

AIR CONDITIONER

Wall mounted type

DESIGN & TECHNICAL MANUAL

INDOOR



ASHG18KMTA
ASHG24KMTA

OUTDOOR



AOHG18KMTA



AOHG24KMTA

FUJITSU GENERAL LIMITED

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Part 1. INDOOR UNIT

WALL MOUNTED TYPE:

ASHG18KMTA

ASHG24KMTA

1. Specifications

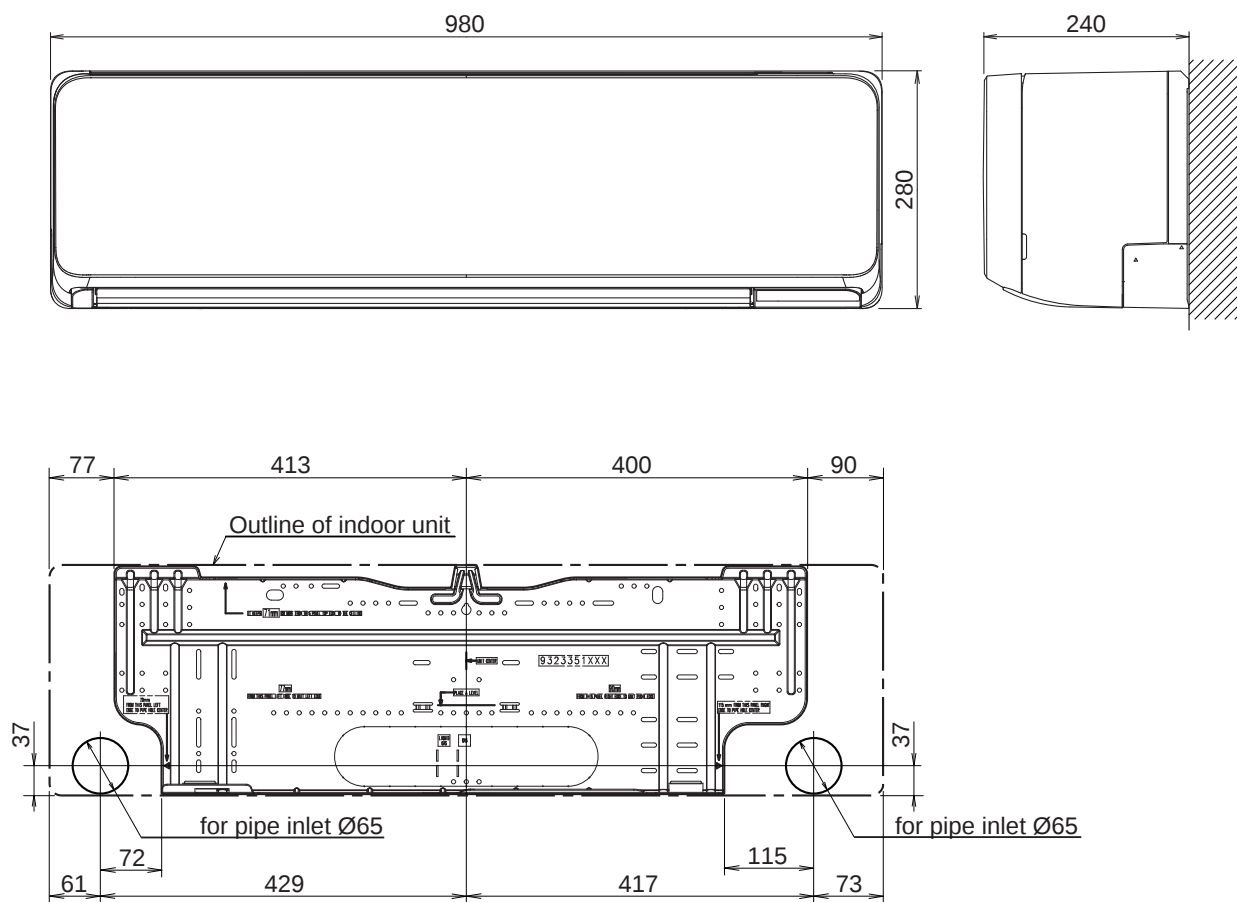
Type				Wall mounted		
				Inverter heat pump		
Model name				ASHG18KMTA	ASHG24KMTA	
Power supply				230 V ~ 50 Hz		
Power supply intake				Outdoor unit		
Available voltage range				198—264 V		
Capacity	Cooling	Rated	kW	5.20	7.10	
			Btu/h	17,700	24,200	
		Min.—Max.	kW	0.90—6.00	0.90—8.30	
	Btu/h		3,100—20,500	3,100—28,300		
	Heating	Rated	kW	6.30	8.00	
			Btu/h	21,500	27,200	
Min.—Max.		kW	0.90—8.70	0.90—10.10		
	Btu/h	3,100—29,600	3,100—34,400			
Input power	Cooling	Rated	kW	1.39	2.08	
				Min.—Max.	0.09—1.66	0.24—3.15
	Heating	Rated		1.56	1.91	
				Min.—Max.	0.09—2.86	0.14—3.00
	Fan	HIGH	W	37.5	61.6	
				MED	22.9	26.7
				LOW	13.3	13.3
				QUIET	8.2	8.2
Current	Cooling	Rated	A	6.1	9.3	
	Heating			7.0	8.6	
EER	Cooling		kW/kW	3.74	3.41	
COP	Heating			4.04	4.19	
Sensible capacity	Cooling		kW	4.05	5.30	
Power factor	Cooling		%	98	98	
	Heating			98	96	
Moisture removal			L/h (pints/h)	1.7 (3.0)	2.7 (4.8)	
Maximum operating current *1		Cooling	A	9.5	13.5	
		Heating		13.5	16.0	
Fan	Airflow rate	Cooling	m³/h	HIGH	980	1,170
				MED	810	850
				LOW	640	640
				QUIET	510	510
		Heating		HIGH	1,020	1,170
				MED	850	850
				LOW	640	640
				QUIET	510	510
	Type × Q'ty		Cross flow fan × 1			
	Motor output		W	59		
Sound pressure level *2	Cooling	dB (A)	HIGH	45	49	
			MED	40	40	
			LOW	35	35	
			QUIET	29	29	
	Heating		HIGH	46	49	
			MED	40	40	
			LOW	35	35	
			QUIET	29	29	
Heat exchanger type	Dimensions (H × W × D)		mm	Main1: 210 × 798 × 26.6, Main2: 135 × 798 × 20		
	Fin pitch			Sub1: 84 × 798 × 13.3, Sub2: 84 × 798 × 13.3		
	Rows × Stages			Main1: 1.2, Main2: 1.1		
	Pipe type			Sub1: 1.4, Sub2: 1.4		
	Fin type			Main1: 2 × 10, Main2: 2 × 8		
Enclosure	Material			Sub1: 1 × 4, Sub2: 1 × 4		
	Color			Copper		
				Aluminum		
Dimensions (H × W × D)	Net		mm	Polystyrene		
	Gross			White		
	Weight	Net		kg	Approximate color of Munsell N 9.25/	
Gross		280 × 980 × 240				
Connection pipe		Size	Liquid	mm (in)	322 × 1,078 × 346	
	Gas		13.0			
	Method			18		
Drain hose	Material			Ø 6.35 (Ø 1/4)		
	Size		mm	Ø 12.70 (Ø 1/2)		
Operation range	Cooling	°C		Flare		
		%RH		PP + HDPE		
Remote control	Heating	°C		Ø 13.8 (I.D.), Ø 15.8 to Ø 16.7 (O.D.)		
				18 to 32		
				80 or less		
				16 to 30		
Wireless remote controller (Option: Wired remote controller, Mobile app*3 [FGLair™])						
NOTES:						
- Specifications are based on the following conditions: - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB. - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB. - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.) - Protective function might work when using it outside the operation range. *1: Maximum operating current is the total current of the indoor unit and the outdoor unit. *2: Sound pressure level: - Measured values in manufacturer's anechoic chamber. - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here. *3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual.						

Specifications for ErP Lot10					
Model name			ASHG18KMTA		ASHG24KMTA
Energy efficiency class	Cooling		A ⁺⁺		
	Heating (Average)		A ⁺		
Pdesign	Cooling	kW	5.2 (35°C)	7.1 (35°C)	
	Heating (Average)		4.8 (-10°C)	7.1 (-10°C)	
SEER	Cooling	kWh/kWh	7.77	7.28	
SCOP	Heating (Average)		4.56	4.18	
Annual energy consumption	QCE	kWh/a	234	341	
	QHE (Average)		1,472	2,372	
Sound power level	Cooling	HIGH	dB (A)	60	65
	Heating			61	65

2. Dimensions

2-1. Models: ASHG18KMTA and ASHG24KMTA

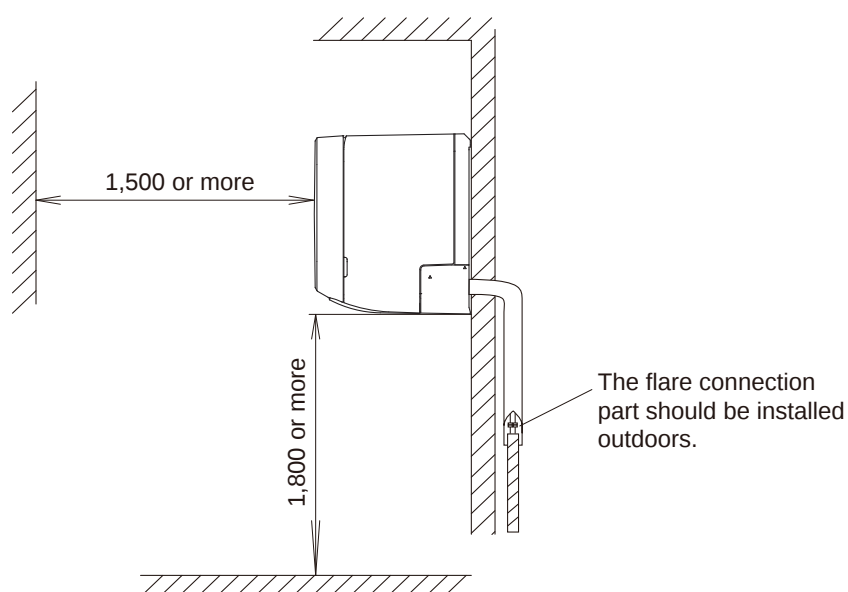
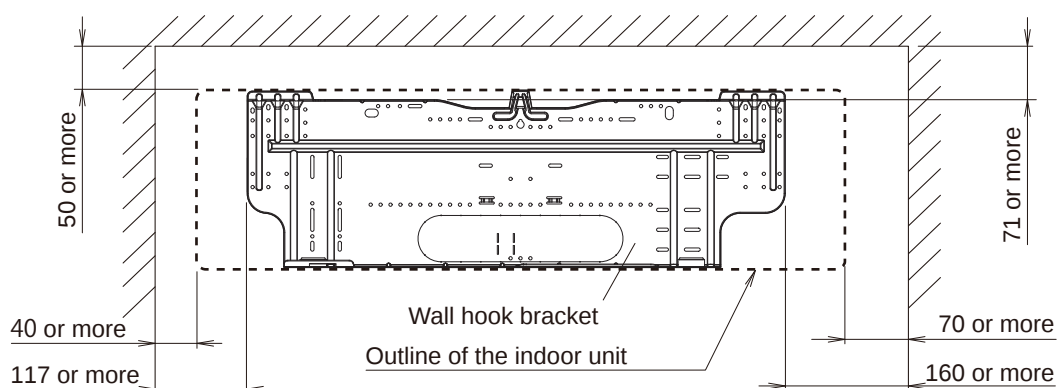
Unit: mm



■ Installation space requirement

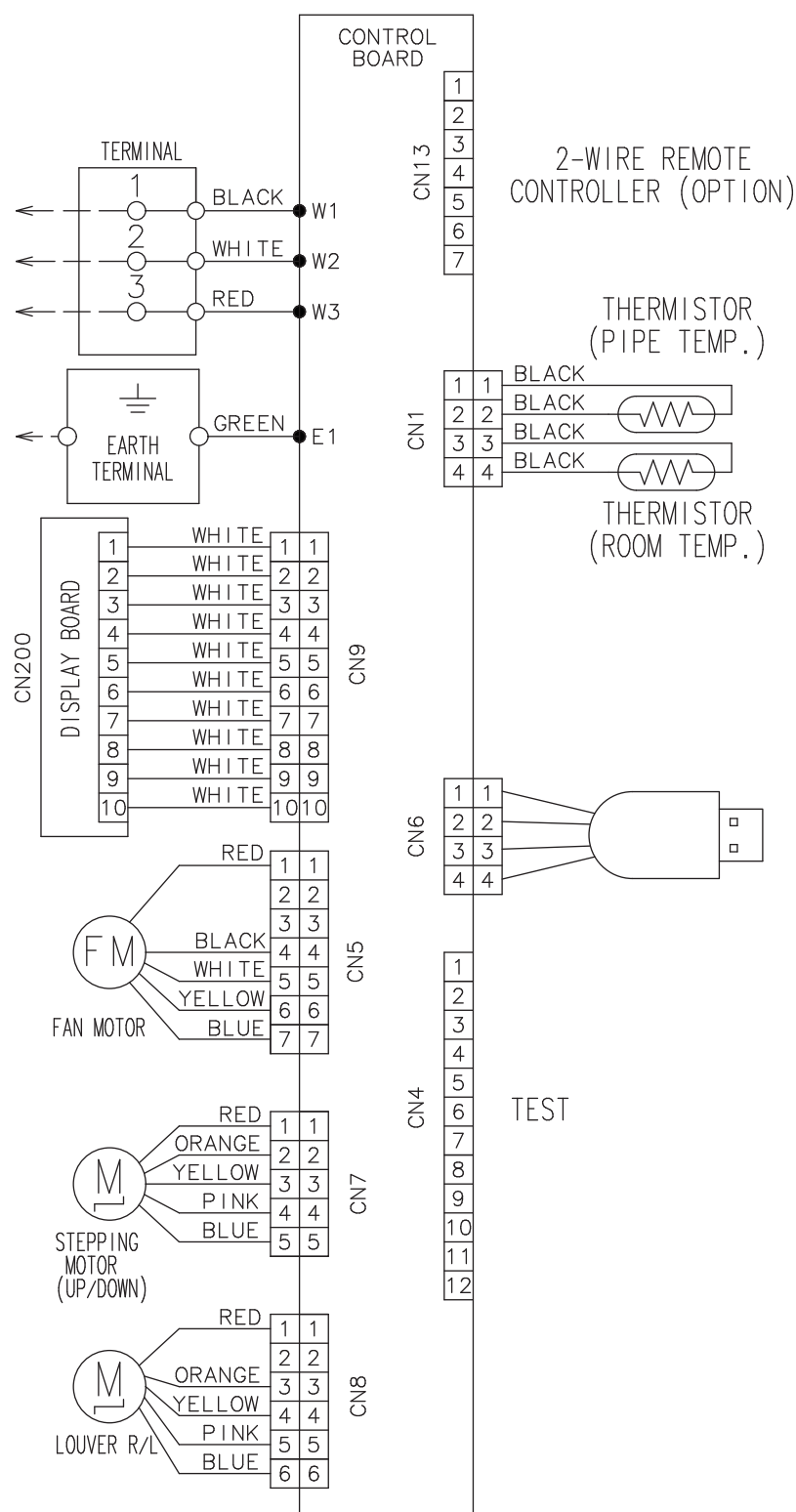
Provide sufficient installation space for product safety.

