

AIRSTAGE

AIR CONDITIONER

Wall-mounted type

FUJITSU

REFRIGERANT **R32**
INVERTER

DESIGN & TECHNICAL MANUAL

INDOOR



ASEH07KJCAL
ASEH09KJCAL
ASEH12KJCAL
ASEH14KJCAL

ASEH07KJCALB
ASEH09KJCALB
ASEH12KJCALB
ASEH14KJCALB

OUTDOOR



AOEH07KJCA
AOEH09KJCA
AOEH12KJCA
AOEH14KJCA

FUJITSU GENERAL LIMITED

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CONTENTS

Part 1. INDOOR UNIT	1
1. Specifications	2
2. Wireless LAN control	4
2-1. System requirement	4
3. Dimensions	5
3-1. Models: ASEH07KJCAL, ASEH09KJCAL, ASEH12KJCAL, ASEH14KJCAL, ASEH07KJCALB, ASEH09KJCALB, ASEH12KJCALB, and ASEH14KJCALB	5
3-2. Pipe exit length from the rear	7
4. Wiring diagrams	8
4-1. Models: ASEH07KJCAL, ASEH09KJCAL, ASEH12KJCAL, ASEH14KJCAL, ASEH07KJCALB, ASEH09KJCALB, ASEH12KJCALB, and ASEH14KJCALB	8
5. Capacity table	9
5-1. Cooling capacity	9
5-2. Heating capacity	11
6. Fan performance	13
6-1. Air velocity distributions	13
6-2. Airflow	17
7. Operation noise	21
7-1. Noise level curve (sound pressure)	21
7-2. Sound level check point	23
8. Safety devices	24
9. External input and output	25
9-1. External input	26
9-2. External output	29
9-3. Setting of external input and output	31
9-4. Details of control input function	32
9-5. Details of control output function	36
10. Group connection	38
11. Remote controller	39
11-1. Wireless remote controller	39
12. Function settings	41
12-1. Function settings by using remote controller	41
12-2. Custom code setting for wireless remote controller	47
13. Accessories	48
13-1. Models: ASEH07KJCAL, ASEH09KJCAL, ASEH12KJCAL, ASEH14KJCAL, ASEH07KJCALB, ASEH09KJCALB, ASEH12KJCALB, and ASEH14KJCALB	48
14. Optional parts	49
14-1. Controllers	49
14-2. Others	50

CONTENTS (continued)

Part 2. OUTDOOR UNIT51

1. Specifications	52
2. Dimensions	53
2-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA	53
3. Installation space	54
3-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA	54
4. Refrigerant circuit	57
4-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA	57
5. Wiring diagrams	58
5-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA	58
6. Capacity compensation rate for pipe length and height difference.....	59
6-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA	59
7. Additional charge calculation	60
7-1. Models: AOEH07KJCA and AOEH09KJCA	60
7-2. Models: AOEH12KJCA and AOEH14KJCA	60
8. Airflow	61
8-1. Model: AOEH07KJCA	61
8-2. Model: AOEH09KJCA	61
8-3. Model: AOEH12KJCA	61
8-4. Model: AOEH14KJCA	62
9. Operation noise	63
9-1. Noise level curve (sound pressure)	63
9-2. Sound level check point.....	65
10. Electrical characteristics	66
11. Safety devices	67
12. Accessories	68
12-1.Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA	68

Part 1. INDOOR UNIT

WALL-MOUNTED TYPE:

ASEH07KJCAL

ASEH09KJCAL

ASEH12KJCAL

ASEH14KJCAL

ASEH07KJCALB

ASEH09KJCALB

ASEH12KJCALB

ASEH14KJCALB

1. Specifications

Type				Wall mounted					
				Inverter, Heat pump					
Model name				ASEH07KJCAL ASEH07KJCALB	ASEH09KJCAL ASEH09KJCALB	ASEH12KJCAL ASEH12KJCALB	ASEH14KJCAL ASEH14KJCALB		
Power supply intake				Outdoor unit					
System power supply		Voltage		V		230			
		Frequency		Hz		50			
		Available voltage range		V		198—264 V			
Indoor unit power supply (from outdoor unit)				V		230			
Capacity	Cooling	Rated	kW	2.0	2.5	3.4	4.2		
			Btu/h	6,800	8,500	11,600	14,300		
		Min.—Max.	kW	0.9—3.0	0.9—3.2	0.9—3.9	0.9—4.3		
			Btu/h	3,100—10,200	3,100—11,000	3,100—13,300	3,100—14,700		
	Heating	Rated	kW	2.5	2.8	4.0	5.2		
			Btu/h	8,500	9,500	13,600	17,700		
		Min.—Max.	kW	0.9—3.6	0.9—4.5	0.9—5.4	0.9—5.9		
			Btu/h	3,100—12,200	3,100—15,300	3,100—18,400	3,100—20,100		
Input power	Cooling	Rated	kW	0.40	0.55	0.87	1.26		
				Min.—Max.	0.25—0.76	0.25—0.86	0.25—1.22	0.25—1.43	
	Heating	Rated		0.50	0.60	0.95	1.40		
				Min.—Max.	0.25—1.04	0.25—1.41	0.25—1.64	0.25—1.80	
	Fan	HIGH	W	18.0	21.0	26.0	34.0		
		MED-HIGH		15.0	16.0	20.0	24.0		
		MED		13.0	16.0	17.0			
		MED-LOW		11.0	12.0				
		LOW		9.0	10.0				
		QUIET		8.0					
	Current	Cooling	Rated	A	2.4	3.0	4.0	5.8	
Heating		2.9			3.4	4.6	6.6		
Energy efficiency class	Cooling		A+++				A++		
	Heating (Average)		A+++				A++		
Pdesign	Cooling	kW	2.0	2.5	3.4	4.2			
	Heating (Average)		2.3	2.4	2.5	4.0			
SEER	Cooling	kWh/kWh	9.6	9.2	8.7	7.9			
SCOP	Heating (Average)		5.1			4.6			
Annual energy consumption	QCE	kWh/a	73	95	137	186			
	QHE (Average)		631	658	685	1,216			
EER	Cooling	kW/kW	5.00	4.55	3.91	3.33			
COP	Heating		5.00	4.67	4.21	3.71			
Sensible capacity	Cooling	kW	1.92	2.22	2.70	3.20			
Power factor	Cooling	%	72.0	80.0	95.0	94.0			
	Heating		75.0	77.0	90.0	92.0			
Moisture removal			L/h (pints/h)	1.0 (1.8)		1.5 (2.6)	1.6 (2.8)		
Maximum operating current*1		Cooling	A	6.5			7.0		
		Heating		9.0					
Fan	Airflow rate	Cooling	HIGH	m³/h	540	580	630	720	
			MED-HIGH		480	500	550	600	
			MED		430		470	490	
			MED-LOW		380		400		
			LOW		330		320		
			QUIET		260		250		
		Heating	HIGH		580		630	720	
			MED-HIGH		500		550	600	
			MED		430		470	490	
			MED-LOW		380		400		
			LOW		330		320		
			QUIET		270		250		
			Type × Qty		Crossflow fan × 1				
			Motor output		W	27			
	Sound pressure level*2	Cooling	dB (A)	HIGH	36	38	41	45	
				MED-HIGH	34		38	40	
MED				31		34	35		
MED-LOW				28			30		
LOW				24			25		
QUIET				19			20		
Heating		HIGH		38		41	44		
		MED-HIGH		34		38	39		
		MED		31		34	35		
		MED-LOW		28			30		
		LOW		24			25		
		QUIET		20			21		
Sound power level	Cooling	HIGH	dB (A)	51	52	56	59		
	Heating			52		56	59		
Heat exchanger	Dimensions (H × W × D)		mm	Main 1: 210 × 618 × 26.6 Main 2: 112 × 618 × 20		Main 1: 210 × 618 × 26.6 Main 2: 112 × 618 × 20 Sub 1: 84 × 618 × 13.3 Sub 2: 84 × 618 × 13.3			
	Fin pitch			Main 1: 1.2 Main 2: 1.1		Main 1: 1.2 Main 2: 1.1 Sub 1: 1.4 Sub 2: 1.4			
	Rows × Stages			Main 1: 2 × 10 Main 2: 2 × 7		Main 1: 2 × 10 Main 2: 2 × 7 Sub 1: 1 × 4 Sub 2: 1 × 4			
	Pipe type			Copper tube					
	Fin type			Aluminum					

Type				Wall mounted				
				Inverter, Heat pump				
Model name				ASEH07KJCAL ASEH07KJCALB	ASEH09KJCAL ASEH09KJCALB	ASEH12KJCAL ASEH12KJCALB	ASEH14KJCAL ASEH14KJCALB	
Enclosure	Material			Polystyrene				
	Color			KJCAL: White				
				Approximate color of Munsell 9PB 9.1/0.2				
Dimensions (H × W × D)	Net			KJCALB: Soft black				
	Gross			Approximate color of Munsell N3/				
Weight	Net			270 × 798 × 240				
	Gross			308 × 849 × 345				
Connection pipe	Size		Liquid	mm (in)	10.0			10.5
			Gas		14.0			15.0
Drain hose	Method			Ø6.35 (Ø1/4)				
	Material			Ø9.52 (Ø3/8)				
Operation range	Tip diameter			Flare				
	Cooling			Polypropylene + High-density polyethylene				
	Heating			Ø13.8 (I.D.), Ø15.0 to Ø16.8 (O.D.)				
Remote controller type				18 to 32				
				80 or less				
				16 to 30				
				Wireless (Option: Wired, Mobile app*3 [AIRSTAGE Mobile])				

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/—°CWB, and outdoor temperature of 7°CDB/6°CWB.
 - Pipe length: 5.0 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®.
- This data is based on EN 14511 standard.

2. Wireless LAN control

By installing mobile app on a smart device, several functions can be controlled from outside the house.

2-1. System requirement

Before using this function, prepare the following items:

- **Wireless router:**

Wireless LAN standard	IEEE802.11b/g/n
Frequency bands*	• U.S.A., Canada: 2.4 GHz (1ch—11ch) • Other countries: 2.4 GHz (1ch—13ch)
Network security standard	• Open • WEP • WPA (PSK) • WPA2 Personal (PSK) • WPS for same-LAN registration

*: Usable only in the country or region where you purchased the product.

To check whether your wireless router complies with the network security standards listed above, refer to the operation manual.

- **Smartphone:**

App-compliant operating system	iOS	Check the latest version of supported OS at Google Play store or App Store.
	Android™	

- **AIRSTAGE Mobile (mobile application):**

Mobile app is available on Google Play store or on App Store.

After installation of mobile app, user registration is required. For user registration and setup information, refer to Setting Manual attached with the product.

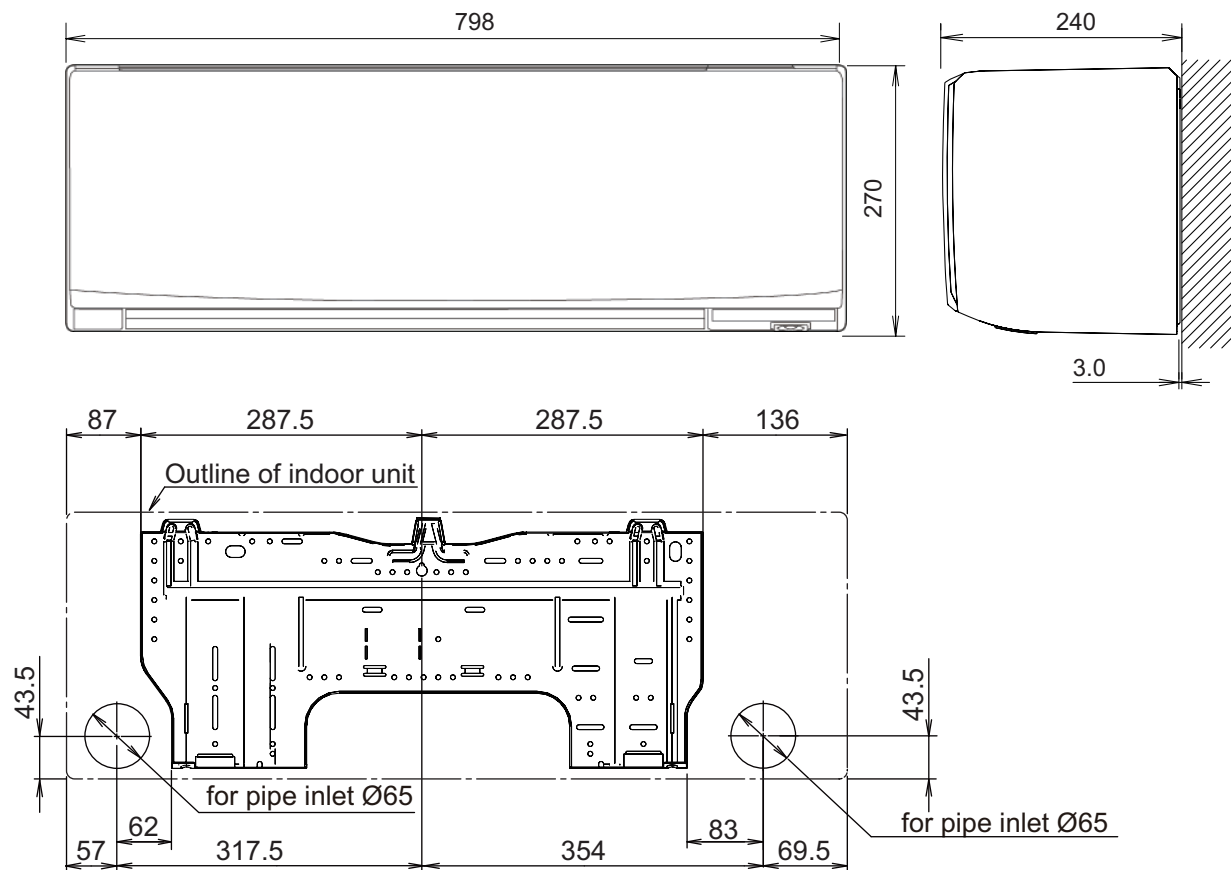
For the latest version of the wireless LAN control manuals, refer to the following web site.

<https://www.fujitsu-general.com/global/support/>

3. Dimensions

3-1. Models: ASEH07KJCAL, ASEH09KJCAL, ASEH12KJCAL, ASEH14KJCAL, ASEH07KJCALB, ASEH09KJCALB, ASEH12KJCALB, and ASEH14KJCALB

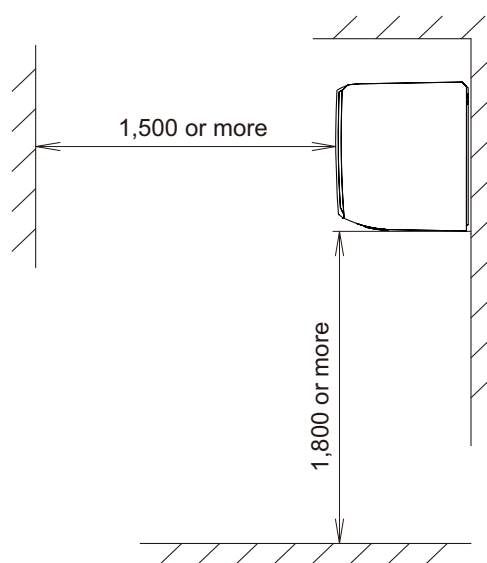
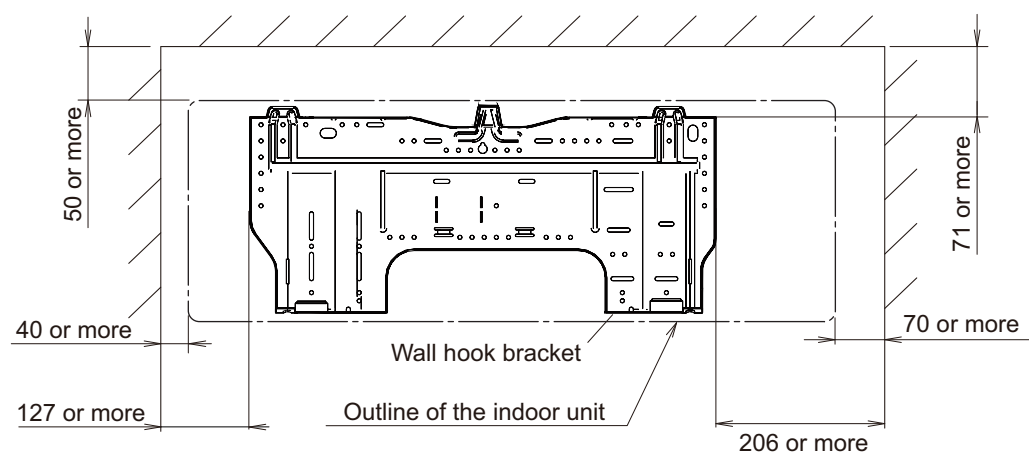
Unit: mm



■ Installation space requirement

Provide sufficient installation space for product safety.

Unit: mm

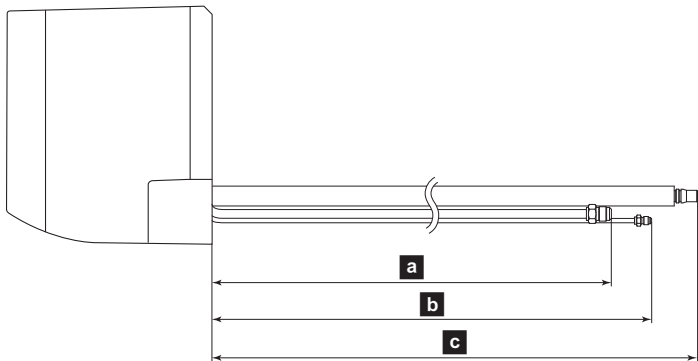


3-2. Pipe exit length from the rear

Design the system considering the length of the pipes or hose exiting from the rear of the indoor unit.

NOTE: Detailed shapes of the indoor unit and the tip of each pipe or hose may vary depending on the model.

