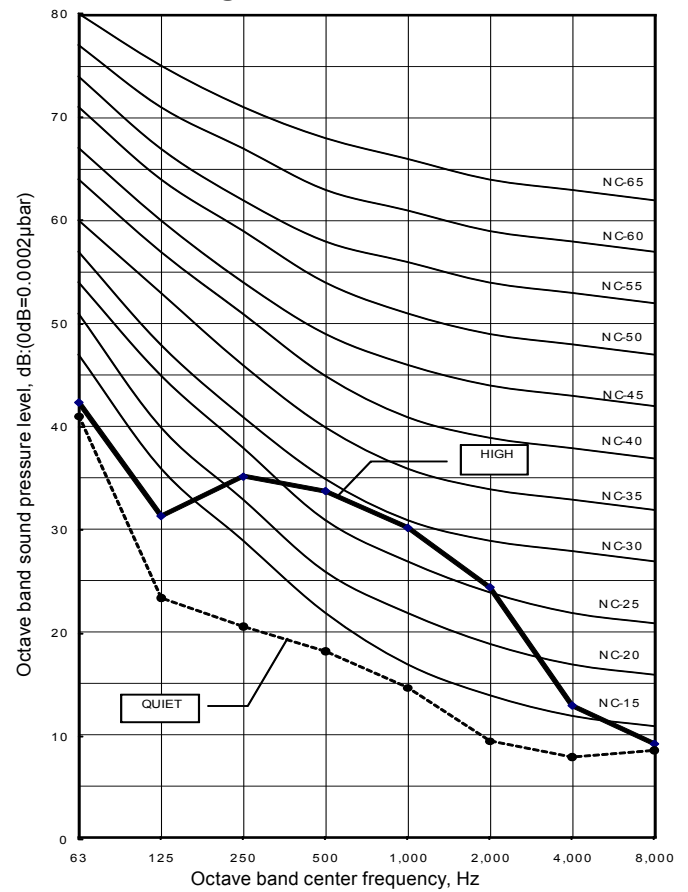


■ **MODEL : AS*G12LUCA**

● **Cooling**

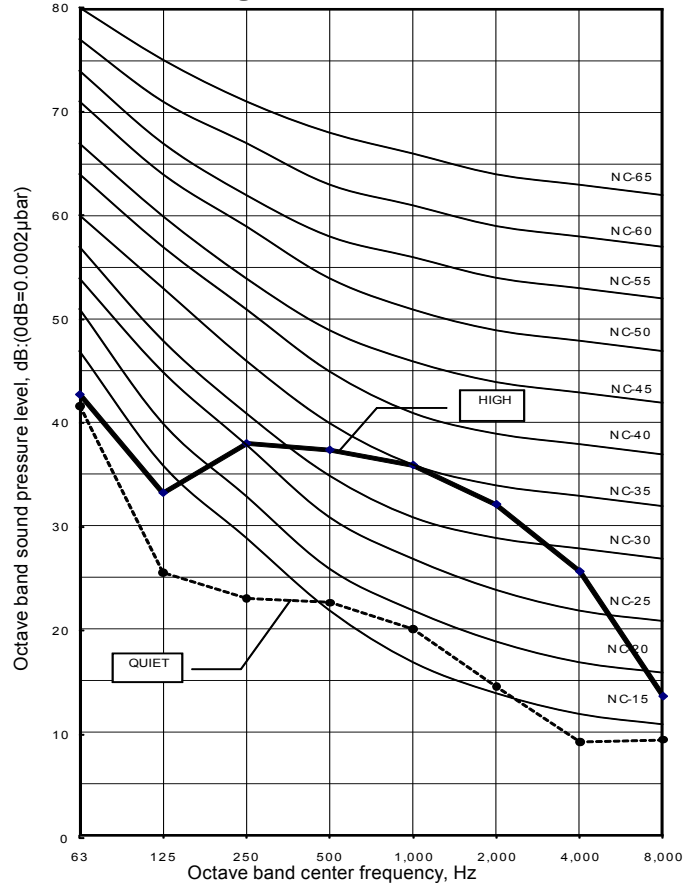


● **Heating**

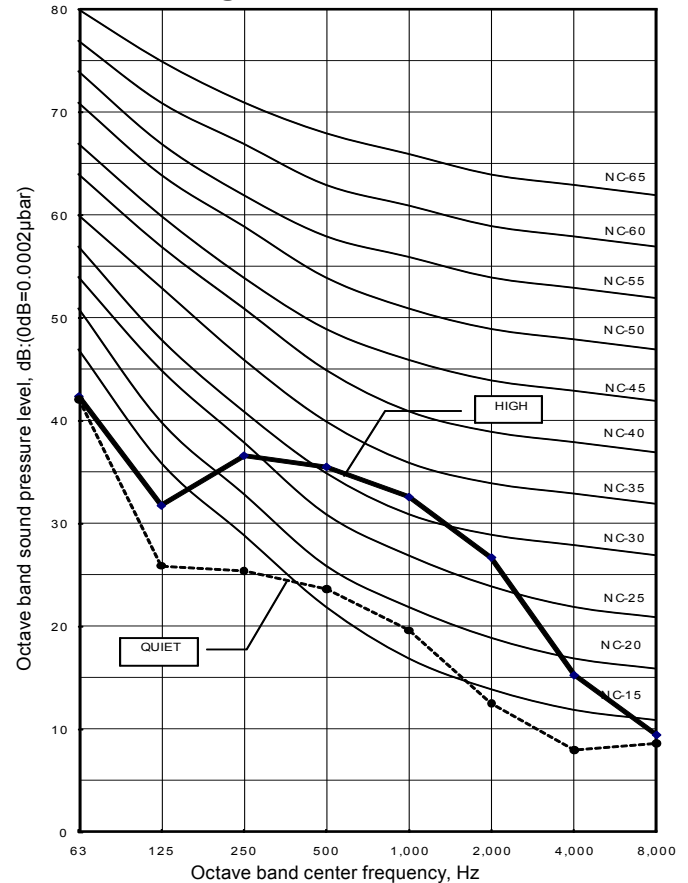


■ **MODEL : AS*G14LUCA**

● **Cooling**



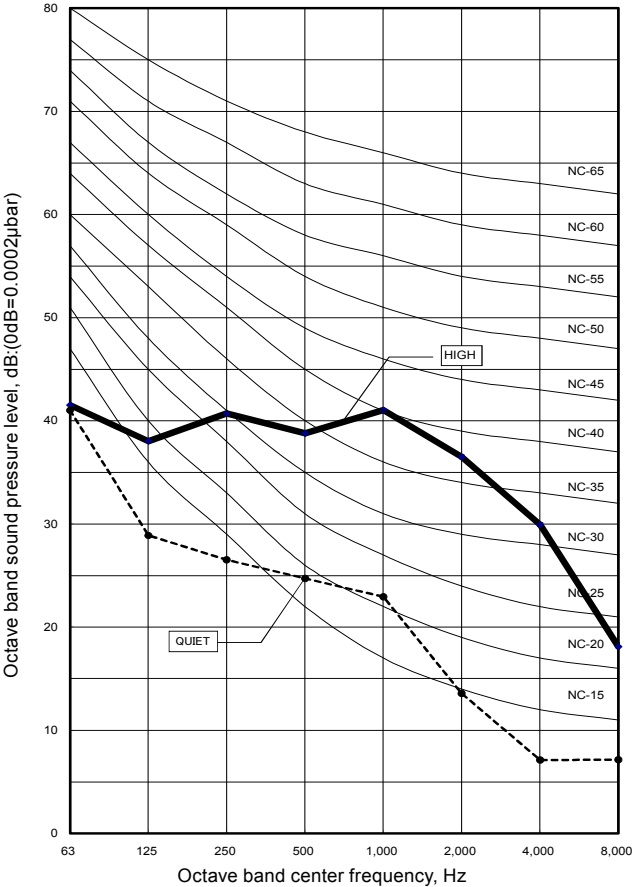
● **Heating**



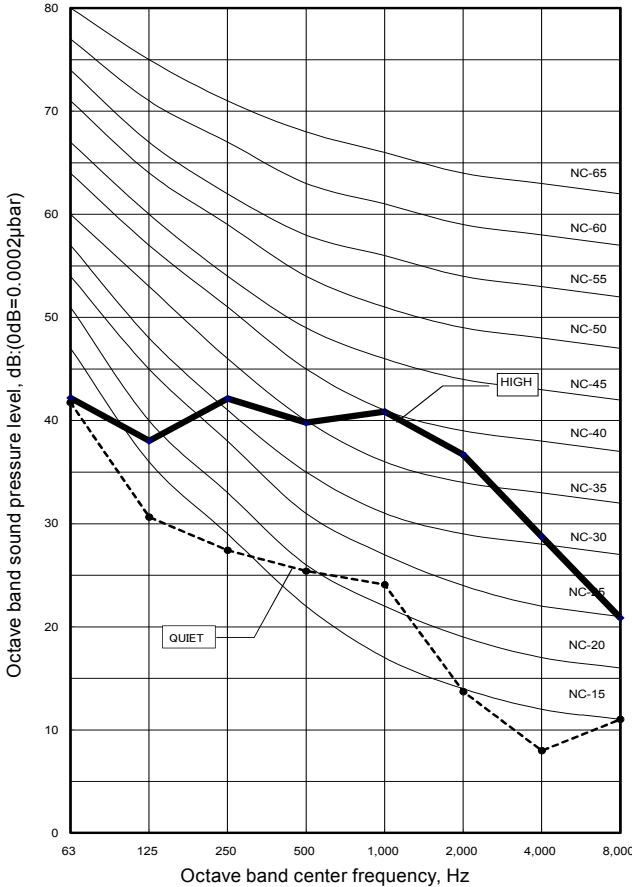
9-4. WALL MOUNTED TYPE

MODEL : AS*G18LFCA

● Cooling

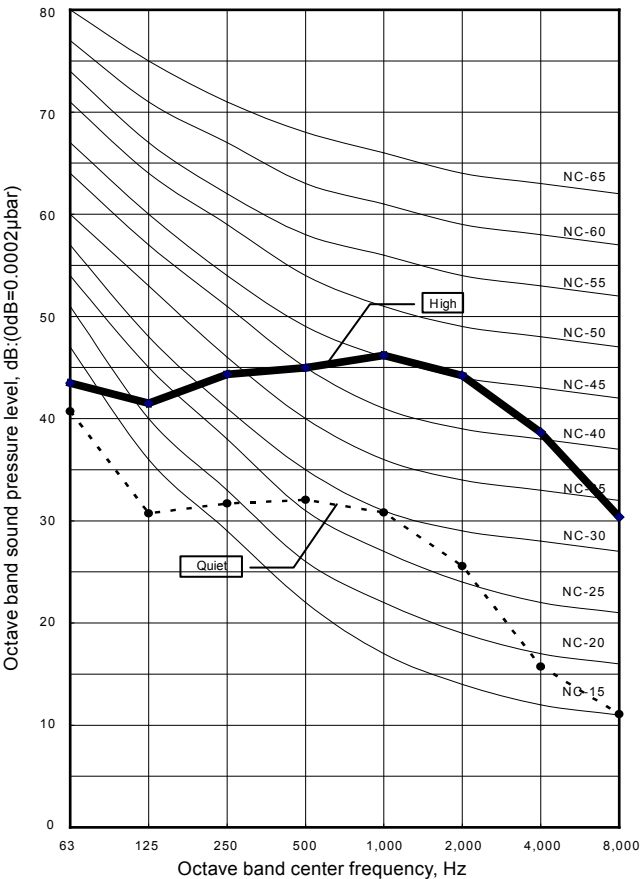


● Heating

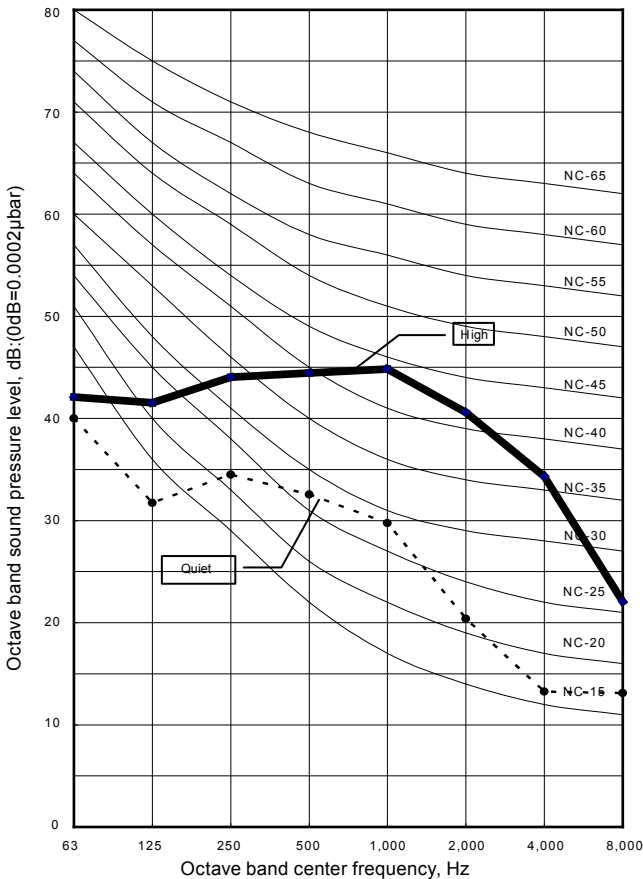


MODEL : AS*G24LFCA

● Cooling



● Heating

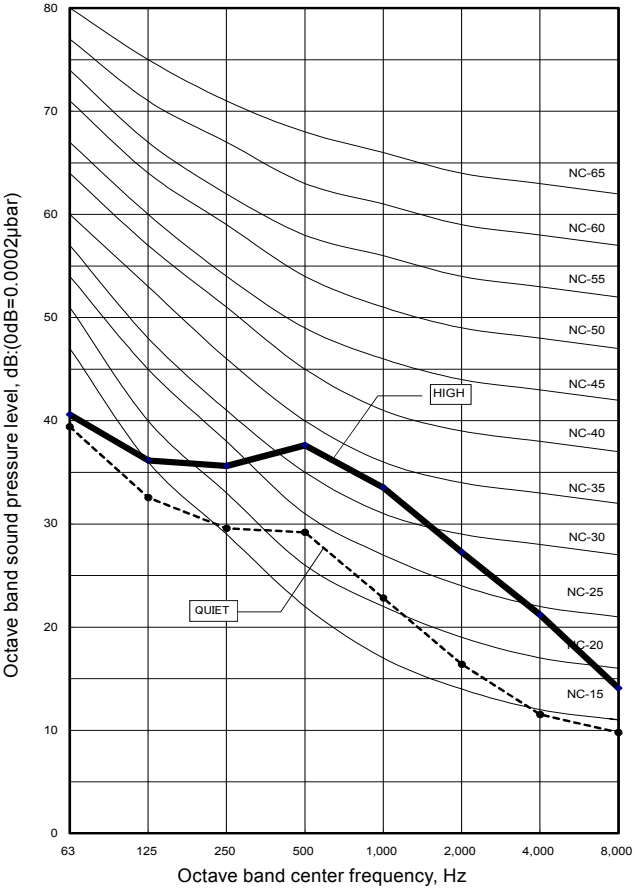


9-5. FLOOR / CEILING TYPE

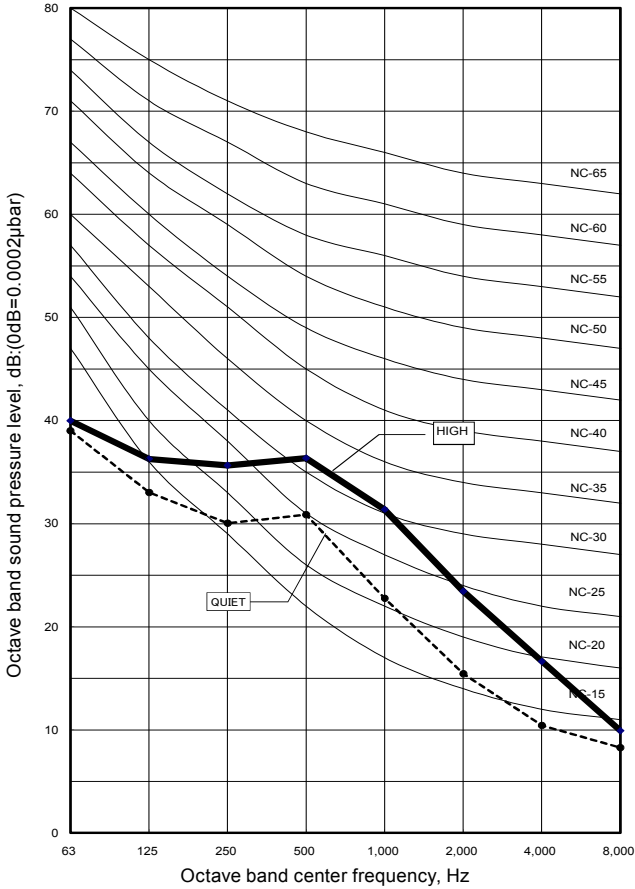
■ MODEL : AB*G14LVTA

NOTE:
Installation : Under ceiling