Unit: mm



3. Wiring diagrams

3-1. Models: ASHG18KMTA and ASHG24KMTA



4. Capacity table

Capacity tables show each of following values calculated based on the outdoor temperature and the indoor temperature, under given Airflow Rate (AFR):

For cooling capacity: Total Capacity (TC), Sensible Heat Capacity (SHC), and Input Power (IP)

For heating capacity: Total Capacity (TC) and Input Power (IP)

4-1. Cooling capacity

■ Model: ASHG18KMTA

AFR		m³/h									980											
Outdoor temperature		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	3.18	2.84	0.46	3.48	3.11	0.46	3.59	3.21	0.46	3.82	3.41	0.47	3.93	3.52	0.47	4.19	3.75	0.48	4.47	3.99	0.48
	-5	2.98	2.76	0.55	3.26	3.02	0.55	3.36	3.11	0.56	3.58	3.31	0.56	3.69	3.41	0.57	3.93	3.63	0.58	4.19	3.87	0.58
	0	2.78	2.68	0.64	3.05	2.93	0.65	3.14	3.02	0.65	3.34	3.21	0.66	3.44	3.31	0.67	3.67	3.52	0.67	3.91	3.76	0.68
	5	3.12	2.81	0.44	3.41	3.07	0.44	3.52	3.17	0.45	3.74	3.37	0.45	3.86	3.47	0.45	4.11	3.70	0.46	4.38	3.94	0.46
	10	2.95	2.74	0.52	3.23	3.00	0.53	3.33	3.09	0.53	3.54	3.29	0.54	3.65	3.39	0.54	3.88	3.61	0.55	4.14	3.85	0.55
	15	3.83	3.11	0.57	4.19	3.40	0.57	4.32	3.51	0.58	4.60	3.73	0.58	4.74	3.84	0.59	5.05	4.09	0.60	5.38	4.37	0.60
	20	4.61	3.45	0.93	5.05	3.77	0.94	5.20	3.89	0.95	5.53	4.13	0.96	5.70	4.26	0.97	6.07	4.54	0.98	6.48	4.84	0.99
25	4.49	3.40	1.05	4.92	3.72	1.06	5.07	3.83	1.07	5.39	4.08	1.08	5.56	4.20	1.09	5.92	4.48	1.10	6.31	4.77	1.11	
30	4.35	3.34	1.19	4.76	3.65	1.20	4.91	3.76	1.21	5.22	4.00	1.23	5.38	4.13	1.24	5.73	4.40	1.25	6.11	4.69	1.26	
35	4.21	3.28	1.33	4.60	3.59	1.35	4.74	3.69	1.36	5.04	3.93	1.38	5.20	4.05	1.39	5.54	4.32	1.40	5.91	4.60	1.42	
40	3.92	3.14	1.42	4.29	3.44	1.44	4.42	3.54	1.45	4.70	3.77	1.47	4.85	3.88	1.48	5.17	4.14	1.50	5.51	4.41	1.51	
46	3.45	2.91	1.47	3.78	3.18	1.48	3.90	3.28	1.50	4.14	3.48	1.51	4.27	3.59	1.53	4.55	3.83	1.55	4.85	4.08	1.56	

■ Model: ASHG24KMTA

AFR		m³/h										1,170										
Outdoor temperature		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	4.34	3.72	0.68	4.75	4.07	0.69	4.90	4.20	0.70	5.21	4.46	0.70	5.37	4.60	0.71	5.72	4.90	0.72	6.10	5.23	0.72
	-5	4.07	3.61	0.82	4.46	3.95	0.83	4.59	4.07	0.84	4.88	4.33	0.84	5.03	4.46	0.85	5.36	4.76	0.86	5.72	5.07	0.87
	0	3.80	3.50	0.96	4.16	3.83	0.97	4.28	3.95	0.98	4.56	4.20	0.99	4.70	4.33	1.00	5.01	4.61	1.01	5.34	4.92	1.02
	5	4.26	3.68	0.65	4.66	4.02	0.66	4.80	4.14	0.67	5.11	4.41	0.67	5.27	4.54	0.68	5.61	4.84	0.69	5.98	5.16	0.69
	10	4.03	3.59	0.78	4.41	3.92	0.79	4.54	4.04	0.80	4.83	4.30	0.81	4.98	4.43	0.81	5.30	4.72	0.82	5.65	5.04	0.83
	15	5.23	4.07	0.85	5.73	4.45	0.85	5.90	4.59	0.86	6.27	4.88	0.87	6.47	5.03	0.88	6.89	5.36	0.89	7.35	5.71	0.90
	20	6.29	4.51	1.39	6.89	4.94	1.41	7.10	5.09	1.42	7.55	5.41	1.44	7.78	5.58	1.45	8.29	5.95	1.46	8.84	6.34	1.48
25	6.14	4.45	1.56	6.71	4.87	1.58	6.92	5.02	1.60	7.36	5.34	1.61	7.59	5.50	1.63	8.08	5.86	1.65	8.62	6.25	1.66	
30	5.94	4.37	1.78	6.50	4.78	1.80	6.70	4.93	1.82	7.12	5.24	1.84	7.34	5.40	1.86	7.82	5.75	1.87	8.34	6.13	1.89	
35	5.74	4.29	2.00	6.28	4.69	2.02	6.48	4.83	2.04	6.89	5.14	2.06	7.10	5.30	2.08	7.57	5.65	2.10	8.07	6.02	2.12	
40	5.36	4.11	2.13	5.86	4.50	2.15	6.04	4.63	2.18	6.42	4.93	2.20	6.62	5.08	2.22	7.05	5.41	2.24	7.52	5.77	2.26	
46	4.72	3.80	2.20	5.16	4.16	2.22	5.32	4.29	2.24	5.66	4.56	2.27	5.83	4.70	2.29	6.21	5.01	2.31	6.62	5.34	2.34	

4-2. Heating capacity

NOTE: Values mentioned in the table are calculated based on the maximum capacity.

■ Model: ASHG18KMTA

AFR	m ³ /h	1,020
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			Indoor temperature													
			16		18		20		22		24		26		28	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW		kW		kW	
Outdoor temperature	°CDB	°CWB	-15	-16	5.17	1.92	5.04	1.96	4.90	2.00	4.76	2.04	4.63	2.08	4.49	2.12
	-10	-11	6.23	1.89	6.06	1.93	5.90	1.98	5.74	2.01	5.57	2.04	5.41	2.09	5.25	2.13
	-5	-7	7.31	2.11	7.12	2.15	6.93	2.07	6.74	2.24	6.55	2.28	6.36	2.33	6.17	2.37
	0	-2	8.45	2.71	8.23	2.76	8.01	2.70	7.79	2.87	7.57	2.93	7.34	2.99	7.12	3.05
	5	3	9.36	3.18	9.11	3.25	8.87	3.32	8.63	3.38	8.38	3.44	8.14	3.52	7.89	3.58
	7	6	9.18	2.75	8.94	2.80	8.70	2.86	8.46	2.91	8.22	2.97	7.98	3.03	7.74	3.09
	10	8	9.29	2.64	9.05	2.69	8.81	2.79	8.56	2.81	8.32	2.86	8.08	2.92	7.83	2.97
	15	10	9.35	2.28	9.11	2.32	8.86	2.46	8.62	2.42	8.37	2.46	8.13	2.52	7.88	2.56
	20	15	9.42	2.04	9.17	2.09	8.93	2.17	8.68	2.17	8.43	2.21	8.19	2.26	7.94	2.30
	24	18	9.48	1.89	9.23	1.93	8.98	1.97	8.73	2.01	8.48	2.05	8.24	2.09	7.99	2.13

■ Model: ASHG24KMTA

AFR	m ³ /h	1,170
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			Indoor temperature													
			16		18		20		22		24		26		28	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW		kW		kW	
Outdoor temperature	°CDB	°CWB	-15	-16	7.29	2.76	7.10	2.81	6.91	2.87	6.72	2.93	6.53	2.98	6.34	3.05
	-10	-11	8.23	2.83	8.01	2.89	7.80	2.94	7.58	3.01	7.37	3.07	7.15	3.13	6.94	3.19
	-5	-7	9.17	2.96	8.93	3.02	8.69	3.04	8.45	3.15	8.21	3.21	7.97	3.27	7.73	3.33
	0	-2	10.11	3.17	9.85	3.24	9.58	3.26	9.32	3.37	9.05	3.43	8.79	3.50	8.52	3.57
	5	3	10.87	3.34	10.58	3.41	10.30	3.48	10.02	3.55	9.73	3.61	9.45	3.69	9.16	3.76
	7	6	10.66	2.88	10.38	2.94	10.10	3.00	9.82	3.06	9.54	3.11	9.26	3.18	8.98	3.24
	10	8	10.78	2.77	10.50	2.83	10.22	2.93	9.94	2.94	9.66	3.00	9.37	3.06	9.09	3.12
	15	10	10.86	2.39	10.58	2.44	10.29	2.58	10.01	2.54	9.72	2.59	9.44	2.64	9.15	2.69
	20	15	10.93	2.15	10.65	2.19	10.36	2.28	10.07	2.28	9.79	2.32	9.50	2.37	9.22	2.41
	24	18	11.00	1.99	10.71	2.03	10.42	2.07	10.13	2.11	9.84	2.15	9.56	2.19	9.27	2.24

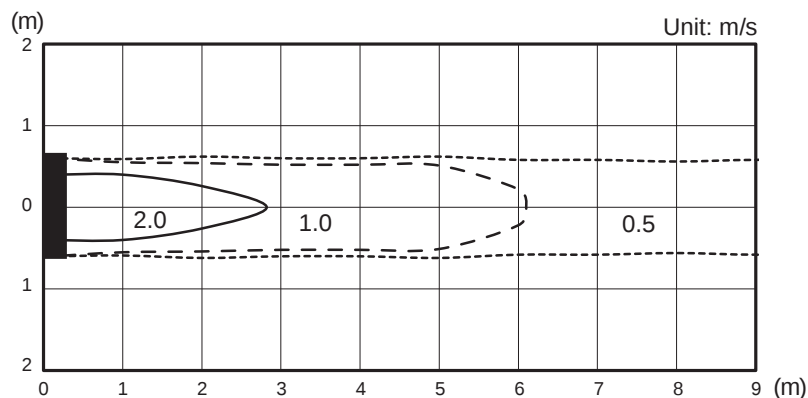
5. Fan performance

5-1. Air velocity distributions

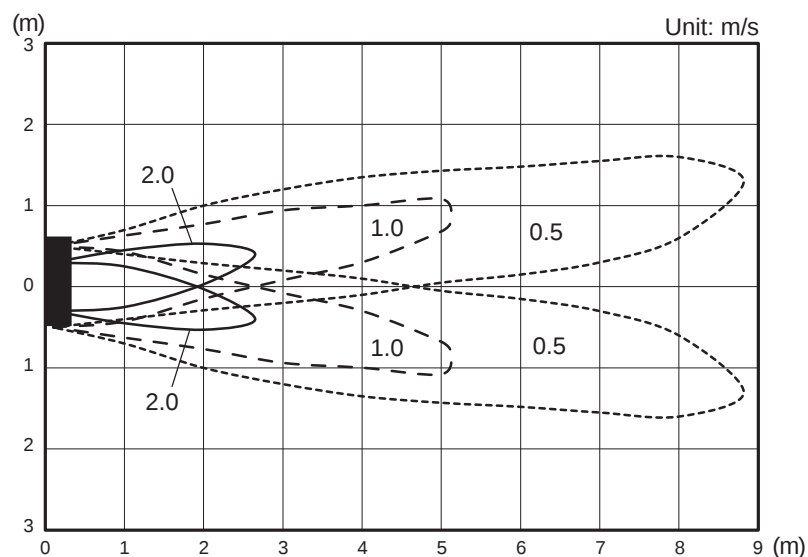
■ Model: ASHG18KMTA

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

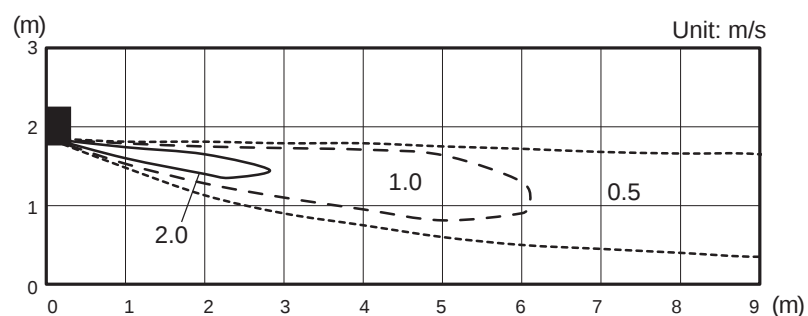
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Center



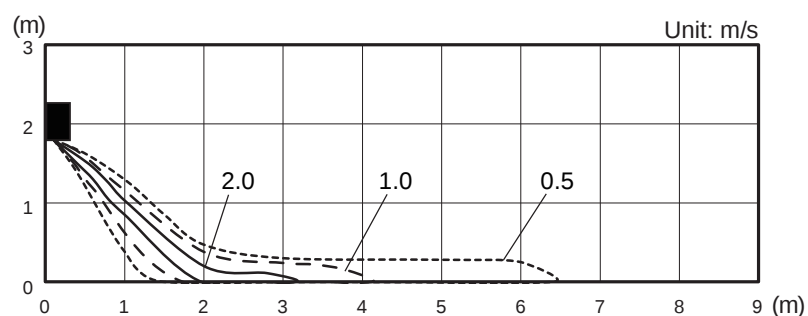
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Left & Right