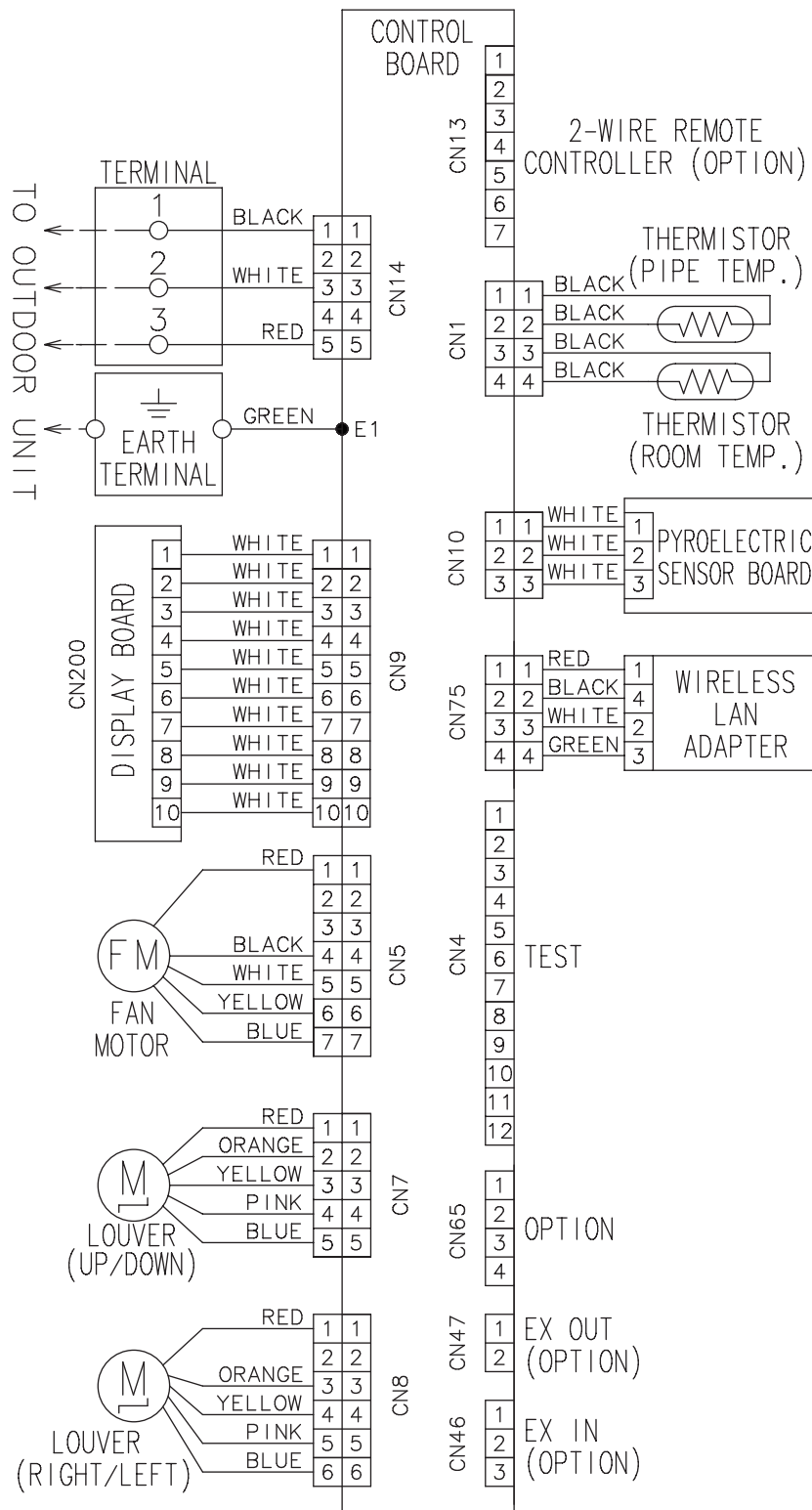
Unit: mm



Model name	Approximate length		
	a Gas pipe	b Liquid pipe	c Drain hose
ASEH07KJCAL ASEH07KJCALB ASEH09KJCAL ASEH09KJCALB ASEH12KJCAL ASEH12KJCALB ASEH14KJCAL ASEH14KJCALB	380	430	470

4. Wiring diagrams

4-1. Models: ASEH07KJCAL, ASEH09KJCAL, ASEH12KJCAL, ASEH14KJCAL, ASEH07KJCALB, ASEH09KJCALB, ASEH12KJCALB, and ASEH14KJCALB



5. 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)

5-1. Cooling capacity

■ Models: ASEH07KJCAL and ASEH07KJCALB

AFR					m³/h					540												
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	1.75	1.48	0.29	1.92	1.62	0.30	1.97	1.67	0.30	2.10	1.78	0.30	2.17	1.83	0.31	2.31	1.95	0.31	2.46	2.08	0.31
	0	1.78	1.50	0.34	1.95	1.64	0.34	2.01	1.69	0.34	2.13	1.80	0.35	2.20	1.86	0.35	2.35	1.98	0.35	2.50	2.11	0.36
	5	1.77	1.51	0.34	1.94	1.65	0.34	2.00	1.70	0.35	2.13	1.81	0.35	2.20	1.86	0.35	2.34	1.99	0.36	2.50	2.12	0.36
	10	1.77	1.51	0.34	1.94	1.65	0.35	2.00	1.70	0.35	2.12	1.81	0.35	2.19	1.86	0.36	2.34	1.99	0.36	2.49	2.12	0.36
	15	1.77	1.55	0.35	1.93	1.70	0.35	1.99	1.75	0.35	2.12	1.86	0.36	2.19	1.92	0.36	2.33	2.05	0.36	2.49	2.18	0.37
20	1.93	1.69	0.23	2.11	1.85	0.24	2.18	1.91	0.24	2.32	2.03	0.24	2.39	2.09	0.24	2.55	2.23	0.25	2.72	2.38	0.25	
25	1.83	1.64	0.28	2.00	1.80	0.29	2.06	1.85	0.29	2.19	1.97	0.29	2.26	2.04	0.30	2.41	2.17	0.30	2.57	2.32	0.30	
30	1.72	1.60	0.33	1.88	1.75	0.34	1.94	1.80	0.34	2.06	1.92	0.34	2.13	1.98	0.35	2.27	2.11	0.35	2.42	2.25	0.35	
35	1.62	1.55	0.38	1.77	1.70	0.39	1.82	1.75	0.39	1.94	1.86	0.40	2.00	1.92	0.40	2.13	2.05	0.40	2.27	2.18	0.41	
40	1.57	1.56	0.43	1.72	1.70	0.44	1.77	1.76	0.44	1.88	1.87	0.45	1.94	1.93	0.45	2.07	2.06	0.45	2.21	2.19	0.46	
45	1.42	1.41	0.49	1.55	1.55	0.50	1.60	1.60	0.50	1.70	1.70	0.51	1.75	1.75	0.51	1.87	1.87	0.52	1.99	1.99	0.52	
50	1.28	1.28	0.56	1.40	1.40	0.57	1.44	1.44	0.57	1.53	1.53	0.58	1.58	1.58	0.59	1.69	1.69	0.59	1.80	1.80	0.60	

■ Models: ASEH09KJCAL and ASEH09KJCALB

AFR					m³/h					580												
		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	2.13	1.72	0.39	2.33	1.88	0.39	2.40	1.94	0.40	2.55	2.06	0.40	2.63	2.13	0.41	2.81	2.27	0.41	3.00	2.42	0.41
	0	2.13	1.73	0.43	2.33	1.89	0.44	2.40	1.95	0.44	2.55	2.07	0.44	2.63	2.14	0.45	2.81	2.28	0.45	2.99	2.43	0.46
	5	2.12	1.74	0.44	2.32	1.90	0.44	2.39	1.96	0.45	2.54	2.08	0.45	2.62	2.15	0.46	2.79	2.29	0.46	2.98	2.44	0.47
	10	2.11	1.74	0.45	2.31	1.90	0.45	2.38	1.96	0.46	2.53	2.08	0.46	2.61	2.15	0.46	2.78	2.29	0.47	2.97	2.44	0.47
	15	2.10	1.77	0.45	2.30	1.94	0.46	2.37	2.00	0.46	2.52	2.12	0.47	2.60	2.19	0.47	2.77	2.34	0.48	2.96	2.49	0.48
	20	2.39	1.95	0.34	2.62	2.14	0.35	2.70	2.20	0.35	2.87	2.34	0.35	2.96	2.42	0.36	3.16	2.58	0.36	3.37	2.75	0.36
	25	2.27	1.90	0.40	2.48	2.08	0.41	2.56	2.14	0.41	2.72	2.28	0.42	2.81	2.35	0.42	2.99	2.51	0.42	3.19	2.67	0.43
	30	2.14	1.85	0.47	2.35	2.02	0.47	2.42	2.08	0.48	2.57	2.22	0.48	2.65	2.29	0.49	2.83	2.44	0.49	3.02	2.60	0.50
35	2.02	1.79	0.53	2.21	1.96	0.53	2.28	2.02	0.54	2.42	2.15	0.54	2.50	2.22	0.55	2.66	2.37	0.56	2.84	2.52	0.56	
40	1.96	1.79	0.58	2.15	1.96	0.59	2.22	2.02	0.59	2.36	2.15	0.60	2.43	2.22	0.60	2.59	2.36	0.61	2.77	2.52	0.62	
45	1.78	1.71	0.65	1.94	1.87	0.65	2.00	1.93	0.66	2.13	2.05	0.67	2.20	2.12	0.67	2.34	2.26	0.68	2.50	2.41	0.69	
50	1.64	1.59	0.73	1.79	1.75	0.73	1.85	1.80	0.74	1.97	1.91	0.75	2.03	1.97	0.76	2.16	2.11	0.76	2.31	2.25	0.77	

■ Models: ASEH12KJCAL and ASEH12KJCALB

AFR					m³/h					630												
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	3.09	2.33	0.58	3.38	2.56	0.58	3.49	2.63	0.59	3.71	2.80	0.59	3.83	2.89	0.60	4.08	3.08	0.61	4.35	3.29	0.61
	0	2.95	2.27	0.68	3.23	2.49	0.69	3.33	2.56	0.70	3.55	2.73	0.70	3.66	2.81	0.71	3.90	3.00	0.72	4.16	3.20	0.72
	5	2.90	2.25	0.69	3.18	2.47	0.70	3.28	2.54	0.71	3.49	2.70	0.72	3.60	2.79	0.72	3.83	2.97	0.73	4.09	3.17	0.74
	10	2.86	2.23	0.71	3.12	2.44	0.71	3.22	2.52	0.72	3.43	2.68	0.73	3.54	2.77	0.74	3.77	2.95	0.74	4.02	3.15	0.75
	15	2.81	2.21	0.72	3.07	2.42	0.73	3.16	2.50	0.74	3.37	2.66	0.74	3.47	2.74	0.75	3.70	2.92	0.76	3.95	3.12	0.77
20	3.19	2.38	0.53	3.49	2.61	0.53	3.60	2.69	0.54	3.83	2.86	0.55	3.95	2.95	0.55	4.21	3.14	0.56	4.50	3.36	0.56	
25	3.04	2.31	0.63	3.33	2.53	0.64	3.43	2.61	0.64	3.65	2.78	0.65	3.77	2.87	0.66	4.02	3.06	0.66	4.29	3.26	0.67	
30	2.89	2.25	0.73	3.17	2.46	0.74	3.27	2.54	0.75	3.47	2.70	0.76	3.58	2.78	0.76	3.82	2.97	0.77	4.08	3.17	0.78	
35	2.75	2.18	0.84	3.01	2.39	0.84	3.10	2.46	0.85	3.30	2.62	0.86	3.40	2.70	0.87	3.62	2.88	0.88	3.87	3.07	0.89	
40	2.67	2.16	0.84	2.92	2.37	0.85	3.01	2.44	0.86	3.20	2.60	0.87	3.31	2.68	0.88	3.52	2.86	0.89	3.76	3.05	0.90	
45	2.29	2.02	0.81	2.51	2.21	0.81	2.58	2.27	0.82	2.75	2.42	0.83	2.84	2.50	0.84	3.02	2.66	0.85	3.22	2.84	0.86	
50	2.04	1.93	0.85	2.23	2.11	0.86	2.30	2.17	0.87	2.44	2.31	0.88	2.52	2.38	0.89	2.69	2.54	0.90	2.87	2.71	0.91	

Models: ASEH14KJCAL and ASEH14KJCALB

AFR						m³/h						720											
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	3.74	2.75	0.74	4.09	3.01	0.75	4.21	3.10	0.76	4.48	3.30	0.77	4.63	3.40	0.77	4.93	3.63	0.78	5.26	3.87	0.79	
	0	3.68	2.73	0.88	4.03	2.99	0.89	4.15	3.08	0.90	4.42	3.27	0.91	4.56	3.38	0.92	4.86	3.60	0.92	5.19	3.84	0.93	
	5	3.60	2.69	0.91	3.94	2.95	0.92	4.06	3.04	0.92	4.32	3.23	0.93	4.46	3.33	0.94	4.75	3.55	0.95	5.07	3.79	0.96	
	10	3.52	2.66	0.93	3.85	2.91	0.94	3.97	3.00	0.95	4.23	3.19	0.96	4.36	3.29	0.97	4.65	3.51	0.98	4.96	3.74	0.99	
	15	3.44	2.62	0.96	3.77	2.87	0.97	3.88	2.96	0.98	4.13	3.15	0.99	4.26	3.25	1.00	4.54	3.46	1.01	4.84	3.69	1.02	
	20	3.85	2.79	0.85	4.21	3.05	0.86	4.34	3.14	0.87	4.62	3.34	0.88	4.76	3.45	0.89	5.08	3.68	0.90	5.42	3.92	0.91	
	25	3.69	2.72	0.97	4.04	2.98	0.98	4.17	3.07	0.99	4.43	3.26	1.00	4.57	3.37	1.01	4.88	3.59	1.02	5.20	3.83	1.03	
	30	3.54	2.65	1.09	3.88	2.90	1.10	4.00	2.99	1.11	4.25	3.18	1.13	4.39	3.28	1.14	4.68	3.50	1.15	4.99	3.73	1.16	
	35	3.39	2.58	1.21	3.71	2.83	1.22	3.83	2.92	1.23	4.07	3.10	1.25	4.20	3.20	1.26	4.48	3.41	1.27	4.78	3.64	1.29	
40	2.98	2.42	1.03	3.26	2.65	1.04	3.36	2.73	1.05	3.57	2.91	1.07	3.69	3.00	1.08	3.93	3.20	1.09	4.19	3.41	1.10		
45	2.37	2.18	0.84	2.59	2.39	0.85	2.67	2.46	0.86	2.84	2.62	0.87	2.93	2.70	0.88	3.12	2.88	0.89	3.33	3.07	0.90		
50	2.08	2.07	0.86	2.27	2.26	0.87	2.34	2.33	0.88	2.49	2.48	0.89	2.57	2.56	0.89	2.74	2.73	0.90	2.92	2.91	0.91		

5-2. Heating capacity

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

■ Models: ASEH07KJCAL and ASEH07KJCALB

AFR			m³/h				580					
			Indoor temperature									
			16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-20	-21	2.86	1.35	2.79	1.38	2.71	1.41	2.64	1.43	2.56	1.46
	-15	-16	3.00	1.21	2.93	1.23	2.85	1.26	2.77	1.28	2.69	1.30
	-10	-11	3.15	1.06	3.07	1.08	2.98	1.11	2.90	1.13	2.82	1.15
	-5	-7	3.62	1.07	3.52	1.10	3.43	1.12	3.34	1.14	3.24	1.16
	0	-2	4.07	1.23	3.96	1.26	3.86	1.29	3.75	1.31	3.64	1.33
	5	3	3.97	0.98	3.86	1.00	3.76	1.03	3.66	1.05	3.55	1.07
	7	6	3.80	1.00	3.70	1.02	3.60	1.04	3.50	1.06	3.40	1.08
	10	8	4.44	1.00	4.32	1.02	4.20	1.05	4.09	1.07	3.97	1.09
15	10	4.32	0.89	4.21	0.91	4.10	0.93	3.98	0.95	3.87	0.97	
20	15	4.70	0.88	4.58	0.90	4.46	0.92	4.33	0.94	4.21	0.95	
24	18	4.93	0.86	4.80	0.88	4.67	0.90	4.54	0.92	4.41	0.93	

■ Models: ASEH09KJCAL and ASEH09KJCALB

AFR			m³/h				580					
			Indoor temperature									
			16		18		20		22		24	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW	
	-20	-21	3.12	1.60	3.04	1.63	2.96	1.67	2.88	1.70	2.79	1.73
	-15	-16	3.39	1.50	3.30	1.53	3.21	1.56	3.12	1.59	3.03	1.62
	-10	-11	3.65	1.39	3.56	1.42	3.46	1.45	3.37	1.48	3.27	1.51
	-5	-7	4.16	1.50	4.05	1.53	3.94	1.56	3.84	1.59	3.73	1.62
	0	-2	4.65	1.63	4.53	1.66	4.41	1.70	4.29	1.73	4.17	1.76
	5	3	4.61	1.33	4.49	1.36	4.37	1.39	4.24	1.41	4.12	1.44
	7	6	4.75	1.35	4.62	1.38	4.50	1.41	4.38	1.44	4.25	1.46
	10	8	5.03	1.32	4.89	1.34	4.76	1.37	4.63	1.40	4.50	1.42
	15	10	5.27	1.34	5.13	1.36	4.99	1.39	4.85	1.42	4.71	1.45
20	15	5.18	1.09	5.05	1.11	4.91	1.14	4.78	1.16	4.64	1.18	
24	18	5.30	1.05	5.16	1.07	5.02	1.09	4.89	1.11	4.75	1.13	

■ Models: ASEH12KJCAL and ASEH12KJCALB

AFR			m³/h				630					
			Indoor temperature									
			16		18		20		22		24	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW	
	-20	-21	3.27	1.52	3.19	1.55	3.10	1.58	3.02	1.61	2.93	1.64
	-15	-16	3.57	1.47	3.47	1.50	3.38	1.53	3.29	1.56	3.19	1.59
	-10	-11	3.86	1.41	3.76	1.44	3.66	1.47	3.56	1.50	3.46	1.53
	-5	-7	4.50	1.46	4.38	1.49	4.26	1.52	4.14	1.55	4.03	1.58
	0	-2	4.98	1.50	4.85	1.53	4.72	1.56	4.59	1.59	4.46	1.62
	5	3	5.47	1.54	5.32	1.57	5.18	1.61	5.04	1.64	4.89	1.67
	7	6	5.70	1.57	5.55	1.61	5.40	1.64	5.25	1.67	5.10	1.70
	10	8	5.87	1.54	5.72	1.57	5.57	1.60	5.41	1.63	5.26	1.67
	15	10	5.93	1.44	5.78	1.47	5.62	1.50	5.47	1.53	5.31	1.56
20	15	5.56	1.09	5.42	1.11	5.27	1.14	5.13	1.16	4.98	1.18	
24	18	5.81	1.11	5.66	1.13	5.50	1.15	5.35	1.18	5.20	1.20	

■ Models: ASEH14KJCAL and ASEH14KJCALB

AFR			m³/h				720					
			Indoor temperature									
			16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-20	-21	3.31	1.49	3.22	1.52	3.14	1.55	3.05	1.58	2.96	1.61
	-15	-16	3.62	1.44	3.53	1.47	3.43	1.50	3.34	1.53	3.24	1.55
	-10	-11	3.93	1.39	3.83	1.42	3.72	1.45	3.62	1.47	3.52	1.50
	-5	-7	4.56	1.42	4.44	1.44	4.32	1.47	4.20	1.50	4.08	1.53
	0	-2	5.25	1.55	5.11	1.58	4.98	1.61	4.84	1.64	4.70	1.67
	5	3	5.95	1.68	5.79	1.71	5.64	1.75	5.48	1.78	5.32	1.81
	7	6	6.23	1.73	6.06	1.76	5.90	1.80	5.74	1.83	5.57	1.87
	10	8	6.47	1.76	6.30	1.79	6.13	1.83	5.96	1.86	5.80	1.90
15	10	6.26	1.46	6.10	1.49	5.93	1.52	5.77	1.55	5.61	1.58	
20	15	5.88	1.11	5.73	1.14	5.57	1.16	5.42	1.18	5.26	1.21	
24	18	6.17	1.12	6.01	1.15	5.85	1.17	5.69	1.19	5.52	1.22	