● Cooling



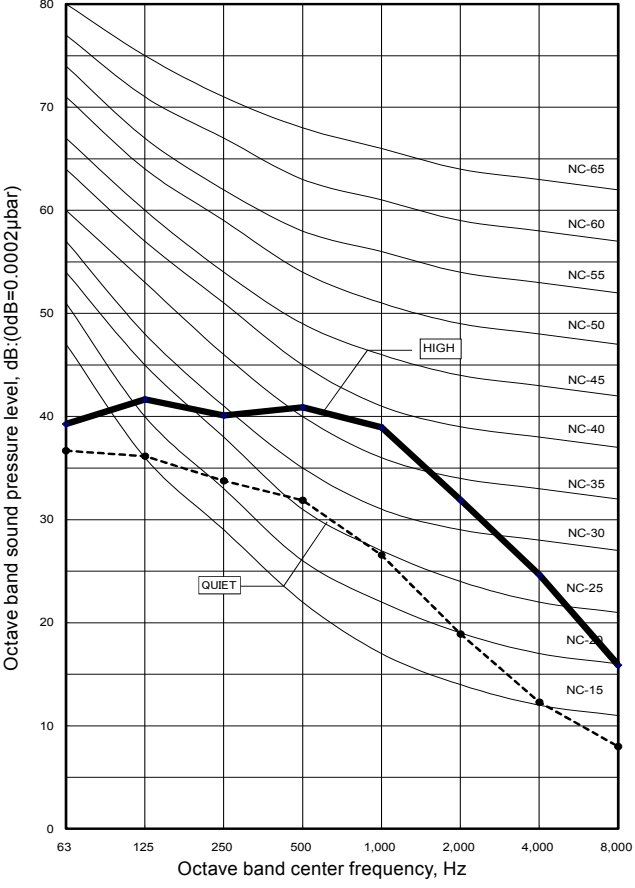
● Heating



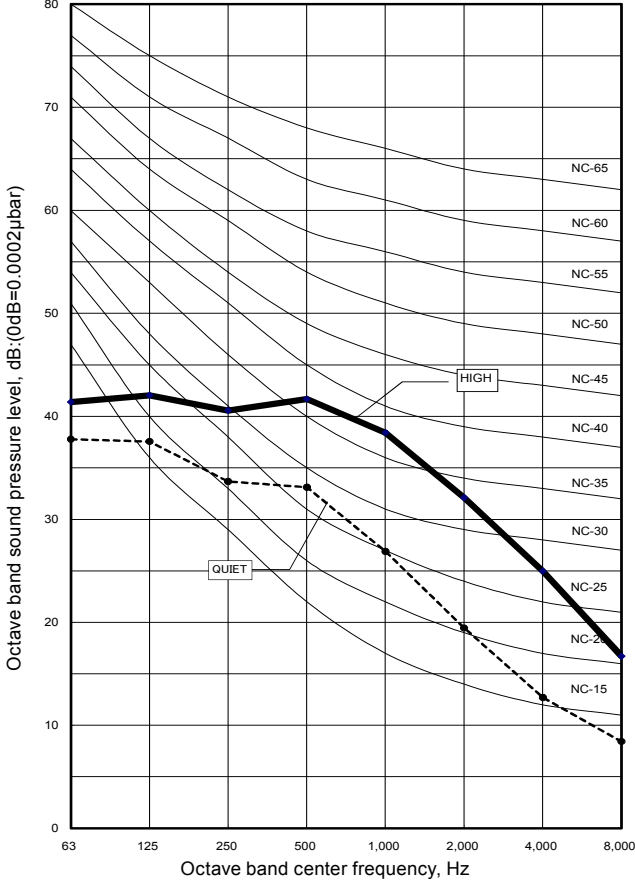
■ MODEL : AB*G18LVTA, AB*G18LVTB

NOTE:
Installation : Under ceiling

● Cooling



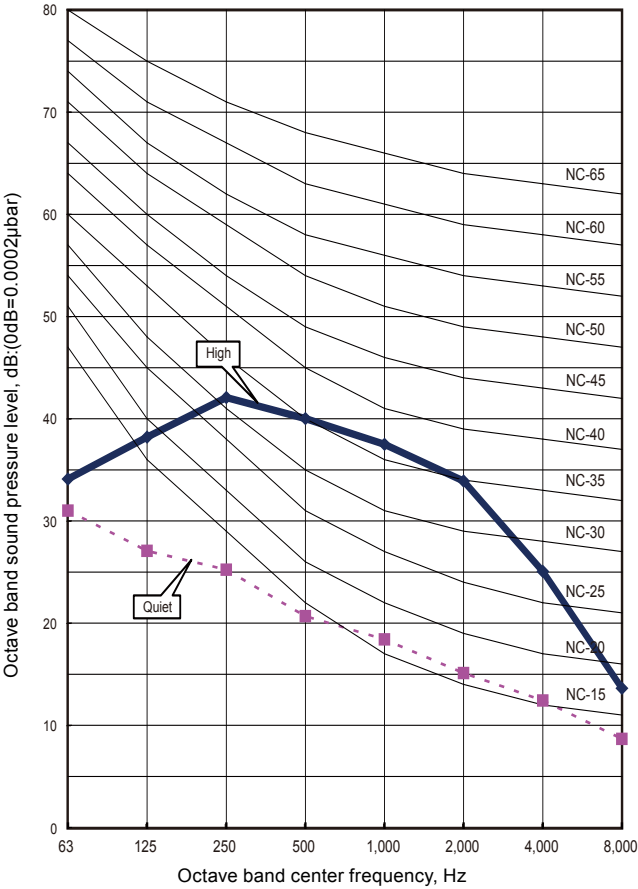
● Heating



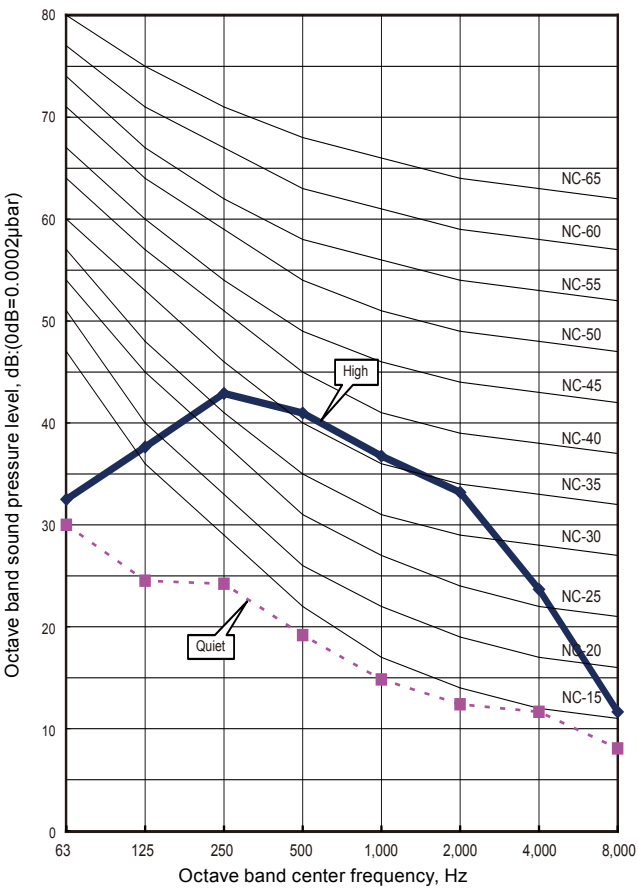
9-6. FLOOR TYPE

■ MODEL : AG*G09LVCA

● Cooling

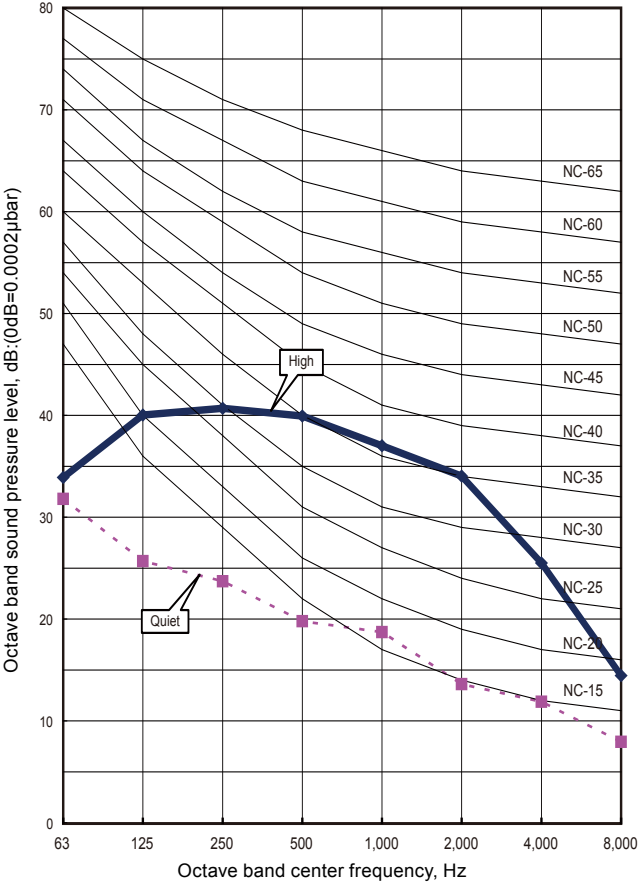


● Heating

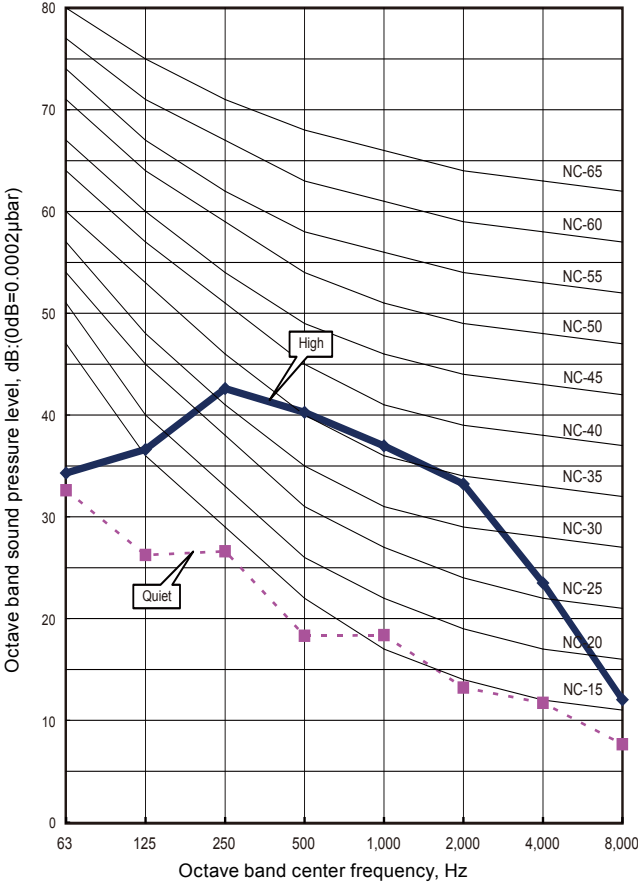


■ MODEL : AG*G12LVCA

● Cooling

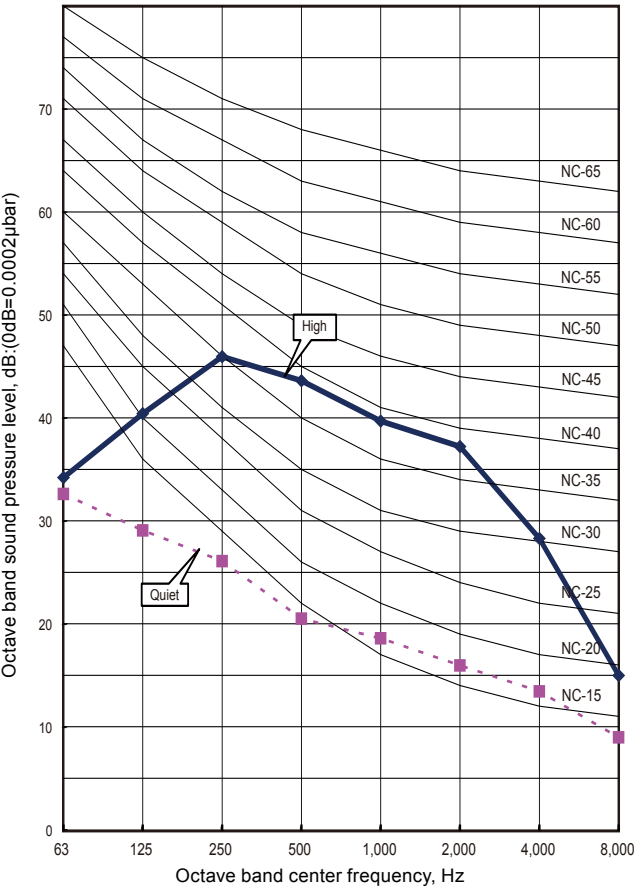


● Heating

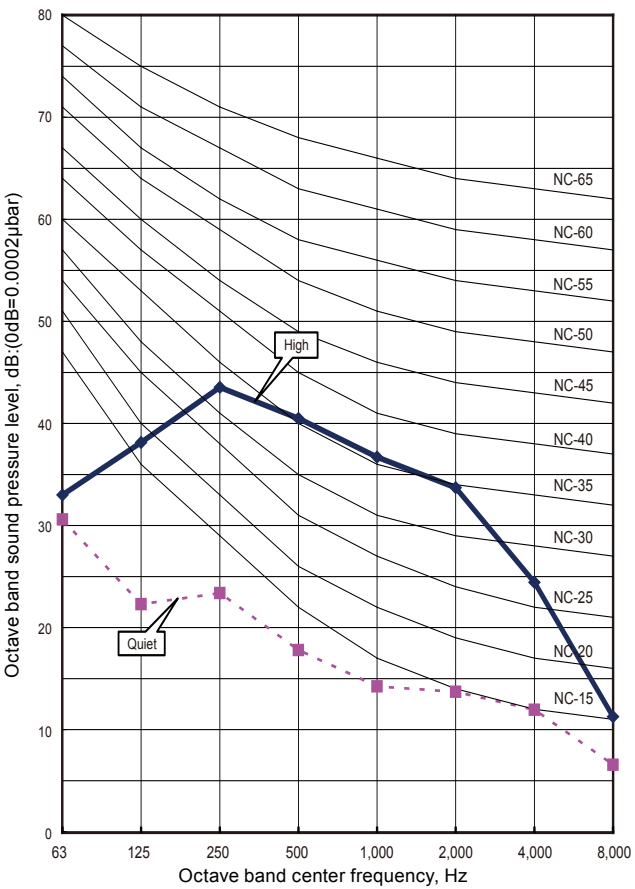


MODEL : AG*G14LVCA

● Cooling

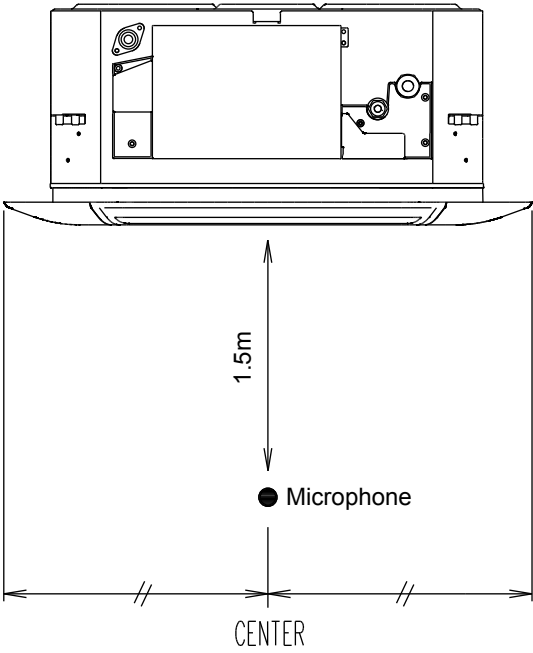
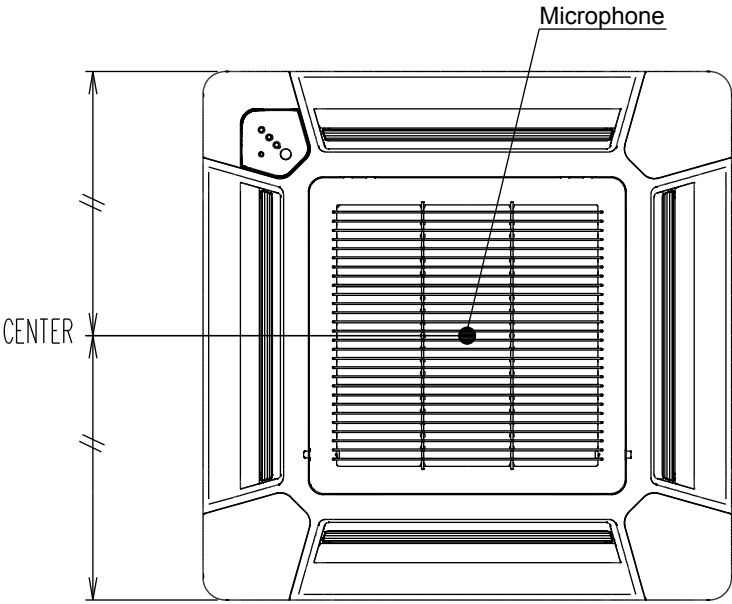