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



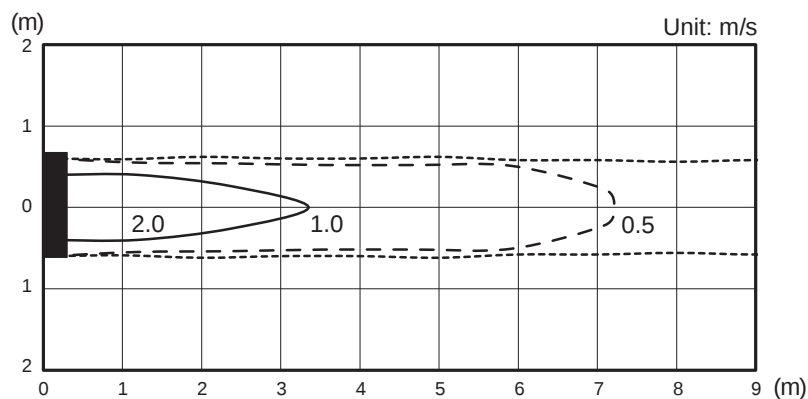
Side view
Vertical airflow direction louver: Down
Horizontal airflow direction louver: Center



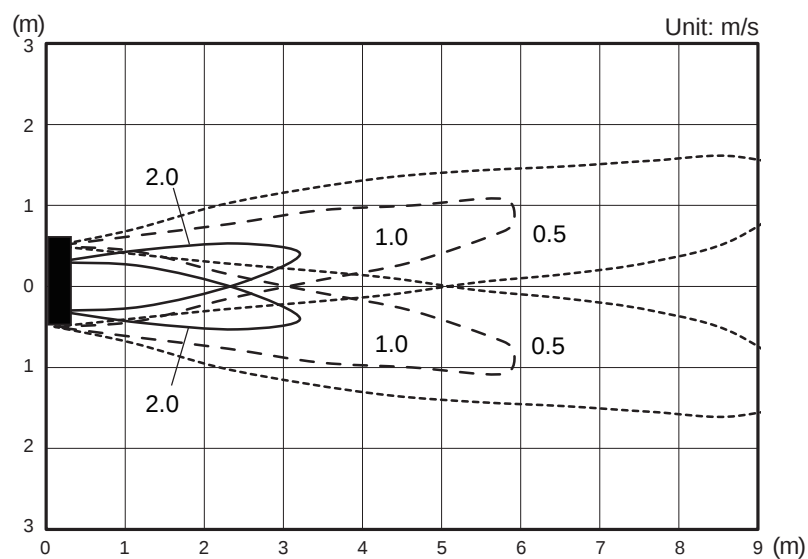
Model: ASHG24KMTA

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

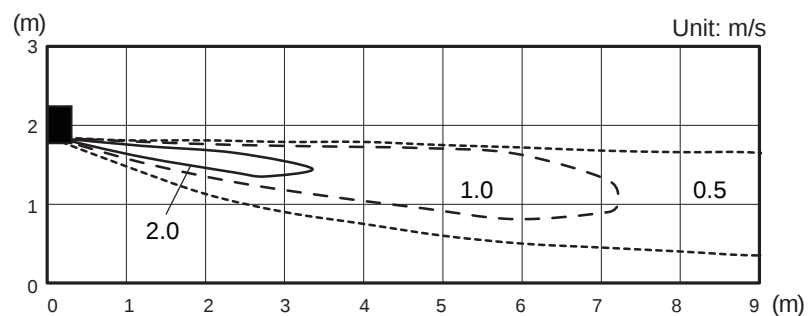
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Center



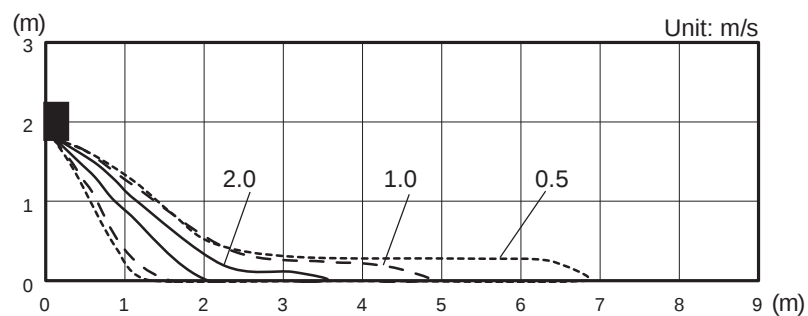
Top view
Vertical airflow direction louver: Up
Horizontal airflow direction louver: Left & Right



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



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



5-2. Airflow

■ Model: ASHG18KMTA

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	980
	l/s	272
	CFM	577
MED	m ³ /h	810
	l/s	225
	CFM	477
LOW	m ³ /h	640
	l/s	178
	CFM	377
QUIET	m ³ /h	510
	l/s	142
	CFM	300

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	1,020
	l/s	283
	CFM	600
MED	m ³ /h	850
	l/s	236
	CFM	500
LOW	m ³ /h	640
	l/s	178
	CFM	377
QUIET	m ³ /h	510
	l/s	142
	CFM	300

■ Model: ASHG24KMTA

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	1,170
	l/s	325
	CFM	689
MED	m ³ /h	850
	l/s	236
	CFM	500
LOW	m ³ /h	640
	l/s	178
	CFM	377
QUIET	m ³ /h	510
	l/s	142
	CFM	300

● Heating

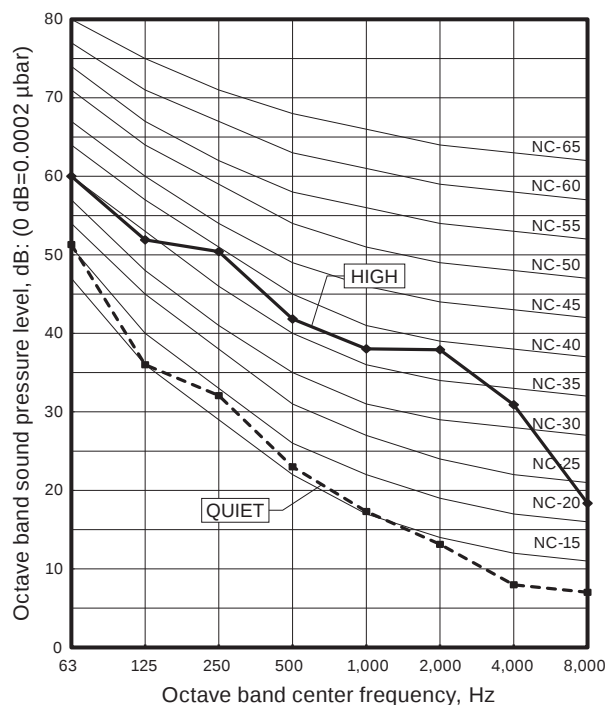
Fan speed	Airflow	
HIGH	m ³ /h	1,170
	l/s	325
	CFM	689
MED	m ³ /h	850
	l/s	236
	CFM	500
LOW	m ³ /h	640
	l/s	178
	CFM	377
QUIET	m ³ /h	510
	l/s	142
	CFM	300

6. Operation noise (sound pressure)

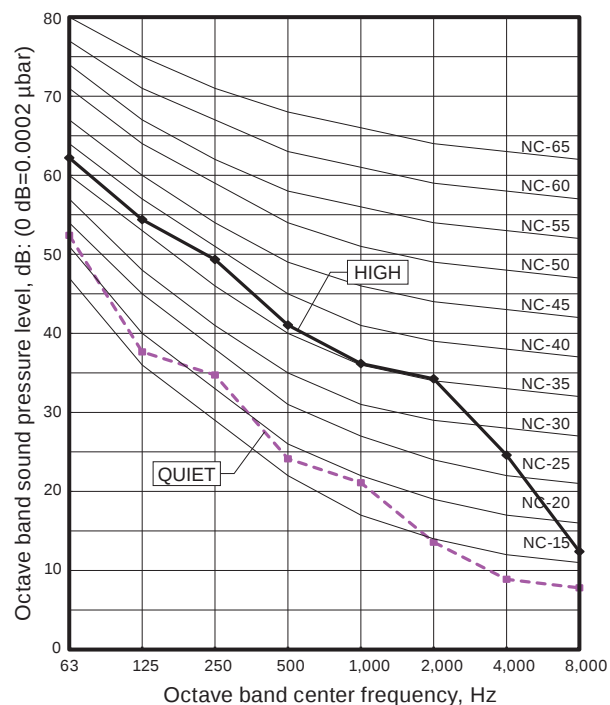
6-1. Noise level curve

■ Model: ASHG18KMTA

● Cooling

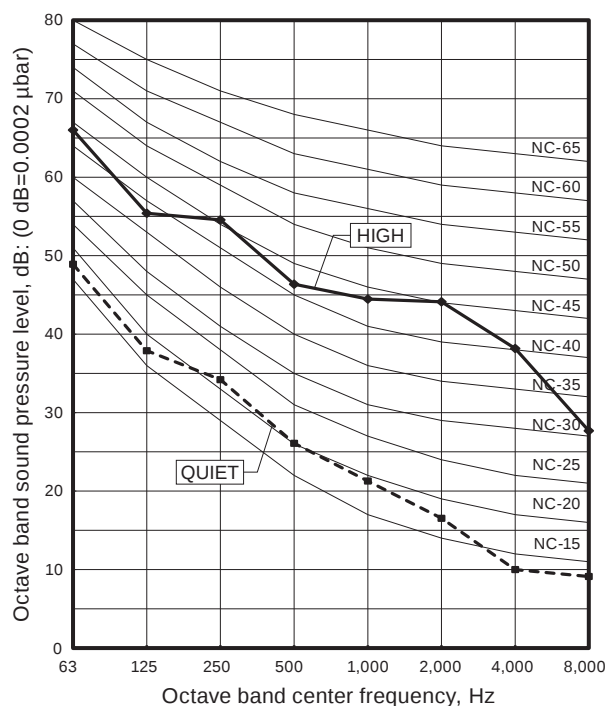


● Heating

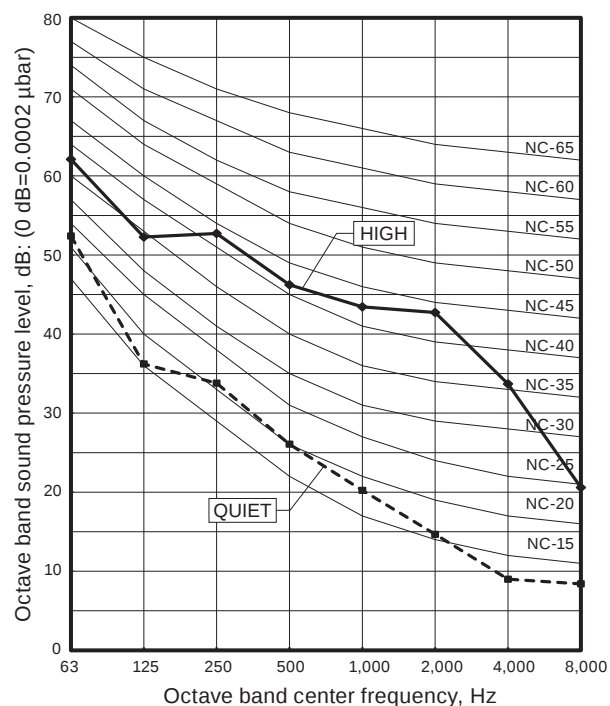


■ Model: ASHG24KMTA

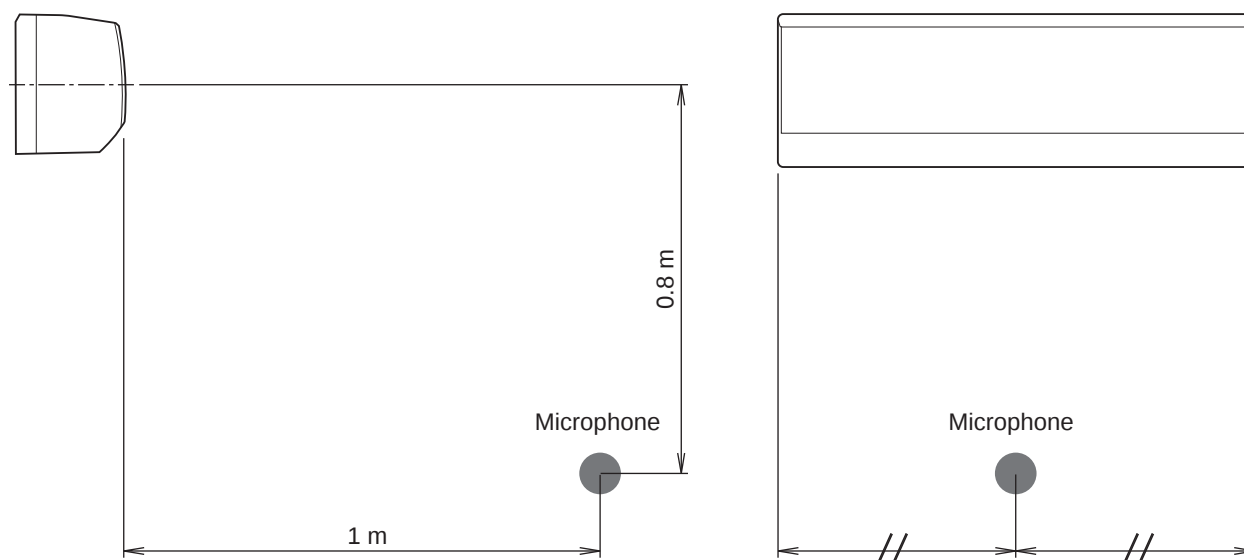
● Cooling



● Heating



6-2. Sound level check point



NOTE: Detailed shape of the actual indoor unit might be slightly different from the one illustrated above.

7. Safety devices

Type of protection	Protection form		Model	
			ASHG18KMTA	ASHG24KMTA
Circuit protection	Current fuse (PCB*)		250 V, 3.15 A	
Fan motor protection	Thermal protector program	Activate	125 ±24°C Fan motor stop	
		Reset	100 ±25°C Fan motor restart	

*PCB: Printed Circuit Board

8. External input and output

With using external input and output functions, this product can be operated inter-connectedly with an external device.