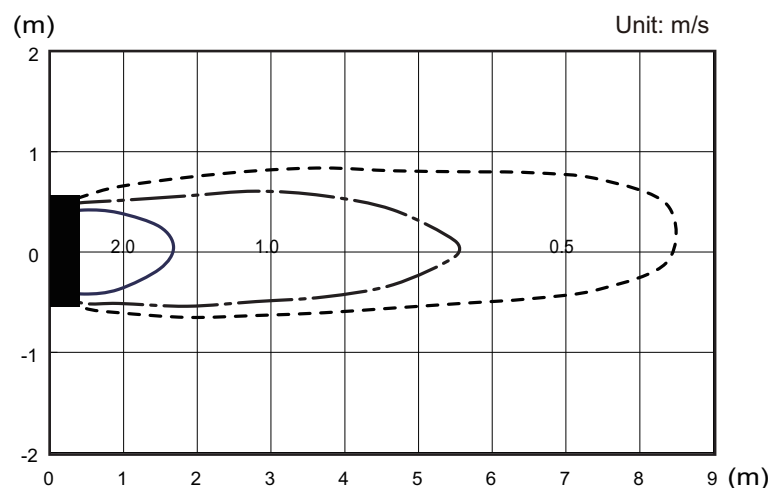
6. Fan performance

6-1. Air velocity distributions

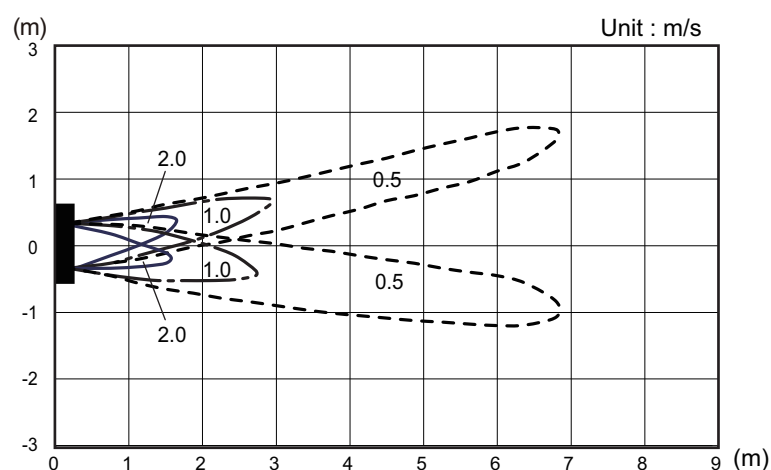
■ Models: ASEH07KJCAL and ASEH07KJCALB

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

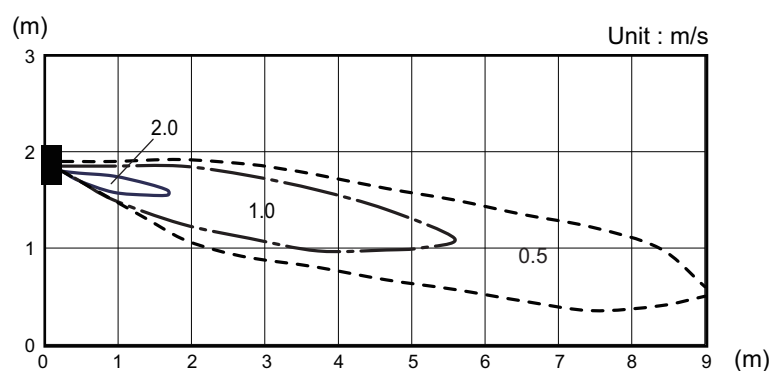
Top view
Horizontal louver: Up
Vertical louver: Center



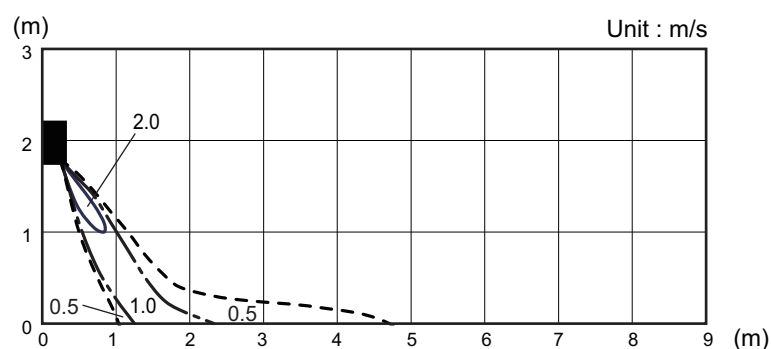
Top view
Horizontal louver: Up
Vertical louver: Left & Right



Side view
Horizontal louver: Up
Vertical louver: Center



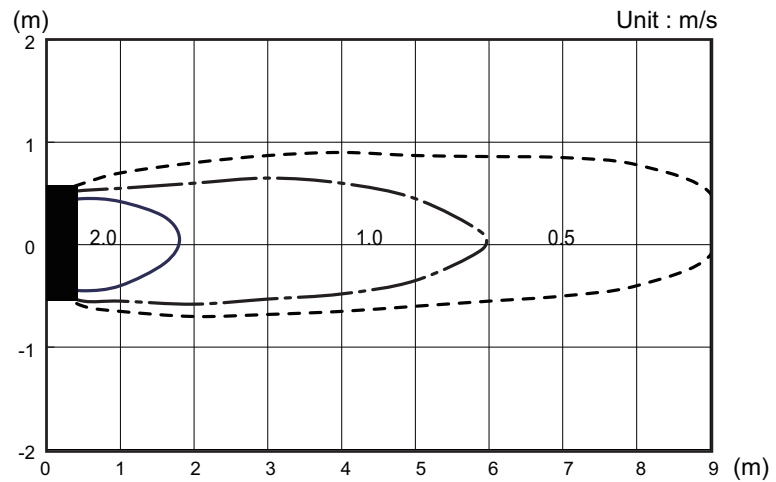
Side view
Horizontal louver: Down
Vertical louver: Center



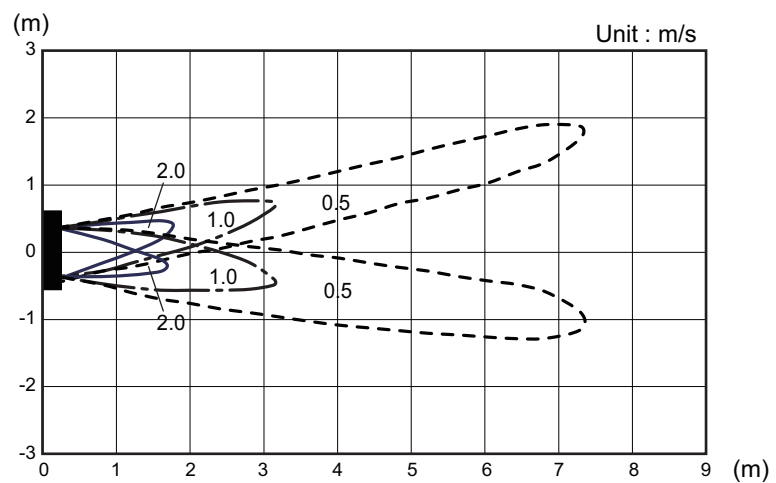
Models: ASEH09KJCAL and ASEH09KJCALB

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

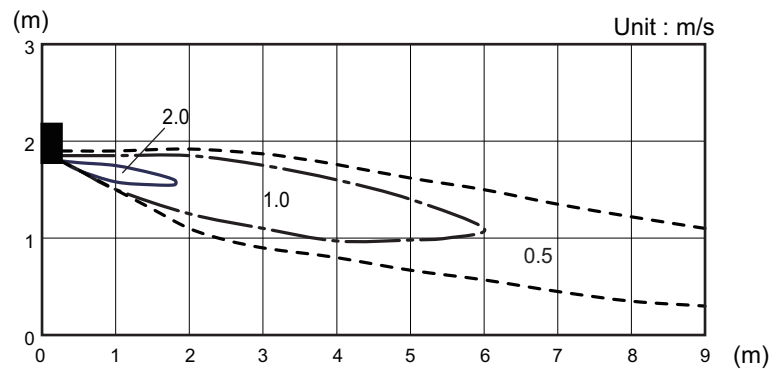
Top view
Horizontal louver: Up
Vertical louver: Center



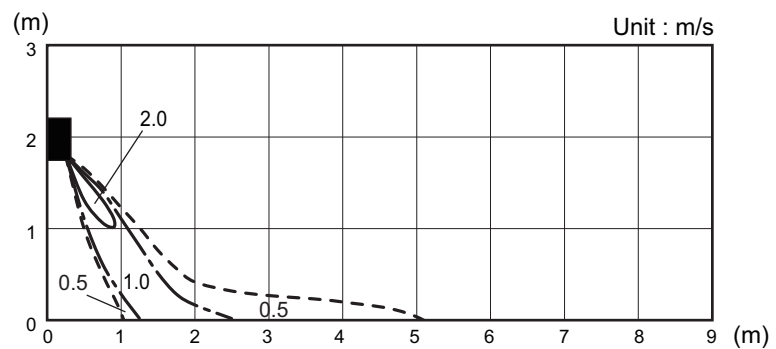
Top view
Horizontal louver: Up
Vertical louver: Left & Right



Side view
Horizontal louver: Up
Vertical louver: Center



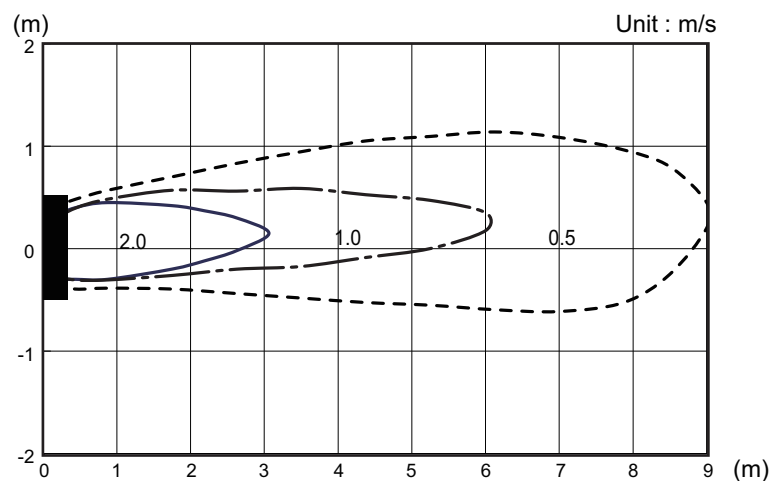
Side view
Horizontal louver: Down
Vertical louver: Center



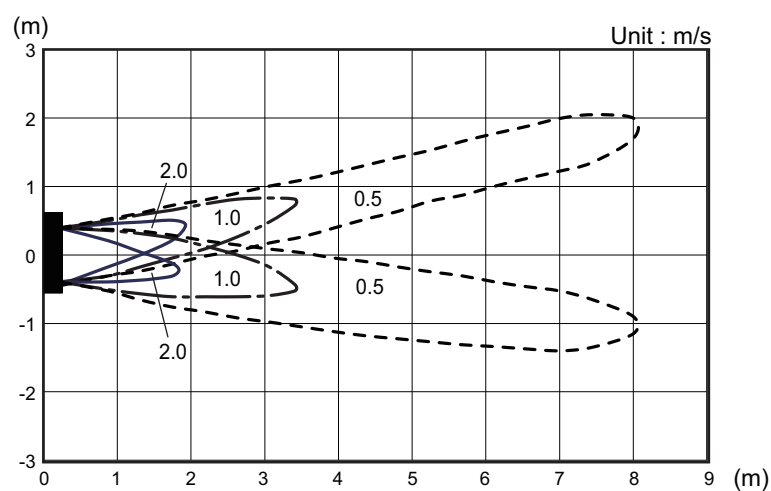
Models: ASEH12KJCAL and ASEH12KJCALB

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

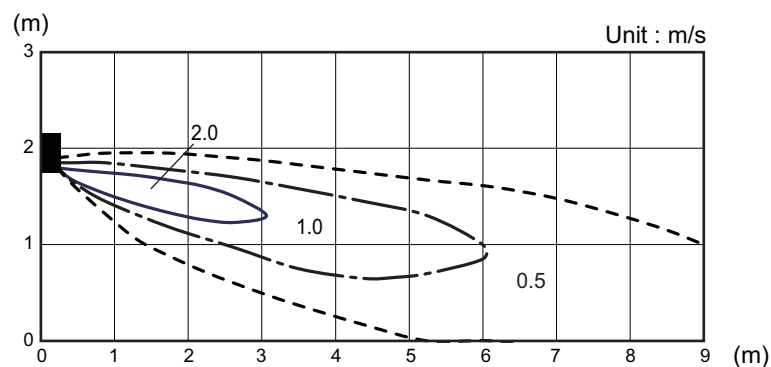
Top view
Horizontal louver: Up
Vertical louver: Center



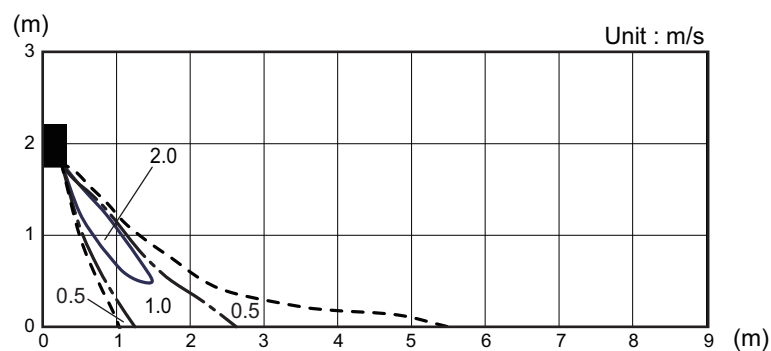
Top view
Horizontal louver: Up
Vertical louver: Left & Right



Side view
Horizontal louver: Up
Vertical louver: Center



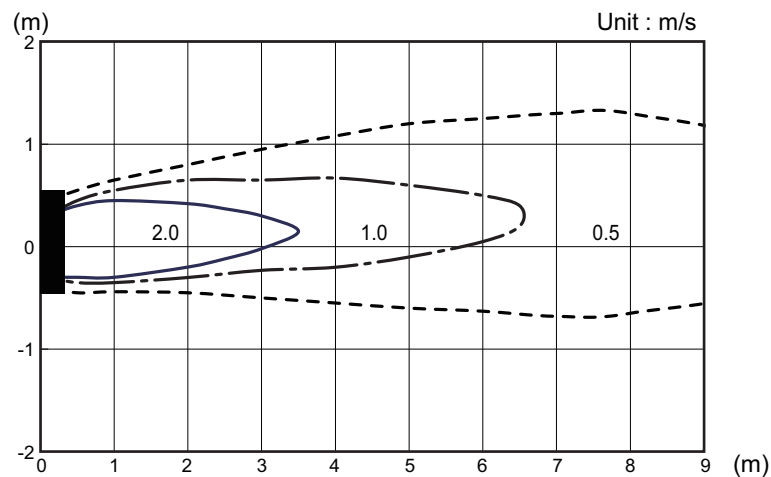
Side view
Horizontal louver: Down
Vertical louver: Center



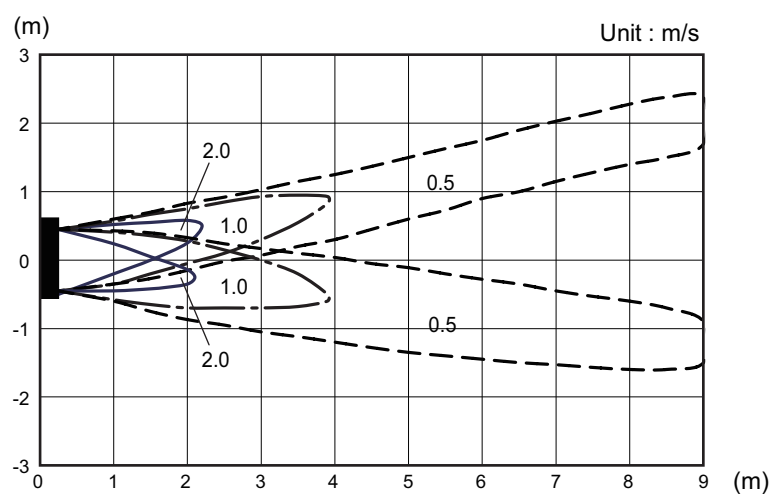
Models: ASEH14KJCAL and ASEH14KJCALB

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

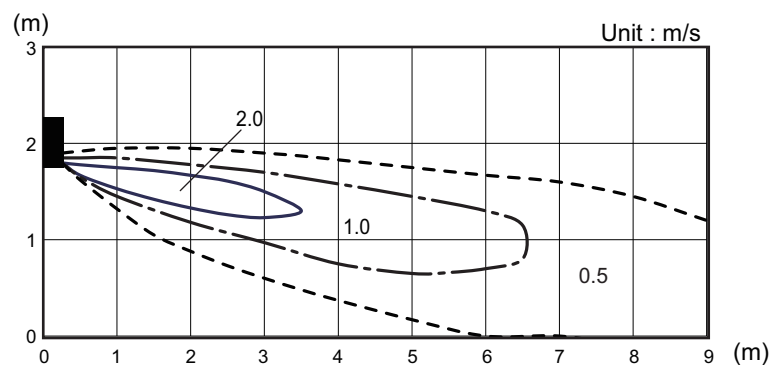
Top view
Horizontal louver: Up
Vertical louver: Center



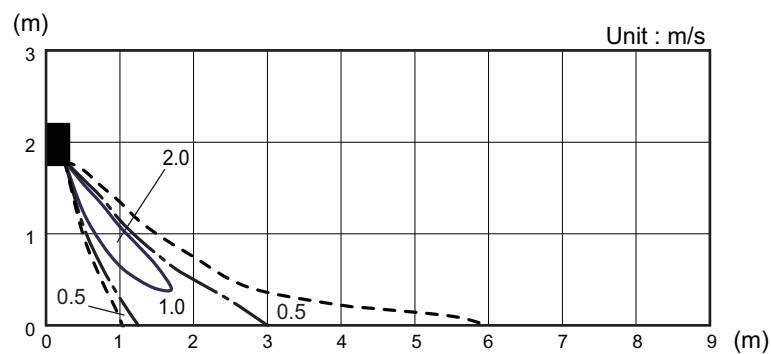
Top view
Horizontal louver: Up
Vertical louver: Left & Right



Side view
Horizontal louver: Up
Vertical louver: Center



Side view
Horizontal louver: Down
Vertical louver: Center



6-2. Airflow

■ Models: ASEH07KJCAL and ASEH07KJCALB

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	540
	l/s	150
	CFM	318
MED-HIGH	m ³ /h	480
	l/s	133
	CFM	283
MED	m ³ /h	430
	l/s	119
	CFM	253
MED-LOW	m ³ /h	380
	l/s	106
	CFM	224
LOW	m ³ /h	330
	l/s	92
	CFM	194
QUIET	m ³ /h	260
	l/s	72
	CFM	153

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	580
	l/s	161
	CFM	341
MED-HIGH	m ³ /h	500
	l/s	139
	CFM	294
MED	m ³ /h	430
	l/s	119
	CFM	253
MED-LOW	m ³ /h	380
	l/s	106
	CFM	224
LOW	m ³ /h	330
	l/s	92
	CFM	194
QUIET	m ³ /h	270
	l/s	75
	CFM	159

■ Models: ASEH09KJCAL and ASEH09KJCALB

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	580
	l/s	161
	CFM	341
MED-HIGH	m ³ /h	500
	l/s	139
	CFM	294
MED	m ³ /h	430
	l/s	119
	CFM	253
MED-LOW	m ³ /h	380
	l/s	106
	CFM	224
LOW	m ³ /h	330
	l/s	92
	CFM	194
QUIET	m ³ /h	260
	l/s	72
	CFM	153

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	580
	l/s	161
	CFM	341
MED-HIGH	m ³ /h	500
	l/s	139
	CFM	294
MED	m ³ /h	430
	l/s	119
	CFM	253
MED-LOW	m ³ /h	380
	l/s	106
	CFM	224
LOW	m ³ /h	330
	l/s	92
	CFM	194
QUIET	m ³ /h	270
	l/s	75
	CFM	159

■ Models: ASEH12KJCAL and ASEH12KJCALB

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	630
	l/s	175
	CFM	371
MED-HIGH	m ³ /h	550
	l/s	153
	CFM	324
MED	m ³ /h	470
	l/s	131
	CFM	277
MED-LOW	m ³ /h	400
	l/s	111
	CFM	235
LOW	m ³ /h	320
	l/s	89
	CFM	188
QUIET	m ³ /h	250
	l/s	69
	CFM	147

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	630
	l/s	175
	CFM	371
MED-HIGH	m ³ /h	550
	l/s	153
	CFM	324
MED	m ³ /h	470
	l/s	131
	CFM	277
MED-LOW	m ³ /h	400
	l/s	111
	CFM	235
LOW	m ³ /h	320
	l/s	89
	CFM	188
QUIET	m ³ /h	250
	l/s	69
	CFM	147