● Heating

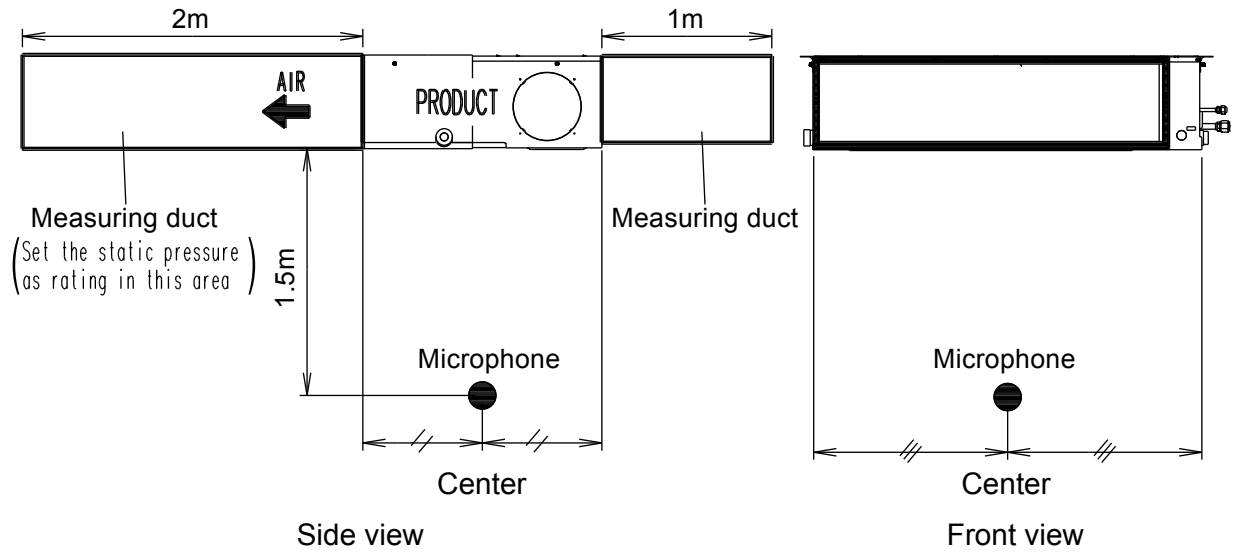


9-7. SOUND LEVEL CHECK POINT

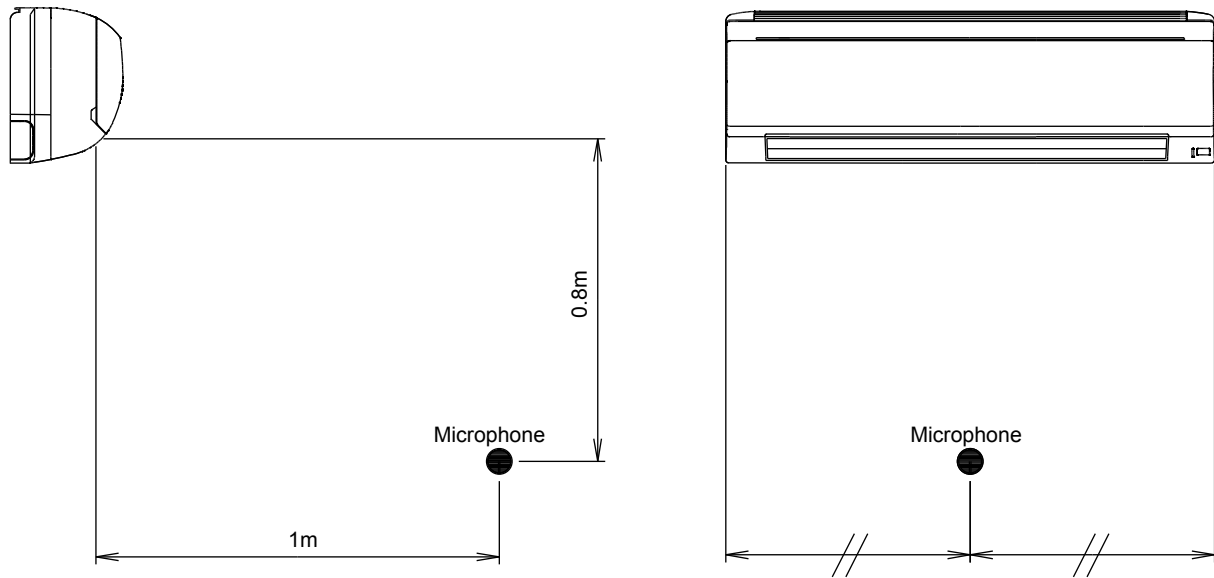
■ COMPACT CASSETTE TYPE



■ SLIM DUCT TYPE

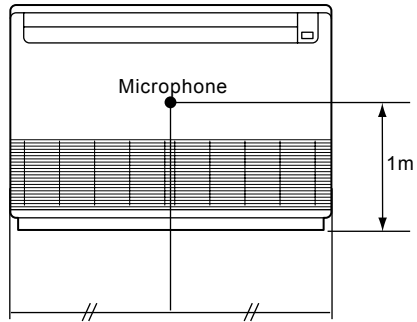
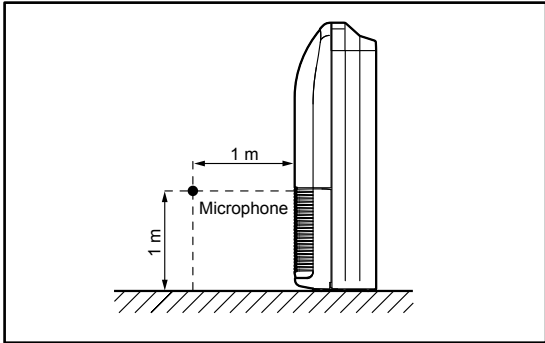


■ COMPACT WALL MOUNTED AND WALL MOUNTED TYPE

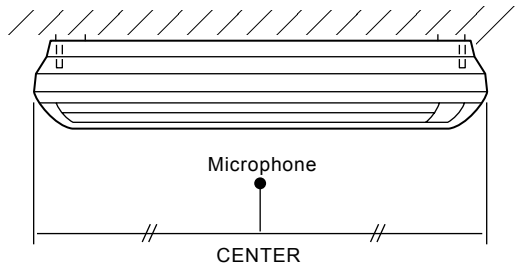
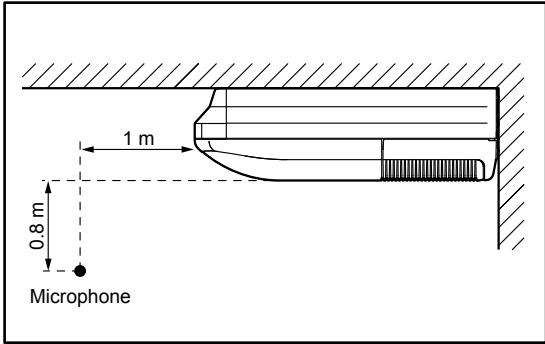


■ FLOOR / CEILING TYPE

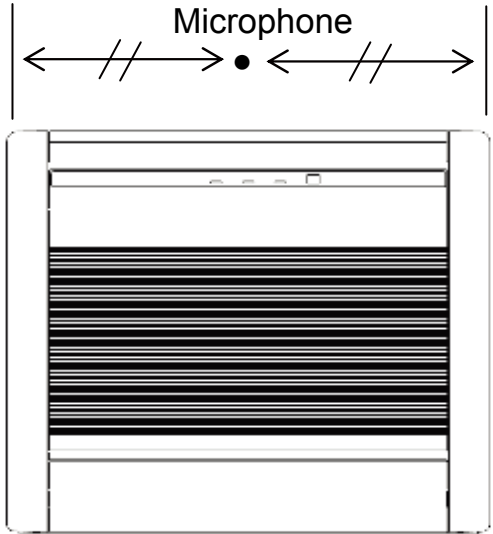
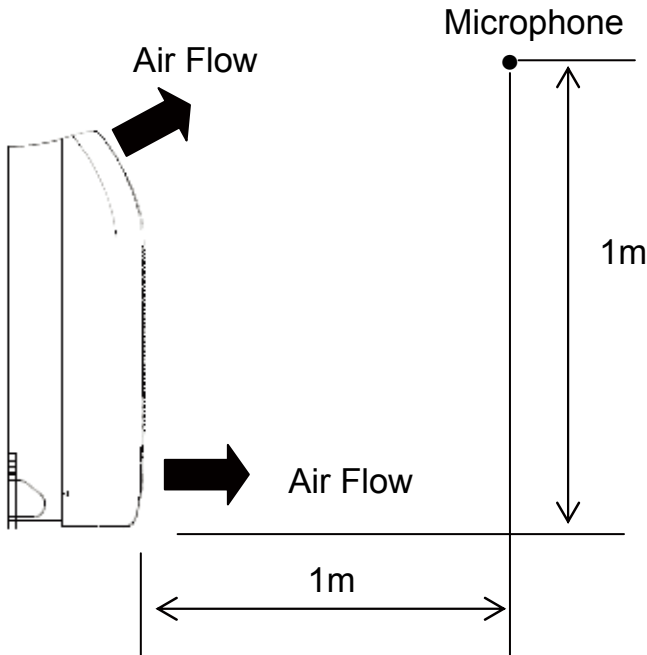
● Floor console



● Under ceiling



■ FLOOR TYPE



10. ELECTRIC CHARACTERISTICS

		Power Supply			Indoor Rated		
Type	Model name	Hz	Voltage (V)	MCA (A)	Input Power (W)	FLA (A)	
Compact Cassette	AU*G07LVLA	50	230	0.19	18	0.15	
	AU*G09LVLA	50	230	0.19	18	0.15	
	AU*G12LVLA AU*G12LVLB	50	230	0.24	23	0.19	
	AU*G14LVLA AU*G14LVLB	50	230	0.28	28	0.22	
	AU*G18LVLA AU*G18LVLB	50	230	0.38	39	0.30	
Slim Duct	AR*G07LLTA	50	230	0.41	33	0.33	
	AR*G09LLTA	50	230	0.38	49	0.30	
	AR*G12LLTA AR*G12LLTB	50	230	0.44	58	0.35	
	AR*G14LLTA AR*G14LLTB	50	230	0.64	76	0.51	
	AR*G18LLTA AR*G18LLTB	50	230	0.55	73	0.44	
Compact Wall Mounted	LJ	AS*G07LJCA	50	230	0.17	15	0.13
		AS*G09LJCA	50	230	0.19	17	0.15
		AS*G12LJCA	50	230	0.24	22	0.19
	LU	AS*G07LUCA	50	230	0.16	13	0.13
		AS*G09LUCA	50	230	0.18	16	0.14
		AS*G12LUCA	50	230	0.21	19	0.17
		AS*G14LUCA	50	230	0.25	23	0.20
Wall Mounted	AS*G18LFCA		50	230	0.41	37	0.33
	AS*G24LFCA		50	230	0.66	69	0.53
Floor / Ceiling	AB*G14LVTA		50	230	0.26	26	0.21
	AB*G18LVTA AB*G18LVTB		50	230	0.45	47	0.36
Floor	AG*G09LVCA		50	230	0.19	16	0.15
	AG*G12LVCA		50	230	0.23	20	0.18
	AG*G14LVCA		50	230	0.25	23	0.20

Wiring Spec. (Indoor unit to outdoor unit)	Connection cable	mm ²	1.5
	Limited wiring length	m	26

MCA : Min Circuit Amps = Max Operating Current (Full Load).
FLA : Full Load Amps (Fan Motor)

11. SAFETY DEVICES

Model and type		PCB fuse	Fan motor thermal protector	Terminal thermal fuse	Float switch		
Compact Cassette	AU*G07LVLA		250V 3.15A	130 +17°C -9°C	—	○	
	AU*G09LVLA						
	AU*G12LVLA AU*G12LVLB						
	AU*G14LVLA AU*G14LVLB						
	AU*G18LVLA AU*G18LVLB						
Slim Duct	AR*G07LLTA		250V 3.15A	135 ± 15°C	—	○	
	AR*G09LLTA						
	AR*G12LLTA AR*G12LLTB						
	AR*G14LLTA AR*G14LLTB						
	AR*G18LLTA AR*G18LLTB						
Compact Wall Mounted	LJ	AS*G07LJCA		250V 3.15A	120 ± 15°C	102°C OFF	—
		AS*G09LJCA					
		AS*G12LJCA					
	LU	AS*G07LUCA		250V 3.15A	120 ± 15°C	102°C OFF	—
		AS*G09LUCA					
		AS*G12LUCA					
		AS*G14LUCA					
Wall Mounted		AS*G18LFCA		250V 3.15A	150 ± 15°C	102°C OFF	—
		AS*G24LFCA					
Floor / Ceiling		AB*G14LVTA		250V 3.15A	135 ± 15°C	—	—
		AB*G18LVTA AB*G18LVTB					
Floor		AG*G09LVCA		250V 3.15A	150 ± 15°C	102°C OFF	—
		AG*G12LVCA					
		AG*G14LVCA					

12. EXTERNAL INPUT & OUTPUT

Indoor unit type	EXTERNAL INPUT	EXTERNAL OUTPUT			
	Control input	Operation status output	Fresh air control output	Auxiliary heater output	Error status output
Compact Cassette	●	●	●	-	-
Slim Duct	●	●	●	●	-
Compact Wall Mounted	●	●	-	-	● (LU type only)
Wall Mounted	●	●	-	-	-
Floor / Ceiling	●	●	-	-	-
Floor	●	●	-	-	-

12-1. EXTERNAL INPUT

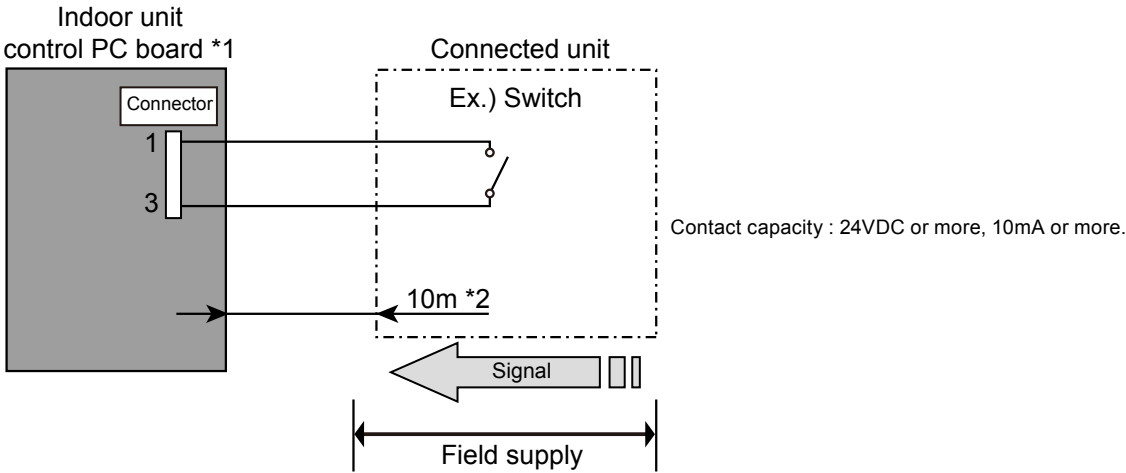
■ CONTROL INPUT (Operation/Stop or Forced stop)

	Compact Cassette	Slim Duct	Compact Wall Mounted		Wall Mounted	Floor / Ceiling	Floor
			LJ	LU			
Connector	CN102	CN102	CN303	CNA01	CN14	CN102	CN14

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.
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.

	Initial starting after power turned on	Starting other than at the left
Operation mode	Auto changeover	Mode at previous operation
Set temperature	24°C	Temperature at previous operation
Air flow mode	AUTO	Mode at previous operation
Up-down air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation
Left-right air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation

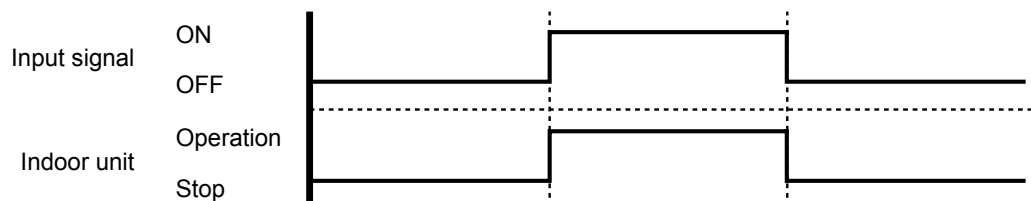
● Circuit diagram example



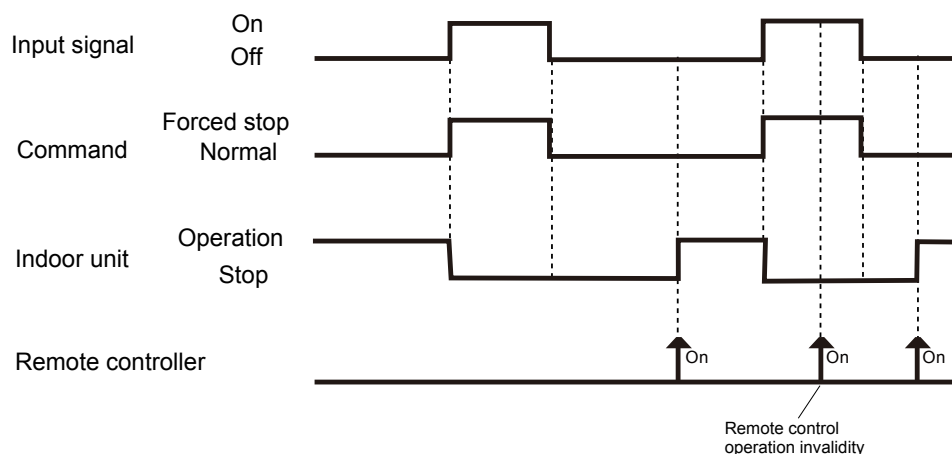
*1 PC board of Communication kit is used for Compact wall mounted type.
*2 Make the distance from the PC board to the connected unit within 10m.

