AIRSTAGE

AIR CONDITIONER

Wall-mounted type

FUJITSU

REFRIGERANT R32

INVERTER

DESIGN & TECHNICAL MANUAL

INDOOR

ASEH18KLCBL
ASEH24KLCBL

OUTDOOR

AOEH18KLCB

AOEH24KLCB

GENERAL Inc.

DR_AS267ES_01
2026.03.18

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Part 1. INDOOR UNIT

WALL-MOUNTED TYPE:
ASEH18KLCBL
ASEH24KLCBL

1. Specifications

Type					Wall mounted	
					Inverter, Heat pump	
Model name					ASEH18KLCBL	ASEH24KLCBL
Power supply intake					Outdoor unit	
System power supply	Voltage			V	230	
	Frequency			Hz	50	
	Available voltage range			V	198—264	
Indoor unit power supply (from outdoor unit)				V	230	
Capacity	Cooling	Rated		kW	5.2	7.1
				Btu/h	17,700	24,200
		Min.—Max.		kW	0.9—5.5	0.9—7.7
				Btu/h	3,000—18,700	3,000—26,200
	Heating	Rated		kW	6.3	8.0
				Btu/h	21,400	27,200
		Min.—Max.		kW	0.6—7.6	0.9—9.0
				Btu/h	2,000—25,900	3,000—30,700
Input power	Cooling	Rated		kW	1.73	2.42
		Min.—Max.			0.14—2.09	0.18—2.74
	Heating	Rated			1.80	2.23
		Min.—Max.			0.10—1.93	0.15—2.66
	Fan	HIGH		W	32	57
		MED			25	34
		LOW			16	17
		QUIET			10	10.5
Current	Cooling	Rated		A	7.7	10.9
	Heating				8.0	10.0
Energy efficiency class	Cooling				A^{++}	A^{++}
	Heating (Average)				A^{+}	A^{+}
Pdesign	Cooling			kW	5.2	7.1
	Heating (Average)				4.8	7.1
Annual energy consumption	QCE			kWh/a	246	345
	QHE (Average)				1,560	2,482
SEER	Cooling			kWh/kWh	7.4	7.2
SCOP	Heating (Average)				4.3	4.0
EER	Cooling			kW/kW	3.01	2.93
COP	Heating				3.50	3.59
Sensible capacity	Cooling			kW	3.93	4.92
Power factor	Cooling			%	98.0	97.0
	Heating				98.0	97.0
Moisture removal				L/h (pints/h)	1.9 (3.3)	3.1 (5.5)
Maximum operating current*1	Cooling			A	9.5	13.5
	Heating				13.5	17.5
Fan	Airflow rate	Cooling	HIGH	m^3/h	865	1,040
			MED		780	880
			LOW		665	685
			QUIET		555	555
		Heating	HIGH		995	1,040
			MED		810	810
			LOW		700	695
			QUIET		590	585
	Type × Qty				Crossflow fan × 1	
	Motor output			W	61	
Sound pressure level*2	Cooling	HIGH		dB (A)	47	51
		MED			44	45
		LOW			40	38
		QUIET			35	33
	Heating	HIGH			50	52
		MED			45	45
		LOW			41	41
		QUIET			37	37
Sound power level	Cooling	HIGH		dB (A)	60	64
	Heating				65	65
Heat exchanger	Dimensions (H × W × D)			mm	Main: 384 × 630 × 20.0 Sub: 126 × 630 × 13.3	Main: 384 × 630 × 20.0 Sub1: 84 × 630 × 13.3 Sub2: 126 × 630 × 13.3
	Fin pitch				Main: 1.1 Sub: 1.4	Main: 1.1 Sub1: 1.4 Sub2: 1.4
	Rows × Stages				Main: 2 × 24 Sub: 1 × 6	Main: 2 × 24 Sub1: 1 × 4 Sub2: 1 × 6
	Pipe type				Copper tube	
	Fin type				Aluminum	
Enclosure	Material				Polypropylene	
	Color				White Approximate color of Munsell 9PB 9.1/0.2	
Dimensions (H × W × D)	Net			mm	293 × 790 × 249	
	Gross				320 × 840 × 375	
Weight	Net			kg	9.5	10.0
	Gross				12.5	13.0
Connection pipe	Size	Liquid		mm (in)	Ø6.35 (Ø1/4)	
		Gas			Ø9.52 (Ø3/8)	Ø12.70 (Ø1/2)
	Method				Flare	
Drain hose	Material				Polypropylene + High-density polyethylene	
	Tip diameter			mm	Ø13.8 (I.D.), Ø15.8 to Ø16.7 (O.D.)	
Operation range	Cooling			°C	18 to 32	
				%RH	80 or less	
	Heating			°C	16 to 30	
Remote controller type					Wireless (Option: Mobile app*3 [AIRSTAGE Mobile])	

WALL MOUNTED
ASEH18-24KLCBL

Type	Wall mounted	
	Inverter, Heat pump	
Model name	**ASEH18KLCBL**	**ASEH24KLCBL**

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: 5.0 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.

WALL MOUNTED
ASEH18-24KLCBL

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.

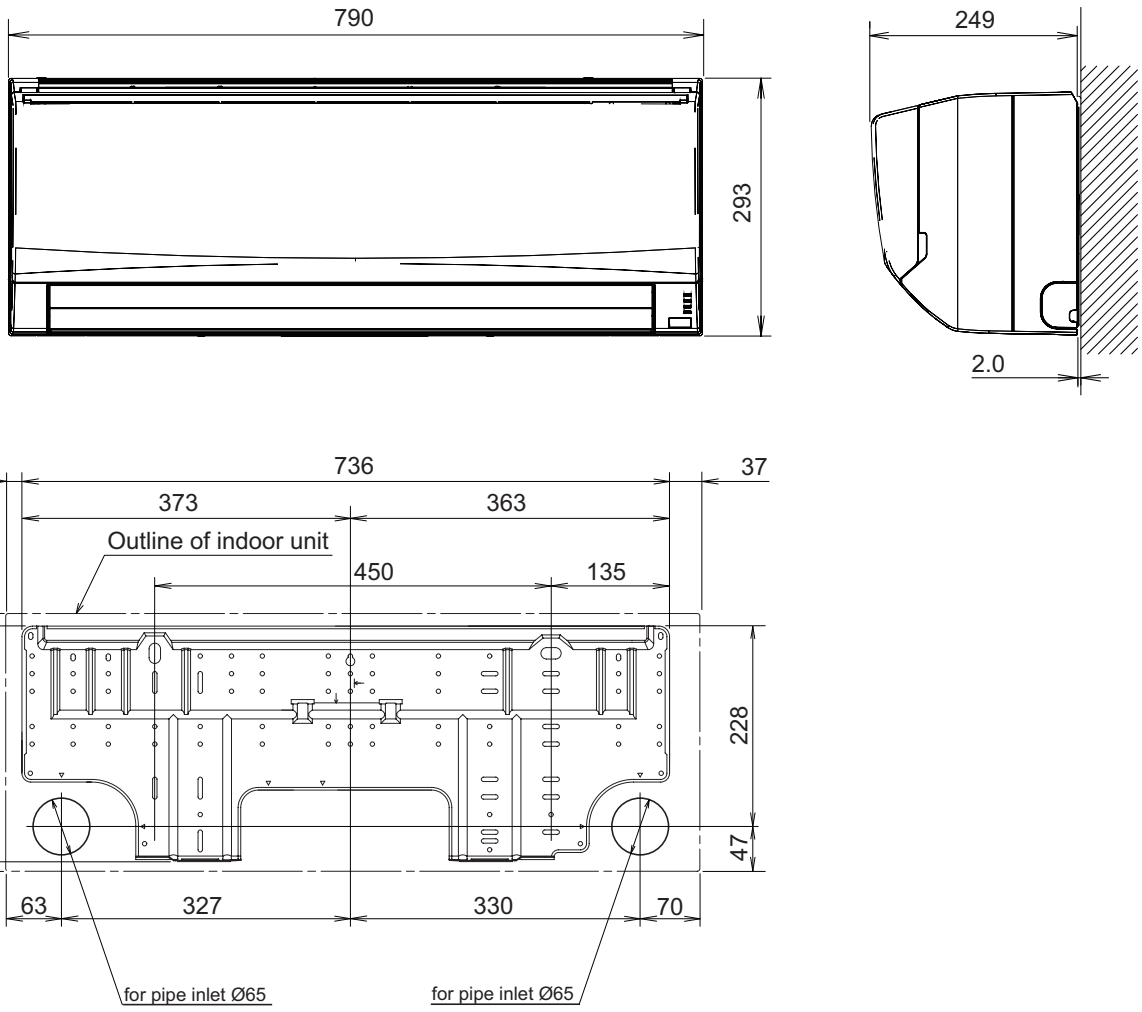
For the latest version of the wireless LAN control manuals, refer to the following web site.
https://www.generalww.com/global/support/