Connector	Input	Output	Remarks
CNA01	Control input	—	See external input/output settings for details.
CNB01	—	Operation status output	
CNB02	—	Error status output	

8-1. External input

With using external input function, some functions on this product can be controlled from an external device.

- “Operation/Stop” mode or “Forced stop” mode can be selected with function setting of indoor unit.
- A twisted pair cable (22AWG) should be used. Maximum length of cable is 150 m.
- The wire connection should be separate from the power cable line.

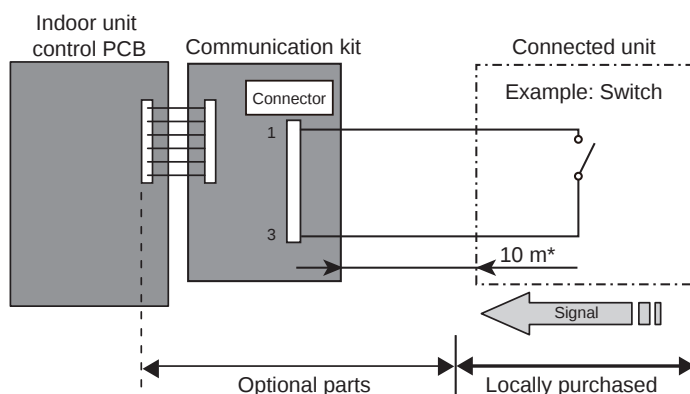
■ Control input (Operation/Stop or Forced stop)

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

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 PCB and turning it on.

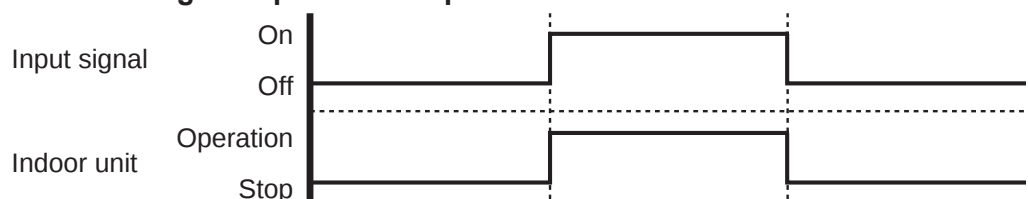
Unit operation	Initial setting after power is on	Starting mode other than initial setting
Operation mode	Auto changeover	Mode at previous operation
Set temperature	24 °C	Temperature at previous operation
Airflow mode	AUTO	Mode at previous operation
Air direction (swing)	Standard air direction (swing OFF)	Air direction at previous operation

• Circuit diagram example:

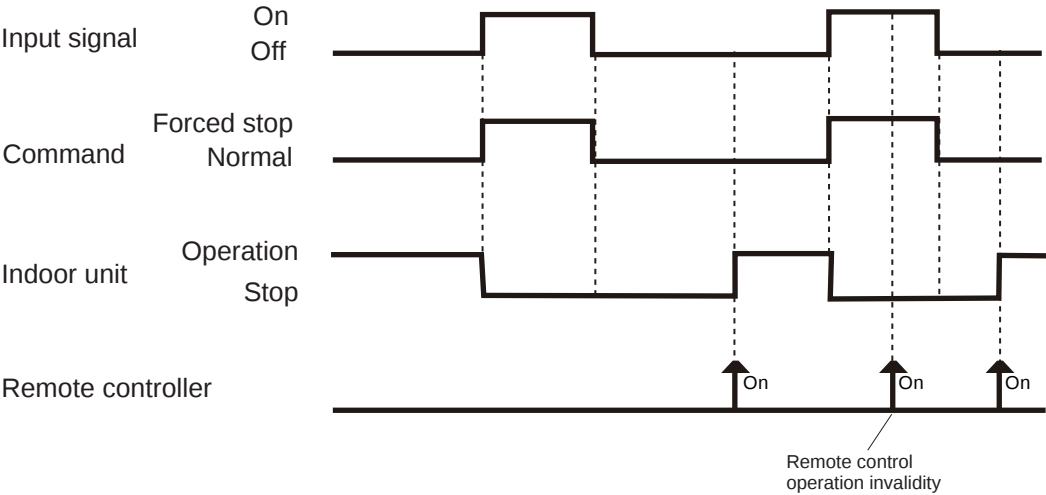


- Contact capacity: DC 24 V or more, 10 mA or more.
- *: Make the distance from the PCB to the connected unit within 10 m.
- Use non-polar relays and switches.

• When function setting is “Operation/Stop” mode:



• When function setting is “Forced stop” mode:



• Optional part:

Part name	Model name	Exterior
External connect kit	UTY-XWZXZ5	External input wire

* For operating the external function, the wall mounted type requires the communication kit in addition to the wire (UTY-XWZXZ5).

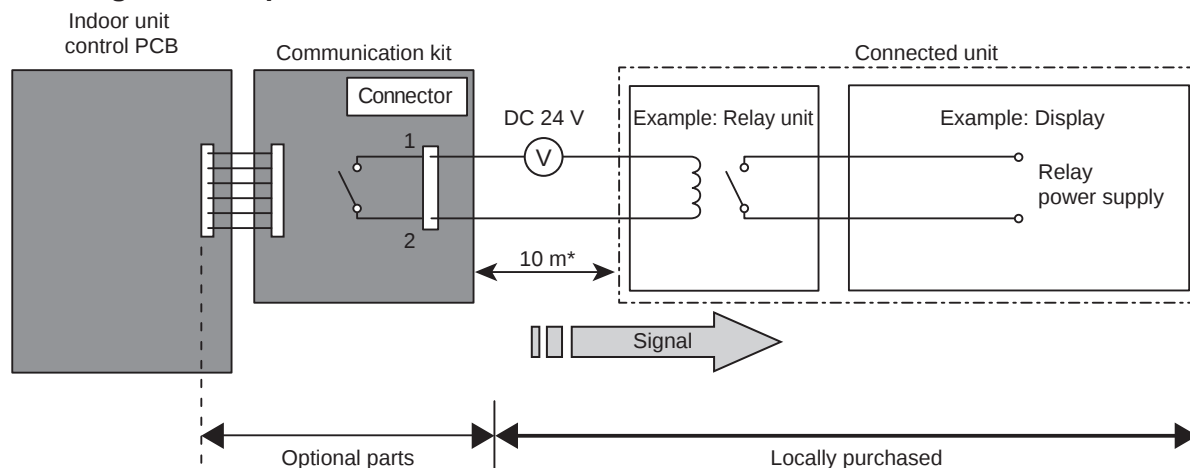
8-2. External output

With using external output function, operating status of this product can be transmitted to the external device, and also, this product can be inter-connected with the external device.

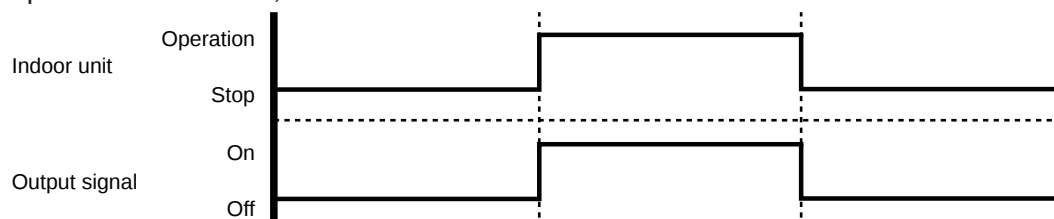
■ Operation status output

Air conditioner operation status signal can be output.

- **Circuit diagram example:**



- *: Make the distance from the PCB to the connected unit within 10 m.
- Relay spec: Max. DC 24 V, 10 mA to less than 500 mA.



- **Optional part:**

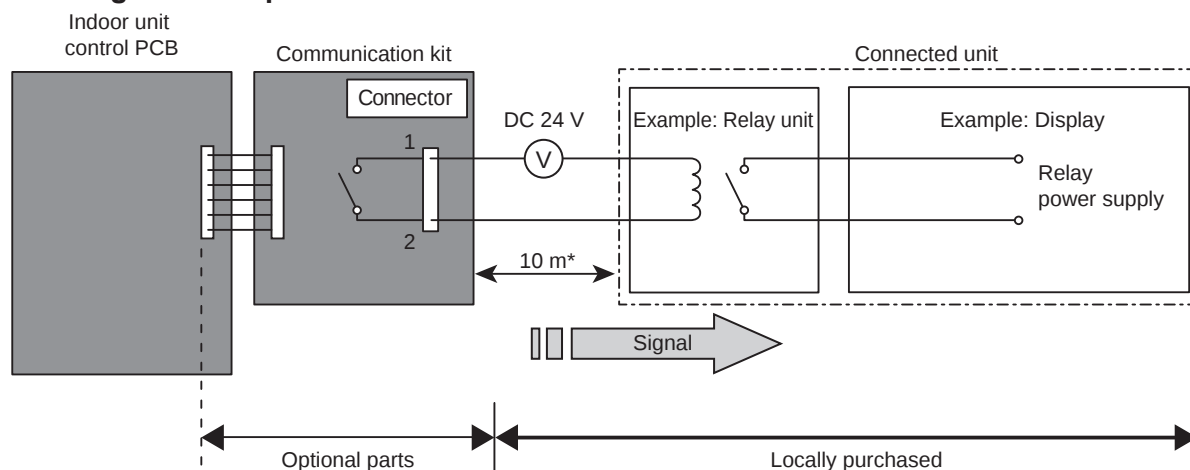
Part name	Model name	Exterior
External connect kit	UTY-XWZXZ5	External output wire 

* For operating the external function, the wall mounted type requires the communication kit in addition to the wire (UTY-XWZXZ5).

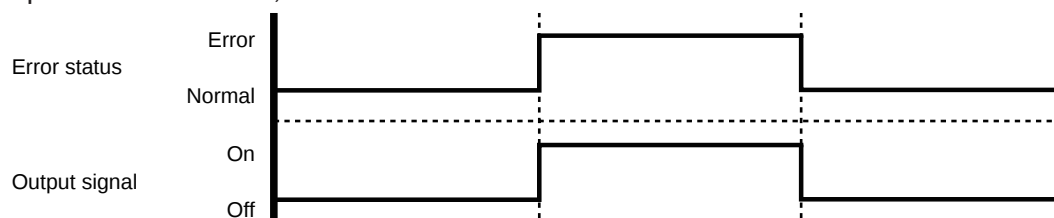
■ Error status output

Air conditioner error status signal can be output.

- **Circuit diagram example:**



- *: Make the distance from the PCB to the connected unit within 10 m.
- Relay spec: Max. DC 24 V, 10 mA to less than 500 mA.



- **Optional part:**

Part name	Model name	Exterior
External connect kit	UTY-XWZXZ5	External output wire

* For operating the external function, the wall mounted type requires the communication kit in addition to the wire (UTY-XWZXZ5).

9. Group connection

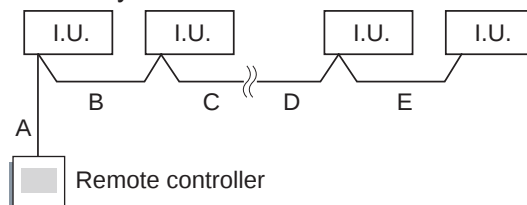
NOTE: Group control cannot be used together with Wireless LAN adapter.

Installation procedure for group control system:

A number of indoor units can be operated at the same time using a single remote controller.

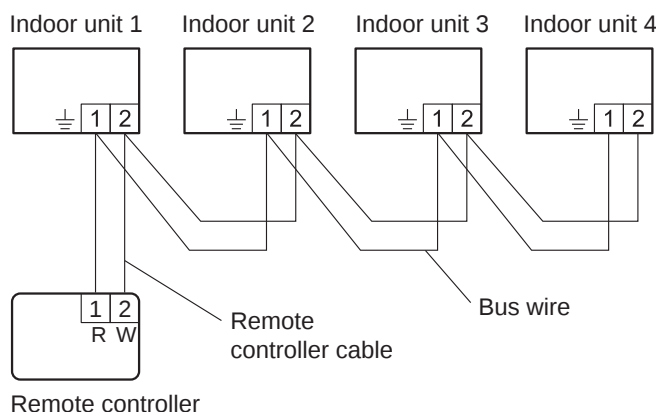
NOTE: When different type of indoor units (such as wall mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.

1. Connect up to 16 indoor units in a system.



A, B, C, D, E: Remote controller cable	
Wiring length limitation	$A + B + C + D + E \leq 500 \text{ m}$

Example of wiring method



2. Set the R.C. address. (Function setting)

- Addresses will be automatically set when initially starting up this unit. In such a case, do not change the remote controller address for the indoor unit, and keep it at the initial setting of "00".
- Only set addresses manually when using different numbers for addresses. Set the R.C. address of each indoor unit using the function setting. (Refer to "Remote controller address setting" in ["Contents of function setting"](#) on page 24.)

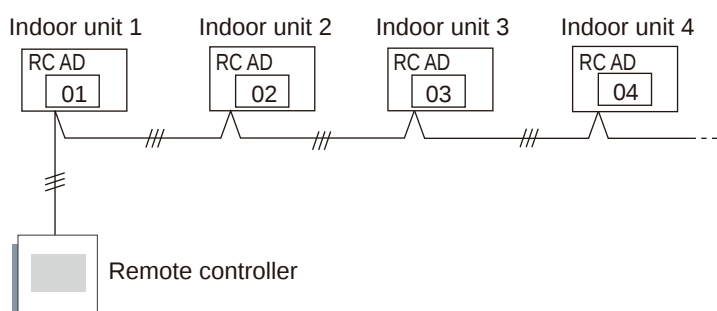
NOTES:

- Do not use the same setting value.
- Setting is reflected after the power is turned on again.

Also set the R.C. address for the remote controller. For details, refer to the remote controller installation manual.

NOTE: In manual setting, connect up to 15 indoor units in a system.