Indoor unit type		1 Pin (Polarity)	3 Pin (Polarity)
Compact Cassette		-	+
Slim Duct		-	+
Compact Wall Mounted	LJ	+	-
	LU	-	+
Wall Mounted		-	+
Floor / Ceiling		-	+
Floor		-	+

- When function setting is "Operation/Stop" mode

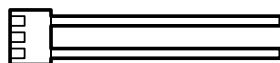


- When function setting is "Forced stop" mode



● Parts (Optional)

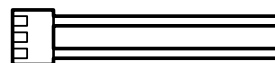
	Compact Cassette	Slim Duct	Comapct Wall Mounted		Wall Mounted	Floor / Ceiling	Floor
			LJ	LU			
Parts name	External connect kit						
Model name	UTY-XWZX	UTD-ECS5A	UTY-XWZX	UTY-XWZXZ5	UTY-XWZX		



(UTY-XWZX)



(UTD-ECS5A)



(UTY-XWZXZ5)

	Compact Cassette	Slim Duct	Comapct Wall Mounted		Wall Mounted	Floor / Ceiling	Floor
			LJ	LU			
Parts name	-	-	Communication kit		-	-	-
Model name	-	-	UTY-XCBXZ1	UTY-TWBXF	-	-	-

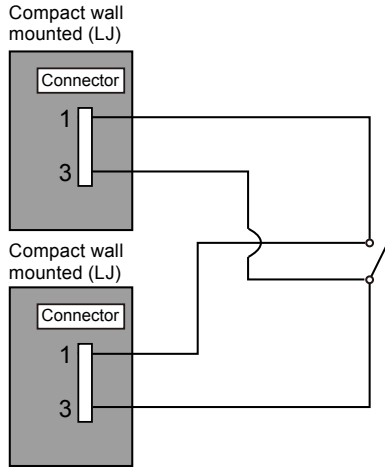
*For operating the EXTERNAL INPUT function, the Compact wall mounted type (LJ, LU) requires the communication kit (UTY-XCBXZ1, UTY-TWBXF) in addition to the wire (UTY-XWZX, UTY-XWZXZ5).

● **Caution**

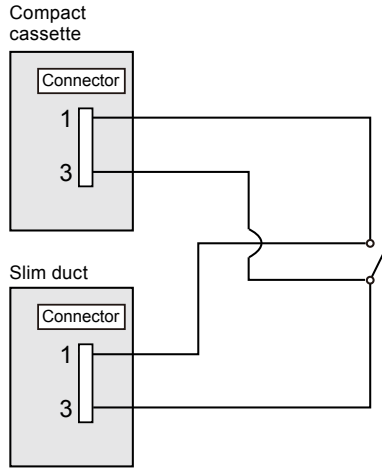
Compact wall mounted (LJ) type and the other indoor unit type do not connect the input terminal together.

Connect pin of the same number because there is a polarity in connector.

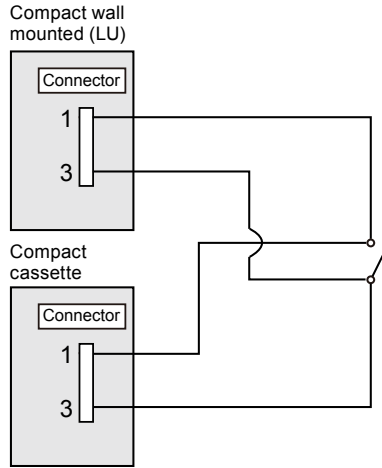
● **Example 1 (OK)**



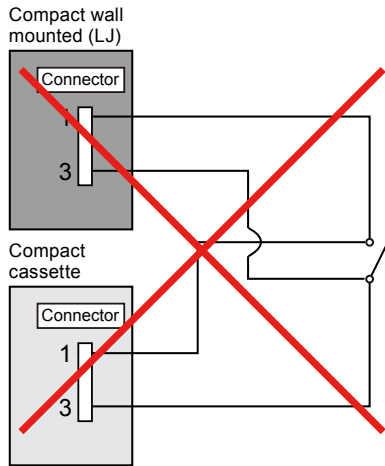
● **Example 2 (OK)**



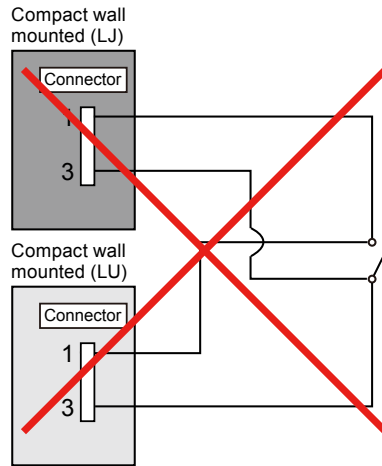
● **Example 3 (OK)**



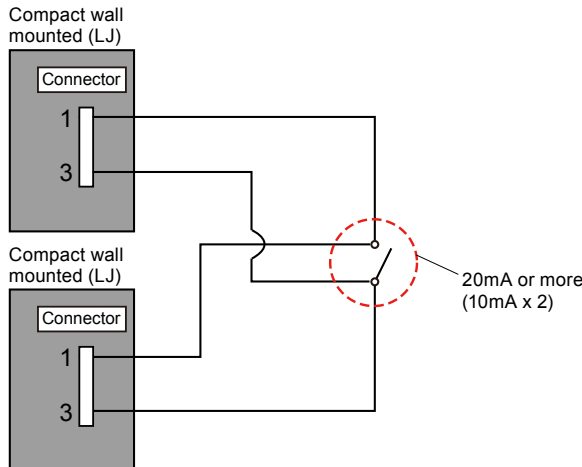
● **Example 4 (Prohibited)**



● **Example 5 (Prohibited)**



Note the contact capacity when connecting it with two or more indoor units.
Secure the contact capacity per one indoor unit of 10mA or more.



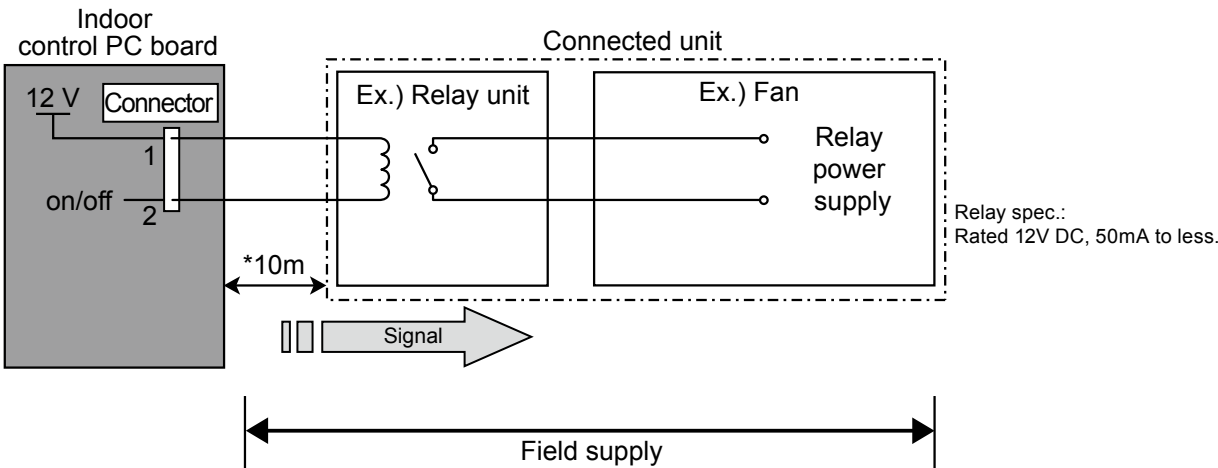
■ FRESH AIR CONTROL OUTPUT

	Compact Cassette	Slim Duct	Comapct Wall Mounted	Wall Mounted	Floor / Ceiling	Floor
Connector	CN6	CN6	-	-	-	-

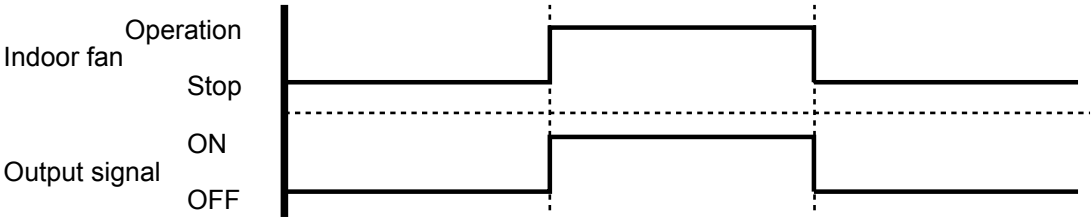
A signal linked to air conditioner indoor fan ON can be output.

* 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.



● Parts (Optional)

	Compact Cassette	Slim Duct	Comapct Wall Mounted	Wall Mounted	Floor / Ceiling	Floor
Parts name	Fresh air intake kit	External control set	-	-	-	-
Model name	UTZ-VXAA *1	UTD-ECS5A	-	-	-	-



Note

*1: Please prepare External control set (UTD-ESC5A) when using it excluding Fresh air intake kit (UTZ-VXAA).

■ AUXILIARY HEATER OUTPUT

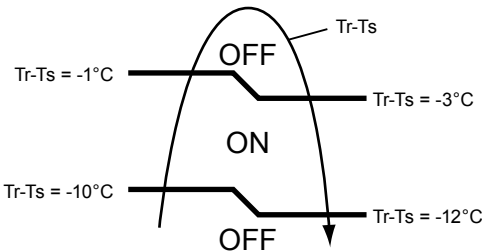
	Compact Cassette	Slim Duct	Comapct Wall Mounted	Wall Mounted	Floor / Ceiling	Floor
Connector	-	CN10	-	-	-	-

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

*Signal output performance specifications are as shown on the right

Ex. When Set Temperature(Ts) is 22°C

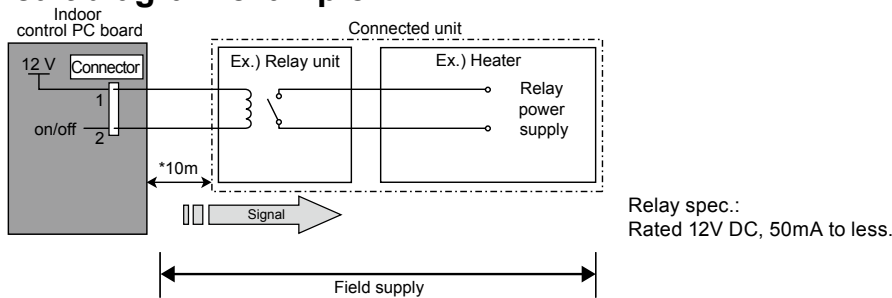
- and Room Temperature(Tr) increase above 12°C, signal output is on.
- and Room Temperature(Tr) increase above 21°C, signal output is off.
- and Room Temperature(Tr) decrease below 19°C, signal output is on.
- and Room Temperature(Tr) decrease below 10°C, signal output is off.



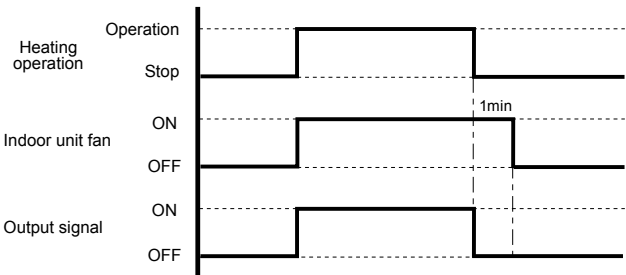
● Jumper wire (Indoor Unit)

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

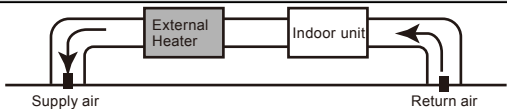


* Make the distance from the PC board to the connected unit within 10m.



CAUTION

Please locate a external heater between the indoor unit and the outlet.
Please be sure to use delay control of a fan.



● Parts (Optional)

	Compact Cassette	Slim Duct	Comapct Wall Mounted	Wall Mounted	Floor / Ceiling	Floor
Parts name	-	External control set	-	-	-	-
Model name	-	UTD-ECS5A	-	-	-	-

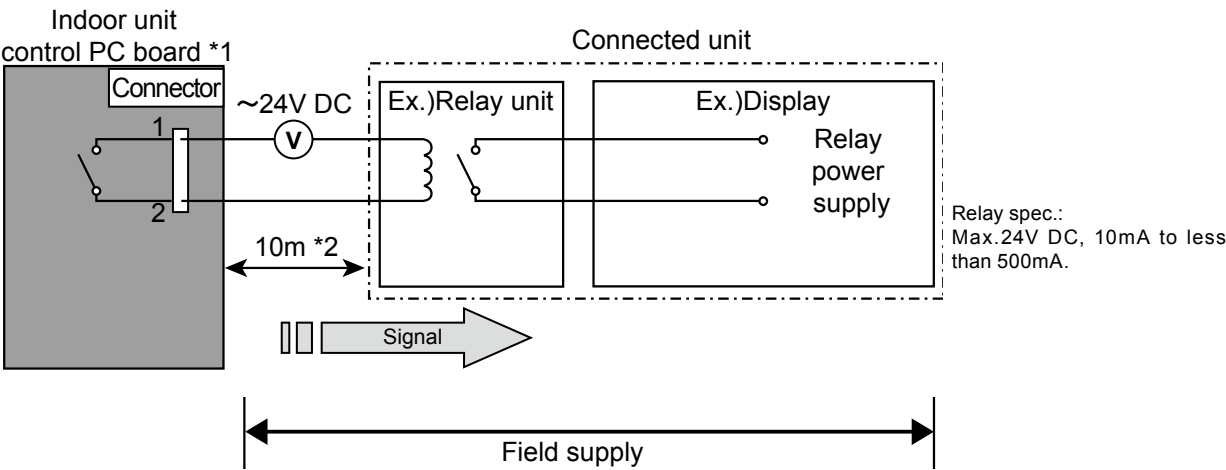


■ ERROR STATUS OUTPUT

	Compact Cassette	Slim Duct	Comapct Wall Mounted		Wall Mounted	Floor / Ceiling	Floor
			LJ	LU			
Connector	-	-	-	CNB02	-	-	-

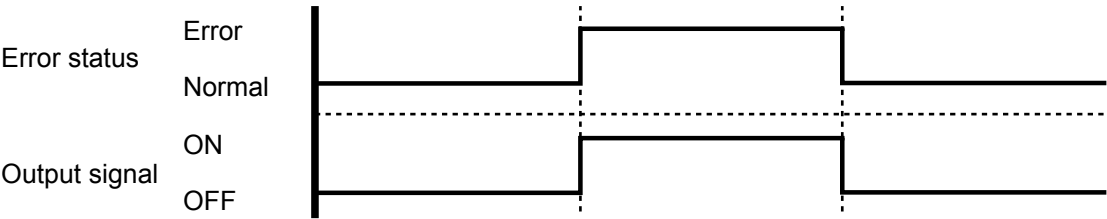
An air conditioner error status signal can be output.

● Circuit diagram example



*1 PC board of Communication kit is used for Compact wall mounted type..

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



● Parts (Optional)

	Compact Cassette	Slim Duct	Comapct Wall Mounted		Wall Mounted	Floor / Ceiling	Floor
			LJ	LU			
Parts name	-	-	-	External connect kit	-	-	-
Model name	-	-	-	UTY-XWZXZ5	-	-	-



	Compact Cassette	Slim Duct	Comapct Wall Mounted		Wall Mounted	Floor / Ceiling	Floor
			LJ	LU			
Parts name	-	-	-	Communication kit	-	-	-
Model name	-	-	-	UTY-TWBXF	-	-	-

*For operating the EXTERNAL OUTPUT function, the Compact wall mounted type (LU) requires the communication kit (UTY-TWBXF) in addition to the wire (UTY-XWZXZ5).

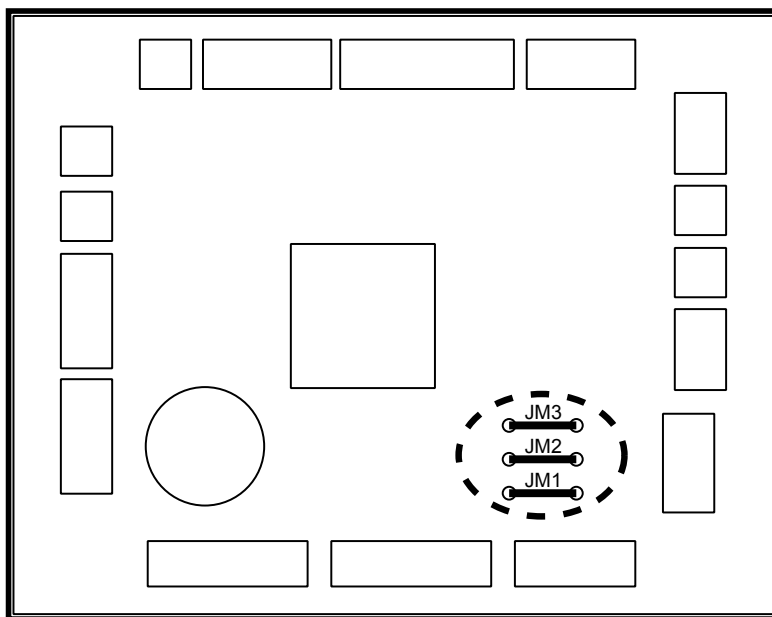
13. FUNCTION SETTING

13-1. INDOOR UNIT (setting by jumper wire)

Note: This function is Slim Duct type only.

■ SWITCH POSITION

● Slim Duct type



■ JUMPER WIRE SETTING

● Drainage function setting (JM1)

(◆...Factory setting)

	JM1	Drainage function
◆	Connect	Valid
	Disconnect	Invalid

● Auto louver grille setting (JM2)

When Auto louver grille kit (optional parts) is attached, set the Auto louver grille setting "Valid".