WALL MOUNTED
ASEH18-24KLCBL

3. Dimensions

3-1. Models: ASEH18KLCBL and ASEH24KLCBL

Unit: mm



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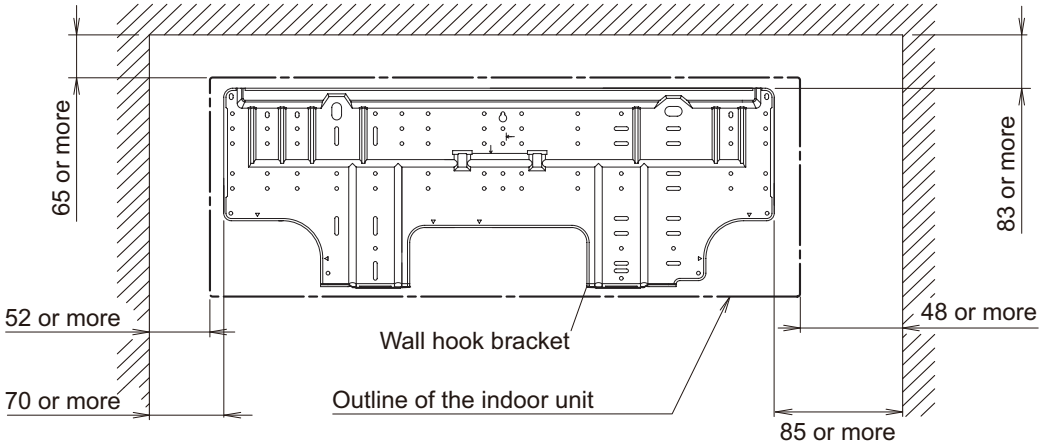
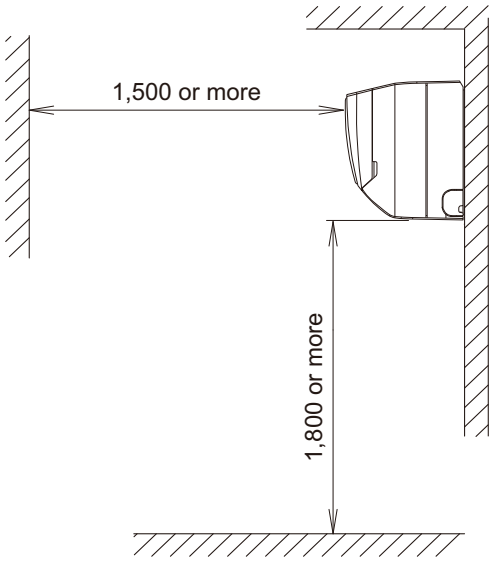
■ Installation space requirement

Provide sufficient installation space for product safety.

Unit: mm





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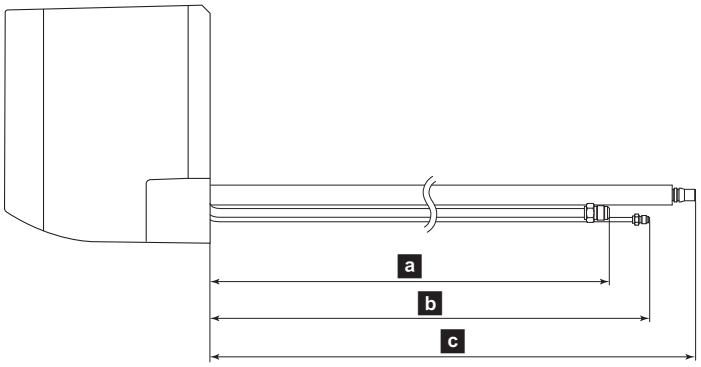
ASEH18-24KLCBL

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

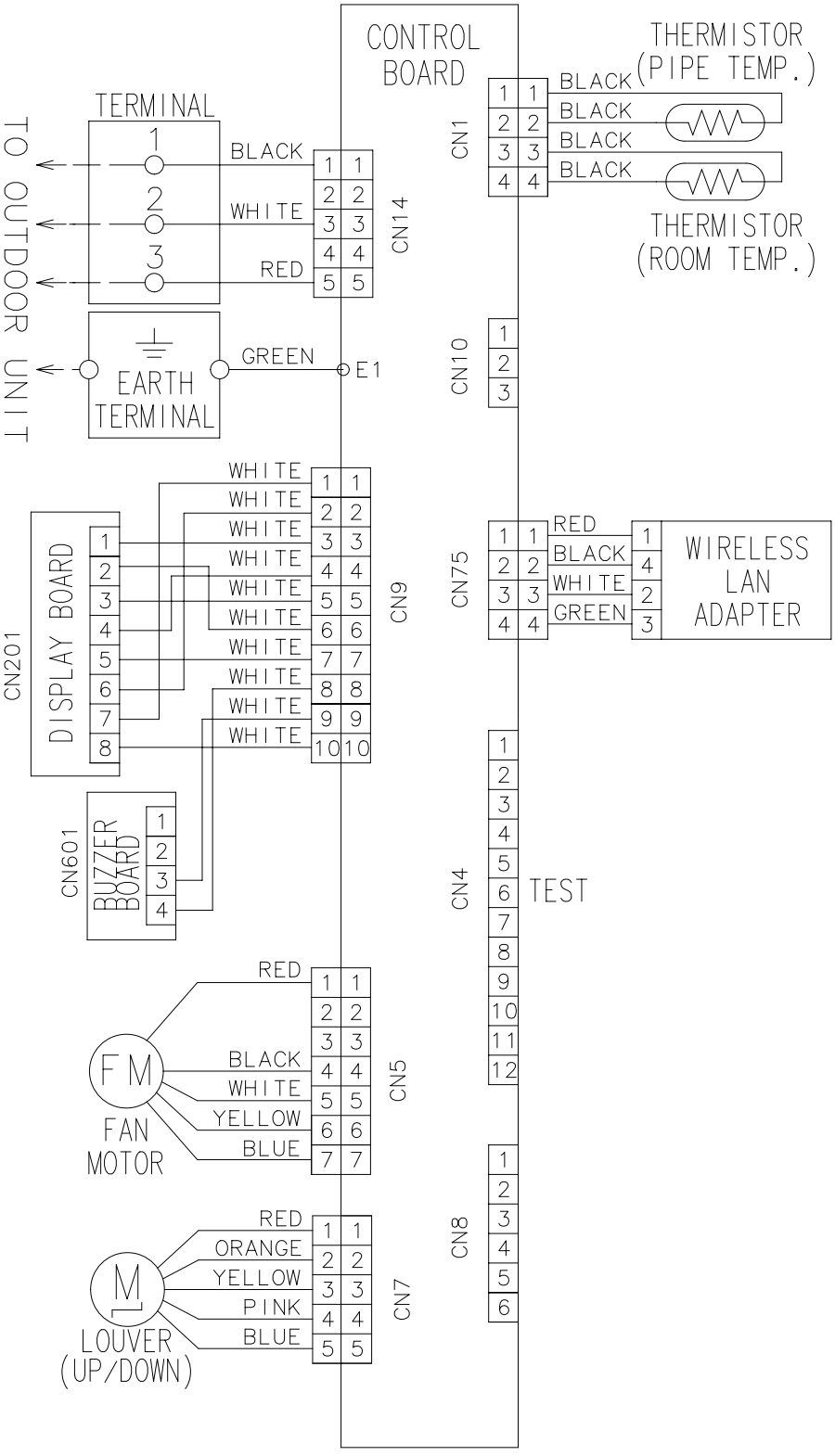


Model name	Approximate length		
	a Gas pipe	b Liquid pipe	c Drain hose
ASEH18KLCBL	415	470	515
ASEH24KLCBL	420	470	515