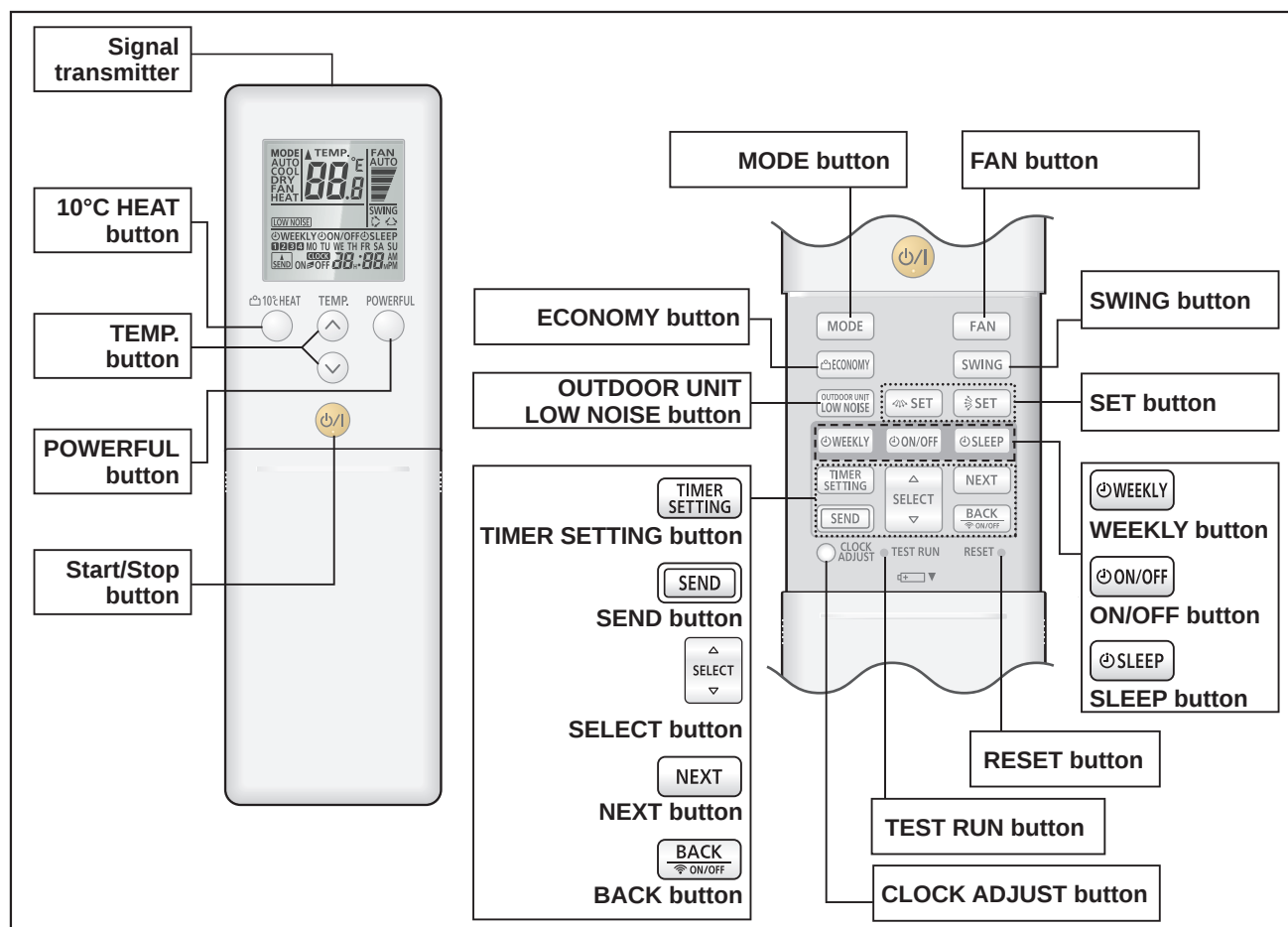
Example of wiring method



10. Remote controller

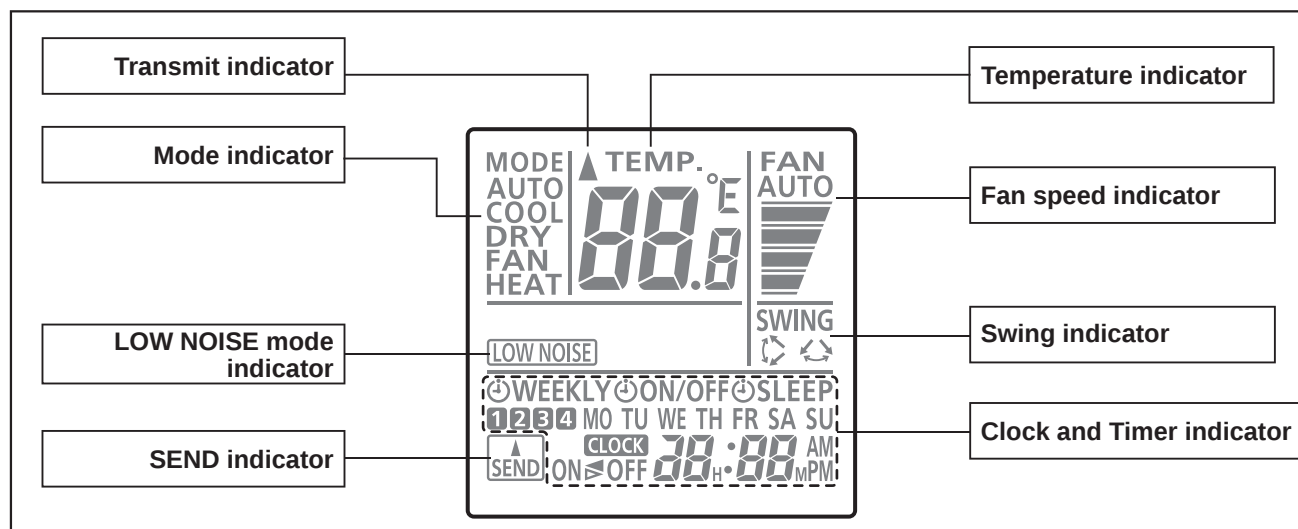
10-1. Wireless remote controller

Overview



NOTE: Functions may differ by type of the indoor unit. For details, refer to the operation manual.

Display panel

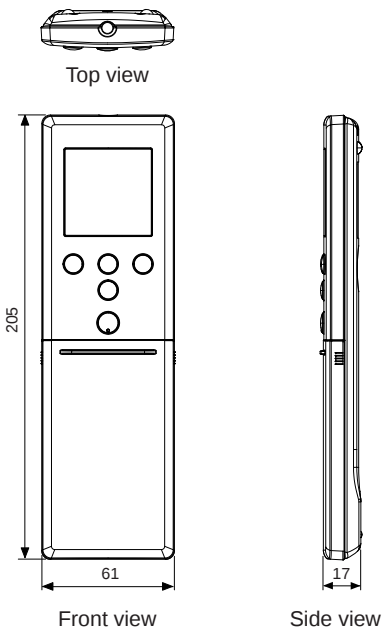


To facilitate explanation, the accompanying illustration has been drawn to show all possible indicators; in actual operation, however, the display will only show those indicators appropriate to the current operation.

■ Specifications

● Controller

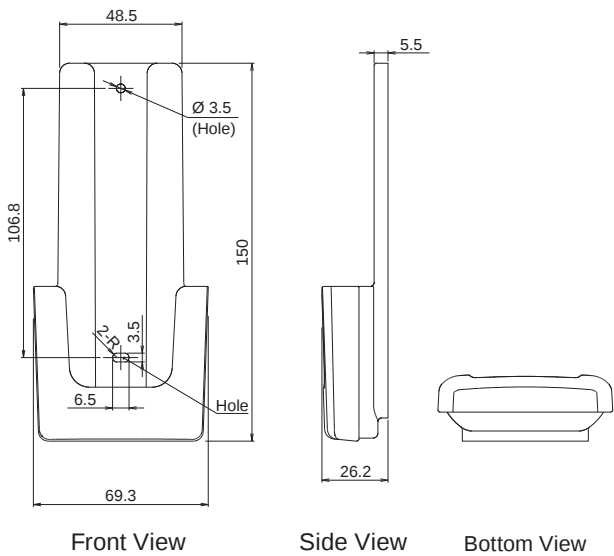
Unit: mm



Size (H × W × D)	mm	205 × 61 × 17
Weight	g	125 (without batteries)

● Holder

Unit: mm



Size (H × W × D)	mm	150 × 69.3 × 26.2
Weight	g	27

11. Function settings

To adjust the functions of this product according to the installation environment, various types of function settings are available.

NOTE: Incorrect settings can cause a product malfunction.

11-1. Function settings by using remote controller

Some function settings can be changed on the remote controller. After confirming the setting procedure and the content of each function setting, select appropriate functions for your installation environment.

■ Setting procedure by using wireless remote controller

The function number and the associated setting value are displayed on the LCD of the remote controller. Follow the instructions written in the local setup procedure supplied with the remote controller, and select appropriate setting according to the installation environment.

Before connecting the power supply of the indoor unit, reconfirm following items:

- Cover for the electrical enclosure on the outdoor unit is in place.
- There is no wiring mistake.
- Piping air tight test and vacuuming have been performed firmly.
- All the necessary wiring work for outdoor unit has been finished.

After reconfirming the items listed above, connect the power supply of the indoor unit.

NOTES:

- Settings will not be changed if invalid numbers or setting values are selected.
- When optional wired remote controller is used, refer to the installation manual enclosed with the remote controller.

Entering function setting mode:

While pressing the POWERFUL button and TEMP. (△) button simultaneously, press the RESET button to enter the function setting mode.

Selecting the function number and setting value:

1. Press the TEMP. (△) (▽) buttons to select the function number. To switch between the left and right digits, press the 10 °C HEAT button.
2. Press the POWERFUL button to proceed to value setting. To return the function number selection, press the POWERFUL button again.
3. Press the TEMP. (△) (▽) buttons to select the setting value. To switch between the left and right digits, press the 10 °C HEAT button.
4. Press the MODE button once. Confirm that you hear the beep sound.
5. Press the START/STOP button to fix the function setting. Confirm that you hear the beep sound.
6. Press the RESET button to end the function setting mode.
7. After completing the function setting, be sure to disconnect the power supply and then reconnect it.



⚠ CAUTION

After disconnecting the power supply, wait 30 seconds or more before reconnecting it. The function setting will not become active unless the power supply is disconnected and then reconnected.

NOTES:

- The air conditioner custom code is set to $\overline{H}$ prior to shipment.
- If you do not know the air conditioner custom code setting, try each of the custom codes ($\overline{H} \rightarrow \overline{b}$ $\rightarrow \overline{c} \rightarrow \overline{d}$) until you find the code that operates the air conditioner.

■ Contents of function setting

Each function setting listed in this section is adjustable in accordance with the installation environment.

NOTE: Setting will not be changed if invalid numbers or setting values are selected.

● Function setting list

	Function no.	Functions
1)	00	Remote controller address setting
2)	11	Filter sign
3)	30/31	Room temperature control for indoor unit sensor
4)	35/36	Room temperature control for wired remote controller sensor
5)	40	Auto restart
6)	42	Room temperature sensor switching
7)	44	Remote controller custom code
8)	46	External input control
9)	48	Room temperature sensor switching (Aux.)
10)	49	Indoor unit fan control for energy saving for cooling

1) Remote controller address setting

Multiple indoor units can be operated by using one wired remote controller.

Set the unit number of each indoor unit.

Function number	Setting value	Setting description	Factory setting
00	00	Unit no. 0	◆
	01	Unit no. 1	
	02	Unit no. 2	
	03	Unit no. 3	
	04	Unit no. 4	
	05	Unit no. 5	
	06	Unit no. 6	
	07	Unit no. 7	
	08	Unit no. 8	
	09	Unit no. 9	
	10	Unit no. 10	
	11	Unit no. 11	
	12	Unit no. 12	
	13	Unit no. 13	
	14	Unit no. 14	
	15	Unit no. 15	

NOTE: When different type of indoor units (such as wall mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.

2) Filter sign

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

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

Function number	Setting value	Setting description	Factory setting
11	00	Standard (400 hours)	
	01	Long interval (1,000 hours)	
	02	Short interval (200 hours)	
	03	No indication	◆

3) Room temperature control for indoor unit sensor

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

The temperature correction values show the difference from the Standard setting "00" (manufacturer's recommended value).

Function number		Setting value	Setting description	Factory setting
30 (For cooling)	31 (For heating)	00	Standard setting	◆
		01	No correction 0.0 °C	
		02	-0.5 °C	More cooling Less heating
		03	-1.0 °C	
		04	-1.5 °C	
		05	-2.0 °C	
		06	-2.5 °C	
		07	-3.0 °C	
		08	-3.5 °C	
		09	-4.0 °C	
		10	+0.5 °C	Less cooling More heating
		11	+1.0 °C	
		12	+1.5 °C	
		13	+2.0 °C	
		14	+2.5 °C	
		15	+3.0 °C	
		16	+3.5 °C	
		17	+4.0 °C	

4) Room temperature control for wired remote controller sensor

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

To change this setting, set Function 42 to Both "01".

Ensure that the Thermo Sensor icon is displayed on the remote controller screen.

Function number		Setting value	Setting description	Factory setting
35 (For cooling)	36 (For heating)	00	No correction	◆
		01	No correction 0.0°C	
		02	-0.5 °C	More cooling Less heating
		03	-1.0 °C	
		04	-1.5 °C	
		05	-2.0 °C	
		06	-2.5 °C	
		07	-3.0 °C	
		08	-3.5 °C	
		09	-4.0 °C	
		10	+0.5 °C	Less cooling More heating
		11	+1.0 °C	
		12	+1.5 °C	
		13	+2.0 °C	
		14	+2.5 °C	
		15	+3.0 °C	
		16	+3.5 °C	
		17	+4.0 °C	

5) Auto restart

Enables or disables automatic restart after a power interruption.

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

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

6) Room temperature sensor switching

(Only for wired remote controller)

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

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

00: Sensor on the indoor unit is active.

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

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

7) Remote controller custom code

(Only for wireless remote controller)

The indoor unit custom code can be changed. Select the appropriate custom code.

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

8) External input control

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

Function number	Setting value	Setting description	Factory setting
46	00	Operation/Stop mode 1	◆
	01	(Setting prohibited)	
	02	Forced stop mode	
	03	Operation/Stop mode 2	

9) Room temperature sensor switching (Aux.)

To use the temperature sensor on the wired remote controller only, change the setting to "Wired remote controller" (01).

This function will only work if the function setting 42 is set at "Both" (01).

When the setting value is set to "Both" (00), more suitable control of the room temperature is possible by setting function setting 30 and 31 too.