(◆...Factory setting)

	JM2	Auto louver grille setting
◆	Connect	Invalid
	Disconnect	Valid

● Fan delay setting (JM3)

(◆...Factory setting)

	JM3	Fan delay
◆	Connect	Invalid
	Disconnect	Valid

13-2. INDOOR UNIT (setting by wireless remote controller)

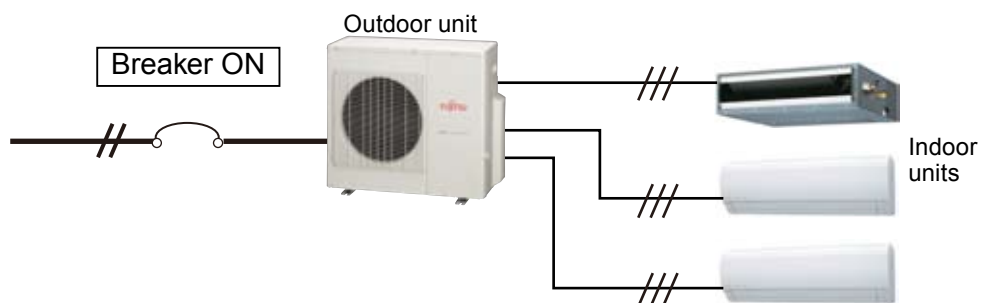
- The function settings of the control of the indoor unit can be changed by this procedure according to the installation conditions. Incorrect settings can cause the indoor unit malfunction.
- After the power is turned on, perform the “FUNCTION SETTING” according to the installation conditions using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

■ PREPARATION

(1) Turn on the power to the Outdoor unit.

* 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.

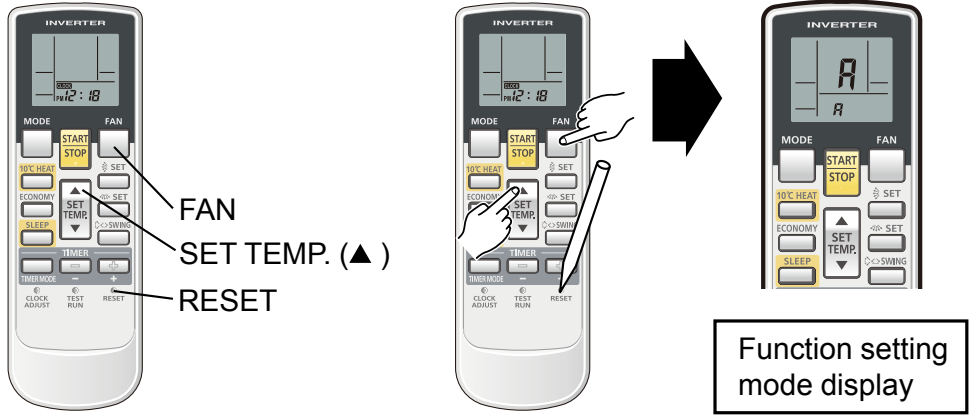
* Also check again to make sure no wiring mistakes were made before turning on the power.



13-2-1. AR-RAH2E / AR-RAH1E

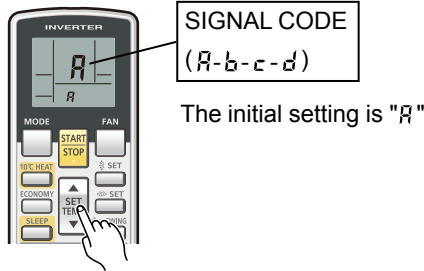
SWITCHING SELECTION OF FUNCTION SETTING MODE

- (2) Press and hold the "FAN" and the " SET TEMP. ▲ " buttons. While holding these 2 buttons, press the "RESET" button.

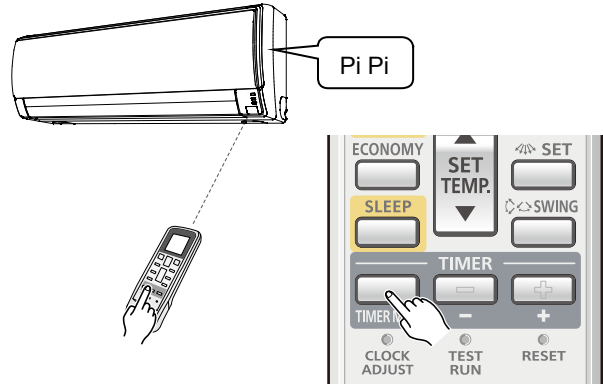


SELECTION AND CONFIRMATION OF SIGNAL CODE

- (3) Press the " SET TEMP. ▲ " or " SET TEMP. ▼ " buttons to select the signal code that matches the setting with the indoor unit. By selecting the appropriate signal code, the communication between the indoor unit and the wireless RC become possible.

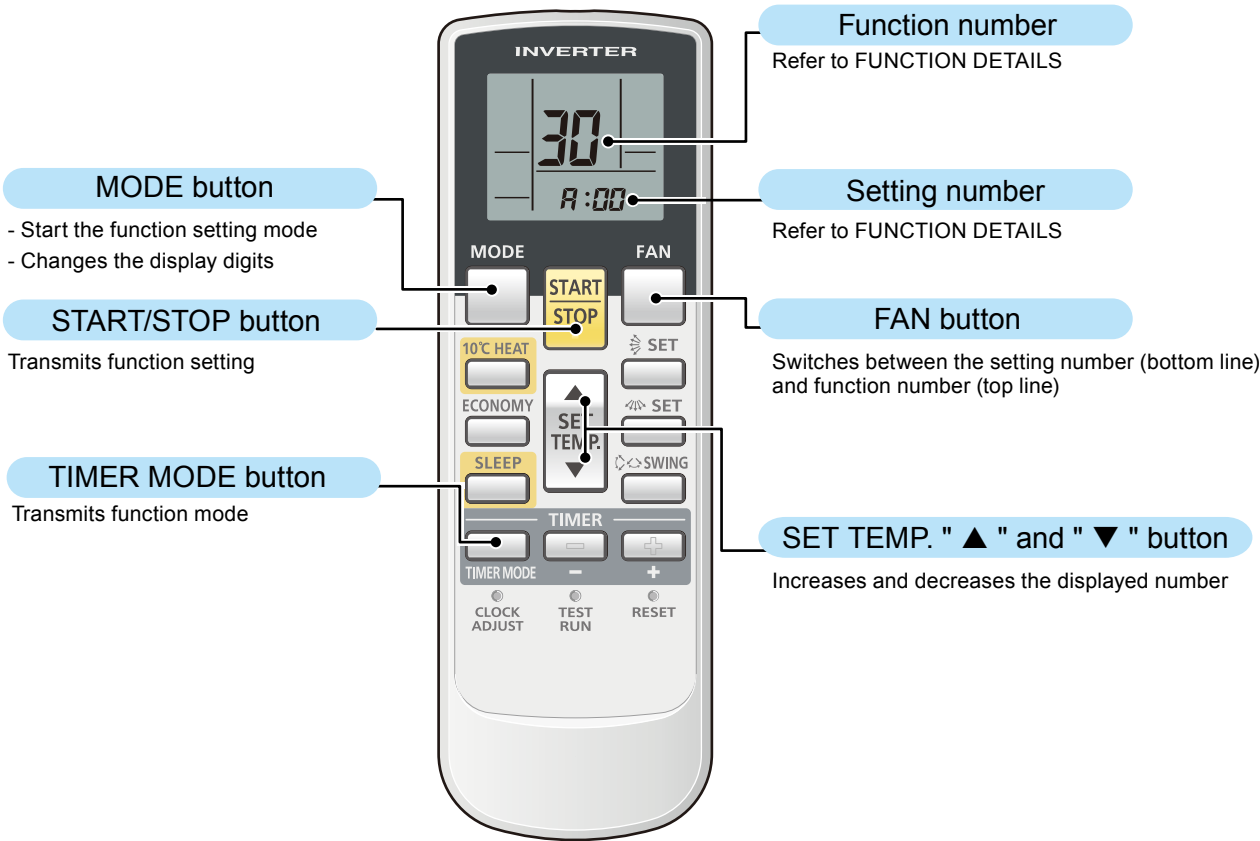


- (4) Press the "TIMER MODE" button to send the code to the indoor unit.



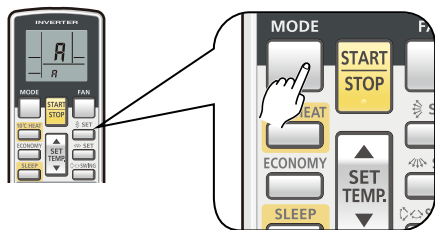
■ BUTTON NAME AND FUNCTION

- During address setting mode, indoor unit reject the any operation command from remote controller.



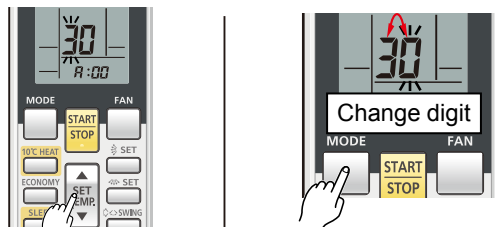
■ FUNCTION SETTING

- (5) Press the "MODE" button to access the function setting mode.



- (6) Press the "▲" or the "▼" buttons to select the function number.

Each time the "MODE" button is pressed, it switches between the one's place and the ten's place positions.

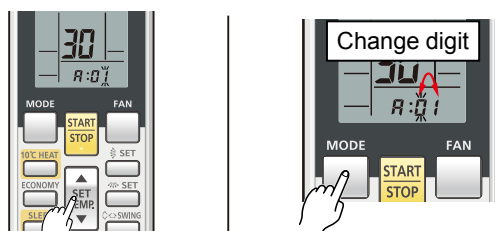


- (7) Press the FAN button to proceed to setting the number. (Press the FAN button again to return to the function number selection.)

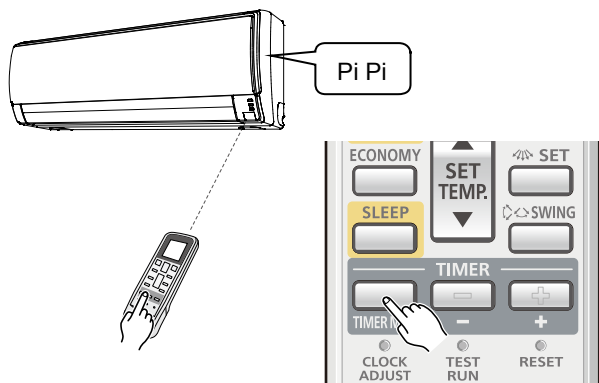


- (8) Press the "▲" or the "▼" buttons to select the setting number.

Each time the "MODE" button is pressed, it switches between the one's place and the ten's place positions.



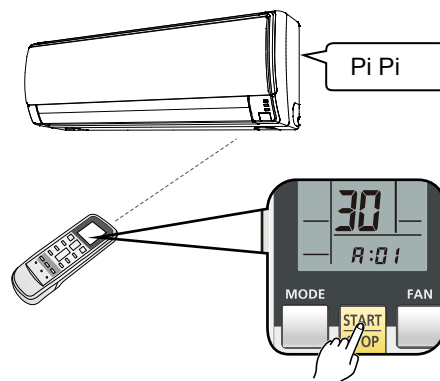
- (9) Press the "TIME MODE" button once to send the function mode information.



- (10) Press the "START/STOP" button once to send the function setting information.

A beeping noise will be heard if the command is accepted.

*Wrong code: No response



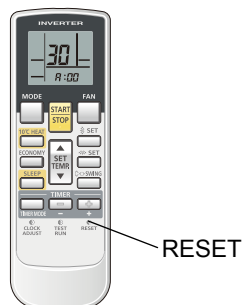
Note: Please push "START/STOP" button within 30 seconds after pushing "TIME MODE" button.

■ FUNCTION DETAILS

Refer to 13-5. FUNCTION DETAILS

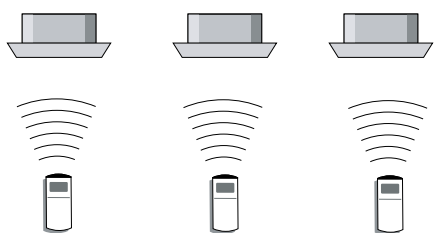
■ COMPLETION OF FUNCTION SETTING MODE

(11) Press the "RESET" button.



After pressing the RESET button, please set the signal code again if b,c,d setting.

■ SETTING UP EACH INDOOR UNIT



Repeat steps (1) through to (11). Steps (1) through to (4) and (11) only need to be carried out if the signal code is different to the factory setting of "A".

■ RESET THE POWER AFTER SETTING UP FUNCTION OF ALL INDOOR UNITS

Important

- If the reset is not performed, function can not be read in normally.
- After all the functions have been set, the circuit breaker needs to be switched off for at least 2 minutes.
After the 2 minutes has passed, power can be restored.
- The set function is stored in the PCB and will remain in memory even when the power is turned off.
However setting function is effective after power reset.
Record the function set in the indoor unit on a label, etc., and affix the label to the unit so it can be used for after-sales service operations.

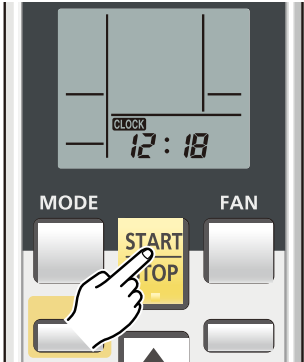
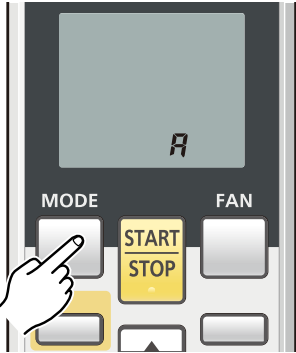
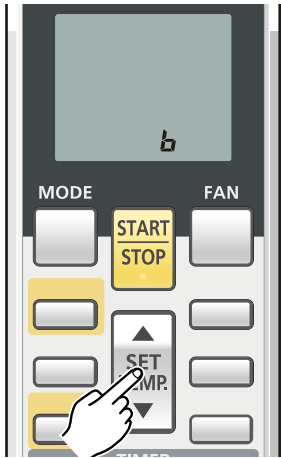
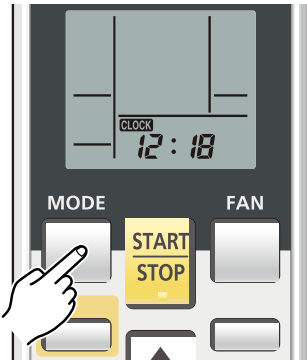
* Once the "RESET" button is pressed on the remote controller, the OPERATION MODE will be set in the "AUTO MODE".

Please adjust the OPERATION MODE to either "COOLING" or "HEATING" before trying to operate the air conditioner.

* Note : If SIGNAL CODE is set to anything other than "A", the remote control must be set accordingly to the INDOOR UNIT setting.

■ REMOTE CONTROLLER SIGNAL CODE SETTING

In function setting, please change to the setting that signal code setting of Wireless remote controller is the same as indoor unit according to the following content when you change signal code setting of indoor unit.

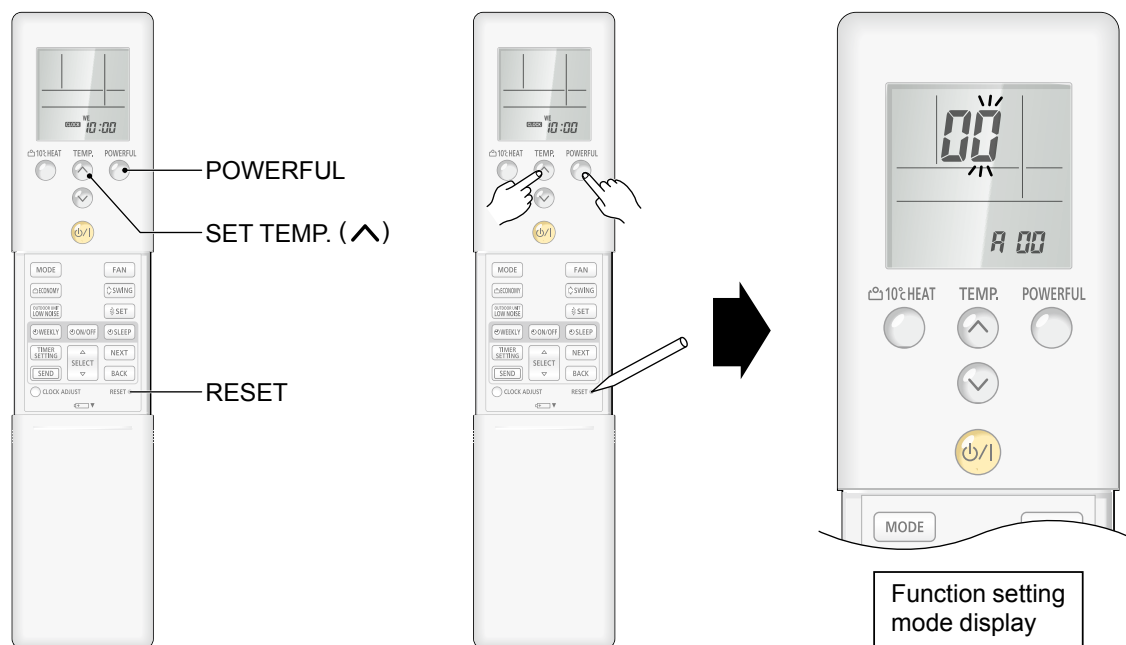
1.Press the START/STOP button until only the clock is displayed on the remote controller display. 	2.Press the MODE button for at least five seconds to display the current signal code (initially set to A). 
3.Press the SET TEMP. “▲” or the “▼” button to change the signal code between A→B→C→D. 	4.Press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

- If no buttons are pressed within 30 seconds after the signal code is displayed, the system returns to the original clock display. In this case, start again from step 1.
- The air conditioner signal code is set to A prior to shipment.
- The remote controller resets to signal code A when the batteries in the remote controller are replaced. If you use a signal code other than signal code A, reset the signal code after replacing the batteries. If you do not know the air conditioner signal code setting, try each of the signal codes (A→B→C→D) until you find the code which operates the air conditioner.