WALL MOUNTED
ASEH18-24KLCBL

4. Wiring diagrams

4-1. Models: ASEH18KLCBL and ASEH24KLCBL



WALL MOUNTED
ASEH18-24KLCBL

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

■ Model: ASEH18KLCBL

AFR	m^3/h	865

		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	3.18	2.84	2.04	3.48	3.11	2.06	3.59	3.21	2.08	3.82	3.41	2.10	3.93	3.52	2.12	4.19	3.75	2.14	4.47	3.99	2.16
	-5	2.98	2.76	2.04	3.26	3.02	2.06	3.36	3.11	2.08	3.58	3.31	2.10	3.69	3.41	2.12	3.93	3.63	2.14	4.19	3.87	2.16
	0	2.78	2.68	2.04	3.05	2.93	2.06	3.14	3.02	2.08	3.34	3.21	2.10	3.44	3.31	2.12	3.67	3.52	2.14	3.91	3.76	2.16
	5	3.12	2.81	2.00	3.41	3.07	2.02	3.52	3.17	2.04	3.74	3.37	2.07	3.86	3.47	2.09	4.11	3.70	2.11	4.38	3.94	2.13
	10	2.95	2.74	2.03	3.23	3.00	2.05	3.33	3.09	2.07	3.54	3.29	2.09	3.65	3.39	2.11	3.88	3.61	2.13	4.14	3.85	2.15
	15	3.83	3.11	1.22	4.19	4.30	1.23	4.32	3.51	1.25	4.60	3.73	1.26	4.74	3.84	1.27	5.05	4.09	1.28	5.38	4.37	1.29
	20	4.61	3.45	1.37	5.05	3.77	1.39	5.20	3.89	1.40	5.53	4.13	1.42	5.70	4.26	1.43	6.07	4.54	1.44	6.48	4.48	1.46
	25	4.49	3.40	1.36	4.92	3.72	1.38	5.07	3.83	1.39	5.39	4.08	1.40	5.56	4.20	1.42	5.92	4.48	1.43	6.31	4.77	1.44
	30	4.35	3.34	1.50	4.76	3.65	1.53	4.91	3.76	1.55	5.22	4.00	1.56	5.38	4.13	1.58	5.73	4.40	1.59	6.11	4.69	1.61
	35	4.21	3.28	1.66	4.60	3.59	1.67	4.74	3.69	1.69	5.04	3.93	1.71	5.20	3.93	1.73	5.54	4.32	1.74	5.91	4.60	1.76
	40	3.92	3.14	1.37	4.29	3.34	1.38	4.42	4.54	1.40	4.70	3.77	1.41	4.85	3.88	1.42	5.17	4.14	1.44	5.51	4.41	1.45
	45	3.45	2.91	1.00	3.78	3.18	1.01	3.90	3.28	1.02	4.14	3.48	1.03	4.27	3.59	1.04	4.55	3.83	1.05	4.85	4.08	1.06
	50	3.10	2.74	0.69	3.40	2.96	0.70	3.51	3.43	0.71	3.73	3.28	0.71	3.84	3.46	0.71	4.10	3.61	0.73	4.36	3.84	0.73

■ Model: ASEH24KLCBL

AFR	m^3/h	1,040

		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	6.01	4.00	2.32	6.58	4.38	2.34	6.78	4.51	2.37	7.21	4.80	2.39	7.43	4.94	2.41	7.92	5.27	2.44	8.44	5.62	2.46
	-5	5.57	3.82	2.48	6.10	4.18	2.50	6.29	4.30	2.53	6.69	4.58	2.55	6.89	4.72	2.58	7.34	5.03	2.61	7.83	5.36	2.63
	0	5.14	3.64	2.64	5.62	3.98	2.66	5.79	4.10	2.69	6.16	4.36	2.72	6.35	4.49	2.75	6.77	4.79	2.77	7.21	5.11	2.80
	5	5.96	4.02	2.31	6.53	4.40	2.34	6.73	4.54	2.36	7.15	4.83	2.38	7.37	4.97	2.41	7.86	5.30	2.43	8.38	5.65	2.46
	10	5.63	3.95	2.46	6.16	4.32	2.48	6.35	4.45	2.51	6.75	4.73	2.53	6.96	4.88	2.56	7.42	5.20	2.59	7.91	5.54	2.61
	15	6.65	4.40	1.61	7.27	4.81	1.62	7.50	4.96	1.64	7.97	5.27	1.66	8.22	5.43	1.67	8.76	5.79	1.69	9.33	6.17	1.71
	20	6.45	4.29	1.81	7.06	4.69	1.83	7.28	4.83	1.85	7.74	5.14	1.87	7.98	5.30	1.89	8.50	5.65	1.90	9.06	6.02	1.92
	25	6.31	4.23	1.92	6.91	4.62	1.94	7.12	4.76	1.96	7.57	5.07	1.98	7.81	5.22	2.00	8.32	5.57	2.02	8.87	5.93	2.04
	30	6.03	4.10	2.12	6.60	4.49	2.14	6.80	4.63	2.17	7.23	4.92	2.19	7.45	5.07	2.21	7.94	5.40	2.23	8.47	5.76	2.25
	35	5.74	3.98	2.32	6.28	4.36	2.35	6.48	4.49	2.37	6.89	4.77	2.40	7.10	4.92	2.42	7.57	5.24	2.44	8.07	5.59	2.47
	40	5.33	3.85	2.09	5.84	4.21	2.11	6.02	4.34	2.14	6.40	4.61	2.16	6.59	4.75	2.18	7.03	5.07	2.20	7.49	5.40	2.22
	45	3.98	3.31	1.59	4.35	3.62	1.61	4.49	3.73	1.63	4.77	3.97	1.64	4.92	4.09	1.66	5.24	4.36	1.68	5.59	4.65	1.69
	50	3.26	3.04	1.27	3.56	3.32	1.28	3.67	3.43	1.31	3.90	3.65	1.31	4.02	3.76	1.33	4.28	4.01	1.35	4.57	4.27	1.35

WALL MOUNTED
ASEH18-24KLCBL

5-2. Heating capacity

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

■ Model: ASEH18KLCBL

AFR	m^3/h	995

			Indoor temperature									
			16		18		20		22		24	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-15	-16	4.25	1.32	4.14	1.35	4.03	1.37	3.92	1.40	3.81	1.43
	-10	-11	4.92	1.42	4.80	1.44	4.67	1.46	4.54	1.51	4.41	1.53
	-5	-7	5.69	1.53	5.54	1.57	5.39	1.57	5.24	1.63	5.09	1.66
	0	-2	6.61	1.66	6.43	1.70	6.26	1.71	6.08	1.77	5.92	1.81
	5	3	7.34	1.78	7.14	1.81	6.96	1.85	6.77	1.89	6.57	1.92
	7	6	8.02	1.85	7.81	1.89	7.60	1.93	7.39	1.97	7.18	2.00
	10	8	8.39	1.92	8.17	1.96	7.96	1.98	7.74	2.05	7.52	2.08
	15	10	8.38	1.77	8.16	1.81	7.95	1.85	7.73	1.88	7.50	1.91
	20	15	7.78	1.38	7.57	1.41	7.37	1.44	7.16	1.47	6.97	1.50
	24	18	8.16	1.37	7.96	1.41	7.74	1.43	7.52	1.46	7.31	1.49

■ Model: ASEH24KLCBL

AFR	m^3/h	1,040

			Indoor temperature									
			16		18		20		22		24	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-15	-16	6.90	2.74	6.72	2.79	6.54	2.85	6.36	2.90	6.18	2.96
	-10	-11	7.98	3.08	7.77	3.14	7.56	3.14	7.35	3.27	7.14	3.33
	-5	-7	8.79	3.25	8.56	3.31	8.33	3.40	8.10	3.45	7.87	3.51
	0	-2	9.20	3.16	8.96	3.22	8.72	3.31	8.48	3.35	8.24	3.42
	5	3	9.53	2.89	9.28	2.95	9.03	3.01	8.78	3.07	8.53	3.13
	7	6	9.50	2.55	9.25	2.60	9.00	2.66	8.75	2.71	8.50	2.76
	10	8	9.54	2.45	9.29	2.50	9.04	2.59	8.79	2.60	8.54	2.65
	15	10	9.60	2.24	9.35	2.29	9.10	2.38	8.84	2.38	8.59	2.43
	20	15	9.66	2.04	9.41	2.08	9.16	2.17	8.90	2.16	8.65	2.20
	24	18	9.71	1.87	9.46	1.91	9.20	1.95	8.95	1.99	8.70	2.03