■ Models: ASEH14KJCAL and ASEH14KJCALB

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	720
	l/s	200
	CFM	424
MED-HIGH	m ³ /h	600
	l/s	167
	CFM	353
MED	m ³ /h	490
	l/s	136
	CFM	288
MED-LOW	m ³ /h	400
	l/s	111
	CFM	235
LOW	m ³ /h	320
	l/s	89
	CFM	188
QUIET	m ³ /h	250
	l/s	69
	CFM	147

● Heating

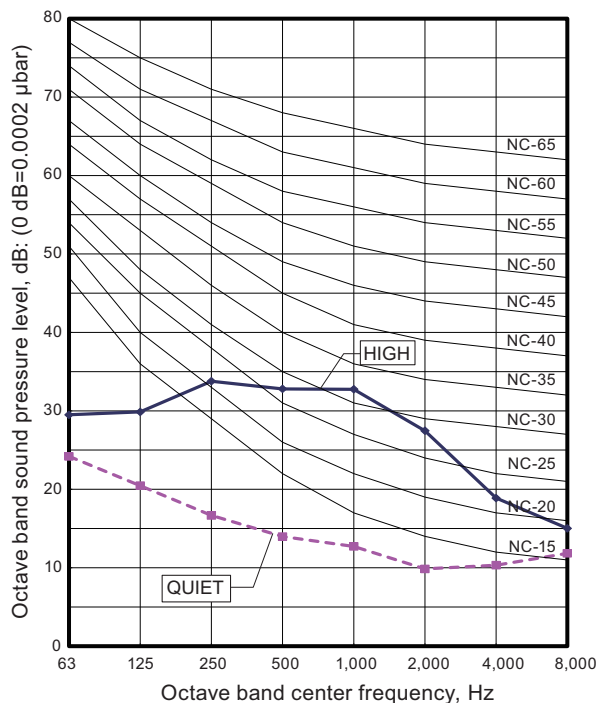
Fan speed	Airflow	
HIGH	m ³ /h	720
	l/s	200
	CFM	424
MED-HIGH	m ³ /h	600
	l/s	167
	CFM	353
MED	m ³ /h	490
	l/s	136
	CFM	288
MED-LOW	m ³ /h	400
	l/s	111
	CFM	235
LOW	m ³ /h	320
	l/s	89
	CFM	188
QUIET	m ³ /h	250
	l/s	69
	CFM	147

7. Operation noise

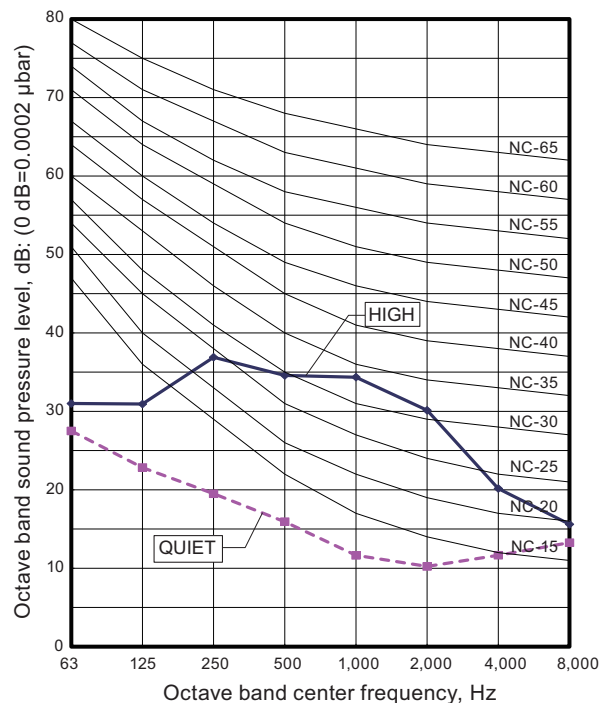
7-1. Noise level curve (sound pressure)

■ Models: ASEH07KJCAL and ASEH07KJCALB

● Cooling

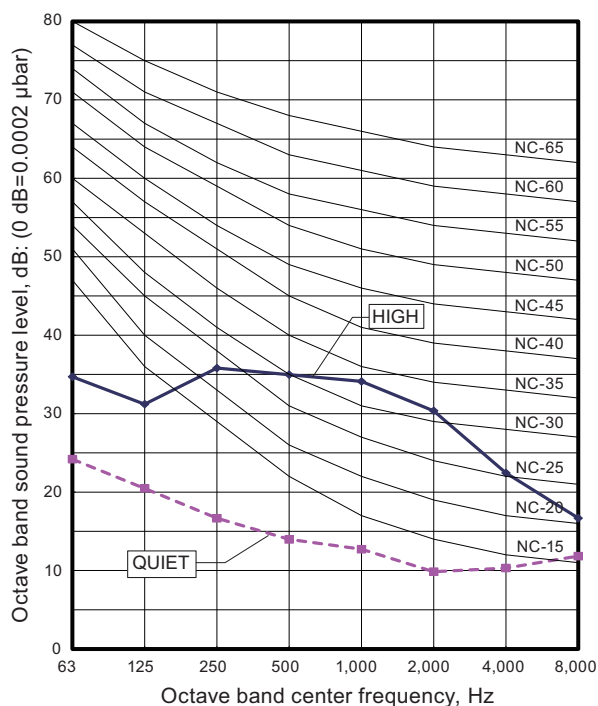


● Heating

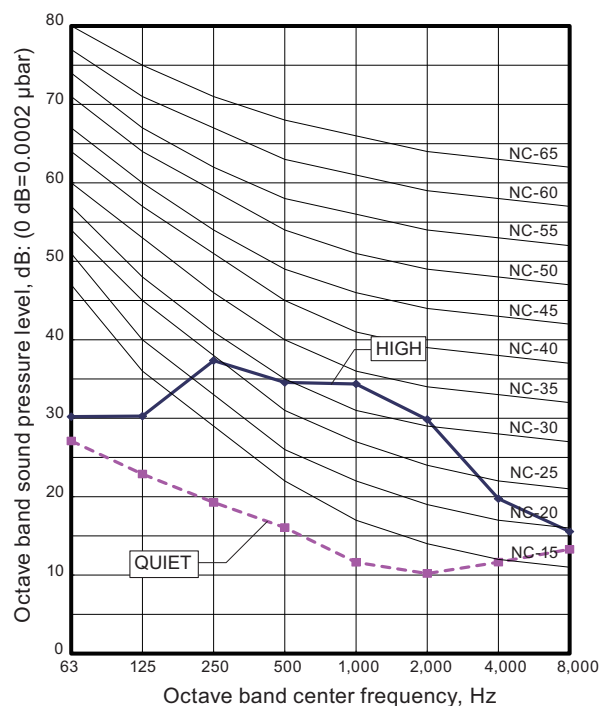


■ Models: ASEH09KJCAL and ASEH09KJCALB

● Cooling

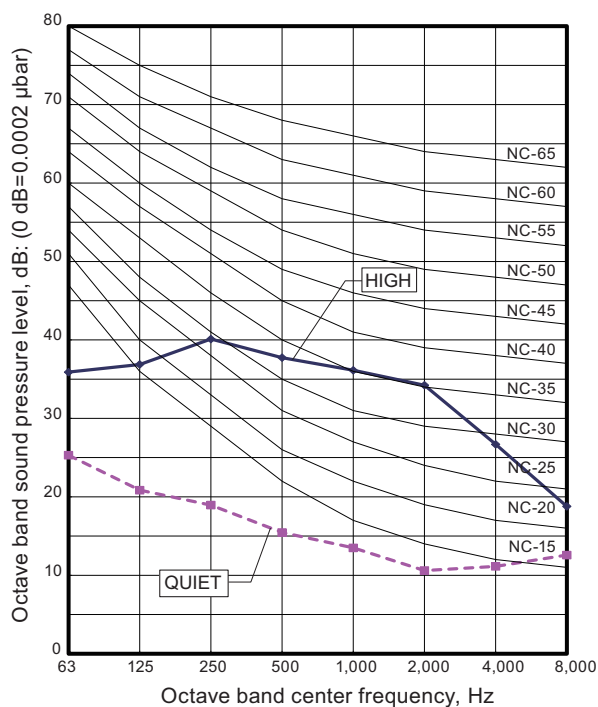


● Heating

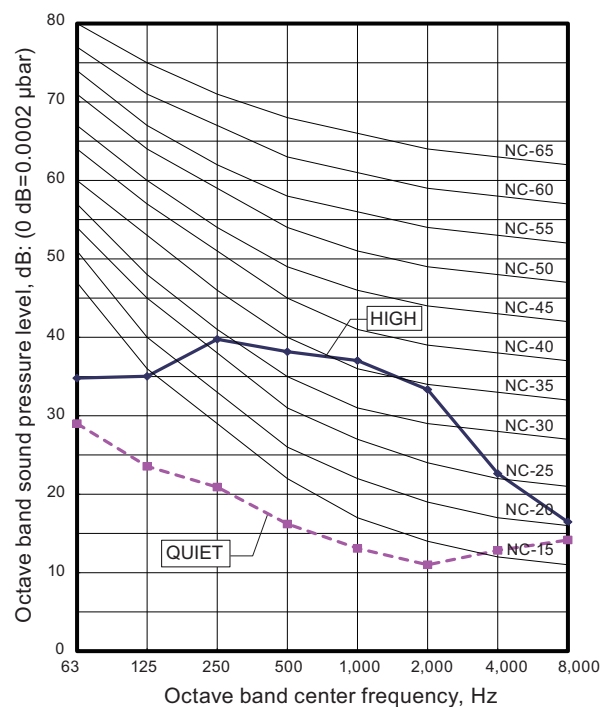


Models: ASEH12KJCAL and ASEH12KJCALB

Cooling

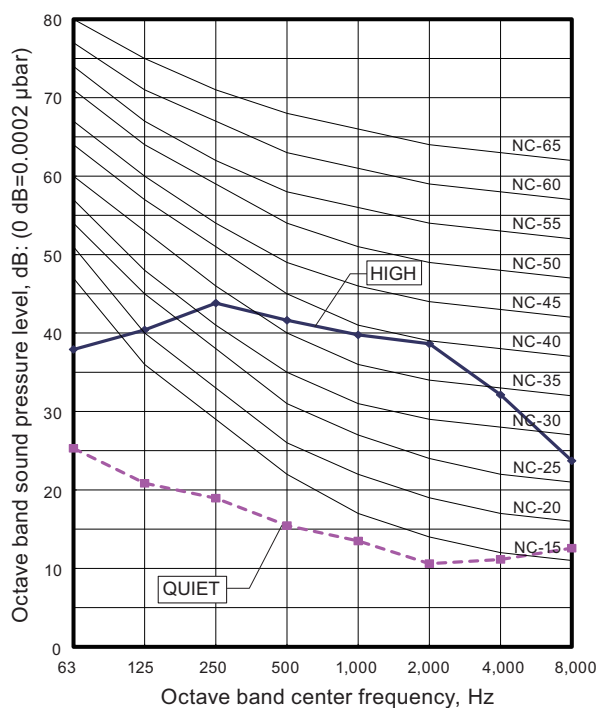


Heating

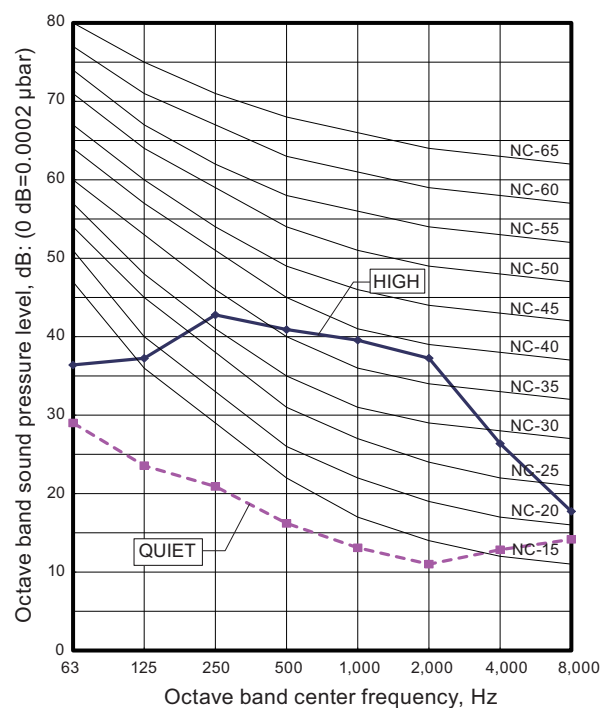


Models: ASEH14KJCAL and ASEH14KJCALB

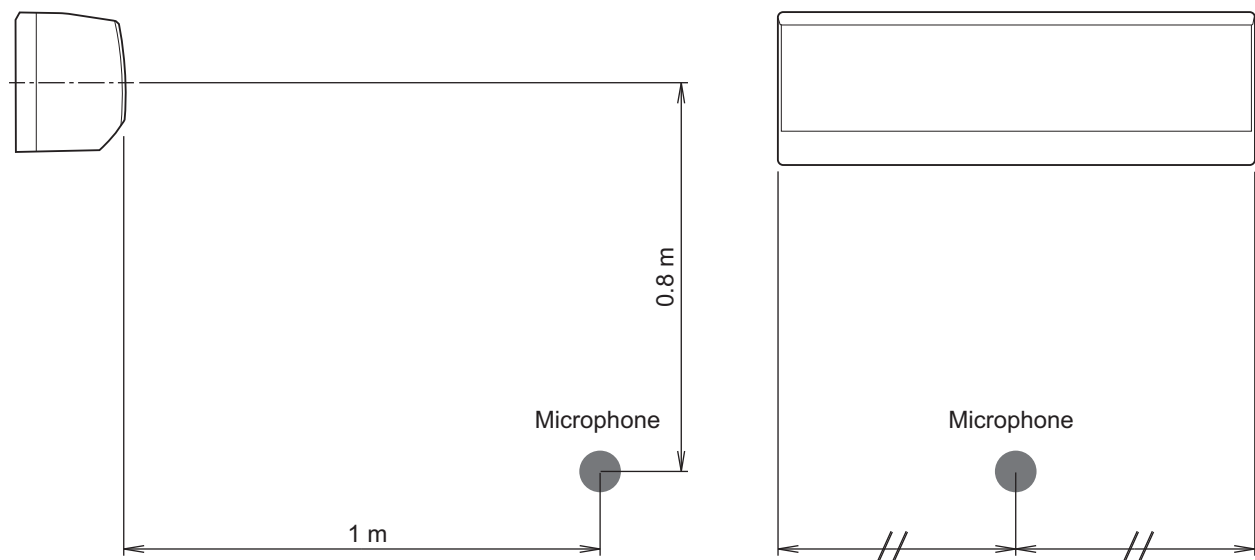
Cooling



Heating



7-2. Sound level check point



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

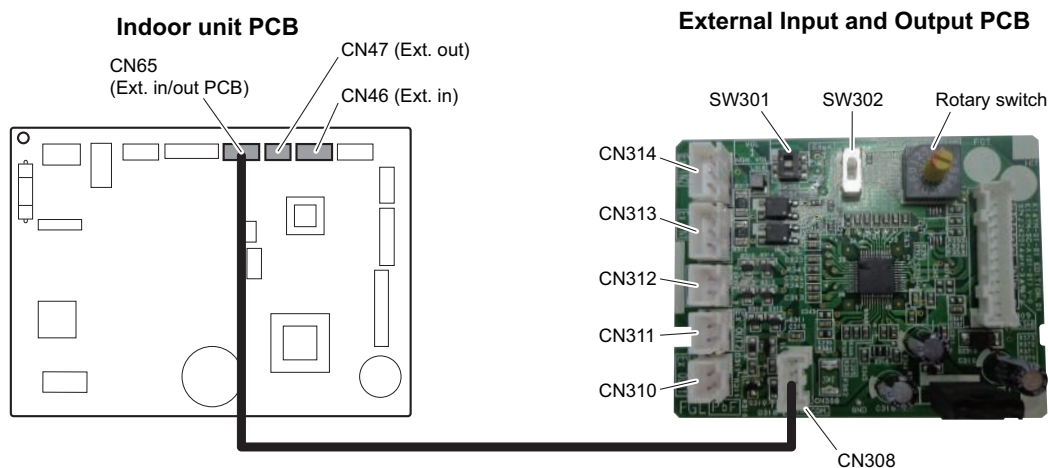
8. Safety devices

Type of protection	Protection form		Model	
			ASEH07KJCAL ASEH07KJCALB	ASEH09KJCAL ASEH09KJCALB
Circuit protection	Current fuse (PCB*)		250 V, 3.15 A	
Fan motor protection	Thermistor protection	Activate	170 ⁺²⁵ ₋₃₀ °C Fan motor stop	
		Reset	145 ⁺²⁵ ₋₃₀ °C Fan motor restart	

Type of protection	Protection form		Model	
			ASEH12KJCAL ASEH12KJCALB	ASEH14KJCAL ASEH14KJCALB
Circuit protection	Current fuse (PCB*)		250 V, 3.15 A	
Fan motor protection	Thermistor protection	Activate	170 ⁺²⁵ ₋₃₀ °C Fan motor stop	
		Reset	145 ⁺²⁵ ₋₃₀ °C Fan motor restart	

*PCB: Printed Circuit Board

9. External input and output



Connecting point		Input/Output	Function	Input select	Input signal
Indoor unit	CN46	Input	Operation/Stop	Dry contact	Edge
			Forced stop		
	CN47	Output	Operation/Stop	—	—
			Error status		
External Input and Output PCB (UTY-XCSXZ2)	CN313 CN314	Input	Operation/Stop	Dry contact/Apply voltage	Edge/Pulse
			Forced stop		
	CN313	Input	Forced thermostat off	—	Edge
	CN310 CN311 CN312	Output	Operation/Stop		—
			Error status		
			Indoor unit fan operation status		

NOTE: For details of the switching function, refer to ["Setting of external input and output"](#) on page 31.

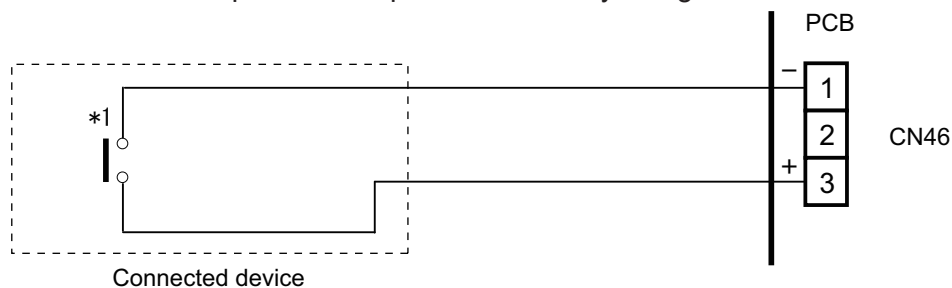
9-1. External input

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 should be used. Maximum length of cable is 150 m.
- Use an external input and output cable with appropriate external dimension, depending on the number of cables to be installed.
- The wire connection should be separate from the power cable line.

Indoor unit

Indoor unit functions such as Operation/Stop can be done by using indoor unit connectors.