13-2-2. AR-REA2E

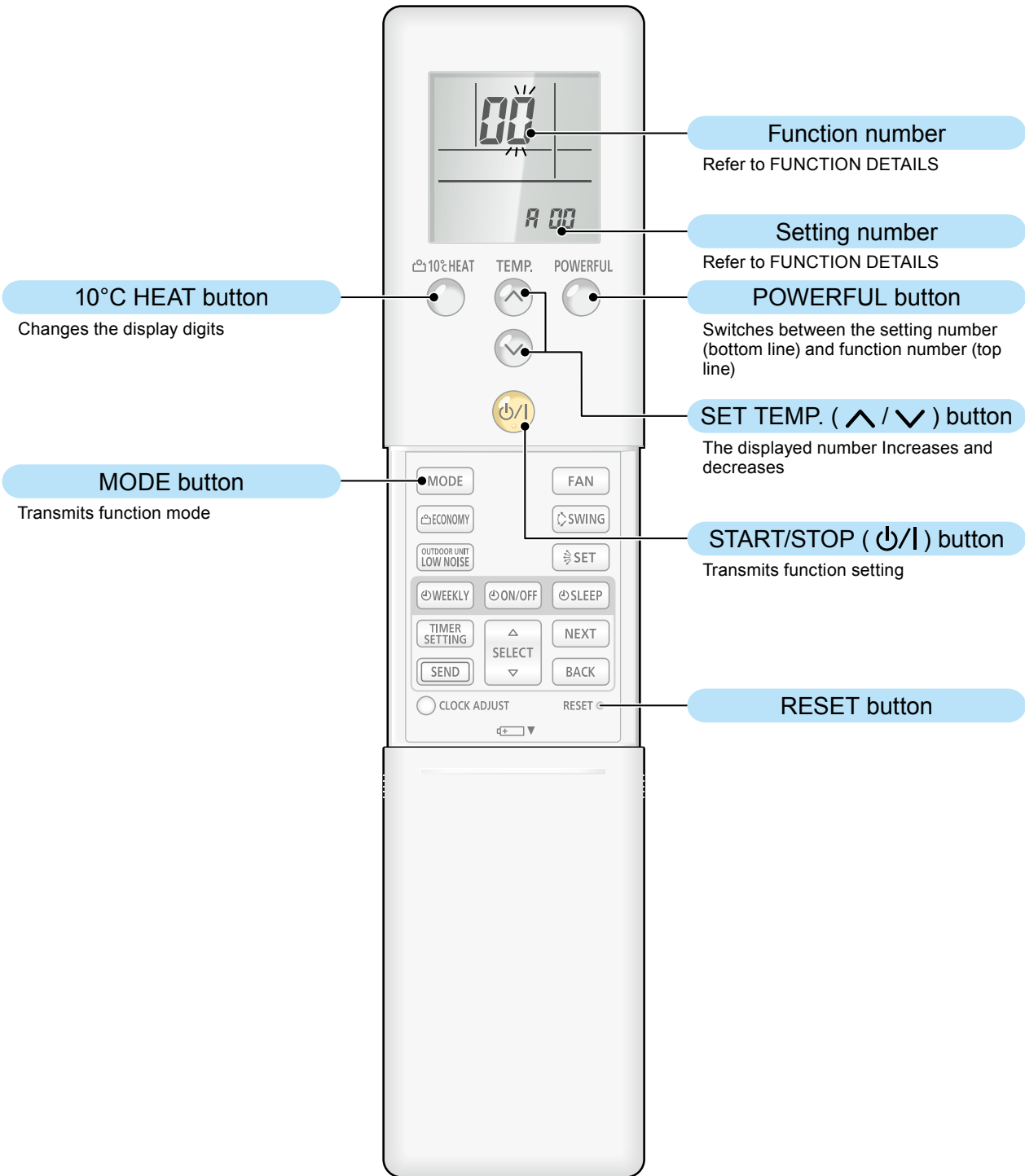
■ SWITCHING SELECTION OF FUNCTION SETTING MODE

- (2) Press and hold the "POWERFUL" and "SET TEMP. ^" buttons. While holding these 2 buttons, press the "RESET" button.



■ BUTTON NAME AND FUNCTION

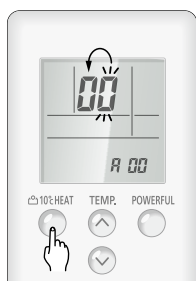
- During function setting mode, indoor unit reject the any operation command from remote controller.



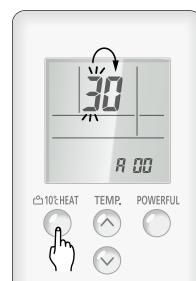
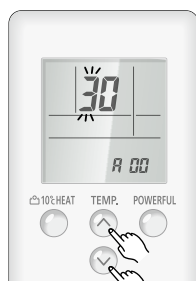
■ FUNCTION SETTING

- (3) Press the " ^ " or the " v " buttons to select the function number.

Each time the "10°C HEAT" button is pressed, it switches between the one's place and the ten's place positions.



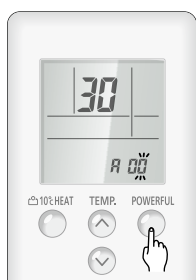
Change digit



Change digit

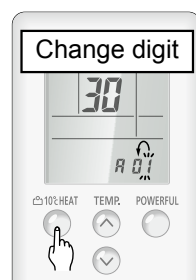
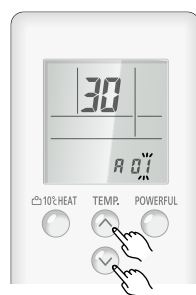
- (4) Press the "POWERFUL" button to proceed to the setting number.

(Press the "POWERFUL" button again to return to the function number selection.)



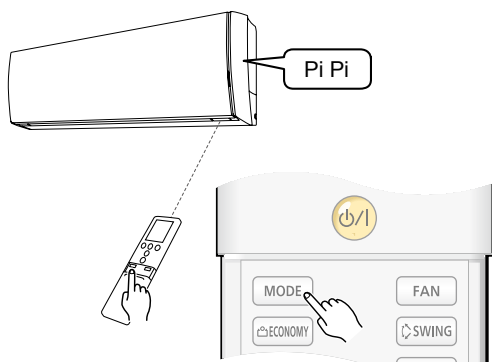
- (5) Press the " ^ " or the " v " buttons to select the setting number.

Each time the "10°C HEAT" button is pressed, it switches between the one's place and the ten's place positions.



Change digit

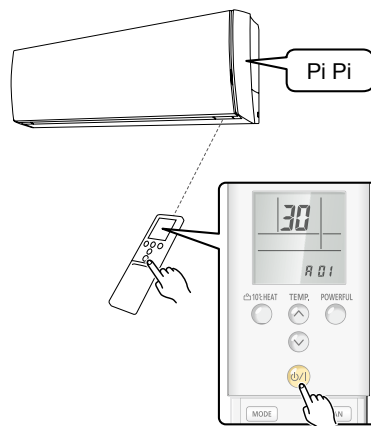
- (6) Press the "MODE" button once to send the function mode information.



- (7) Press the " ⏻ / I " button once to send the function setting information.

A beeping noise will be heard if the command is accepted.

*Wrong code: No response



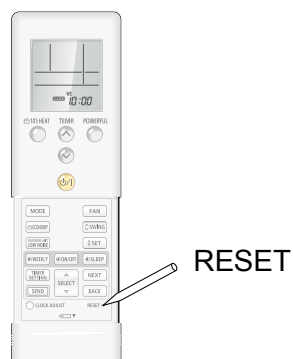
Note: Please push " ⏻ / I " button within 30 seconds after pushing "MODE" button.

■ FUNCTION DETAILS

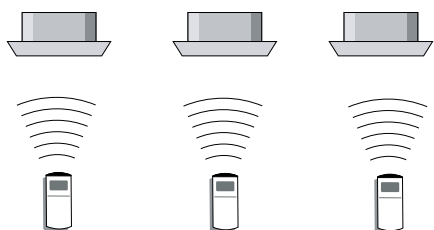
Refer to 13-5. FUNCTION DETAILS

■ COMPLETION OF FUNCTION SETTING MODE

(8) Press the "RESET" button.



■ SETTING UP EACH INDOOR UNIT



Repeat steps (1) through to (8). Steps (1) through to (2) and (8) only need to be carried out if the signal code is different to the factory setting of "A".

■ RESET THE POWER AFTER SETTING UP FUNCTION OF ALL INDOOR UNITS

Important

- If the reset is not performed, function can not be read in normally.
- After all the functions have been set, the circuit breaker needs to be switched off for at least 2 minutes.
After the 2 minutes has passed, power can be restored.
- The set function is stored in the PCB and will remain in memory even when the power is turned off.
However setting function is effective after power reset.
Record the function set in the indoor unit on a label, etc., and affix the label to the unit so it can be used for after-sales service operations.

* Once the "RESET" button is pressed on the remote controller, the OPERATION MODE will be set in the "AUTO MODE".

Please adjust the OPERATION MODE to either "COOLING" or "HEATING" before trying to operate the air conditioner.

* Note : If SIGNAL CODE is set to anything other than "A", the remote control must be set accordingly to the INDOOR UNIT setting.

■ REMOTE CONTROLLER SIGNAL CODE SETTING

In function setting, please change to the setting that signal code setting of Wireless remote controller is the same as indoor unit according to the following content when you change signal code setting of indoor unit.

1. Press the START/STOP “ $\phi/|$ ” button until only the clock is displayed on the remote controller display.



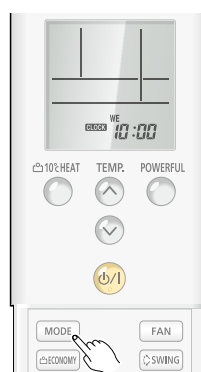
2. Press the MODE button for at least 5 seconds to display the current signal code (initially set to A).



3. Press the SET TEMP. “ $\wedge$ ” or the “ $\vee$ ” button to change the signal code between A→B→C→D.



4. Press the MODE button again to return to the clock display. The signal code will be changed.



- If no buttons are pressed within 30 seconds after the signal code is displayed, the system returns to the original clock display. In this case, start again from step 1.
- The air conditioner signal code is set to A prior to shipment.
- If you do not know the air conditioner signal code setting, try each of the signal codes (A→B→C→D) until you find the code which operates the air conditioner.

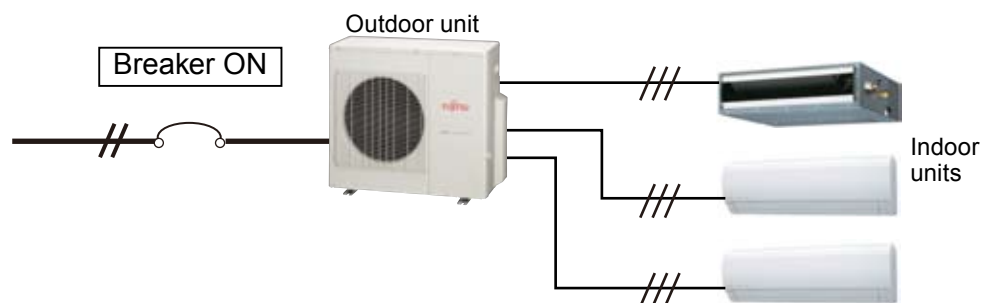
13-3. INDOOR UNIT (setting by wired remote controller)

- 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 Number.
- Settings will not be changed if invalid numbers or setting numbers are selected.
- This function cannot be used on the slave units.

■ PREPARATION

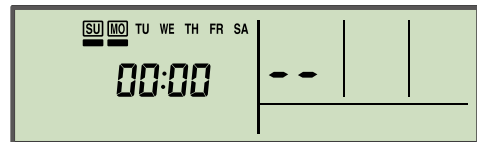
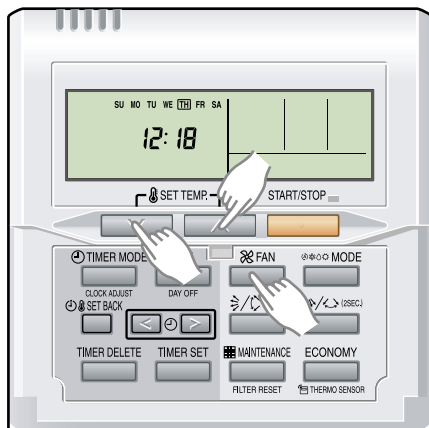
(1) Turn on the power to the Outdoor unit.

- 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.



■ SWITCHING SELECTION OF FUNCTION SETTING MODE

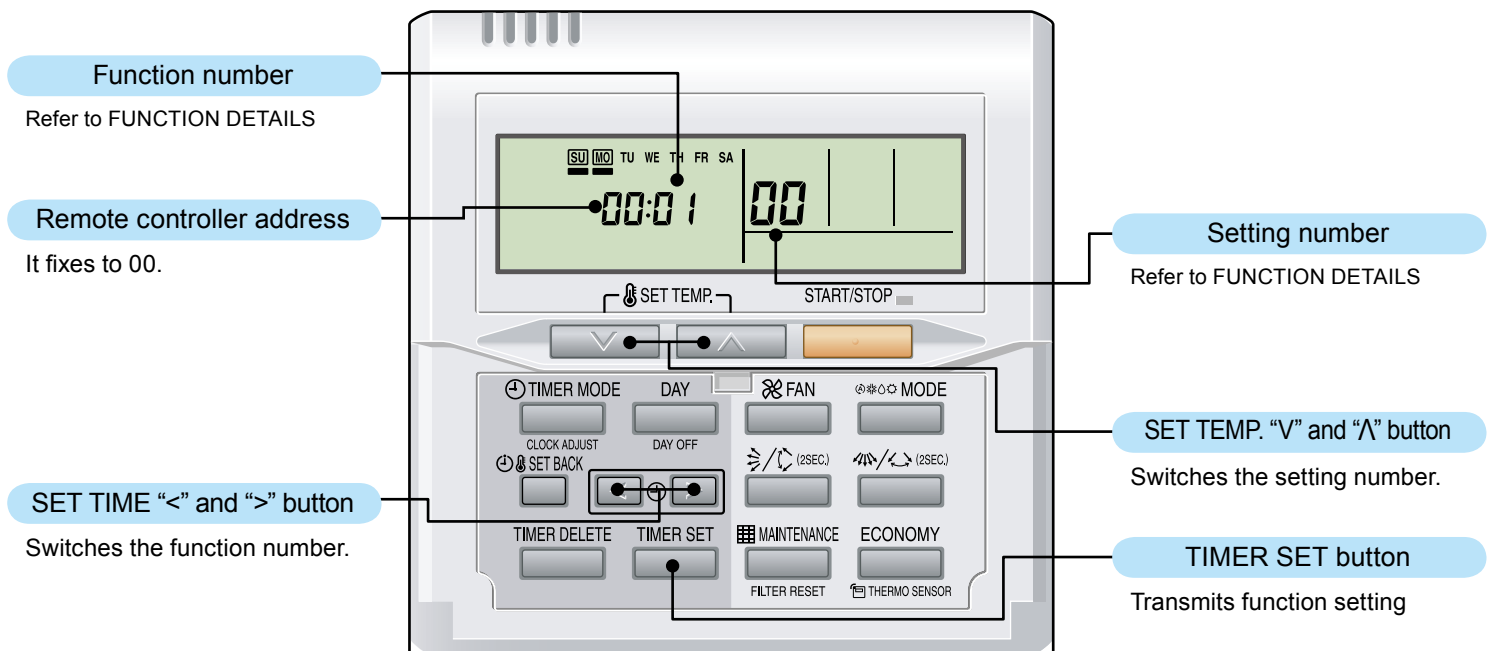
- 2) To activate the function setting mode, hold down the three buttons of SET TEMP. V, SET TEMP. ^ and FAN at the same time for 5 seconds or longer.



Function setting mode initial display

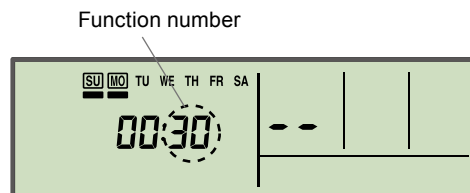
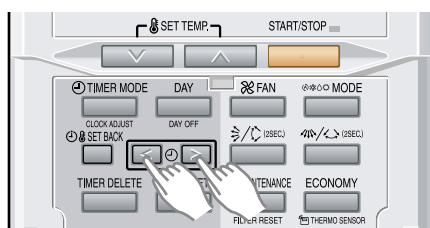
■ BUTTON NAME AND FUNCTION

- During address setting mode, indoor unit reject the any operation command from remote controller.

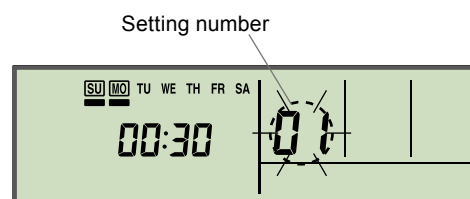
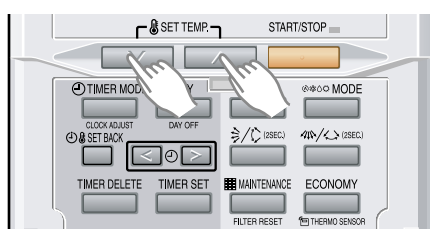


FUNCTION SETTING

3) Pressing the SET TIME < button or the SET TIME > button, to select the function number.