WALL MOUNTED
ASEH18-24KLCBL

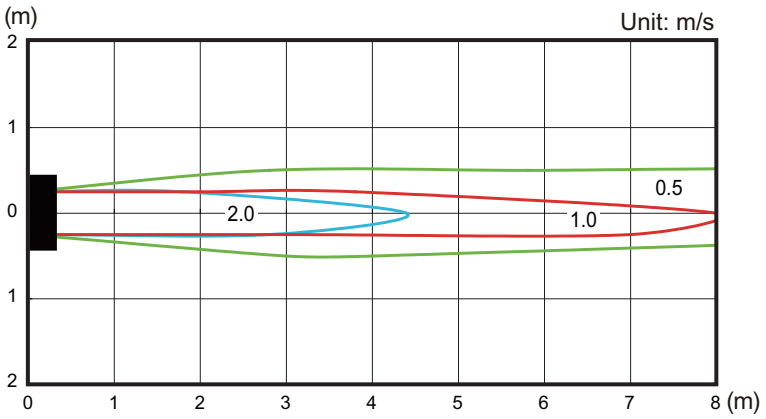
6. Fan performance

6-1. Air velocity distributions

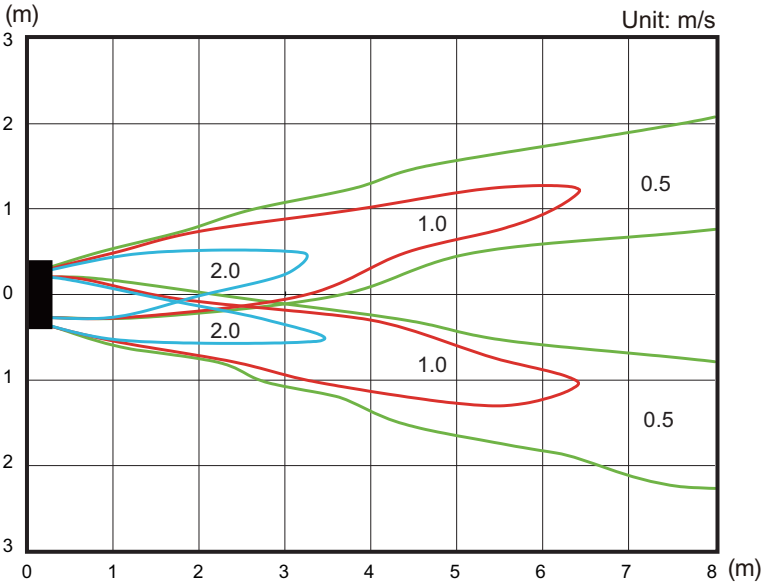
■ Model: ASEH18KLCBL

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

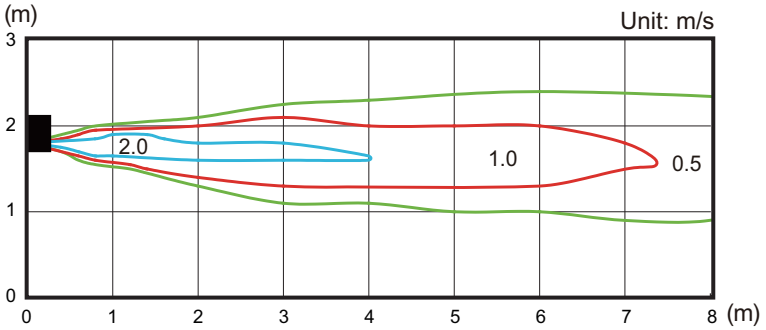
Top view
Horizontal louver: Up
Vertical louver: Center



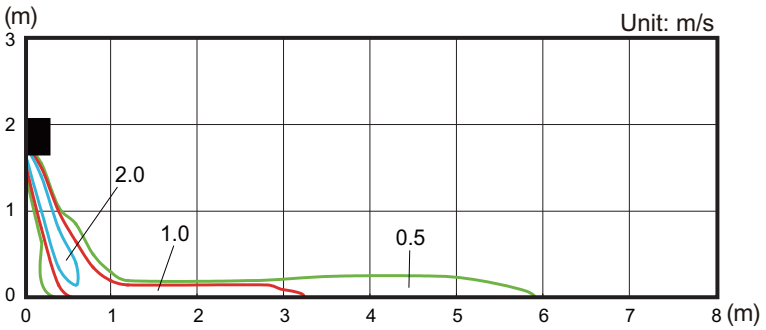
Top view
Horizontal louver: Up
Vertical louver: Left & Right



Side view
Horizontal louver: Up
Vertical louver: Center



Side view
Horizontal louver: Down
Vertical louver: Center

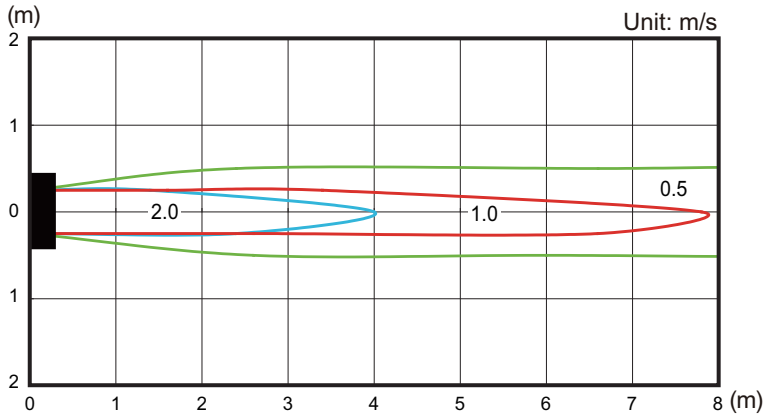


WALL MOUNTED
ASEH18-24KLCBL

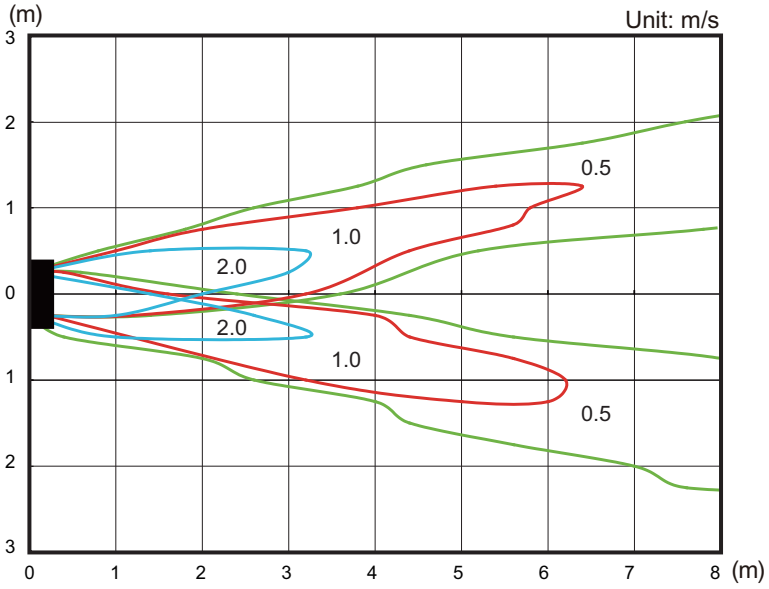
■ Model: ASEH24KLCBL

Measuring conditions	Fan speed	Operation mode
	HIGH	FAN

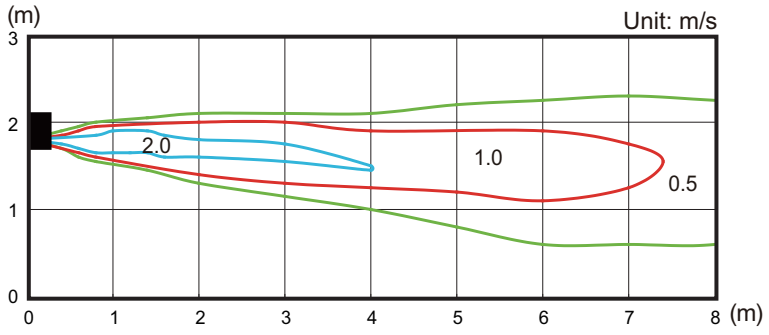
Top view
Horizontal louver: Up
Vertical louver: Center



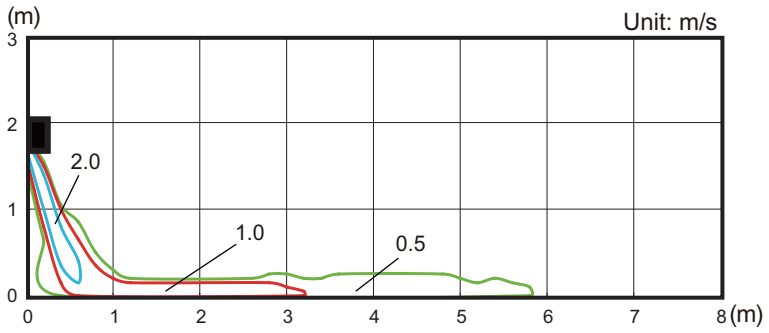
Top view
Horizontal louver: Up
Vertical louver: Left & Right



Side view
Horizontal louver: Up
Vertical louver: Center



Side view
Horizontal louver: Down
Vertical louver: Center



WALL MOUNTED
ASEH18-24KLCBL

6-2. Airflow

■ Model: ASEH18KLCBL

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	865
	l/s	240
	CFM	509
MED	m^3/h	780
	l/s	217
	CFM	459
LOW	m^3/h	665
	l/s	185
	CFM	391
QUIET	m^3/h	555
	l/s	154
	CFM	327

● Heating

Fan speed	Airflow	
HIGH	m^3/h	995
	l/s	276
	CFM	586
MED	m^3/h	810
	l/s	225
	CFM	477
LOW	m^3/h	700
	l/s	194
	CFM	412
QUIET	m^3/h	590
	l/s	164
	CFM	347

WALL MOUNTED
ASEH18-24KLCBL

■ Model: ASEH24KLCBL

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	1,040
	l/s	289
	CFM	612
MED	m^3/h	880
	l/s	244
	CFM	518
LOW	m^3/h	685
	l/s	190
	CFM	403
QUIET	m^3/h	555
	l/s	154
	CFM	327

● Heating

Fan speed	Airflow	
HIGH	m^3/h	1,040
	l/s	289
	CFM	612
MED	m^3/h	810
	l/s	225
	CFM	477
LOW	m^3/h	695
	l/s	193
	CFM	409
QUIET	m^3/h	585
	l/s	163
	CFM	344