*1: The switch can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

External Input and Output PCB

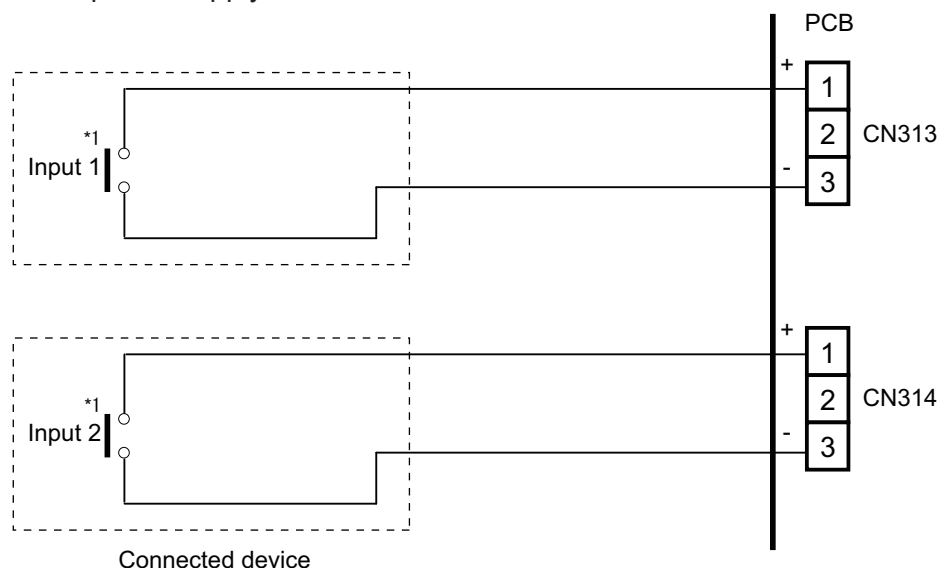
The indoor unit Operation/Stop can be set by using the input connector on the PCB.

• Input select

Use either one of these types of connectors according to the application. (Both types of connectors cannot be used simultaneously.)

– Dry contact

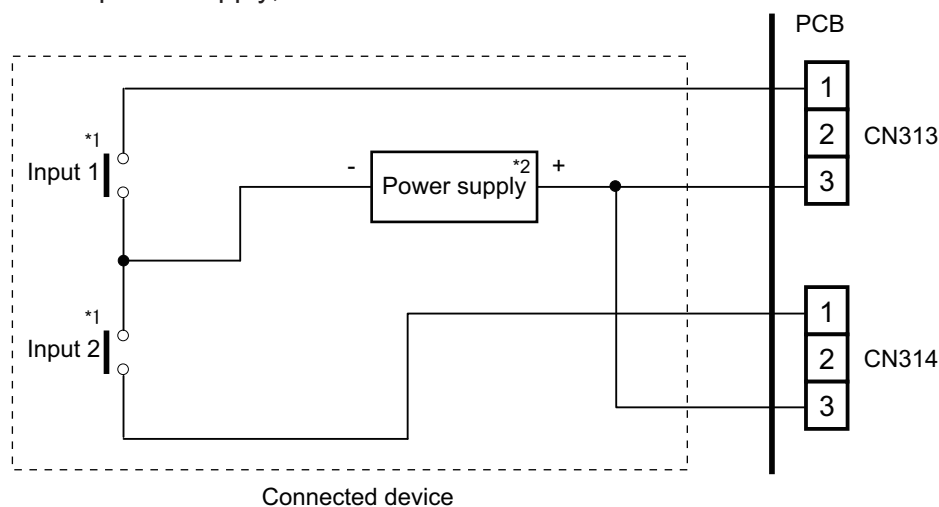
In case of internal power supply, set the slide switch of SW301 to "NON VOL" side.



*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

– Apply voltage

In case of external power supply, set the slide switch of SW301 to "VOL" side.



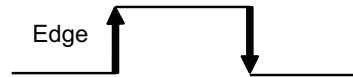
*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

*2: Make the power supply DC 12 V to 24 V, 10 mA or more.

■ Input signal type

- **Indoor unit**

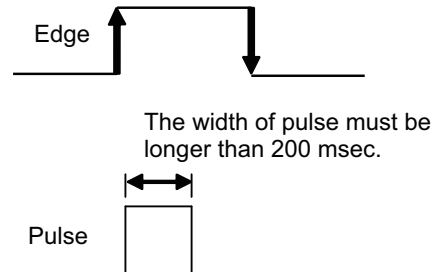
Input signal type is only "Edge".



- **External Input and Output PCB**

The input signal type can be selected.

Signal type (edge or pulse) can be switched by the DIP switch 2 (SW302) on the External Input and Output PCB.



NOTE: The input signal supports the following switch type:

- Edge: Alternate type switch
- Pulse: Momentary type switch

9-2. External output

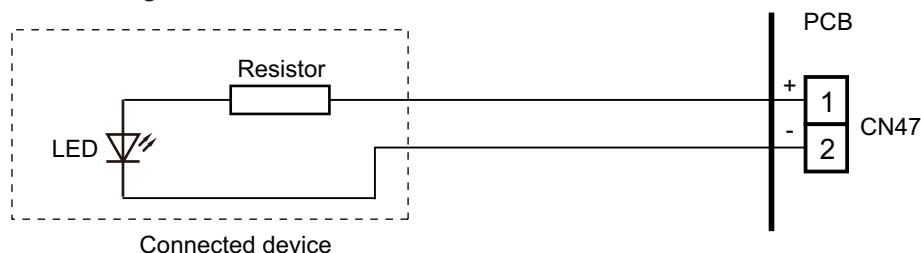
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

Indoor unit

- A twisted pair cable should be used. Maximum length of cable is 25 m.
- Output voltage: High DC 12 V $\pm$ 2 V, Low 0 V.
- Permissible current: 50 mA
- For details, refer to ["Setting of external input and output"](#) on page 31.

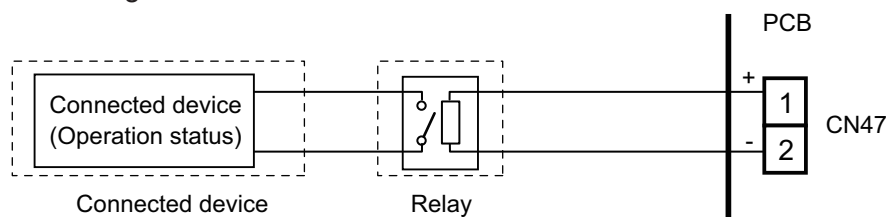
- **When indicator, etc. are connected directly**

Example: Function setting number 60 is set to "00"



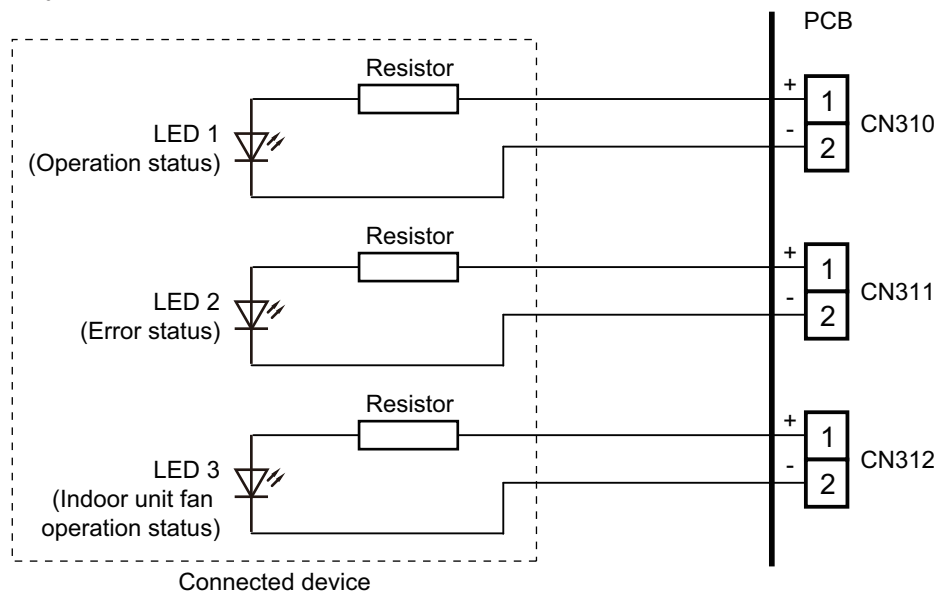
- **When connecting with a device equipped with a power supply**

Example: Function setting number 60 is set to "00"

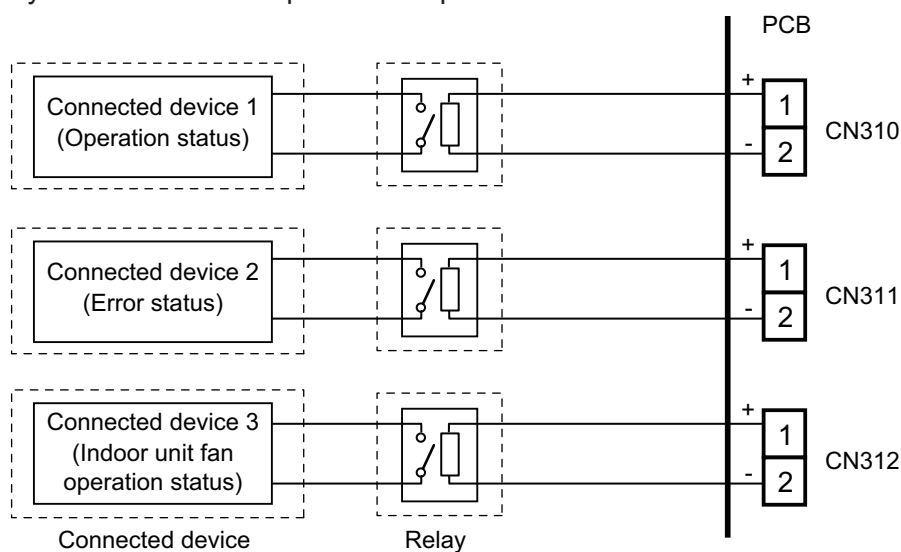


External Input and Output PCB

- A twisted pair cable should be used. Maximum length of cable is 25 m.
- Output voltage: High DC 12 V $\pm$ 2 V, Low 0 V.
- Permissible current: 50 mA
- For details, refer to ["Setting of external input and output"](#) on page 31.
- **When indicator or other components are connected directly:**
Example: Rotary SW on External Input and Output PCB is set to "1".



- **When connecting with a device equipped with a power supply:**
Example: Rotary SW on External Input and Output PCB is set to "1".



9-3. Setting of external input and output

- Indoor unit

Input		
Connection point	Function setting number 46	Function
CN46	00	Operation/Stop mode 1 (R.C. enabled)
	01	(Setting prohibited)
	02	Forced stop mode
	03	Operation/Stop mode 2 (R.C. disabled)

Output		
Connection point	Function setting number 60	Function
CN47	00	Operation/Stop
	01 to 08	(Setting prohibited)
	09	Error status
	10	Indoor unit fan operation status
	11	(Setting prohibited)

- External Input and Output PCB

Switch setting		Input		Output		
Rotary switch	SW302	CN313	CN314	CN310	CN311	CN312
1	Edge	Operation/Stop	Not available	Operation/Stop	Error status	Indoor unit fan operation status
	Pulse	Operation	Stop			
2	Edge*	Forced thermostat off	Not available	Error status	Indoor unit fan operation status	Not available
3 to 9, A		(Setting prohibited)				
B		Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	Not available
C		Forced thermostat off	Not available	Operation/Stop	Error status	Not available
D		Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	Error status

NOTES:

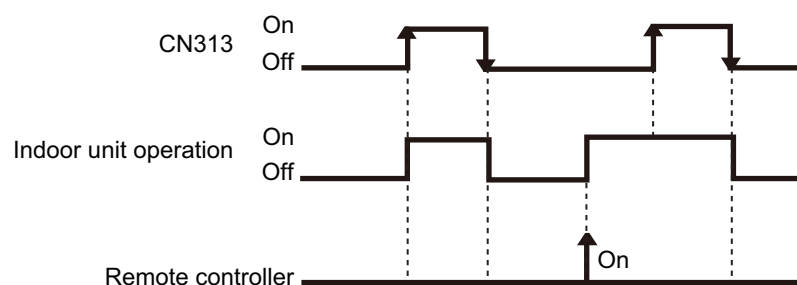
- When the rotary switch is selected to "1", the operation of the connector input of the indoor unit and the External Input and Output PCB input are the same. The operation content depends on the setting of function setting number 46.
- *: The external input other than "Operation/Stop" is available only when the SW302 is set to "Edge".

9-4. Details of control input function

■ Operation/Stop mode 1

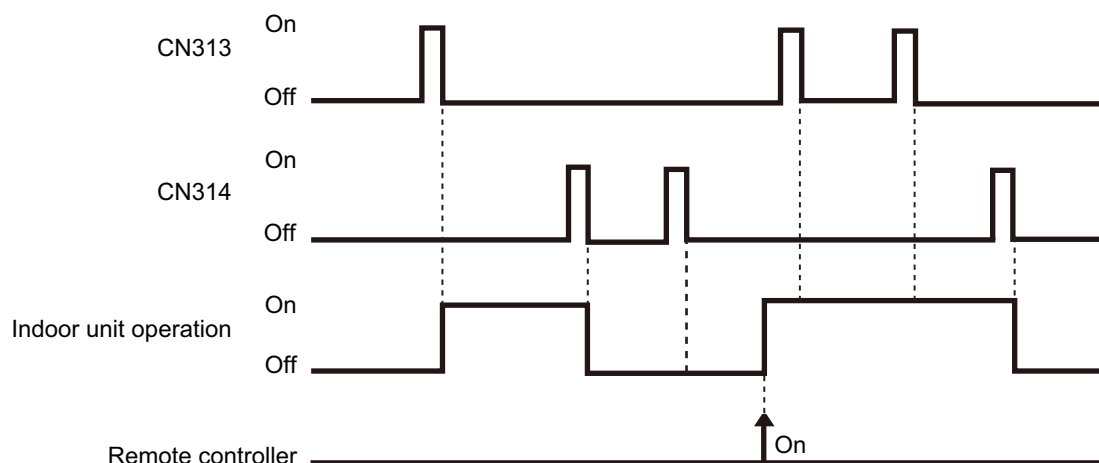
- In the case of "Edge" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW302				
46-00	—		Input of indoor unit	CN46	Off → On	Operation
	—		Input of indoor unit	CN46	On → Off	Stop
	1	Edge	External Input and Output PCB	CN313	Off → On	Operation
					On → Off	Stop



- In the case of "Pulse" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW302				
46-00	1	Pulse	External Input and Output PCB	CN313	Pulse	Operation
				CN314		Stop



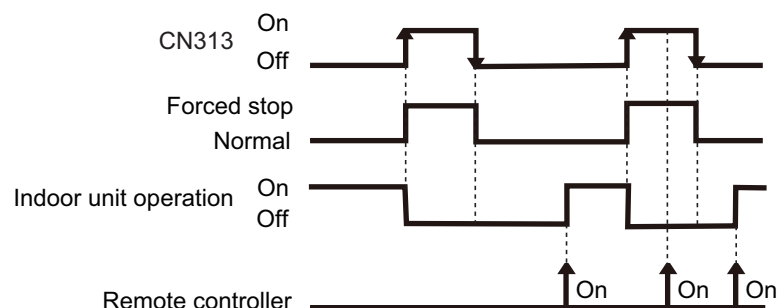
NOTES:

- The last command has priority.
- The indoor units within the same remote controller group operates in the same mode.

■ Forced stop

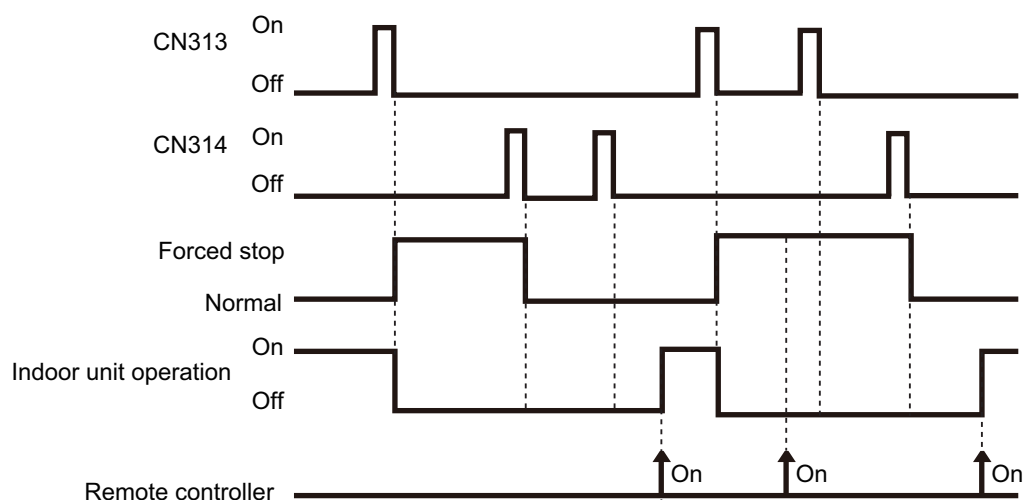
- In the case of "Edge" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW302				
46-02	—		Input of indoor unit	CN46	Off → On	Forced stop (R.C. disabled)
					On → Off	Normal (R.C. enabled)
	1	Edge	External Input and Output PCB	CN313	Off → On	Forced stop (R.C. disabled)
					On → Off	Normal (R.C. enabled)



- In the case of "Pulse" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW302				
46-02	1	Pulse	External Input and Output PCB	CN313	Pulse	Forced stop (R.C. disabled)
				CN314		Normal (R.C. enabled)



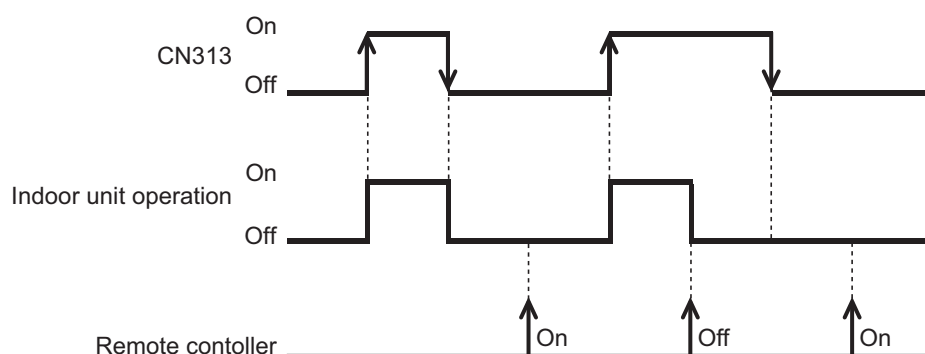
NOTES:

- When the forced stop is triggered, indoor unit stops and Operation/Stop operation by the remote controller is restricted.
- When forced stop function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

■ Operation/Stop mode 2

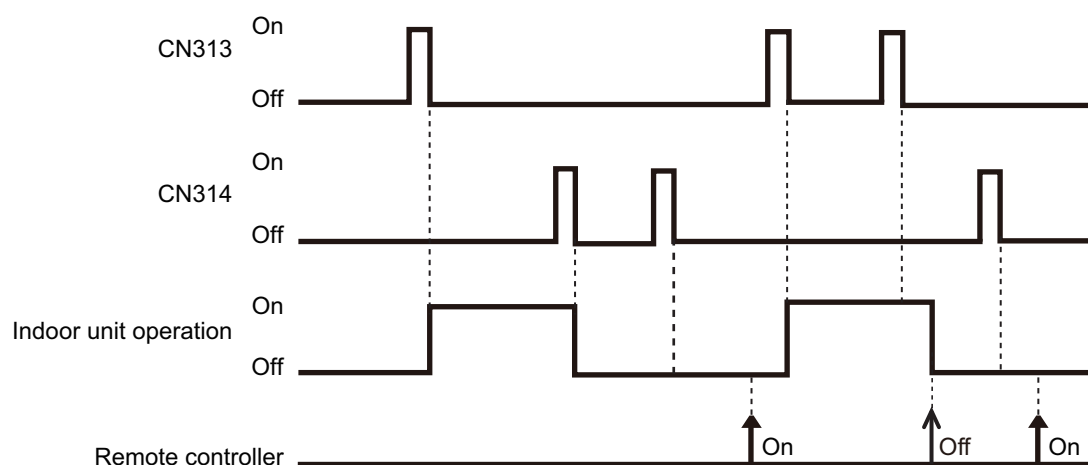
- In the case of “Edge” input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW302				
46-03	—		Input of indoor unit	CN46	Off → On	Operation (R.C. enabled)
					On → Off	Stop (R.C. disabled)
	1	Edge	External Input and Output PCB	CN313	Off → On	Operation (R.C. enabled)
					On → Off	Stop (R.C. disabled)