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

10) Indoor unit fan control for energy saving for cooling

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

Function number	Setting value	Setting description	Factory setting
49	00	Disable	
	01	Enable	
	02	Remote controller	◆

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

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

02: Enable or disable this function by remote controller setting.

NOTES:

- As the factory setting, this setting is initially activated.
- Set to "00" or "01" when connecting a remote controller that cannot set the Fan control for energy saving function or connecting a network converter.
To confirm if the remote controller has this setting, refer to the operating manual of each remote controller.

11-2. Custom code setting for wireless remote controller

To interconnect the air conditioner and the wireless remote controller, assignment of the custom code for the wireless remote controller is required.

NOTE: Air conditioner cannot receive a signal if the air conditioner has not been set for the custom code.

When 2 or more air conditioners are installed in a room, and the remote controller is operating an air conditioner other than the one you wish to set, change the custom code of the remote controller to operate only the air conditioner you wish to set. (4 selections possible.)

Confirm the setting of the remote controller custom code and the function setting. If these do not match, the remote controller cannot be used to operate for the air conditioner.

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 5 seconds to display the current custom code. (Initially set to $\overline{A}$.)
3. Press the TEMP. ($\wedge$) ($\vee$) buttons to change the custom code between $\overline{A} \rightarrow \overline{B} \rightarrow \overline{C} \rightarrow \overline{D}$. Match the code on the display to the air conditioner custom code. (Initially set to $\overline{A}$.)
4. Press the MODE button again to return to the clock display. The custom code will be changed.

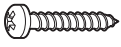
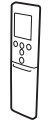
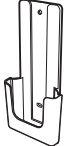
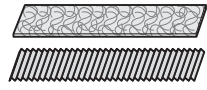
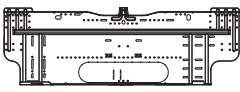


NOTES:

- If no button is pressed within 30 seconds after the custom code is displayed, the system returns to the original clock indicator. In this case, start again from step 1.
- The air conditioner custom code is set to $\overline{A}$ prior to shipment. To change the custom code, contact your retailer.
- If you do not know the assigned code for the air conditioner, try each of the custom code ($\overline{A} \rightarrow \overline{B} \rightarrow \overline{C} \rightarrow \overline{D}$) until you find the code which operates the air conditioner.

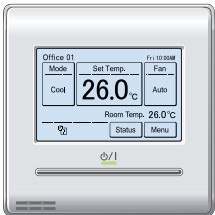
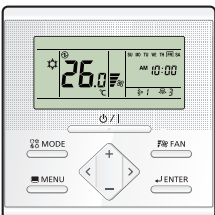
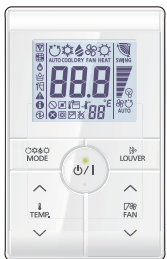
12. Accessories

12-1. Models: ASHG18KMTA and ASHG24KMTA

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Tapping screw (large)		5
Installation manual		1	Tapping screw (small)		2
Remote controller		1	Battery		2
Remote controller holder		1	Filter holder		2
Cloth tape		1	Air cleaning filters		1
Wall hook bracket		1			

13. Optional parts

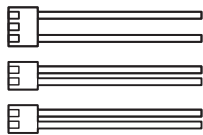
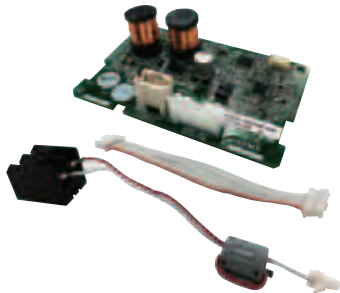
13-1. Controllers

Exterior	Part name	Model name	Summary
	Wired remote controller	UTY-RNRGZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire Optional communication kit is necessary for installation.
	Wired remote controller	UTY-RLRG	High visibility and easy operation. Room temperature can be accurately controlled using the built-in thermo sensor. Wire type: Non-polar 2-wire Optional communication kit is necessary for installation.
	Simple remote controller	UTY-RSRG	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Non-polar 2-wire Optional communication kit is necessary for installation.
	Simple remote controller	UTY-RHRG	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting. Wire type: Non-polar 2-wire Optional communication kit is necessary for installation.

NOTES:

- Available functions may differ by the remote controller. For details, refer to the operation manual.
- In this product, group controlling system of the wired remote controller is prohibited.

13-2. Others

Exterior	Part name	Model name	Summary
	External connect kit	UTY-XWZXZ5	Required when external device is connected. Optional communication kit is necessary for installation.
	External input and output PCB	UTY-XCSXZ2	Use to connect with external devices and air conditioner PCB.
	Communication kit	UTY-TWRXZ2	Use to connect Non-polar 2-core wired remote controller.
	Wireless LAN adapter	UTY-TFSXF2	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets.

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOHG18KMTA

AOHG24KMTA

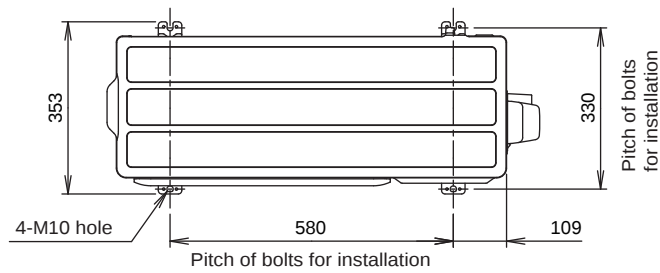
1. Specifications

Type				Inverter heat pump			
Model name				AOHG18KMTA	AOHG24KMTA		
Power supply				230 V ~ 50 Hz			
Power supply intake				Outdoor unit			
Available voltage range				198—264 V			
Starting current			A	7.0	8.6		
Fan	Airflow rate	Cooling	m³/h	2,350	3,240		
		Heating		2,100	2,820		
	Type × Q'ty		Propeller fan × 1				
	Motor output		W	49			
Sound pressure level *1		Cooling	dB (A)	50	54		
		Heating		50	52		
Sound power level		Cooling	dB (A)	65	67		
		Heating		65	66		
Heat exchanger type		Dimensions (H × W × D)	mm	588 × 881 × 18.19	672 × 881 × 18.19		
				588 × 851 × 18.19	672 × 851 × 18.19		
		Fin pitch		1.3			
		Rows × Stages			1 × 28	1 × 32	
		Pipe type			Copper tube		
		Fin type	Type (Material)	Aluminum			
Surface treatment	PC fin						
Compressor	Type	DC twin rotary					
	Motor output	W	900	1,060			
Refrigerant		Type (Global warming potential)	R32 (675)				
		Charge	g	1,020	1,320		
Refrigerant oil		Type	FW68S		RmM68AF		
		Amount	cm³	350	400		
Enclosure		Material	Steel sheet				
		Color	Beige				
			Approximate color of Munsell 10YR 7.5/1.0				
Dimensions (H × W × D)	Net	mm	632 × 799 × 290	716 × 820 × 315			
	Gross		692 × 940 × 375	776 × 961 × 450			
Weight	Net	kg	36	42			
	Gross		40	46			
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø 1/4)			
		Gas		Ø 12.70 (Ø 1/2)			
	Method		Flare				
	Pre-charge length		m	15			
	Max. length			25	30		
	Max. height difference			20	25		
Operation range		Cooling	°C	-10 to 46			
		Heating		-15 to 24			
Drain hose		Material	PP				
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (O. D.)			
NOTES:							
- Specifications are based on the following conditions: - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB. - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB. - Pipe length: 5 m, Height difference: 0 m. - Protective function might work when using it outside the operation range. *1: Sound pressure level - Measured values in manufacturer's anechoic chamber. - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.							

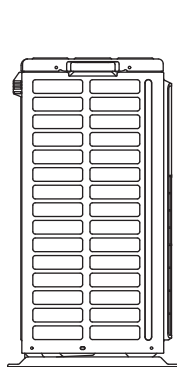
2. Dimensions

2-1. Model: AOHG18KMTA

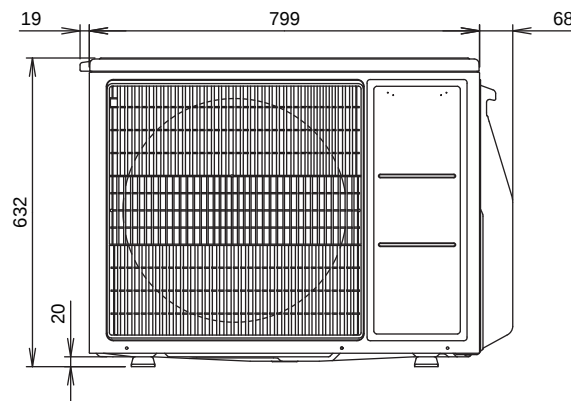
Unit: mm



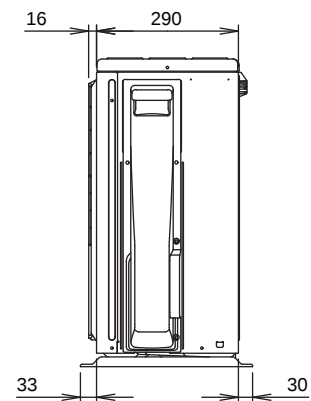
Top view



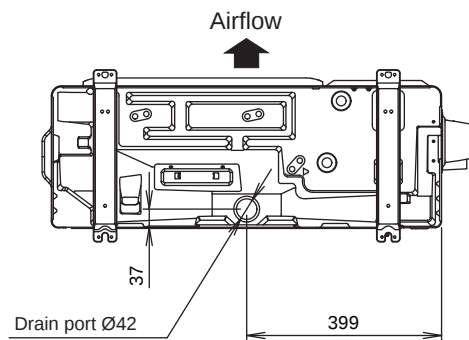
Side view



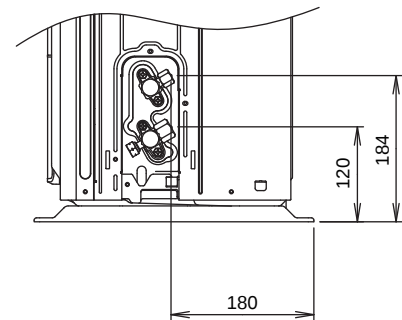
Front view



Side view



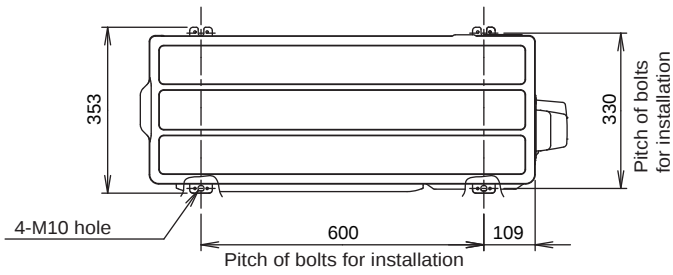
Bottom view



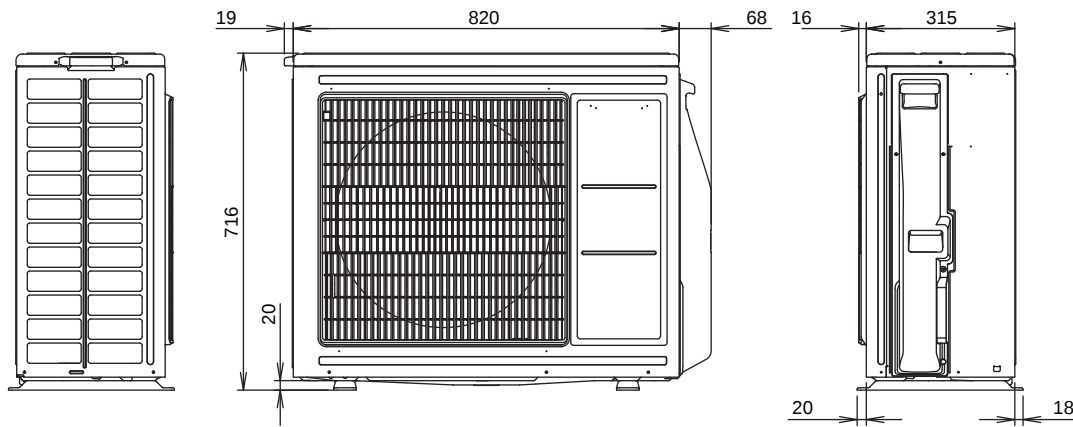
Side view (Valve part)

2-2. Model: AOHG24KMTA

Unit: mm

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AOHG18, 24KMTAOUTDOOR UNIT
AOHG18, 24KMTA

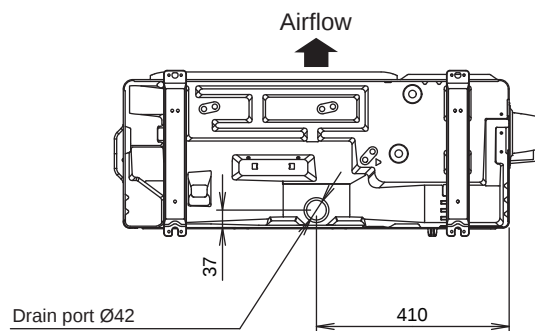
Top view



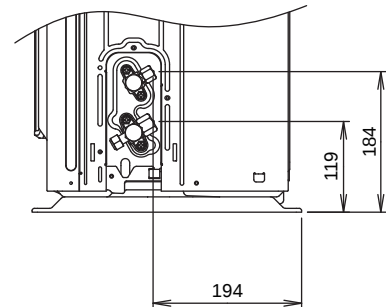
Side view

Front view

Side view



Bottom view



Side view (Valve part)

3. Installation space

3-1. Models: AOHG18KMTA and AOHG24KMTA

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

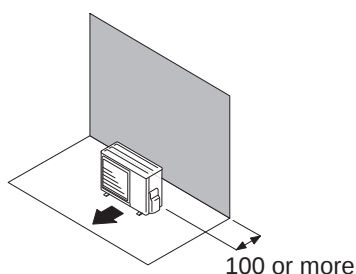
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

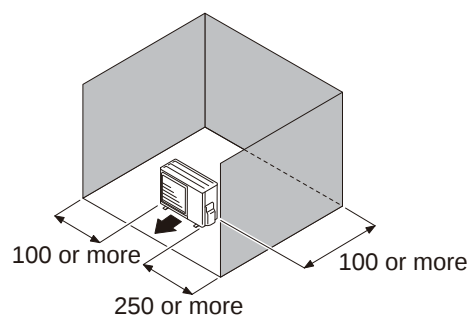
- When the upper space is open:

Unit: mm

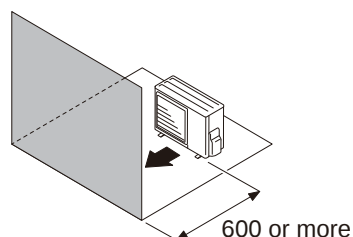
Obstacles at rear only



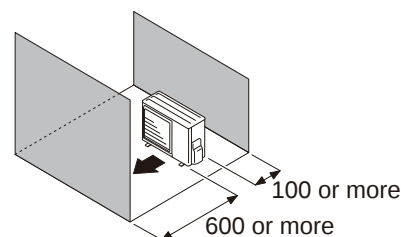
Obstacles at rear and sides



Obstacles at front



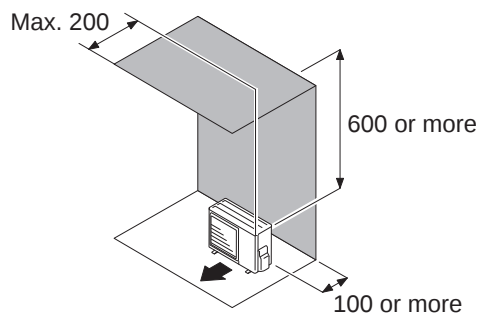
Obstacles at front and rear



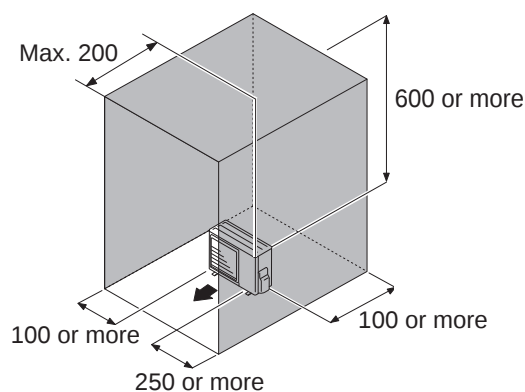
- When there is an obstruction in the upper space:

Unit: mm

Obstacles at rear and above



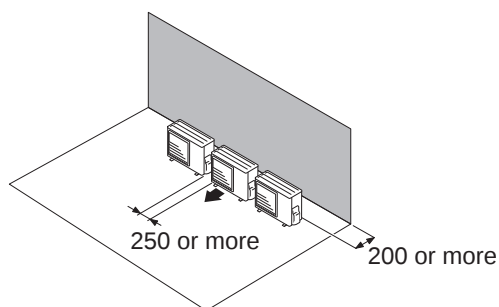
Obstacles at rear, sides, and above



OUTDOOR UNIT
AOHG18, 24KMTA

- **When the upper space is open:**

Obstacles at rear only



- Unit: mm

Max. 300

250 or more

1,500 or more

250 or more

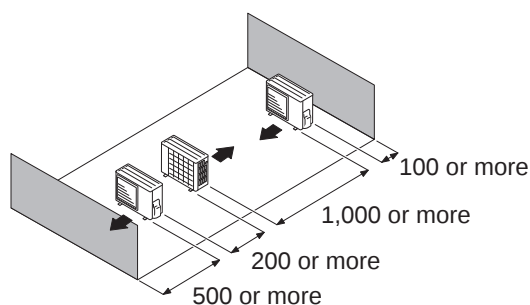
200 or more

1,500 or more

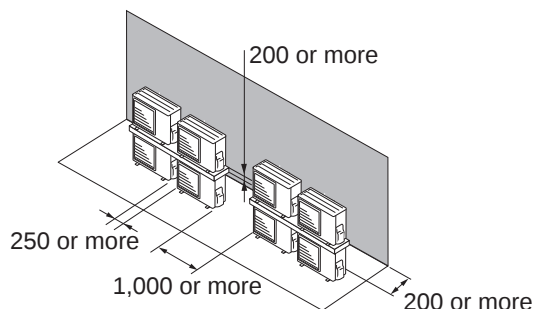
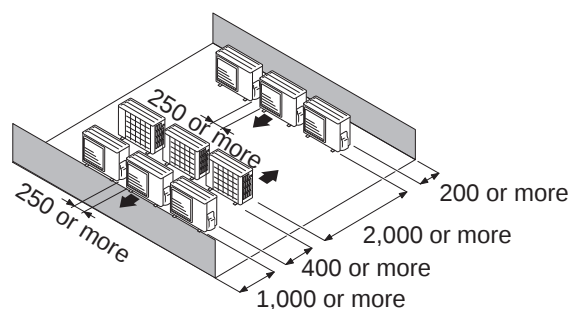
● Outdoor units installation in multi-row

Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement

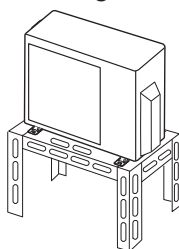


NOTES:

- If the space is larger than stated above, the condition will be the same as when there is no obstacle.
- When installing the outdoor unit, be sure to open the front and left side to obtain better operation efficiency.

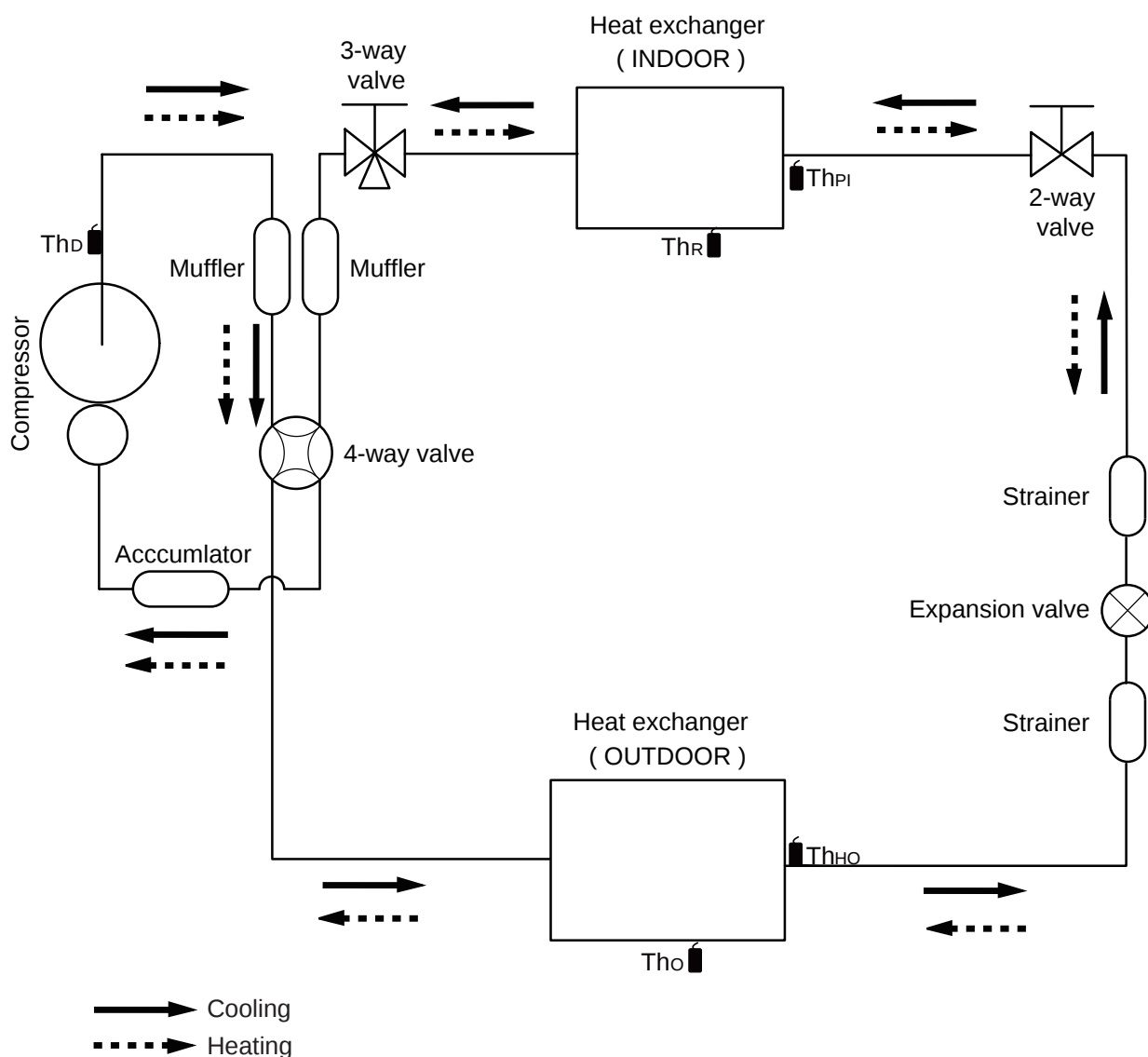
⚠ CAUTION

- Do not install the outdoor unit in two-stage where the drain water could freeze. Otherwise the drainage from the upper unit may form ice and cause a malfunction of the lower unit.
- When the outdoor temperature is 0 °C or less, do not use the accessory drain pipe and drain cap. If the drain pipe and drain cap are used, the drain water in the pipe may freeze in extremely cold climate. (For reverse cycle model only.)
- In area with heavy snowfall, if the inlet and outlet of the outdoor unit is blocked with snow, it might become difficult to get warm, and it is likely to cause product malfunction. Construct a canopy and a pedestal, or place the unit on a high stand that is locally installed.



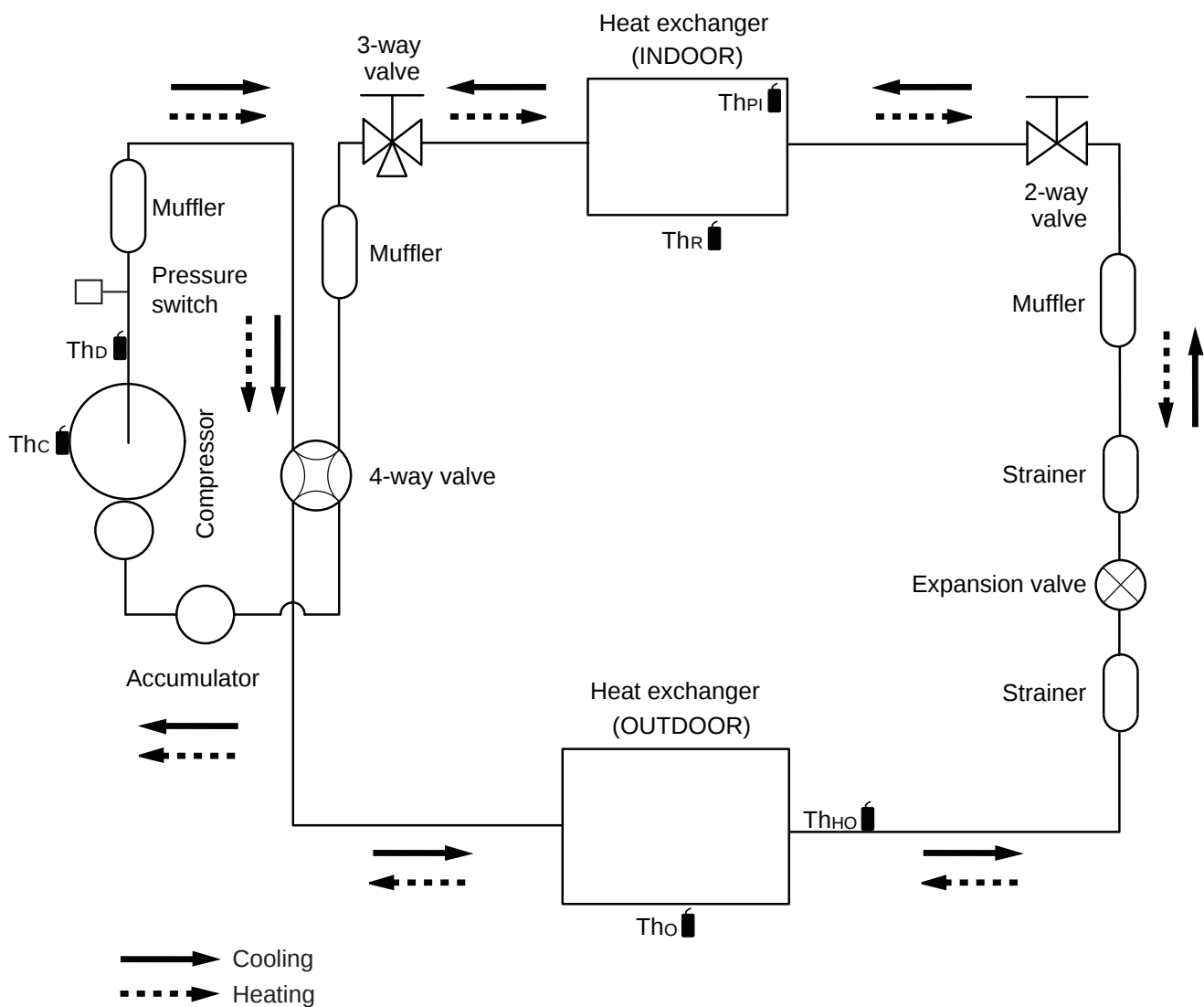
4. Refrigerant circuit

4-1. Model: AOHG18KMTA



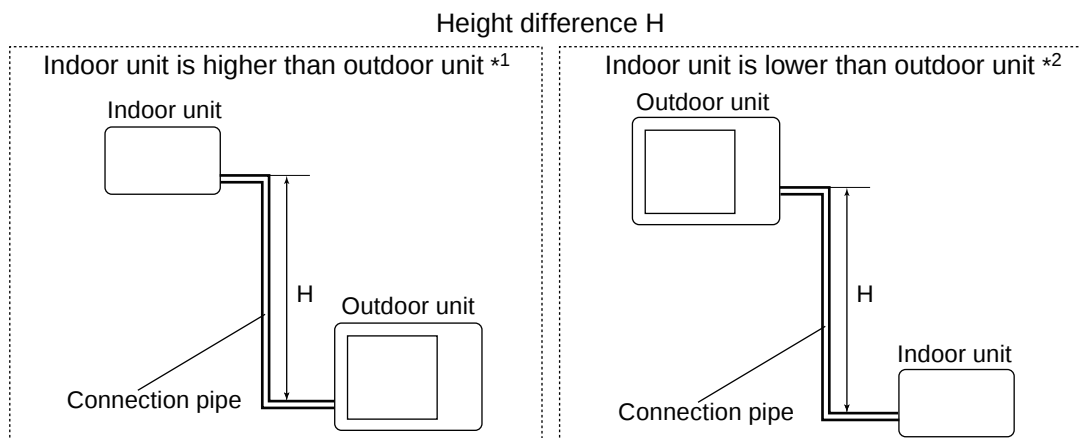
- Th_D : Thermistor (Discharge temperature)
 Th_O : Thermistor (Outdoor temperature)
 Th_{HO} : Thermistor (Heat exchanger out temperature)
 Th_R : Thermistor (Room temperature)
 Th_{PI} : Thermistor (Pipe temperature)

4-2. Model: AOHG24KMTA



- Th_C : Thermistor (Compressor temperature)
 Th_D : Thermistor (Discharge temperature)
 Th_O : Thermistor (Outdoor temperature)
 Th_{HO} : Thermistor (Heat exchanger out temperature)
 Th_R : Thermistor (Room temperature)
 Th_{PI} : Thermistor (Pipe temperature)

6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOHG18KMTA

NOTE: Values mentioned in the table are calculated based on the maximum capacity.