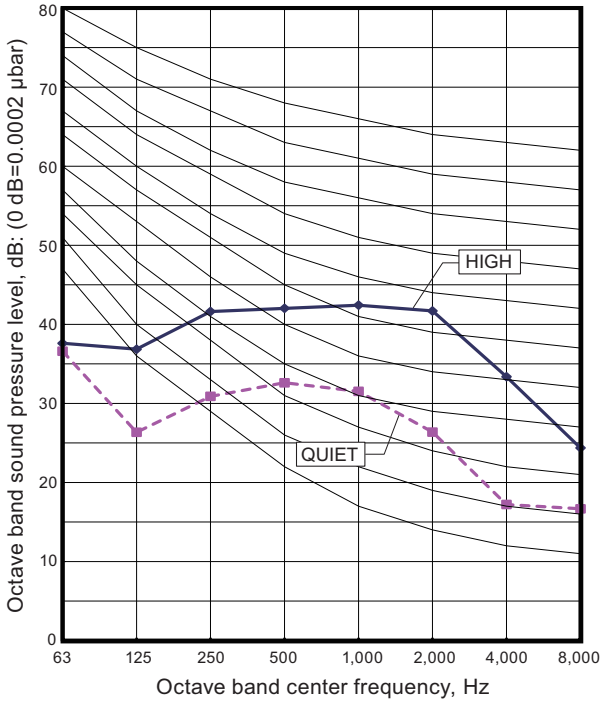
WALL MOUNTED
ASEH18-24KLCBL

7. Operation noise (sound pressure)

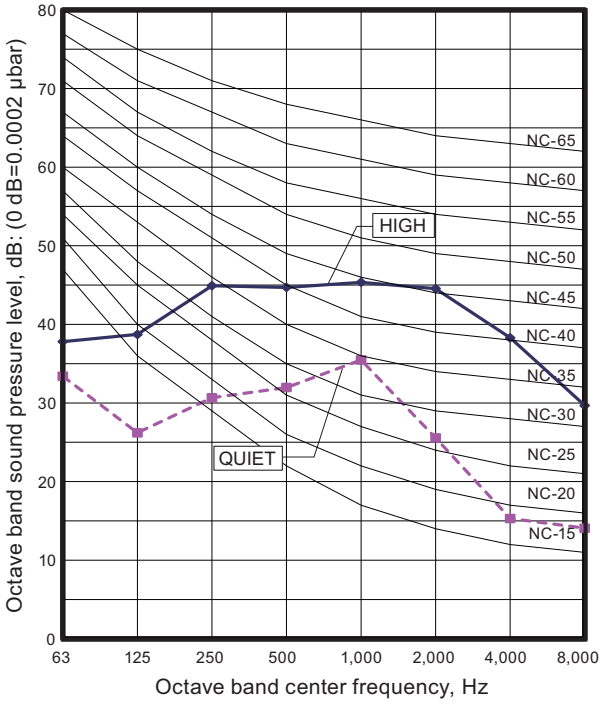
7-1. Noise level curve

■ Model: ASEH18KLCBL

● Cooling

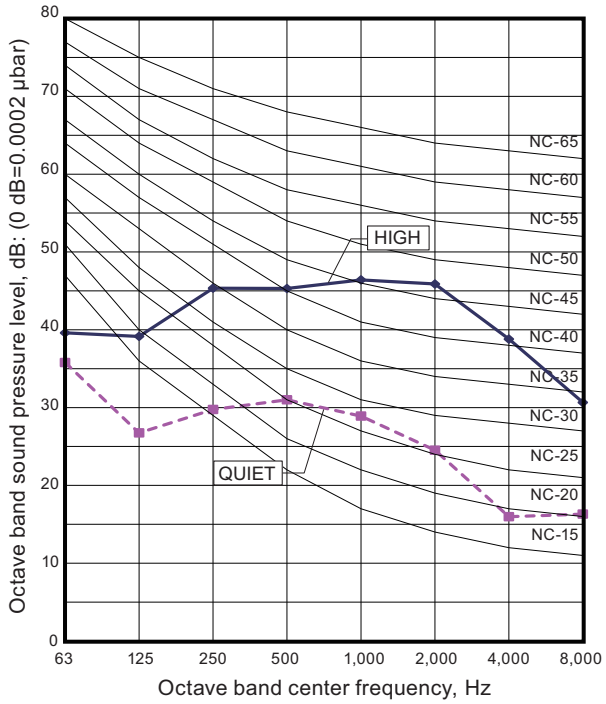


● Heating

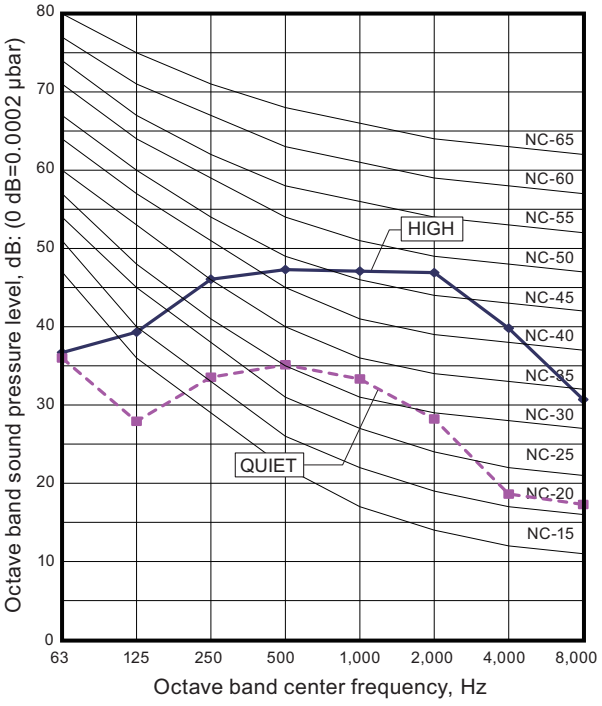


■ Model: ASEH24KLCBL

● Cooling

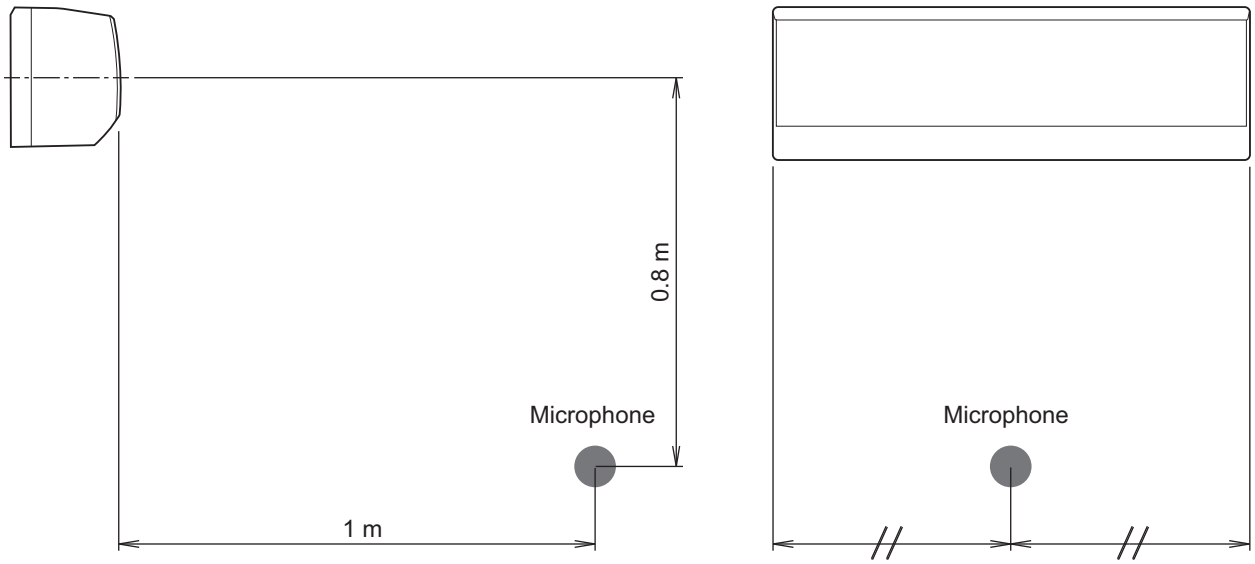


● Heating



WALL MOUNTED
ASEH18-24KLCBL

7-2. Sound level check point



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

WALL MOUNTED
ASEH18-24KLCBL

8. Safety devices

Type of protection	Protection form		Model	
			ASEH18KLCBL	ASEH24KLCBL
Circuit protection	Current fuse (PCB*)		250 V, 3.15 A	
Fan motor protection	Thermistor protection	Activate	150 ±15°C Fan motor stop	
		Reset	120 ±15°C Fan motor restart	