- In the case of “Pulse” input

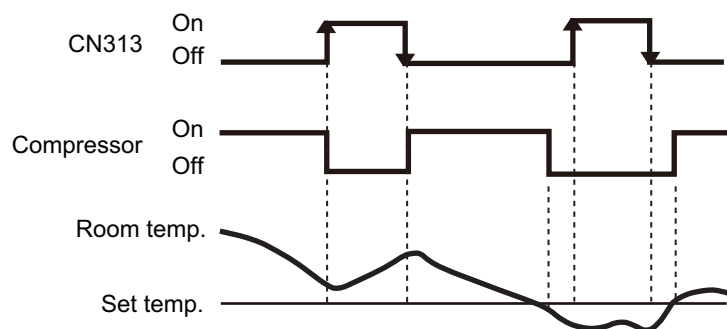
Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW302				
46-03	1	Pulse	External Input and Output PCB	CN313	Pulse	Operation (R.C. enabled)
				CN314		Stop (R.C. disabled)



NOTE: When “Operation/Stop” mode 2 function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

■ Forced thermostat off

External Input and Output PCB	External input		Input signal	Command
Rotary switch				
2, B, C, D	External Input and Output PCB	CN313	Off → On	Thermostat off
			On → Off	Normal operation

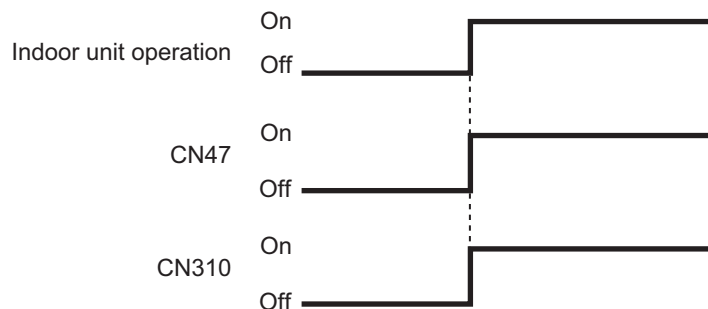


9-5. Details of control output function

■ Operation status

Function setting	External Input and Output PCB	External output		Output signal	Status
	Rotary switch				
60-00	1, 2	Output of indoor unit	CN47	Off → On	Operation
				On → Off	Stop
—	1, B, C, D	External Input and Output PCB	CN310	Off → On	Operation
				On → Off	Stop

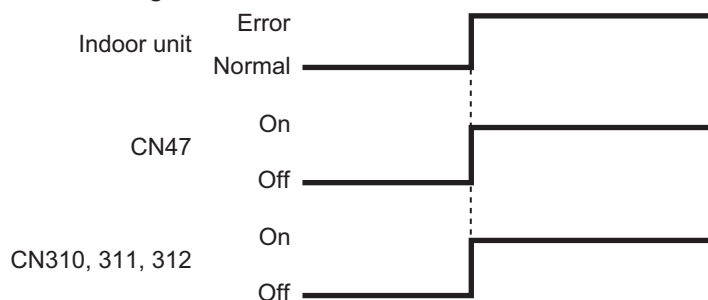
The output is low when the unit is stopped.



■ Error status

Function setting	External Input and Output PCB	External output		Output signal	Status
	Rotary switch				
60-09	—	Output of indoor unit	CN47	Off → On	Error
				On → Off	Normal
—	2	External Input and Output PCB	CN310	Off → On	Error
				On → Off	Normal
—	1, C	External Input and Output PCB	CN311	Off → On	Error
				On → Off	Normal
—	D	External Input and Output PCB	CN312	Off → On	Error
				On → Off	Normal

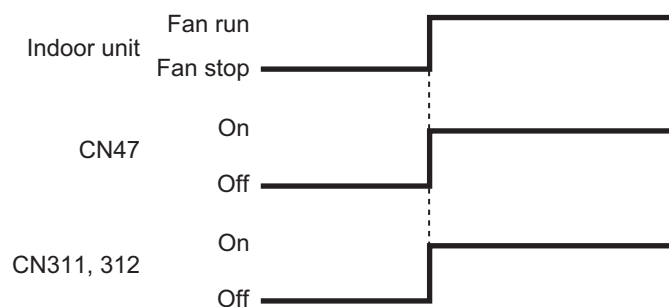
The output is on when an error is generated for the indoor unit.



Indoor unit fan operation status

Function setting	External Input and Output PCB	External output		Output signal	Status
	Rotary switch				
60-10	C	Output of indoor unit	CN47	Off → On	Fan run
				On → Off	Fan stop
—	2, B, D	External Input and Output PCB	CN311	Off → On	Fan run
				On → Off	Fan stop
—	1	External Input and Output PCB	CN312	Off → On	Fan run
				On → Off	Fan stop

Output signal	Condition
On	The indoor unit fan is operating.
Off	The fan is stopped or during cold air prevention. During thermostat off when in dry mode operation.



10. Group connection

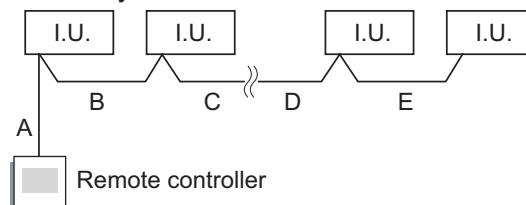
NOTE: Group control cannot be used together with WLAN Adapter.

Installation procedure for group control system:

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

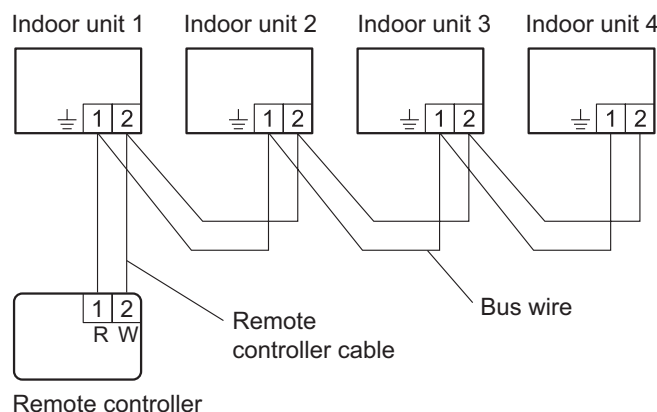
NOTE: When different type of indoor units (such as wall-mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.

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



A, B, C, D, E: Remote controller cable		
Wiring length limitation	UTY-RVRY	$A + B + C + D + E \leq 70 \text{ m}$
	Other than UTY-RVRY	$A + B + C + D + E \leq 500 \text{ m}$

Example of wiring method



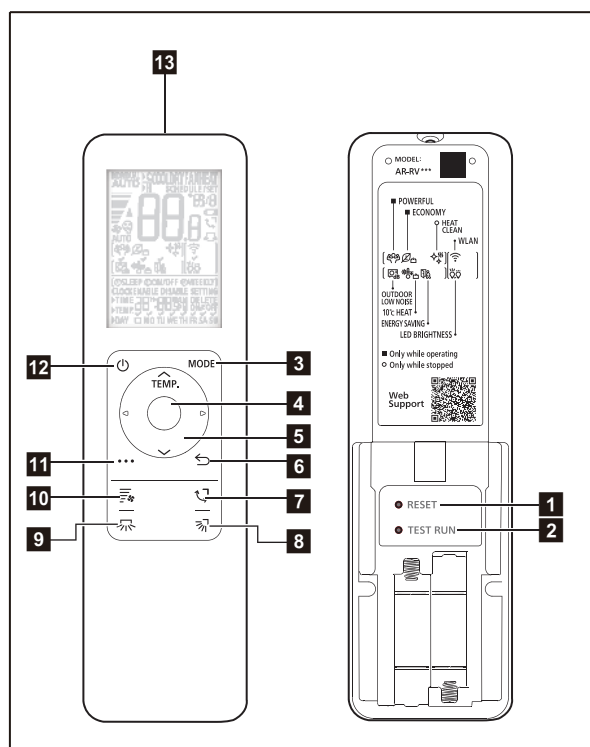
2. Automatic address setting

After the remote controller connection in the system, the automatic address setting runs in the initial starting up. Do not change the remote controller address for the indoor unit.

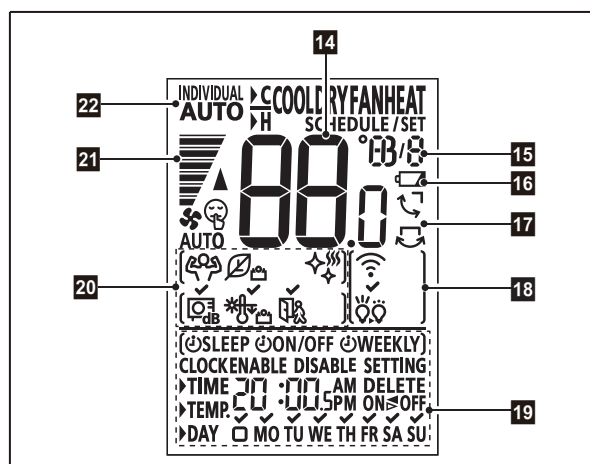
11. Remote controller

11-1. Wireless remote controller

Overview



Display panel



NOTES:

- Functions may differ by type of the indoor unit. For details, refer to the operation manual.
- In actual operation, the remote controller shows only the indicators that are appropriate for the current process.

1 RESET button

2 TEST RUN button

- If this button is pressed during normal operation, the indoor unit will switch to test operation mode, and the operation indicator lamp and the timer indicator lamp on the indoor unit will begin to flash simultaneously.
- To stop the test operation mode, press the START/STOP button. Then, the air conditioner stops the operation.

3 MODE button

4 Determine the selected menu item

5 TEMP./SELECT button

- Adjusts the setting temperature.
- Adjusts the value of the timer settings.
- Sets the remote controller code.
- Select a menu item.

6 Return the previous step

7 SWING button (Automatic swing)

8 SET button (Up/down airflow)

9 SET button (Left/right airflow)

10 FAN SPEED button

11 MENU button

12 START/STOP button

13 Signal transmitter

14 Temperature indicator

15 Display area for the following

- Backlight brightness settings
- Temperature unit
- A/B pattern and SET number for weekly timer

16 Battery indicator

17 Swing indicator

18 Environment settings

Refer to the back of the remote controller for each icon.

19 Clock and timer indicator

20 Functions menu

Refer to the back of the remote controller for each icon.

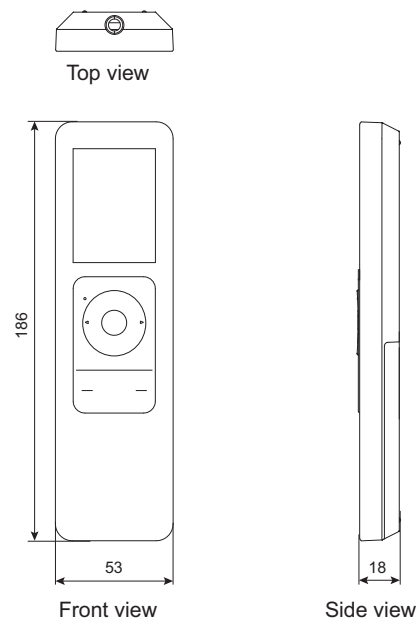
21 Fan speed indicator

22 Auto mode type indicator

■ Specifications

● Controller

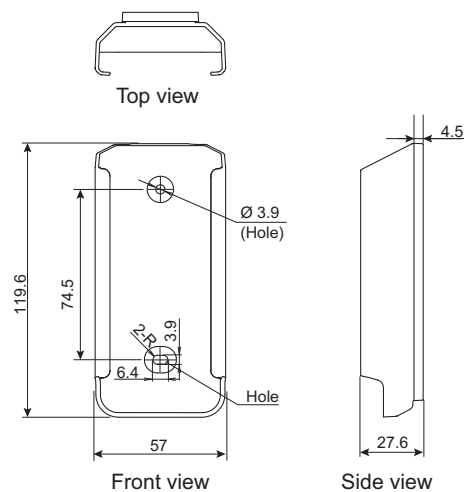
Unit: mm



Size (H × W × D)	mm	186 × 53 × 18
Weight	g	116 (without batteries)

● Holder

Unit: mm



Size (H × W × D)	mm	119.6 × 57 × 27.6
Weight	g	28

12. 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.

12-1. 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 tightness 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.

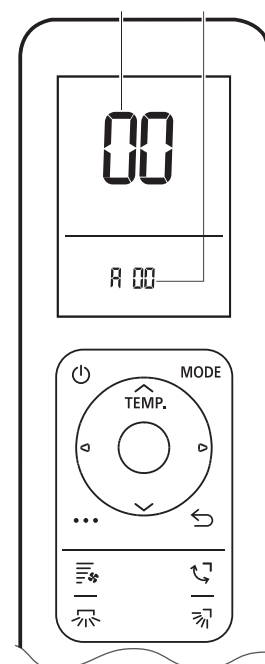
Entering function setting mode:

While pressing the  button and  button simultaneously, press the RESET button to enter the function setting mode.

Selecting the function number and setting value:

1. Press the / or / buttons to select the function number.
2. Press the MODE button to proceed to value setting. To return the function number selection, press the MODE button again.
3. Press the / or / buttons to select the setting value.
4. Press the  button once. Confirm that you hear the beep.
5. Press the START/STOP() button to fix the function setting. Confirm that you hear the beep.
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.

Function number
Setting value



⚠ 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.

■ 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)	11	Filter sign
2)	30/31	Room temperature control for indoor unit sensor
3)	35/36	Room temperature control for wired remote controller sensor
4)	40	Auto restart
5)	42	Room temperature sensor switching
6)	44	Remote controller custom code
7)	46	External input control
8)	48	Room temperature sensor switching (Aux.)
9)	49	Indoor unit fan control for energy saving for cooling
10)	60	Switching functions for external output terminal
11)	84	Wired Remote Controller function extension setting

1) Filter sign

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

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

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	◆

2) 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 of the room temperature sensor is corrected as follows:

Corrected temp. = Temp. of the room temp. sensor - Correction temp. value

Example of correction:

When the temperature of the room temp. sensor is 26°C and the setting value is "03" (-1.0°C), corrected temp. will be 27°C (26°C - [-1.0°C]).

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	

3) 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	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) 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.

5) 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.

6) 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	

7) 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 (Remote controller enabled)	◆
	01	(Setting prohibited)	
	02	Forced stop mode	
	03	Operation/Stop mode 2 (Remote controller disabled)	

8) 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	

9) 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.

NOTE: 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.

10) Switching functions for external output terminal

Functions of the external output terminal can be switched. For details, refer to “External input and output”.

Function number	Setting value	Setting description	Factory setting
60	00	Operation status	◆
	01—08	(Setting prohibited)	
	09	Error status	
	10	Indoor unit fan operation status	
	11	(Setting prohibited)	

11) Wired Remote Controller function extension setting

Enables the “POWERFUL”, “10 °C HEAT”, or “OUTDOOR LOW NOISE” operation when connecting the Wired Remote Controller (UTY-RVRY).

Function number	Setting value	Setting description	Factory setting
84	00	Disable	◆
	01	Enable	

- Refer to the operation manual of the air conditioner to check whether it supports each function.
- All indoor units must have the same setting value in a Group Control system.

12-2. Custom code setting for wireless remote controller

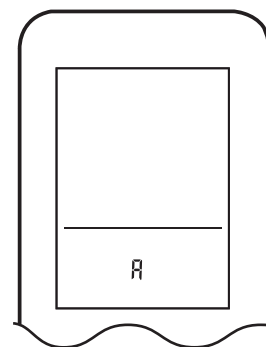
To interconnect the air conditioner and the wireless remote controller, assignment of the custom code for the wireless remote controller is required.

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 the indicators on the remote controller turn off.
2. Press the MODE button for at least 5 seconds to display the current custom code. (Initially set to $\overline{A}$.)
3. Press the $\wedge/\vee$ or $\triangle/\square$ 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.

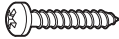
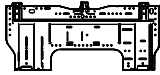
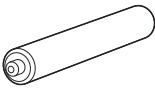
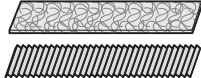


NOTES:

- If no button is pressed within 30 seconds after the custom code is displayed, the displayed custom code will be set.
- The air conditioner custom code is set to $\overline{A}$ prior to shipment. To change the custom code, contact your retailer.
- Depending on the remote controller, the custom code may return to $\overline{A}$ when replacing the batteries. In this case, reset the custom code as necessary.
- 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.

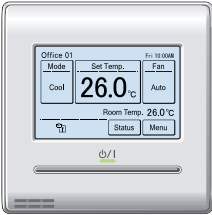
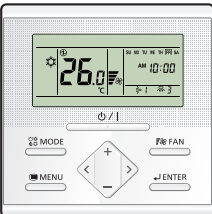
13. Accessories

13-1. Models: ASEH07KJCAL, ASEH09KJCAL, ASEH12KJCAL, ASEH14KJCAL, ASEH07KJCALB, ASEH09KJCALB, ASEH12KJCALB, and ASEH14KJCALB

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Self-tapping screw (Large)		5
Installation manual		1	Self-tapping screw (Small)		2
Remote controller		1	Wall hook bracket		1
Battery		2	Filter holder		2
Remote controller holder		1	Cloth tape		1
Installation spacer		1	Air cleaning filters		1

14. Optional parts

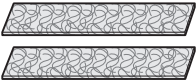
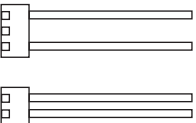
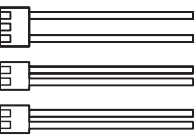
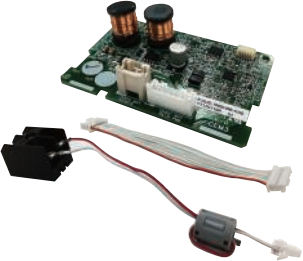
14-1. Controllers

Exterior	Part name	Model name	Summary
	Wired Remote Controller (Touch Panel)	UTY-RVRY	Remote controller that provides the functions you need in a sleek design that uniquely transforms itself to blend with any interior. Optional Communication Kit is necessary for installation.
	Wired Remote Controller (Touch Panel)	UTY-RNRYZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Optional Communication Kit is necessary for installation.
	Wired Remote Controller	UTY-RLRY	High visibility and easy operation. Room temperature can be accurately controlled using the thermo sensor. Optional Communication Kit is necessary for installation.
	Compact Wired Remote Controller	UTY-RCRYZ1	Compact body and easy operation. Room temperature can be accurately controlled using the thermo sensor. Optional Communication Kit is necessary for installation.
	Simple Remote Controller	UTY-RSRY	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Optional Communication Kit is necessary for installation.
	Simple Remote Controller	UTY-RHRY	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting. Optional Communication Kit is necessary for installation.

NOTES:

- Available functions may differ by the remote controller. For details, refer to the operation manual.
- When using the group controlling system of the Wired Remote Controller, using WLAN Adapter is prohibited.