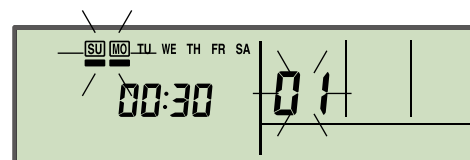
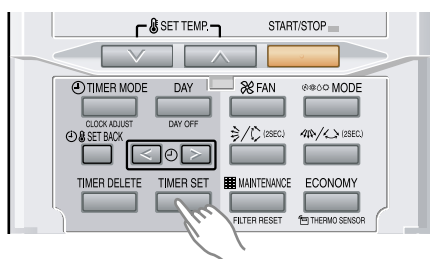


4) Pressing the SET TEMP. V button or the SET TEMP. ^ button, to select the setting number. The display flashes during setting number selection.



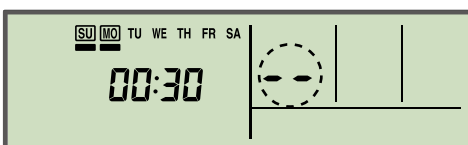
Ex.) Function number : 30, Setting number : 01

5) Pressing the TIMER SET button, confirm the setting.
(The data will be transferred to the indoor unit.)

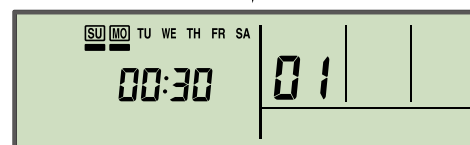


ERROR

GOOD



- When the data was not set up on the indoor unit (-- is displayed.)
- Set up the data again according to the procedure in step 5), 6) above.



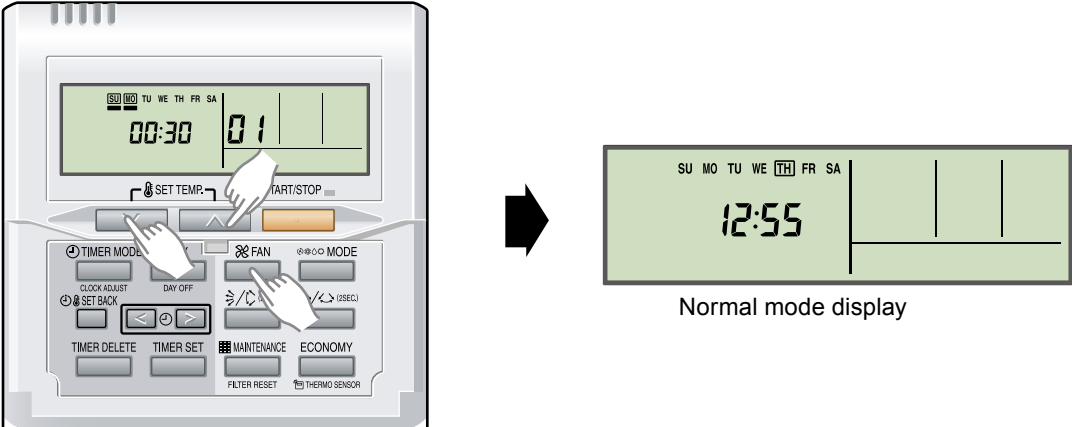
When the data was normally set up on the indoor unit
(Flashing display changes to illuminated display.)

FUNCTION DETAILS

Refer to 13-5. FUNCTION DETAILS

■ COMPLETION OF FUNCTION SETTING MODE

6) To clear the function setting mode and return to the regular display, hold down the three buttons of SET TEMP. V, SET TEMP. $\wedge$ and FAN at the same time.



Normal mode display

*If no key entry is made for 60 seconds, even though none of the above buttons is pressed, the function setting mode will automatically be cleared.
(If the function setting mode is automatically cleared while setting addresses, activate the mode again according to the procedure in step 2) above.)

■ SETTING UP EACH INDOOR UNIT

Repeat the procedures in steps 1) through 6), and set up the indoor units requiring function setting.

■ RESET THE POWER AFTER SETTING UP FUNCTION OF ALL INDOOR UNITS

Important
* If the reset is not performed, function can not be read in normally. * After all the functions have been set, the circuit breaker needs to be switched off for at least 2 minutes. After the 2 minutes has passed, power can be restored. * The set function is stored in the PCB and will remain in memory even when the power is turned off. However setting function is effective after power reset. Record the function set in the indoor unit on a label, etc., and affix the label to the unit so it can be used for after-sales service operations.

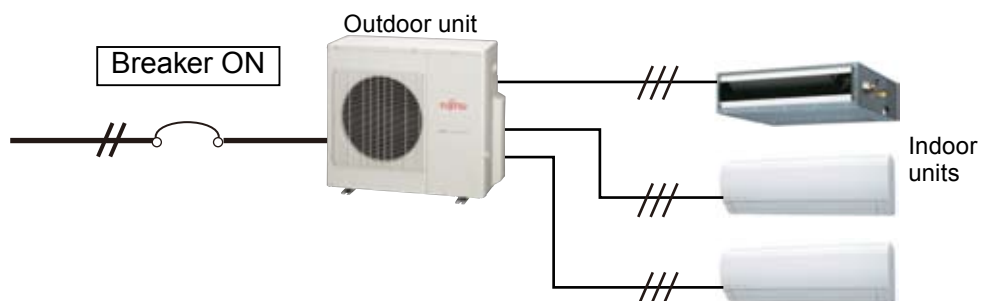
13-4. INDOOR UNIT (setting by simple remote controller)

- 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 Number.
- Settings will not be changed if invalid numbers or setting numbers are selected.
- This function cannot be used on the slave units.

■ PREPARATION

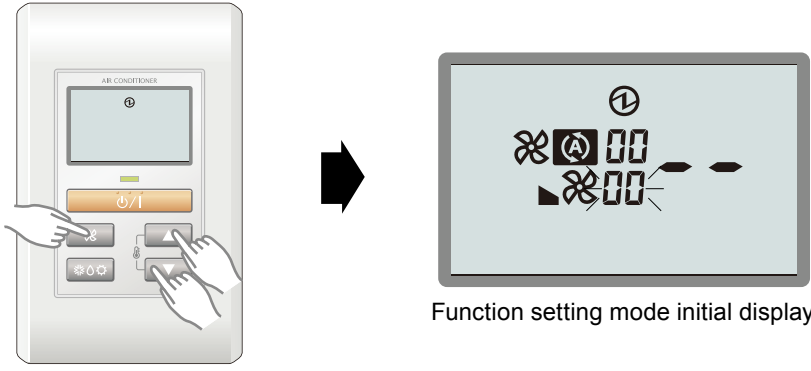
(1) Turn on the power to the Outdoor unit.

- 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.



■ SWITCHING SELECTION OF FUNCTION SETTING MODE

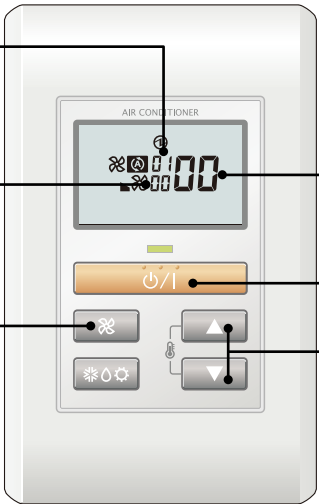
2) To activate the function setting mode, hold down the three buttons of SET TEMP. ▼, SET TEMP. ▲ and FAN at the same time for 5 seconds or longer.



Function setting mode initial display

■ BUTTON NAME AND FUNCTION

- During function setting mode, indoor unit reject the any operation command from remote controller.



Function number
Refer to FUNCTION DETAILS

Remote controller address
It fixes to 00.

FAN button
Each time this button is pressed, the fan setting changes among "Remote controller address," "Function number" and "Setting number."

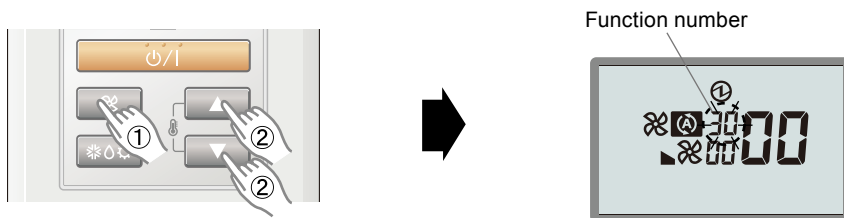
Setting number
Refer to FUNCTION DETAILS

START/STOP button
Transmits function setting

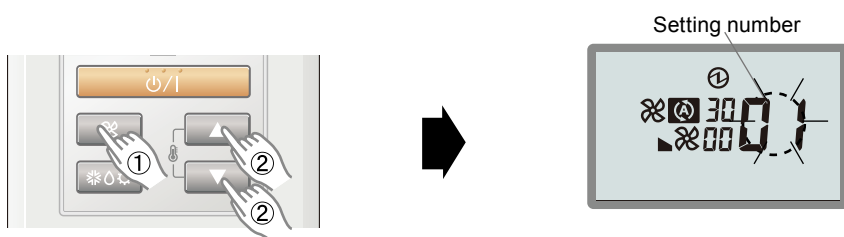
SET TEMP. "▲" and "▼" button
Switches the various numbers.

FUNCTION SETTING

- 3) Press the FAN button so that the "Function number" display flashes. Then, press either the SET TEMP. ▲ button or the SET TEMP. ▼ button to set up the function number.

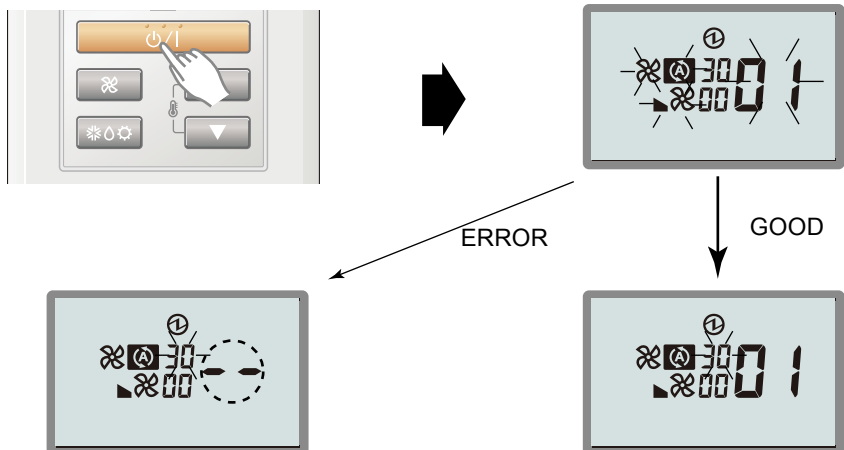


- 4) Press the FAN button so that the "Setting number" display flashes. Then, press either the SET TEMP. ▲ button or the SET TEMP. ▼ button to set up the setting number.



Ex.) Function number : 30, Setting number : 01

- 5) Pressing the START/STOP button, confirm the setting.
(The data will be transferred to the indoor unit.)



- When the data was not set up on the indoor unit (-- is displayed.)
- Set up the data again according to the procedure in step 3), 4) above.

When the data was normally set up on the indoor unit.

FUNCTION DETAILS

Refer to 13-5. FUNCTION DETAILS

■ COMPLETION OF FUNCTION SETTING MODE

6) Press the three buttons of SET TEMP. ▲, SET TEMP. ▼ and FAN at the same time for 5 seconds or longer. The function setting mode will be cleared and the regular display will be restored.

*If no key entry is made for 60 seconds, even though none of the above buttons is pressed, the function setting mode will automatically be cleared.
 (If the function setting mode is automatically cleared while setting addresses, activate the mode again according to the procedure in step 2) above.)

■ SETTING UP EACH INDOOR UNIT

Repeat the procedures in steps 1) through 6), and set up the indoor units requiring function setting.

■ RESET THE POWER AFTER SETTING UP FUNCTION OF ALL INDOOR UNITS

Important

* If the reset is not performed, function can not be read in normally.
 * After all the functions have been set, the circuit breaker needs to be switched off for at least 2 minutes.
 After the 2 minutes has passed, power can be restored.
 * The set function is stored in the PCB and will remain in memory even when the power is turned off.
 However setting function is effective after power reset.
 Record the function set in the indoor unit on a label, etc., and affix the label to the unit so it can be used for after-sales service operations.

13-5. FUNCTION DETAILS

	Functions	Compact cassette	Slim duct	Compact wall mounted	Wall mounted	Floor / Ceiling	Floor
1)	Filter sign	●	●	●	●	●	●
2)	Ceiling height	●	-	-	-	●	-
3)	Outlet directions	●	-	-	-	-	-
4)	Embedding the indoor unit in a wall	-	-	-	-	-	●
5)	Static pressure	-	●	-	-	-	-
6)	Cooler room temperature correction	●	●	●	●	●	●
7)	Heater room temperature correction	●	●	●	●	●	●
8)	Auto restart	●	●	●	●	●	●
9)	Indoor room temperature sensor switching function	●	●	●	●	●	●
10)	Remote controller signal code	●	●	●	●	●	●
11)	External input control	●	●	●	●	●	●

1) Filter sign

The indoor unit has a sign to inform the user that it is time to clean the filter. Select the time setting for the filter sign display interval in the table below according to the amount of dust or debris in the room. If you do not wish the filter sign to be displayed, select the setting value for "No indication".

(◆... Factory setting)

Setting description	Function number	Setting value
Standard	11	00
Long interval		01
Short interval		02
No indication		03

◆

The filter sign interval time is different according to Indoor unit type as follows.

Setting description	Comapact Cassette	Slim Duct	Compact Wall Mounted	Wall Mounted	Floor / Ceiling	Floor
Standard	2500 hours	400 hours				
Long interval	4400 hours	1000 hours				
Short interval	1250 hours	200 hours				

2) Ceiling height

Select the setting values in the table below according to the height of the ceiling.

(◆... Factory setting)

Setting description	Function number	Setting value
Standard	20	00
High ceiling		01

◆

3) Outlet directions

Select the setting values in the table below for using a 3-way outlet.

(◆... Factory setting)

Setting description	Function number	Setting value
4-way	22	00
3-way		01

◆

4) Embedding the indoor unit in a wall

When embedding the indoor unit in a wall, restrict the movement of the horizontal vane for the upper air outlet so that it only operates horizontally.

(◆... Factory setting)

	Setting description	Function number	Setting value
◆	Standard	23	00
	(Setting forbidden)		01
	In a wall		02

5) Static pressure

Select appropriate static pressure according to the installation conditions.

(◆... Factory setting)

	Setting description	Function number	Setting value
◆	0 Pa	26	00
	10 Pa		01
	20 Pa		02
	30 Pa		03
	40 Pa		04
	50 Pa		05
	60 Pa		06
	70 Pa		07
	80 Pa		08
	90 Pa		09
	25 Pa [Standard]		31

6) Cooler room temperature correction

Depending on the installed environment, the room temperature sensor may require a correction.

The settings may be selected as shown in the table below.

(◆... Factory setting)

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

When using floor console installation, change the setting value to "1".

(Only slim duct type and Floor/Ceiling type)

7) Heater room temperature correction

Depending on the installed environment, the room temperature sensor may require a correction.

The settings may be changed as shown in the table below.

(◆... Factory setting)

	Setting description	Function number	Setting value
◆	Standard	31	00
	Lower control		01
	Slightly warmer control		02
	Warmer control		03

When using floor console installation, change the setting value to "1".

(Only slim duct type and Floor/Ceiling type)

8) Auto restart

Enable or disable automatic system restart after a power outage.

(◆... Factory setting)

	Setting description	Function number	Setting value
◆	Yes	40	00
	No		01

*Auto restart is an emergency function such as for power failure etc.
Do not start and stop the indoor unit by this function in normal operation.
Be sure to operate by the control unit, or external input device.

9) Indoor room temperature sensor switching function

(Only for Wired remote controller)

The following settings are needed when use the control by Wired remote controller temperature sensor.

(◆... Factory setting)

	Setting description	Function number	Setting value
◆	No	42	00
	Yes		01

*If setting value is “00” :
Room temperature is controlled by the indoor unit temperature sensor.
*If setting value is “01” :
Room temperature is controlled by either indoor unit temperature sensor or remote controller unit sensor.

10) Remote controller signal code

Change the indoor unit Signal Code, depending on the remote controllers.