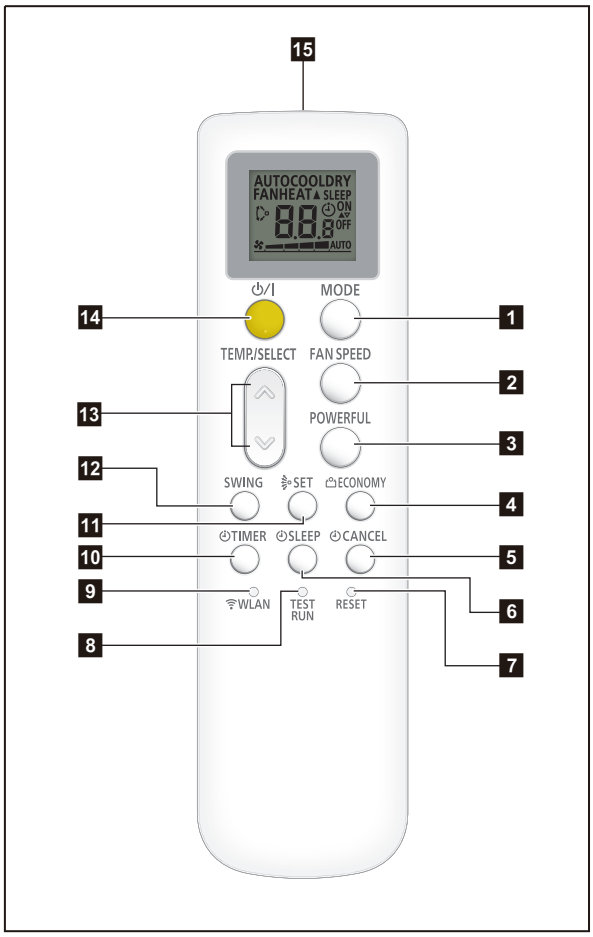
*PCB: Printed Circuit Board

WALL MOUNTED
ASEH18-24KLCBL

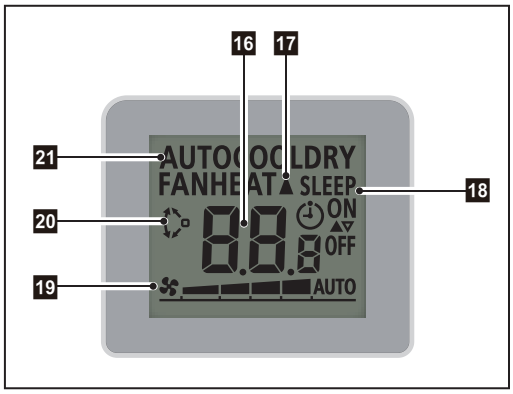
9. Remote controller

9-1. Wireless remote controller

■ Overview



Display panel



NOTES:

- Functions may differ by type of the indoor unit. For details, refer to the operation manual.
- This figure depicts all indicators that the remote controller can display on the screen for the functional explanation. In actual operation, the remote controller shows only the indicators that are appropriate for the current process.

1 MODE button

- Switches operation mode (AUTO, COOL, DRY, FAN, and HEAT).
- Starts/ends the remote controller custom code (max. 4 types) change.

2 FAN SPEED button

3 POWERFUL button

4 ECONOMY button

5 CANCEL button

6 SLEEP TIMER button

7 RESET button

8 TEST RUN button

- Used only when installing the air conditioner, and should not be used under normal conditions, as it will cause the indoor unit's thermostat malfunction.
- 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.

NOTE: If the service check mode starts unintentionally and "- -" appears on the remote controller display, press the START/STOP button to end this operation.

9 WLAN button

- Starts the wireless LAN setting.

10 TIMER button

11 SET button (Up/down airflow)

12 SWING button

13 TEMP./SELECT button

- Adjusts the setting temperature.
- Adjusts the value of the timer settings.
- Sets the remote controller code.

14 ⏻/I (START/STOP) button

15 Signal transmitter

16 Temperature and time indicator

- Displays set temperature.
- In timer setting, it displays the timer time. After finishing the timer setting, set temperature will reappear.

17 Signal transmit indicator

18 Timer mode indicator

19 Fan speed indicator

20 Swing indicator

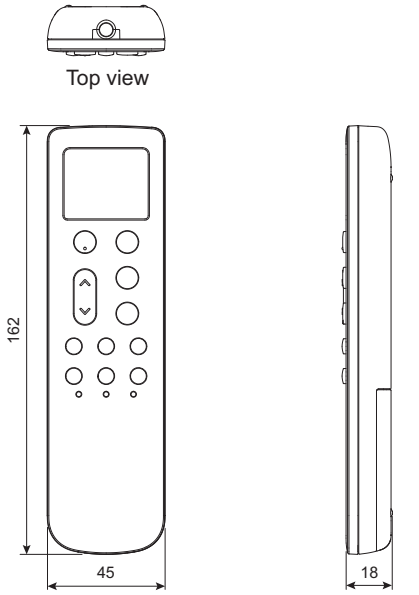
21 Operating mode indicator

WALL MOUNTED
ASEH18-24KLCBL

■ Specifications

● Controller

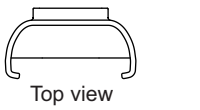
Unit: mm

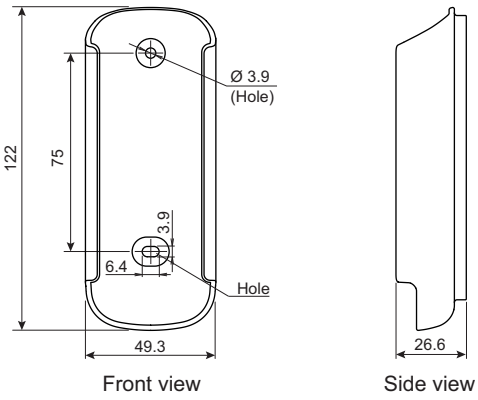


Size (H × W × D)	mm	162 × 45 × 18
Weight	g	65.5 (without batteries)

● Holder

Unit: mm





Size (H × W × D)	mm	122 × 49.3 × 26.6
Weight	g	23.5

WALL MOUNTED
ASEH18-24KLCBL

10. 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.

10-1. 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:

- Piping air tight test and vacuuming have been performed firmly.
- There is no wiring mistake.

Then, connect the power supply of the indoor unit.

Entering function setting mode:

While pressing the FAN SPEED button and TEMP./SELECT (∧) button simultaneously, press the RESET button to enter the function setting mode.

STEP 1: Setting the remote controller custom code

Use the following steps to select the custom code of the remote controller. (The signal is correctly sent and received only when the custom codes of the air conditioner and the remote controller match.)

The custom codes that are set through this process are applicable only to the signal in the function setting.

For details on how to set the custom codes through the normal process, refer to "Custom code setting for wireless remote controller" on page 25.

1. Press the TEMP./SELECT (∧) (∨) buttons to change the custom code between A →b →c →d. Match the code on the display to the air conditioner custom code. (Initially set to A.) If the custom code does not need to be selected, press the MODE button, and proceed to **STEP 2**.
2. Press the MODE button to accept the custom code, and proceed to **STEP 2**.

NOTES:

- The air conditioner custom code is set to A prior to shipment.
- The remote controller resets to custom code A when the function setting is performed. If you have set a custom code other than A, reset the custom code after completing the function setting.
- If you do not know the air conditioner custom code setting, try each of the custom codes (A →b →c →d) until you find the code that operates the air conditioner.

WALL MOUNTED
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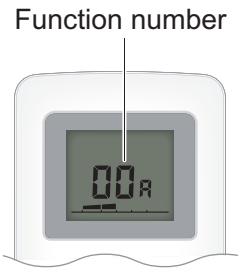
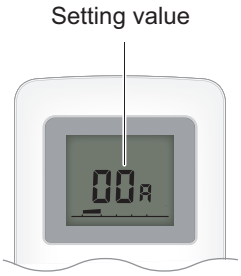
STEP 2: Selecting the function number and setting value

1. Press the TEMP./SELECT (∧) (∨) buttons to select the function number. To switch between the left and right digits, press the MODE button.
2. Press the FAN SPEED button to proceed the setting value. To return the function number selection, press the FAN SPEED button again.



3. Press the TEMP./SELECT (∧) (∨) buttons to select the setting value. To switch between the left and right digits, press the MODE button.
4. Press the TIMER button, and ⏻/I (START/STOP) button, in the order listed to confirm the settings.
5. Press the RESET button to cancel the function setting mode.
6. After completing the function setting, be sure to 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.

WALL MOUNTED
ASEH18-24KLCBL

■ 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)	40	Auto restart
4)	44	Remote controller custom code
5)	49	Indoor unit fan control for energy saving for cooling

1) Filter sign

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

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

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	♦

WALL MOUNTED
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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) 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.

4) 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	

WALL MOUNTED
ASEH18-24KLCBL

5) 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.