14-2. Others

Exterior	Part name	Model name	Summary
	Air Cleaning Filter	UTR-FA16-5	Air Cleaning Filter can be mounted to the indoor unit. (For antibacterial)
	External Connect Kit	UTY-XWZX	Use to connect with various peripheral devices and air conditioner PCB. Connecting point: CN46 and CN47 on Main PCB
	External Connect Kit	UTY-XWZXZ5	Required when external device is connected. Connecting point: CN46 and CN47 on Main PCB
	External Input and Output PCB	UTY-XCSXZ2	Use to connect with external devices and air conditioner PCB. Optional External Connect Kit might be required to connect locally purchased devices via this PCB. Connecting point: CN65 on Main PCB
	Communication Kit	UTY-TWRXZ2	Use to connect Non-polar 2-core wired remote controller. Connecting point: CN13 on Main PCB
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network. Connecting point: CN65 on Main PCB
	KNX Converter	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network. Connecting point: CN65 on Main PCB
	Network Converter	UTY-VTGX	This converter is required when connecting single split system to VRF network system. Optional Communication Kit is necessary for installation.
	Network Converter (AC power supply)	UTY-VTGXV	This converter is required when connecting single split system to VRF network system. Optional Communication Kit is necessary for installation.
	External Switch Controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches. Optional Communication Kit is necessary for installation.

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOEH07KJCA

AOEH09KJCA

AOEH12KJCA

AOEH14KJCA

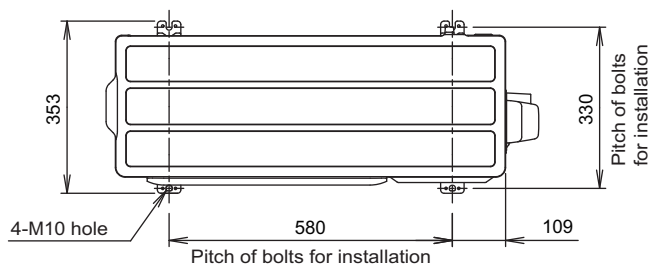
1. Specifications

Type				Inverter, Heat pump			
Model name				AOEH07KJCA	AOEH09KJCA	AOEH12KJCA	AOEH14KJCA
Power supply				230 V~ 50 Hz			
Power supply intake				Outdoor unit			
Available voltage range				198—264 V			
Starting current			A	2.9	3.4	4.6	6.6
Fan	Airflow rate	Cooling	m³/h	1,390	1,480	1,690	
		Heating		1,350	1,420	1,690	1,860
	Type × Qty			Propeller fan × 1			
Motor output			W	23			
Sound pressure level *		Cooling	dB (A)	42	44	47	
		Heating		42	44	47	52
Sound power level		Cooling	dB (A)	55	56	58	59
		Heating		54	55	59	63
Heat exchanger type		Dimensions (H × W × D)	mm	Main 1: 504 × 888 × 18.19 Main 2: 504 × 510 × 18.19		Main 1: 504 × 881 × 18.19 Main 2: 504 × 851 × 18.19	
		Fin pitch		Main 1: 1.3 Main 2: 1.3			
		Rows × Stages		Main 1: 1 × 24 Main 2: 1 × 24			
		Pipe type		Copper tube			
		Fin type	Type (Material)	Aluminum			
			Surface treatment	Blue fin			
Compressor	Type			DC rotary			
	Motor output	W	600				
Refrigerant		Type (Global warming potential)	R32 (675)				
		Charge	g	720	870		
Refrigerant oil		Type	RB74AF				
		Amount	cm³	280			
Enclosure		Material	Steel sheet				
		Color	Beige				
Dimensions (H × W × D)				Approximate color of Munsell 10YR 7.5/1.0			
		Net		542 × 799 × 290			
Weight		Gross		602 × 940 × 375			
		Net	kg	30	31		
		Gross		35	36		
		Size	Liquid	Ø6.35 (Ø1/4)			
	Gas		Ø9.52 (Ø3/8)				
Connection pipe		Method		Flare			
		Pre-charge length		15			
		Min. length		3			
		Max. length		20			
		Max. height difference		15			
Operation range		Cooling	°C	-10 to 50			
		Heating		-20 to 24			
Drain hose		Material	Polypropylene				
		Tip diameter	mm	Ø13.0 (I.D.), Ø16.0 to Ø16.8 (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/—°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. *: Sound pressure level - Measured values in manufacturer's semi-anechoic chamber. - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here. - This data is based on EN 14511 standard.							

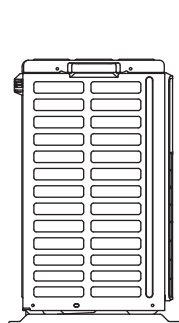
2. Dimensions

2-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA

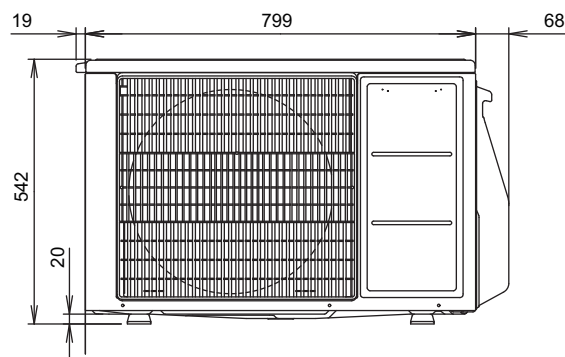
Unit: mm



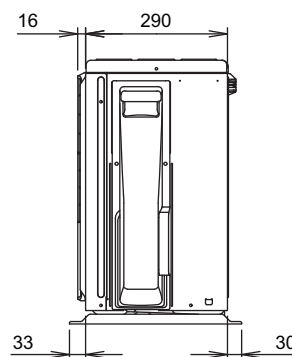
Top view



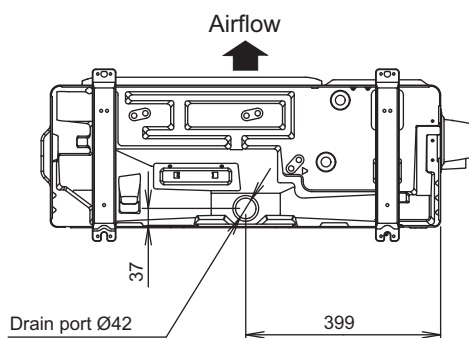
Side view



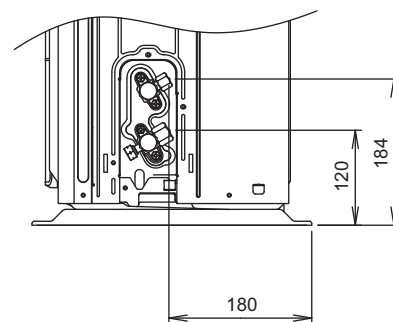
Front view



Side view



Bottom view



Side view (Valve part)

3. Installation space

3-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

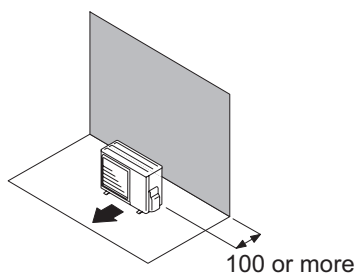
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

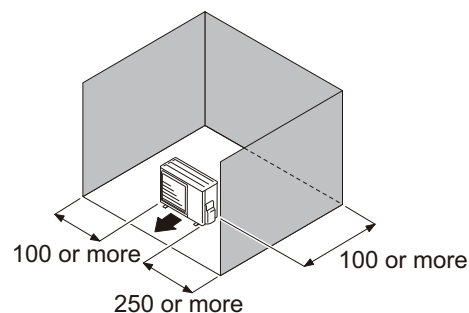
- When the upper space is open:

Unit: mm

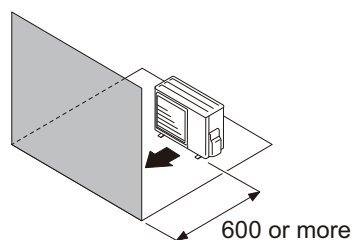
Obstacles at rear only



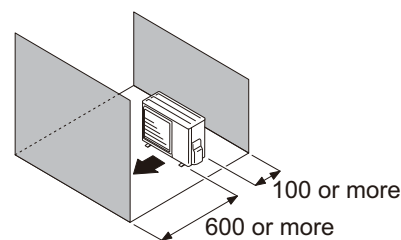
Obstacles at rear and sides



Obstacles at front



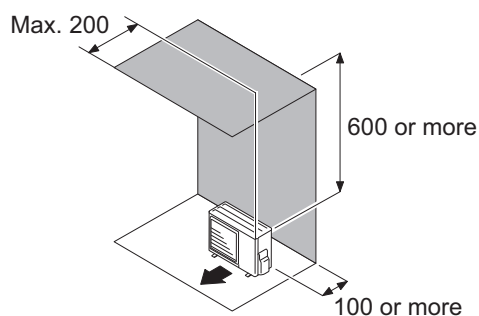
Obstacles at front and rear



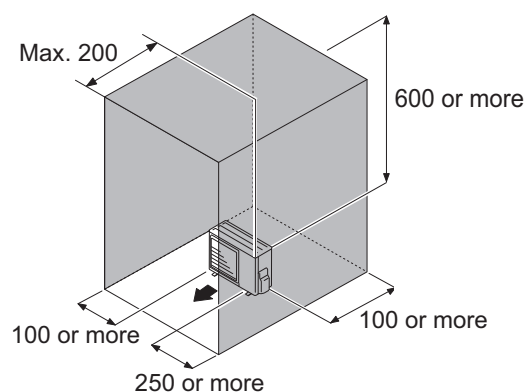
- When an obstruction in the upper space:

Unit: mm

Obstacles at rear and above



Obstacles at rear, sides, and above



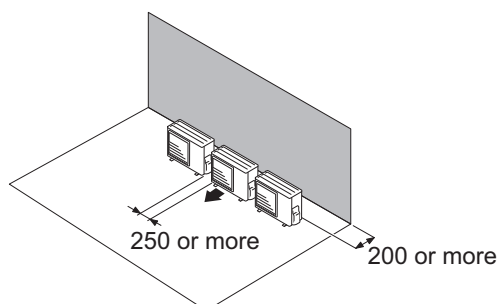
● Multiple outdoor unit installation

- Provide at least 250 mm of space between the outdoor units if multiple units are installed.
- When routing the piping from the side of an outdoor unit, provide space for piping.
- No more than 3 units must be installed side by side.
When 4 units or more are arranged in a line, provide the space as shown in the following example **“When an obstruction in the upper space:”**.

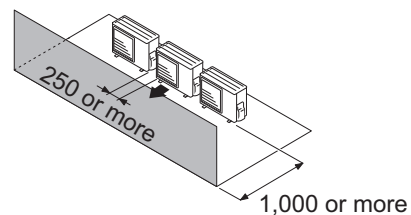
- **When the upper space is open:**

Unit: mm

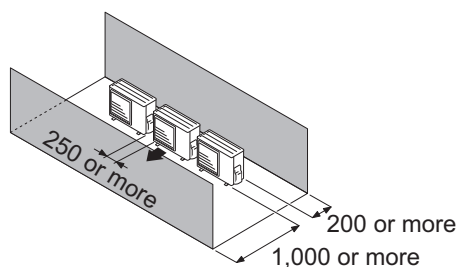
Obstacles at rear only



Obstacles at front only



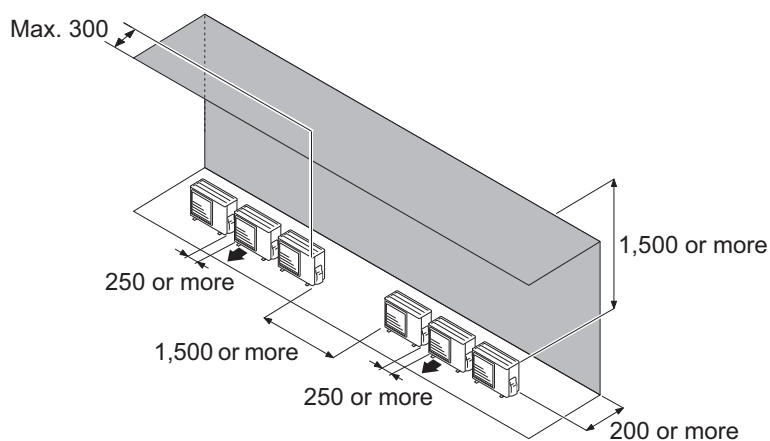
Obstacles at front and rear



- **When an obstruction in the upper space:**

Unit: mm

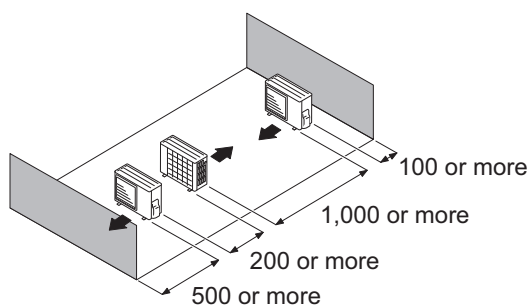
Obstacles at rear and above.



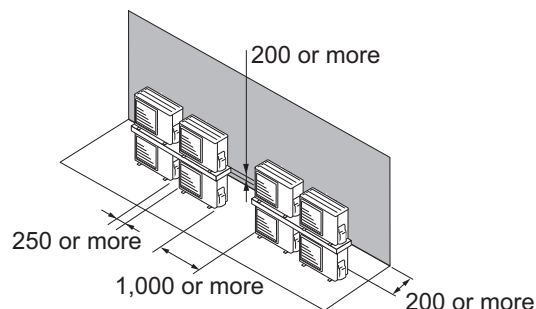
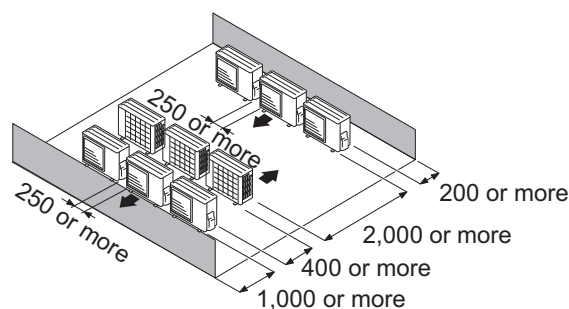
● Outdoor units installation in multi-row

Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement

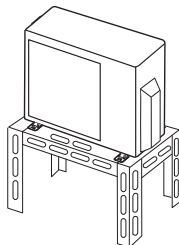


NOTES:

- 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.

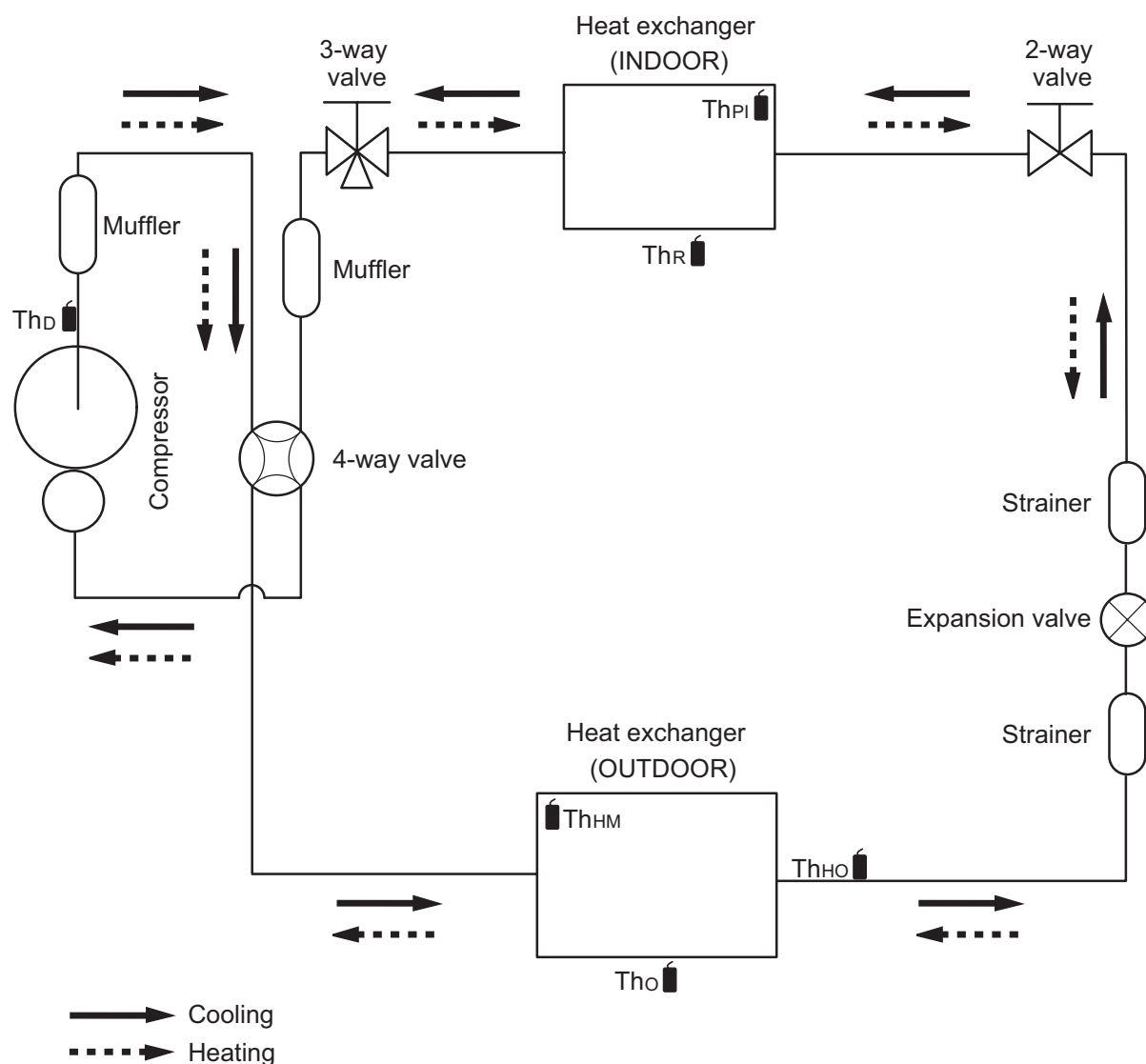
⚠ CAUTION

- 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. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA



ThD : Thermistor (Discharge temperature)

ThHM : Thermistor (Heat exchanger middle temperature)

Tho : Thermistor (Outdoor temperature)

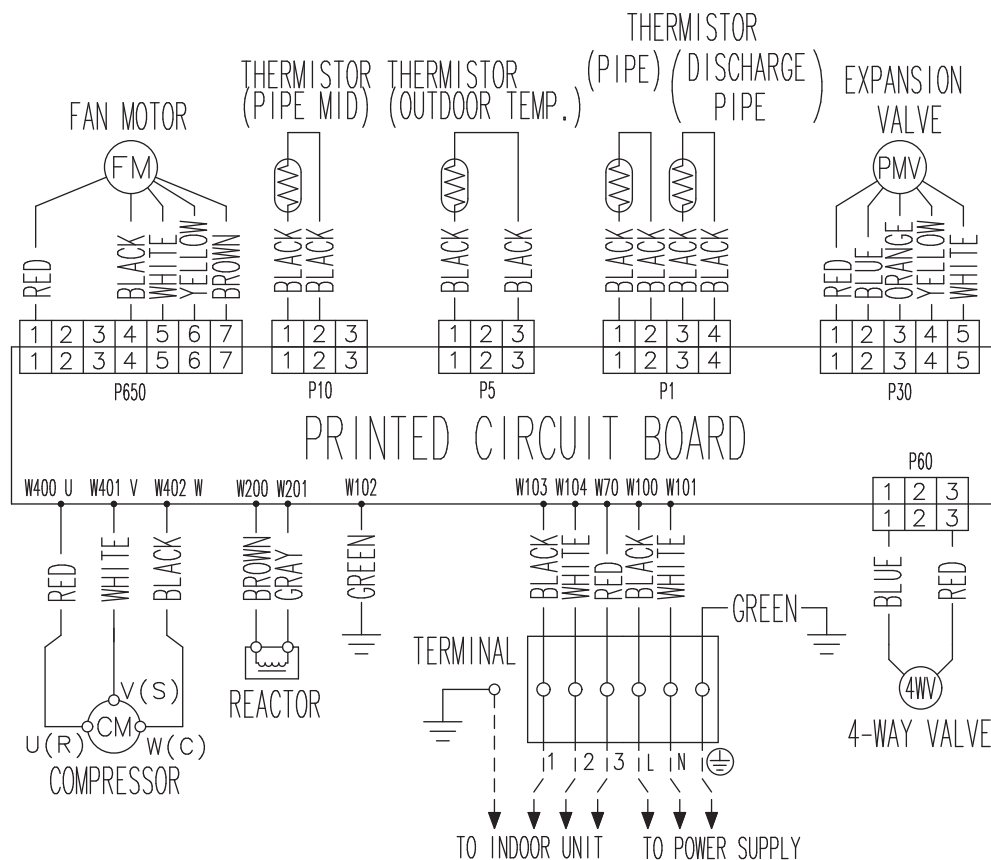
ThHO : Thermistor (Heat exchanger out temperature)