(◆... Factory setting)

	Setting description	Function number	Setting value
◆	A	44	00
	B		01
	C		02
	D		03

11) 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

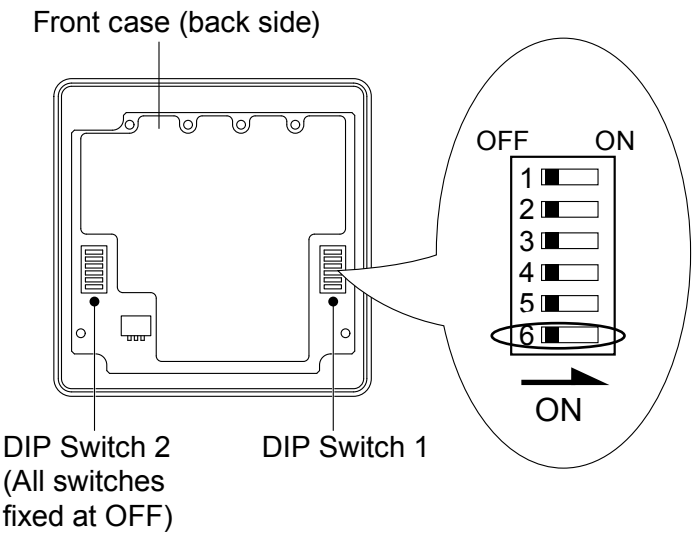
13-6. WIRED REMOTE CONTROLLER

DIP Switch 1	SW1	Forbidden
	SW2	Dual remote controller setting
	SW3	Forbidden
	SW4	°F / °C switch
	SW5	Forbidden
	SW6	Memory backup setting

* Do not use DIP Switch 2

SWITCH POSITION

Wired remote controller



DIP SWITCH 1 SETTING

●SW1 setting forbidden

(◆...Factory setting)

◆	SW1	
	OFF	Fixed at OFF
	ON	Setting forbidden

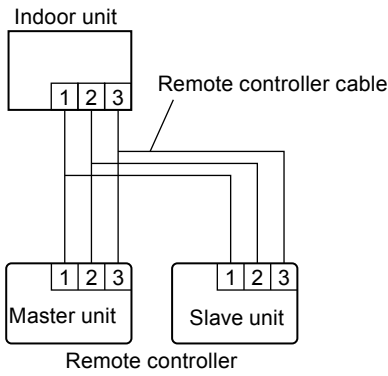
●SW2 setting

●Dual remote controller setting

Set the remote controller SW2 according to the following table.

(◆...Factory setting)

◆	Number of remote controller	Master unit	Slave unit
		SW2	SW2
	1 (Normal)	OFF	-
	2 (Dual)	OFF	ON



●SW3 setting forbidden

(◆...Factory setting)

◆	SW3	
	OFF	Fixed at OFF
	ON	Setting forbidden

●SW4 setting

●°F / °C switch

Temperature display is Fahrenheit(°F) / Celsius(°C)

(◆...Factory setting)

◆	SW4	
	OFF	°C
	ON	°F

● SW5 setting forbidden

(◆...Factory setting)

◆	SW5	
	OFF	Fixed at OFF
	ON	Setting forbidden

● SW6 setting

● Memory backup setting

Set to ON to use batteries for the memory backup.

If batteries are not used, all of settings stored in memory will be deleted if there is a power failure.

(◆...Factory setting)

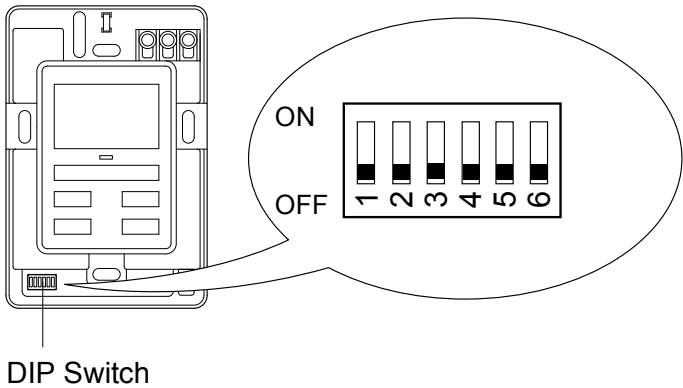
◆	SW6	Memory backup
	OFF	Invalidity
	ON	Validity

13-7. SIMPLE REMOTE CONTROLLER

DIP Switch	SW1	Forbidden
	SW2	Dual remote controller setting
	SW3	°F / °C switch
	SW4	Forbidden
	SW5	Forbidden
	SW6	Forbidden

■ SWITCH POSITION

● Simple remote controller



DIP SWITCH SETTING

SW1 setting forbidden

◆ (◆...Factory setting)

SW1	
OFF	Fixed at OFF
ON	Setting forbidden

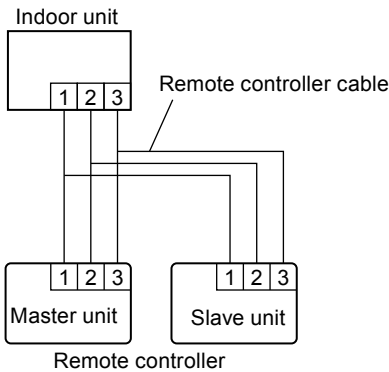
SW2 setting

Dual remote controller setting

Set the remote controller SW2 according to the following table.

◆ (◆...Factory setting)

Number of remote controller	Master unit	Slave unit
	SW2	SW2
1 (Normal)	OFF	-
2 (Dual)	OFF	ON



SW3 setting

°F / °C switch

Temperature display is Fahrenheit(°F) / Celsius(°C)

◆ (◆...Factory setting)

SW3	
OFF	°C
ON	°F

SW4 setting forbidden

◆ (◆...Factory setting)

SW4	
OFF	Fixed at OFF
ON	Setting forbidden

● SW5 setting forbidden

(◆...Factory setting)

◆	SW5	
	OFF	Fixed at OFF
	ON	Setting forbidden

● SW6 setting forbidden

(◆...Factory setting)

◆	SW6	
	OFF	Fixed at OFF
	ON	Setting forbidden

14. OPTIONAL PARTS

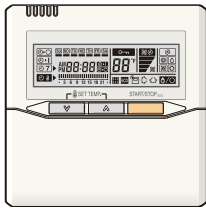
14-1. CONTROLLER

■ LINE UP

Type	Model	Indoor units						
		Compact Cassette	Slim Duct	Compact wall mounted		Wall mounted	Floor / Ceiling	Floor
				LJ	LU			
Wired Remote Controller	UTY-RNN*M	○	●	○ *1	○ *2	○	○	○
Wireless Remote Controller	AR-RAH2E	-	-	-	-	●	●	-
	AR-RAH1E	●	-	●	-	-	-	●
	AR-REA2E	-	-	-	●	-	-	-
IR Receiver Unit	UTY-LRH*M	-	○	-	-	-	-	-
Simple Remote Controller	UTY-RSN*M	○	○	○ *1	○ *2	○	○	○

- : Accessory, ○: Optional, -: It is not possible to connect it.
- *1: Optional Communication kit (UTY-XCBXZ1) is necessary for the installation.
- *2: Optional Communication kit (UTY-TWBXF) is necessary for the installation.

■ INDIVIDUAL CONTROL

Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller
		 AR-RAH2E AR-RAH1E AR-REA2E
IR Receiver Unit		

14-2. OTHERS

LINE UP

Type	Model	Indoor units						
		Compact Cassette	Slim Duct	Compact wall mounted		Wall mounted	Floor / Ceiling	Floor
				LJ	LU			
Decoration panel	UTG-UF*D-W	○	-	-	-	-	-	-
Air outlet shutter plate	UTR-YDZB	○	-	-	-	-	-	-
Insulation kit for high humidity	UTZ-KXGC	○	-	-	-	-	-	-
Fresh air intake kit	UTZ-VXAA	○	-	-	-	-	-	-
External control set	UTD-ECS5A	-	○	-	-	-	-	-
External connect kit	UTY-XWZX	○	-	○ *1	-	○	○	○
	UTY-XWZXZ5				○ *2			
Remote sensor unit	UTY-XSZX	-	○	-	-	-	-	-
Auto louver grille kit	UTD-GXSA-W UTD-GXSB-W	-	○	-	-	-	-	-
Communication kit	UTY-XCBXZ1	-	-	○	-	-	-	-
	UTY-TWBXF	-	-	-	○	-	-	-
Half concealed kit	UTR-STA	-	-	-	-	-	-	○

○: Optional, -: It is not possible to connect it.

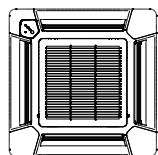
*1: Optional Communication kit (UTY-XCBXZ1) is necessary for the installation.

*2: Optional Communication kit (UTY-TWBXF) is necessary for the installation.

■ PARTS

Decoration panel

Model : UTG-UF*D-W



For Compact Cassette type

Air outlet shutter plate

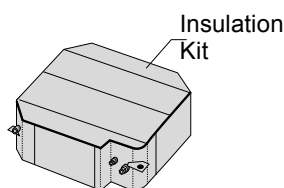
Models : UTR-YDZB



For Compact Cassette type

Insulation kit for high humidity

Model : UTZ-KXGC



For Compact Cassette type

Fresh air intake kit

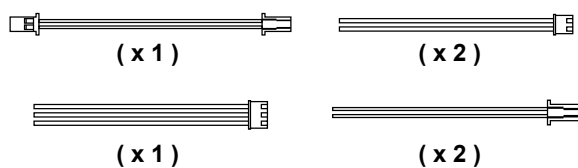
Model : UTZ-VXAA



For Compact Cassette type

External control set

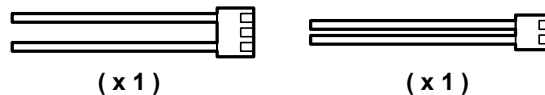
Model : UTD-ECS5A



For Slim Duct type

External connect kit

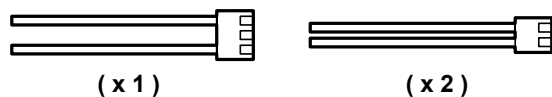
Model : UTY-XWZX



For Compact Cassette, Compact Wall Mounted (LJ),
Wall Mounted, Floor / Ceiling, Floor type

External connect kit

Model : UTY-XWZXZ5



For Compact Wall Mounted (LU) type

Remote Sensor Unit

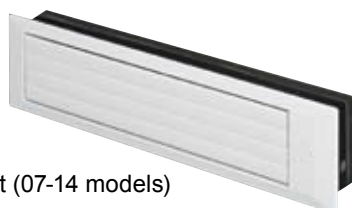
Model : UTY-XSZX



For Slim Duct type

Auto louver grille kit

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



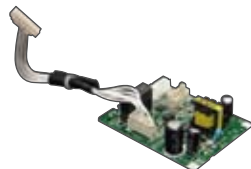
*1 For Slim Duct (07-14 models)

*2 For Slim Duct (18 model)

■ PARTS

Communication kit

Model : UTY-XCBXZ1



For Compact wall mounted (LJ) type

Communication kit

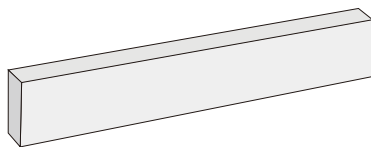
Model : UTY-TWBXF



For Compact wall mounted (LU) type

Half Concealed Kit

Model : UTR-STA



For Floor type

15. INSTALLATION PRECAUTIONS

15-1. INDOOR UNIT INSTALLATION PRECAUTIONS

Note: The information listed below are general precautions.
Some models also include items that do not apply.

■ PLACES WHERE USE PROHIBITED

- Places where there is the danger of combustible gas leakage.
- Places where sulfur gas, chlorine gas, acid, alkali, or other matter which effects equipment is generated
- Places where there is a lot of oil splash and steam (kitchen, machinery room, etc.)
- Places where machinery which generates high frequencies is used
- Ocean beaches and other areas where there is a lot of salt
- Places where carbon fibers and metal powder, powder, etc. suspended in the air
- Installation in vehicles, ships, and other conveyances
- Factory, etc. where voltage fluctuations are large

■ POINTS TO REMEMBER WHEN INSTALLING

- (1) The set shall be installed at a place which can withstand the weight and vibration of the indoor unit
- (2) To allow maintenance after refrigerant piping, drain piping, and electric wiring connection and installation, provide an installation service space and an inspection port, as required.
*Installation service space is shown on " DIMENSIONS ".
- (3) Be careful when installing the set at the following places.

[Installation precautions]

	Contents	Countermeasures (Reference)
When the ceiling is high	If the indoor unit is installed where the installation height given in the installation manual is exceeded, the temperature difference between the floor and ceiling of the room will be large and the heating effect will be poor. Moreover, even if the indoor unit is installed within the installation height, a similar phenomena will occur when installed in a room in which the doors are opened and closed frequently and hot air circulation is obstructed by desks, chairs, etc.	(1) Switch the setting to the high ceiling mode. (2) Install a circulator. (3) Arrange the furniture in the room so that it does not obstruct the hot air.
When lower level directly contacts the outside air.	When the lower level of the shop and office is a warehouse, parking lot, etc., the surface temperature of the flooring will become low and the radiation of cold from the floor will increase. In this case, your feet will feel cold even if the room temperature is suitable.	
When the air flow distribution is poor	When an indoor unit is installed in a position where the outlet air flow will directly contact people, a draft may be felt. In addition, when there are obstructions in the path of the intake and outlet air flow, the air distribution may become extremely bad.	(1) Adjust the louver fins or take other measures matched to the site. (2) Change the indoor unit outlet.

[Installation precautions]

	Contents	Countermeasures (Reference)
When inside the ceiling is high temperature and high humidity	When the indoor unit is installed where the inside of the ceiling is 30°C (86°F) RH80% or greater, the dew point temperature of the outer perimeter may become higher than the cabinet surface temperature and moisture will condense on the surface of the cabinet and water drops may fall inside the room. →Refer to Fig.A In addition, the humidity may vary considerably the same as when the inside of the ceiling is close to hermetically sealed and used as the outside air intake path.	(1) Add heat insulating material to the outside of the indoor unit cabinet. *Regarding the cassette type, use of the “high humidity correspondence kit (option)” is recommended. (2) Strengthen the heat insulating material of the refrigerant piping and drain piping also →Refer to Fig.B (3) When the humidity inside the ceiling changes considerably, install a ventilation port

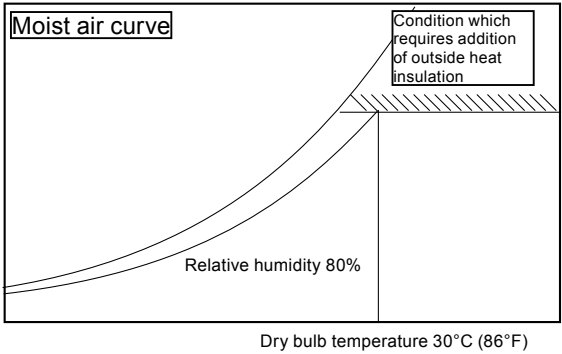


Fig.A

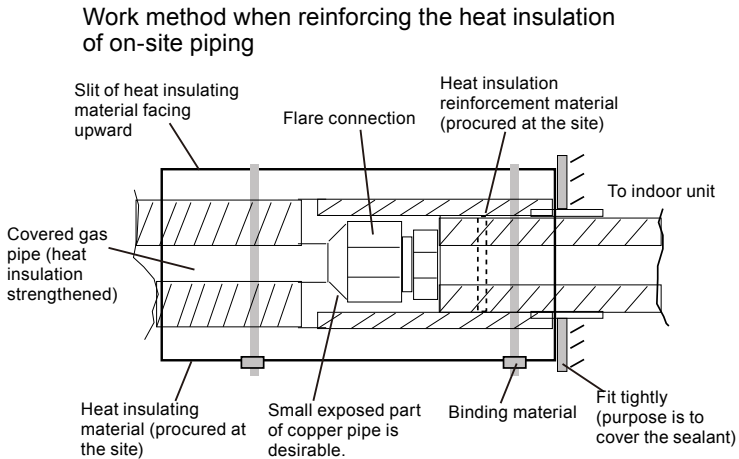


Fig.B

	Contents	Countermeasures (Reference)
When using an external duct	When using an external duct to take in new fresh air, etc., condensation may form on the surface of the duct due to the effect of the outside air temperature and the humidity inside the ceiling.	(1) Always perform heat insulation processing. (Heat insulating material: Glass wool 25mm (31/32 in.) thick or more.)
When the remote controller installation site is bad	If the cold or warm air blown out from the air conditioner directly contacts the thermostat section of the remote controller, the outlet temperature of the air conditioner may be sensed and room temperature control will be different from the room temperature and “not cooled” or “not heated” or other trouble may occur. In addition, there is the possibility that the same kind of trouble may also occur when the remote controller is effected by direct sunlight.	(1) Install the remote controller where it will not be directly exposed to the cold or hot air. (2) Install the remote controller where it will not be directly exposed to sunlight or strong lighting

[Installation precautions]

	Contents	Countermeasures (Reference)
When installation environment is quiet	When the wall mounting type was installed in a bedroom, living room, or other quiet place, the sound of the refrigerant flow may be sensed as noise and must be taken into account.	(1) Plan installation of a model with external expansion valve. (2) Plan installation of a branch box farther from indoor unit. (3) Plan installation using another air conditioner.
When installing duct type in ceiling chamber system	In the case of the ceiling chamber system (duct is not installed at indoor unit inlet side and room air is sucked into the indoor unit through the inside of the ceiling), the thermistor inside the indoor unit may not correctly detect the room temperature. Heating operation: Room is not heated because the indoor unit is easily turned off by the thermostat. Cooling operation: Room is too cold because the indoor unit is difficult to turn off by the thermostat.	(1) Replace the indoor unit thermistor with a Remote sensor unit (optional parts) and install the sensor where the room temperature can be correctly detected
When the outlet air is sucked in at duct type	Cooling operation does not cool the room and heating operation does not heat the room because the short circuited indoor unit is not turned on by the thermostat.	(1) Reconsider the ventilation port construction (2) Replace the indoor unit thermistor with a Remote sensor unit (optional parts) and install the sensor where the room temperature can be correctly detected.
When using the wireless remote controller	Signals may not be received when using it in a room illuminated by an inverter fluorescent lamp.	(1) Turn on the fluorescent lamp and check if the indoor unit receives the signals from the remote controller. If the indoor unit does not receive the signals, consult an authorized service personnel.
When installing the inverter type	It may generate noise in TV sets, stereos and PCs.	(1) The inverter type should be installed at a sufficient distance from these equipments.