WALL MOUNTED
ASEH18-24KLCBL

10-2. 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 ⏻/I (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 A.)
3. Press the TEMP./SELECT (∧) (∨) buttons to change the custom code between A →b →c →d. Match the code on the display to the air conditioner custom code. (Initially set to A.)
4. Press the MODE button again to return to the original display. The custom code will be changed.

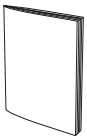
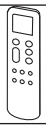
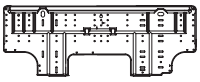
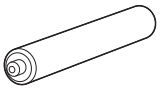
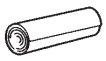
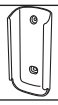
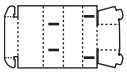
NOTES:

- If you do not press the button for 30 seconds, the displayed custom code until will be set.
- Depending on the remote controller, the custom code may return to when replacing the batteries. In this case, reset the custom code as necessary. If you do not know the air conditioner custom code, try each code until you find the code which operates the air conditioner.

WALL MOUNTED
ASEH18-24KLCBL

11. Accessories

11-1. Models: ASEH18KLCBL and ASEH24KLCBL

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	Cloth tape		1
Remote controller holder		1	Installation spacer		1

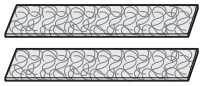
WALL MOUNTED
ASEH18-24KLCBL

12. Optional parts

12-1. Controllers

Exterior	Part name	Model name	Summary
	Wireless Remote Controller	UTY-LNWX	Unit control is performed by Wireless Remote Controller.

12-2. 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)

WALL MOUNTED
ASEH18-24KLCBL

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOEH18KLCB

AOEH24KLCB

1. Specifications

Type				Inverter, Heat pump	
Model name				**AOEH18KLCB**	**AOEH24KLCB**
Power supply				230 V~ 50 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—264 V	
Starting current			A	8.0	10.9
Fan	Airflow rate	Cooling	m^3/h	1,830	2,885
		Heating		2,265	3,030
	Type × Qty			Propeller fan × 1	
	Motor output		W	23	49
Sound pressure level *		Cooling	dB (A)	50	55
		Heating		56	57
Sound power level		Cooling		61	65
		Heating		66	67
Heat exchanger type		Dimensions (H × W × D)	mm	Main 1: 504 × 881 × 18.19 Main 2: 504 × 851 × 18.19	Main 1: 588 × 881 × 18.19 Main 2: 588 × 851 × 18.19
		Fin pitch		1.3	
		Rows × Stages		2 × 24	Main 1: 1 × 28 Main 2: 1 × 28
		Pipe type		Copper tube	
		Fin type	Type (Material)	Aluminum	
			Surface treatment	Blue fin	
Compressor		Type × Qty		DC twin rotary × 1	
		Motor output	W	900	1,060
Refrigerant		Type (Global warming potential)		R32 (675)	
		Charge	g	850	1,100
Refrigerant oil		Type		FW68S	RmM68AF
		Amount	cm^3	350	400
Enclosure		Material		Steel sheet	
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0	
Dimensions (H × W × D)		Net	mm	542 × 799 × 290	632 × 799 × 290
		Gross		602 × 940 × 375	692 × 940 × 375
Weight		Net	kg	32	38
		Gross		36	42
Connection pipe	Size	Liquid	mm (in)	Ø6.35 (Ø1/4)	
		Gas		Ø9.52 (Ø3/8)	Ø12.70 (Ø1/2)
	Method			Flare	
	Pre-charge length		m	15	
	Min. length			3	
	Max. length			25	30
	Max. height difference			20	25
Operation range		Cooling	°C	-10 to 50	
		Heating		-15 to 24	

NOTES:

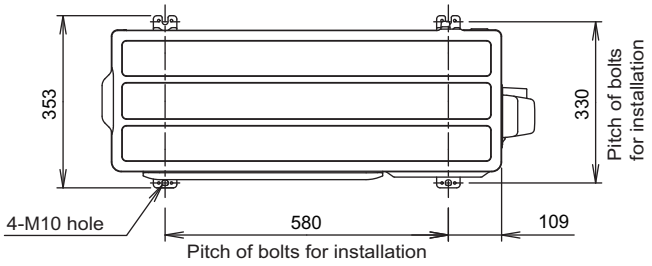
- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35 °CDB/24 °CWB
  - Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7 °CDB/6 °CWB
  - Pipe length: 5 m, Height difference: 0 m (Between outdoor unit and indoor unit)
- Protective function might work when using it outside the operation range.
- *: 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.

OUTDOOR UNIT
AOEH18-24KLCB

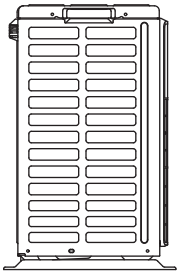
2. Dimensions

2-1. Model: AOEH18KLCB

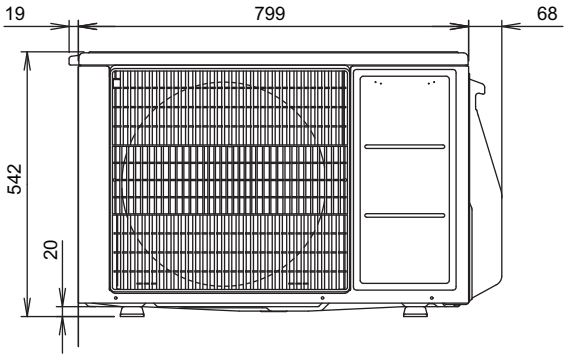
Unit: mm



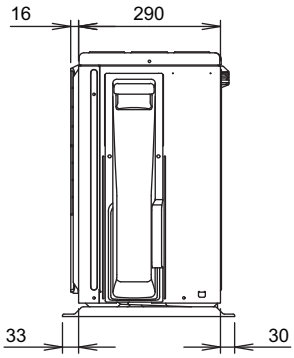
Top view



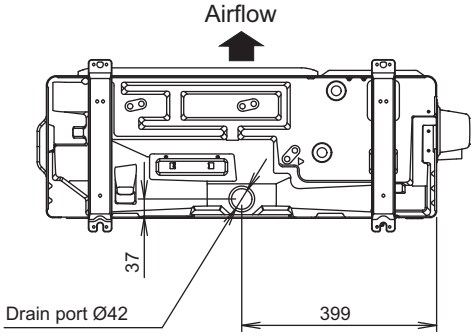
Side view



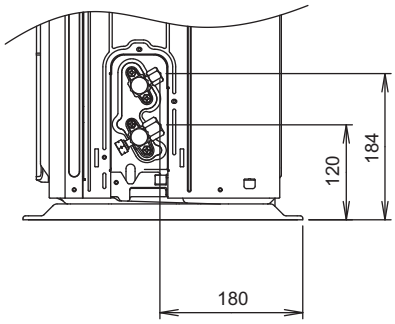
Front view



Side view



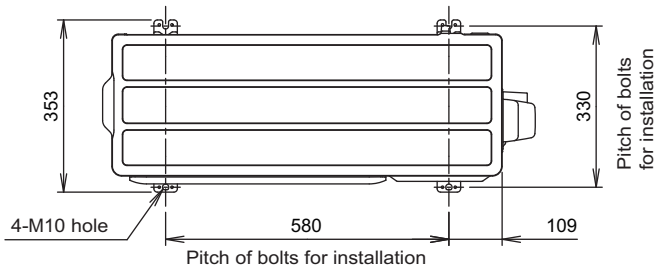
Bottom view



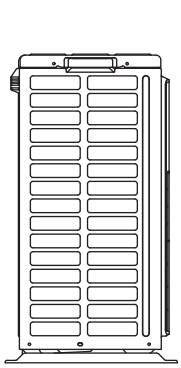
Side view (Valve part)