ThPI : Thermistor (Pipe temperature)

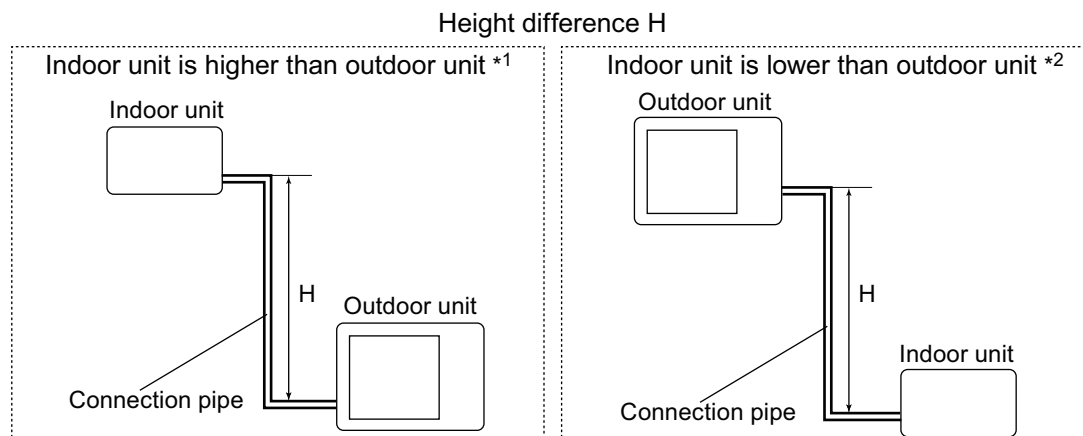
ThR : Thermistor (Room temperature)

5. Wiring diagrams

5-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA



6. Capacity compensation rate for pipe length and height difference



6-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA

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

COOLING			Pipe length (m)					
			3	5	7.5	10	15	20
Height difference H (m)	Indoor unit is higher than outdoor unit *1	15	—	—	—	—	0.858	0.868
		10	—	—	—	0.929	0.872	0.882
		7.5	—	—	0.960	0.933	0.876	0.885
		5	—	0.992	0.964	0.937	0.879	0.889
		3	1.039	0.996	0.968	0.940	0.884	0.892
	Indoor unit is lower than outdoor unit *2	0	1.043	1.000	0.972	0.944	0.887	0.896
		-3	1.043	1.000	0.972	0.944	0.887	0.896
		-5	—	1.000	0.972	0.944	0.887	0.896
		-7.5	—	—	0.972	0.944	0.887	0.896
		-10	—	—	—	0.944	0.887	0.896

HEATING			Pipe length (m)					
			3	5	7.5	10	15	20
Height difference H (m)	Indoor unit is higher than outdoor unit *1	15	—	—	—	—	0.896	0.879
		10	—	—	—	0.968	0.896	0.879
		7.5	—	—	0.994	0.968	0.896	0.879
		5	—	1.000	0.994	0.968	0.896	0.879
		3	1.032	1.000	0.994	0.968	0.896	0.879
	Indoor unit is lower than outdoor unit *2	0	1.032	1.000	0.994	0.968	0.896	0.879
		-3	1.030	0.998	0.992	0.966	0.894	0.877
		-5	—	0.995	0.989	0.963	0.891	0.875
		-7.5	—	—	0.987	0.961	0.889	0.873
		-10	—	—	—	0.959	0.887	0.871

7. Additional charge calculation

7-1. Models: AOEH07KJCA and AOEH09KJCA

Refrigerant type		R32
Factory charge amount	g	720

■ Refrigerant charge

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

7-2. Models: AOEH12KJCA and AOEH14KJCA

Refrigerant type		R32
Factory charge amount	g	870

■ Refrigerant charge

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

8. Airflow

8-1. Model: AOEH07KJCA

● Cooling

m ³ /h	1,390
l/s	386
CFM	818

● Heating

m ³ /h	1,350
l/s	375
CFM	795

8-2. Model: AOEH09KJCA

● Cooling

m ³ /h	1,480
l/s	411
CFM	871

● Heating

m ³ /h	1,420
l/s	394
CFM	836

8-3. Model: AOEH12KJCA

● Cooling

m ³ /h	1,690
l/s	469
CFM	995

● Heating

m ³ /h	1,690
l/s	469
CFM	995

8-4. Model: AOEH14KJCA

● Cooling

m ³ /h	1,690
l/s	469
CFM	995

● Heating

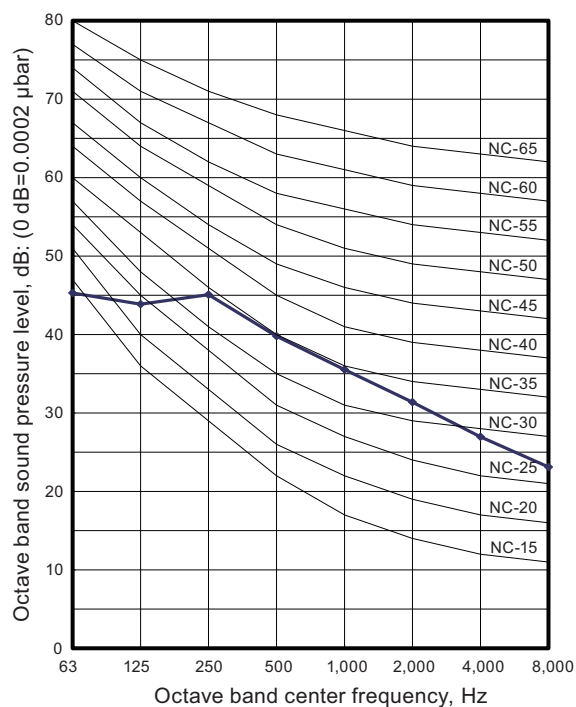
m ³ /h	1,860
l/s	517
CFM	1,095

9. Operation noise

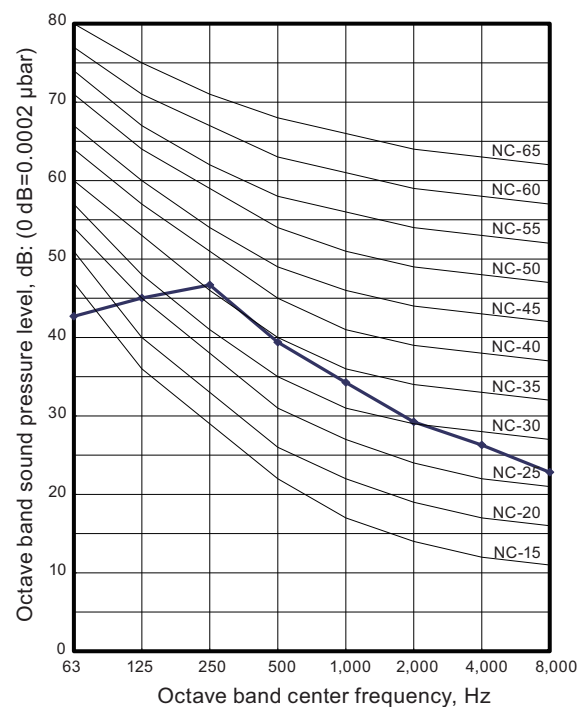
9-1. Noise level curve (sound pressure)

■ AOEH07KJCA

● Cooling

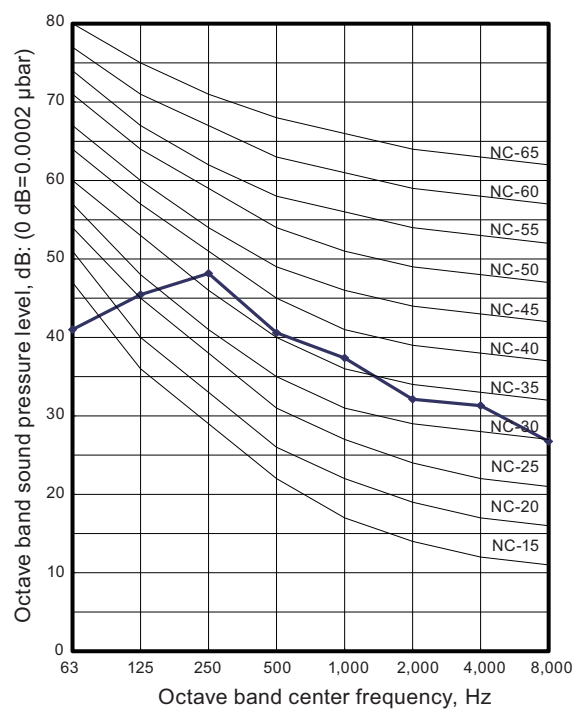


● Heating

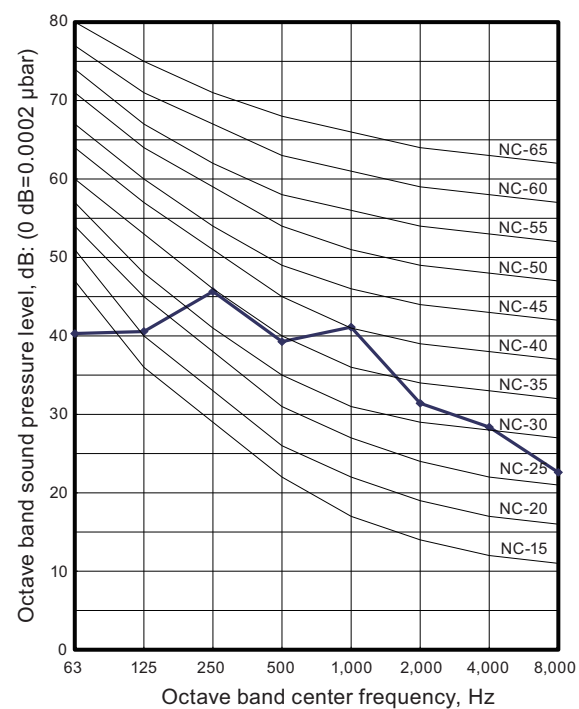


■ AOEH09KJCA

● Cooling

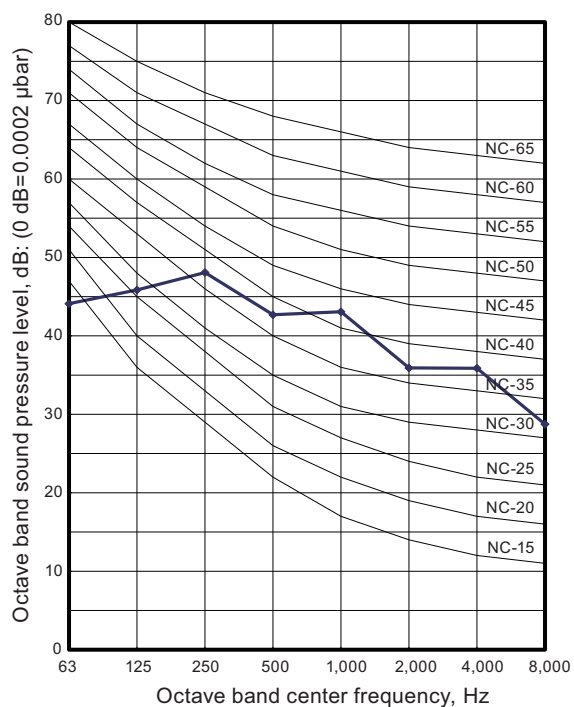


● Heating

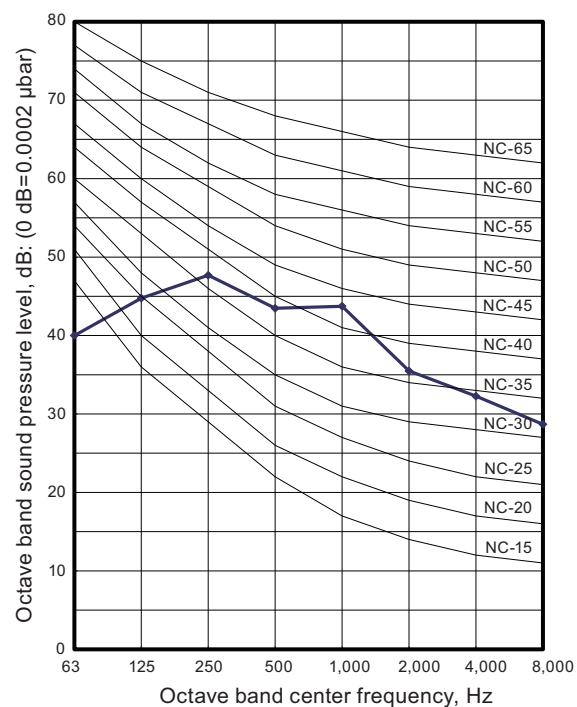


■ AOEH12KJCA

● Cooling

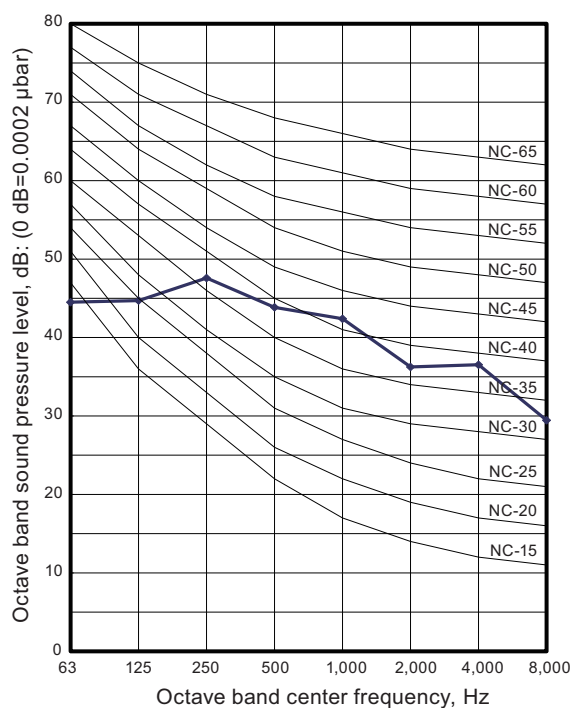


● Heating

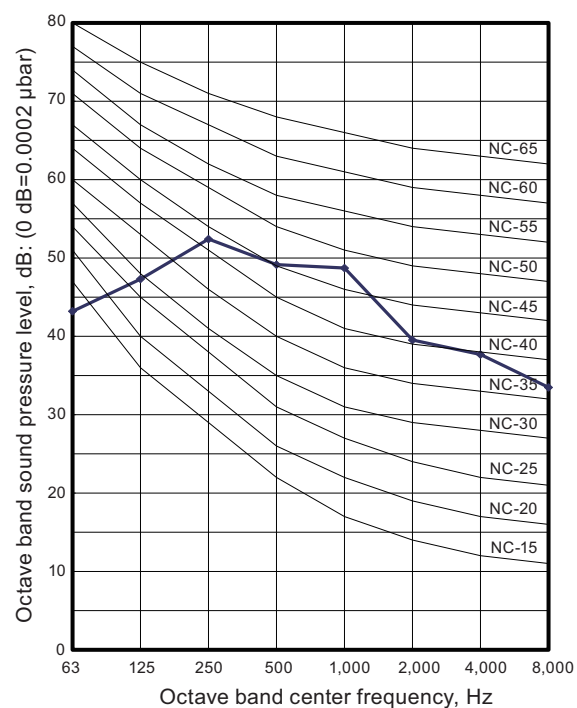


■ AOEH14KJCA

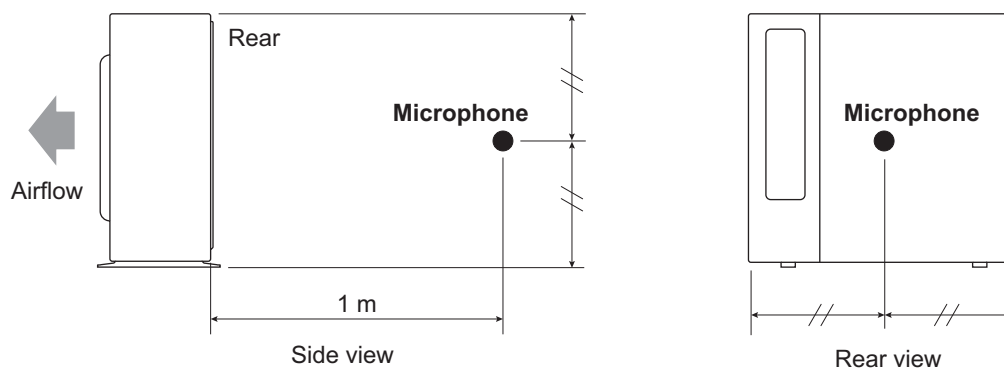
● Cooling



● 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				AOEH07KJCA		AOEH09KJCA			
Power supply		Voltage		V		230			
		Frequency		Hz		50			
Max operating current* ¹				A		9.0			
Starting current				A		2.9		3.4	
Wiring spec.* ²		Circuit breaker current		A		10			
		Power cable		mm ²		1.0			
		Connection cable* ³	Cross-sectional area	mm ²		1.5			
			Limited wiring length	m		21			

Model name			AOEH12KJCA		AOEH14KJCA			
Power supply	Voltage		V		230			
	Frequency		Hz		50			
Max operating current* ¹			A		9.0			
Starting current			A		4.6		6.6	
Wiring spec.* ²	Circuit breaker current		A		10			
	Power cable		mm ²		1.0			
	Connection cable* ³	Cross-sectional area	mm ²		1.5			
		Limited wiring length	m		21			

NOTES:

- *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

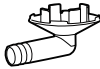
Type of protection	Protection form		Model	
			AOEH07KJCA	AOEH09KJCA
Circuit protection	Current fuse (Main PCB)		250 V, 20 A	
			250 V, 5 A	
Fan motor protection	Terminal protection program	Activate	103 ±18°C Fan motor stop	
		Reset	95 ±18°C Fan motor restart	
Compressor protection	Terminal protection program (Discharge temp.)	Activate	110°C Compressor stop	
		Reset	After 7 minutes Compressor restart	
Terminal protection program (Outdoor temp.) (Only in COOL or DRY mode)		Activate	-15°C Compressor stop	
		Reset	-10°C Compressor restart	

Type of protection	Protection form		Model	
			AOEH12KJCA	AOEH14KJCA
Circuit protection	Current fuse (Main PCB)		250 V, 20 A	
			250 V, 5 A	
Fan motor protection	Terminal protection program	Activate	103 ±18°C Fan motor stop	
		Reset	95 ±18°C Fan motor restart	
Compressor protection	Terminal protection program (Discharge temp.)	Activate	110°C Compressor stop	
		Reset	After 7 minutes Compressor restart	
Terminal protection program (Outdoor temp.) (Only in COOL or DRY mode)		Activate	-15°C Compressor stop	
		Reset	-10°C Compressor restart	

*PCB: Printed Circuit Board

12. Accessories

12-1. Models: AOEH07KJCA, AOEH09KJCA, AOEH12KJCA, and AOEH14KJCA

Part name	Exterior	Qty	Part name	Exterior	Qty
Installation manual		1	Drain pipe		1