COOLING			Pipe length (m)					
			5	7.5	10	15	20	25
Height difference H (m)	Indoor unit is higher than outdoor unit *1	20	—	—	—	—	0.917	0.900
		10	—	—	0.966	0.947	0.932	0.914
		7.5	—	0.979	0.970	0.951	0.936	0.918
		5	0.992	0.983	0.974	0.955	0.939	0.922
		0	1.000	0.991	0.981	0.963	0.946	0.930
	Indoor unit is lower than outdoor unit *2	-5	1.000	0.991	0.981	0.963	0.946	0.930
		-7.5	—	0.991	0.981	0.963	0.946	0.930
		-10	—	—	0.981	0.963	0.946	0.930
		-20	—	—	—	—	0.946	0.930

HEATING			Pipe length (m)					
			5	7.5	10	15	20	25
Height difference H (m)	Indoor unit is higher than outdoor unit *1	20	—	—	—	—	0.887	0.871
		10	—	—	0.952	0.903	0.887	0.871
		7.5	—	0.976	0.952	0.903	0.887	0.871
		5	1.000	0.976	0.952	0.903	0.887	0.871
		0	1.000	0.976	0.952	0.903	0.887	0.871
	Indoor unit is lower than outdoor unit *2	-5	0.995	0.971	0.947	0.899	0.883	0.866
		-7.5	—	0.969	0.945	0.897	0.881	0.865
		-10	—	—	0.942	0.894	0.879	0.863
		-20	—	—	—	—	0.869	0.854

6-2. Model: AOHG24KMTA

NOTE: Values mentioned in the table are calculated based on the maximum capacity.

COOLING			Pipe length (m)						
			5	7.5	10	15	20	25	30
Height difference H (m)	Indoor unit is higher than outdoor unit *1	25	—	—	—	—	—	0.893	0.877
		20	—	—	—	—	0.917	0.900	0.885
		10	—	—	0.966	0.947	0.932	0.914	0.899
		7.5	—	0.979	0.970	0.951	0.936	0.918	0.903
		5	0.992	0.983	0.974	0.955	0.939	0.922	0.906
		0	1.000	0.991	0.981	0.963	0.946	0.930	0.914
	Indoor unit is lower than outdoor unit *2	-5	1.000	0.991	0.981	0.963	0.946	0.930	0.914
		-7.5	—	0.991	0.981	0.963	0.946	0.930	0.914
		-10	—	—	0.981	0.963	0.946	0.930	0.914
		-20	—	—	—	—	0.946	0.930	0.914
		-25	—	—	—	—	—	0.930	0.914

HEATING			Pipe length (m)						
			5	7.5	10	15	20	25	30
Height difference H (m)	Indoor unit is higher than outdoor unit *1	25	—	—	—	—	—	0.871	0.855
		20	—	—	—	—	0.887	0.871	0.855
		10	—	—	0.952	0.903	0.887	0.871	0.855
		7.5	—	0.976	0.952	0.903	0.887	0.871	0.855
		5	1.000	0.976	0.952	0.903	0.887	0.871	0.855
		0	1.000	0.976	0.952	0.903	0.887	0.871	0.855
	Indoor unit is lower than outdoor unit *2	-5	0.995	0.971	0.947	0.899	0.883	0.866	0.850
		-7.5	—	0.969	0.945	0.897	0.881	0.865	0.849
		-10	—	—	0.942	0.894	0.879	0.863	0.847
		-20	—	—	—	—	0.869	0.854	0.838
		-25	—	—	—	—	—	0.850	0.834

OUTDOOR UNIT
AOHG18, 24KMTA

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AOHG18, 24KMTA

7. Additional charge calculation

7-1. Model: AOHG18KMTA

Refrigerant type		R32
Refrigerant amount	g	1,020

■ Refrigerant charge

Total pipe length	m	15 or less	20	25 (Max.)	20 g/m
Additional charge	g	0	100	200	

7-2. Model: AOHG24KMTA

Refrigerant type		R32
Refrigerant amount	g	1,320

■ Refrigerant charge

Total pipe length	m	15 or less	20	25	30 (Max.)	20 g/m
Additional charge	g	0	100	200	300	

8. Airflow

8-1. Model: AOHG18KMTA

● Cooling

m ³ /h	2,350
l/s	653
CFM	1,383

● Heating

m ³ /h	2,100
l/s	583
CFM	1,236

8-2. Model: AOHG24KMTA

● Cooling

m ³ /h	3,240
l/s	900
CFM	1,907

● Heating

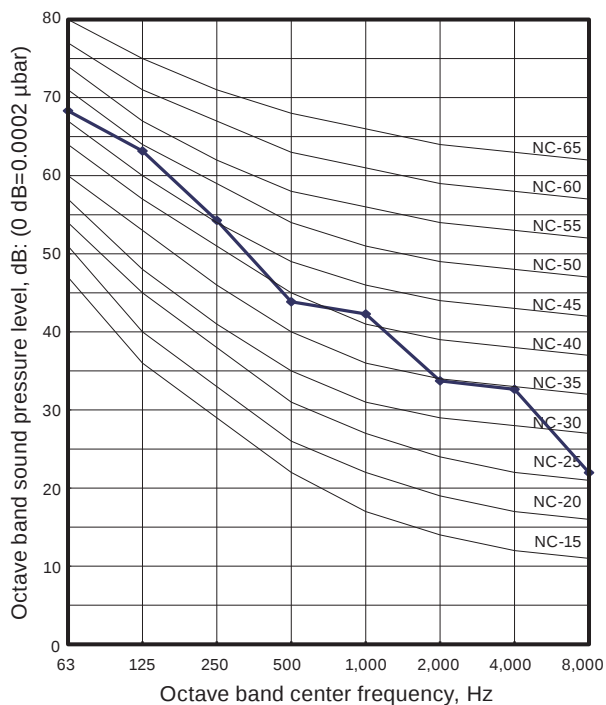
m ³ /h	2,820
l/s	783
CFM	1,660

9. Operation noise (sound pressure)

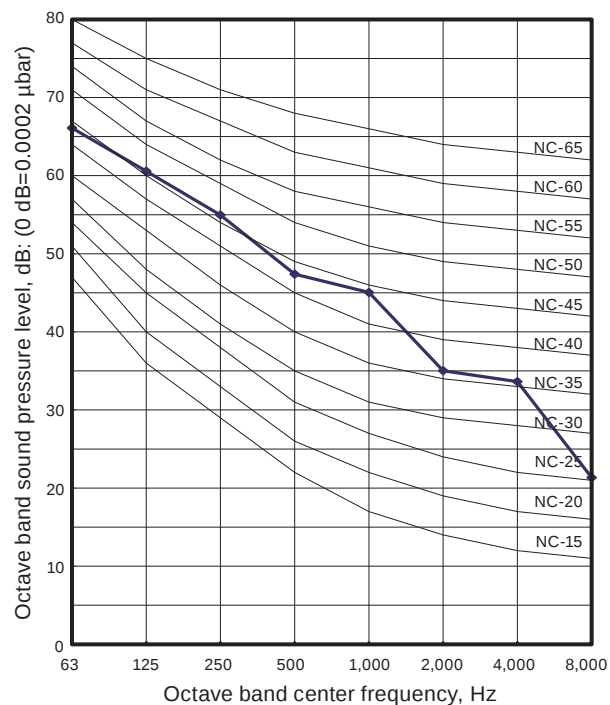
9-1. Noise level curve

Model: AOHG18KMTA

● Cooling

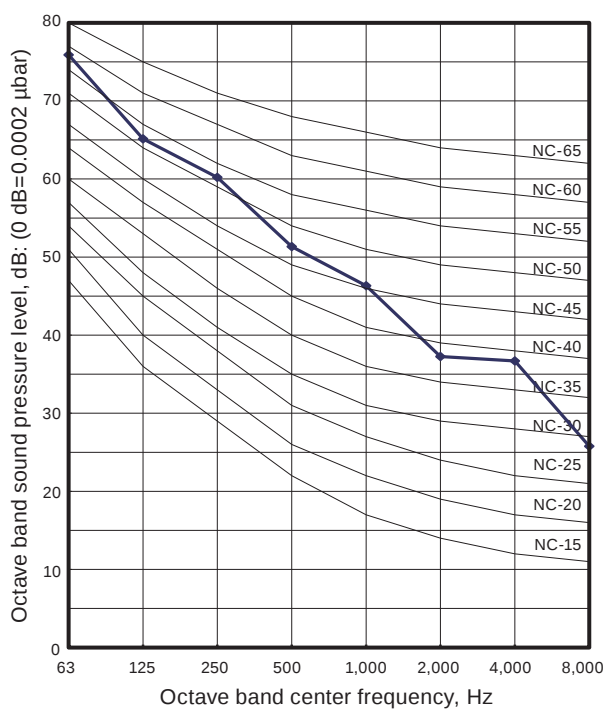


● Heating

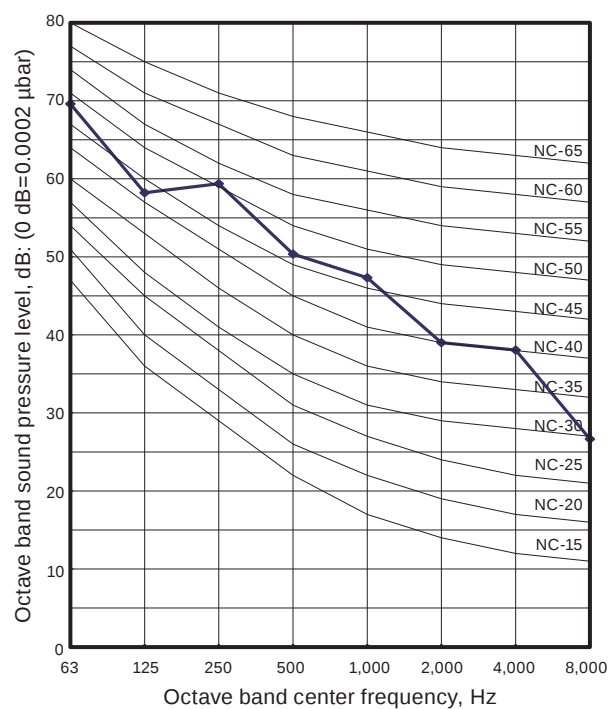


Model: AOHG24KMTA

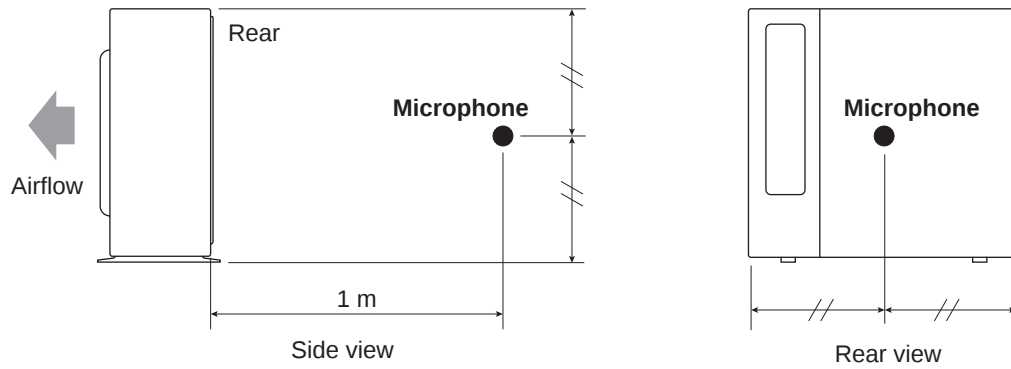
● Cooling



● Heating



9-2. Sound level check point



NOTE: Detailed shape of the actual outdoor unit might be slightly different from the one illustrated above.

10. Electrical characteristics

Model name			AOHG18KMTA		AOHG24KMTA	
Power supply	Voltage		V	230 ~		
	Frequency		Hz	50		
Max operating current *1			A	13.5	16.0	
Starting current			A	7.0	8.6	
Wiring spec. *2	Circuit breaker current		A	16	20	
	Power cable		mm ²	2.5		
	Connection cable *3	Cross-sectional area	mm ²	1.5—2.5		
		Limited wiring length		m	26	31

*1: Maximum operating current is the total current of the indoor unit and the outdoor unit.

*2: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005. As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.

*3: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.

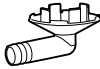
11. Safety devices

Type of protection	Protection form		Model	
			AOHG18KMTA	AOHG24KMTA
Circuit protection	Current fuse (PCB*)		250 V, 25 A	
			250 V 5 A	
			250 V, 3.15 A	
Fan motor protection	Thermal protection program	Activate	100±15°C Fan motor stop	
		Reset	95±10°C Fan motor restart	
Compressor protection	Thermal protection program (Discharge temp.)	Activate	110°C Compressor stop	
		Reset	After 7 minutes Compressor restart	
	Thermal protection program (Outdoor temp.) (Only in COOL or DRY mode)	Activate	-20 °C Compressor stop	-15 °C Compressor stop
		Reset	-15 °C Compressor restart	-10 °C Compressor restart

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AOHG18, 24KMTA

12. Accessories

12-1. Models: AOHG18KMTA and AOHG24KMTA

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Installation manual		1	Drain pipe		1

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