2-2. Model: AOEH24KLCB

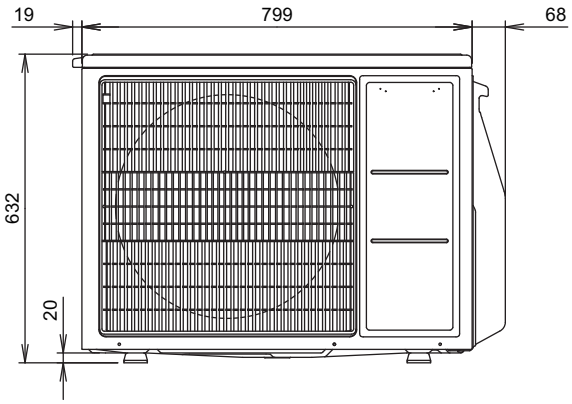
Unit: mm



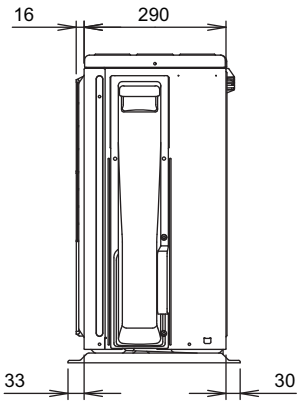
Top view



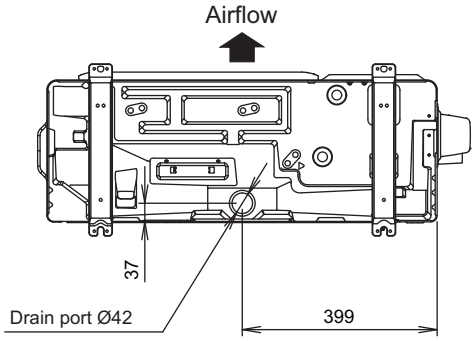
Side view



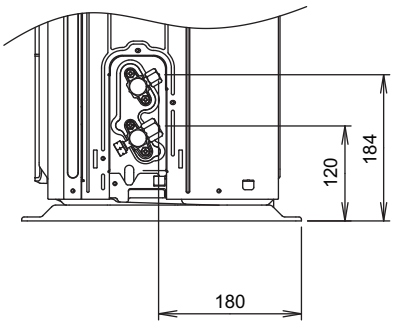
Front view



Side view



Bottom view



Side view (Valve part)

3. Installation space

3-1. Models: AOEH18KLCB and AOEH24KLCB

OUTDOOR UNIT
AOEH18-24KLCB

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

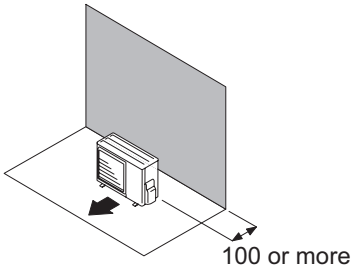
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

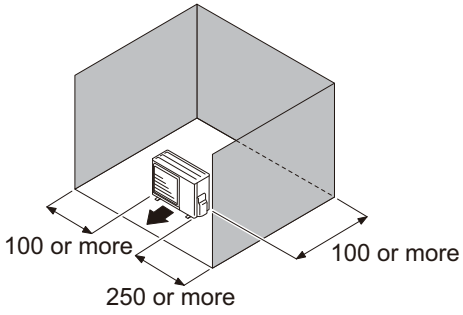
- **When the upper space is open:**

Unit: mm

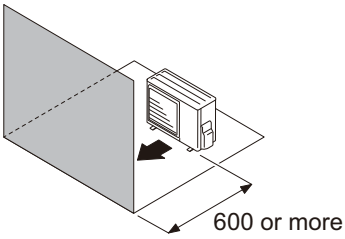
Obstacles at rear only



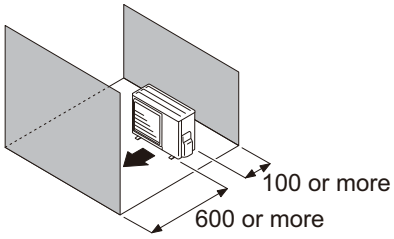
Obstacles at rear and sides



Obstacles at front



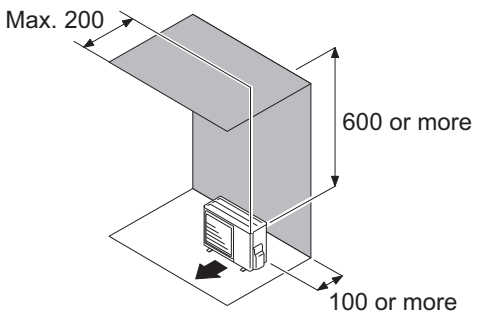
Obstacles at front and rear



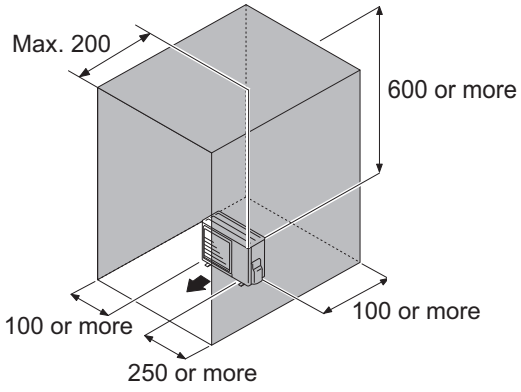
- **When an obstruction in the upper space:**

Unit: mm

Obstacles at rear and above



Obstacles at rear, sides, and above



OUTDOOR UNIT
AOEH18-24KLCB

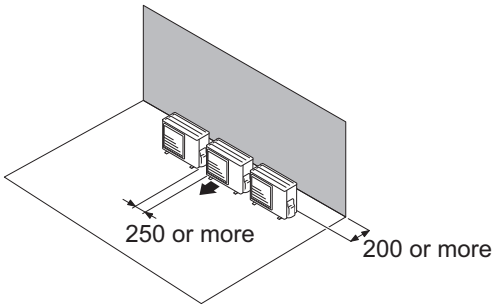
● Multiple outdoor unit installation

- 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:**".

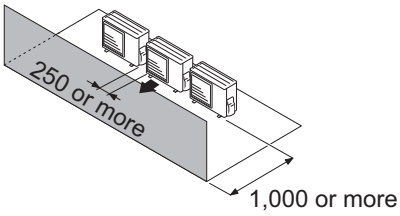
- **When the upper space is open:**

Unit: mm

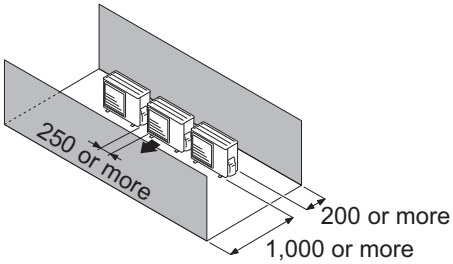
Obstacles at rear only



Obstacles at front only



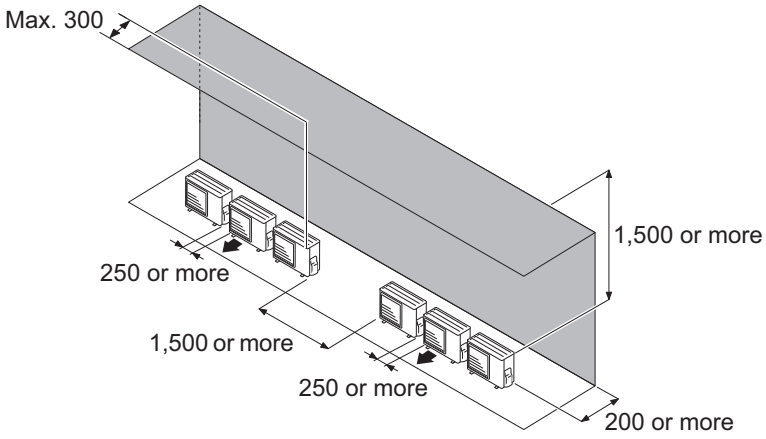
Obstacles at front and rear



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

Unit: mm

Obstacles at rear and above.

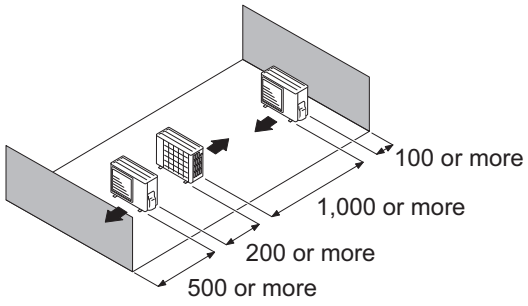


OUTDOOR UNIT
AOEH18-24KLCB

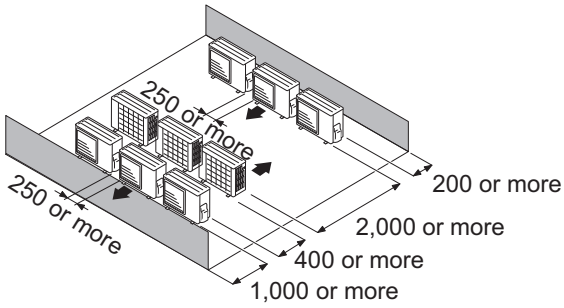
● Outdoor units installation in multi-row

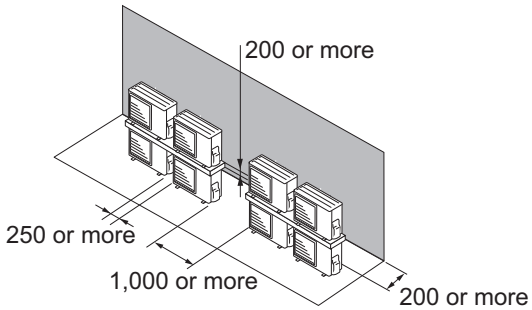
Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement



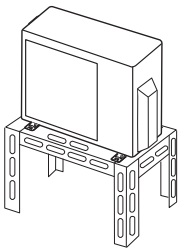


NOTES:

- 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

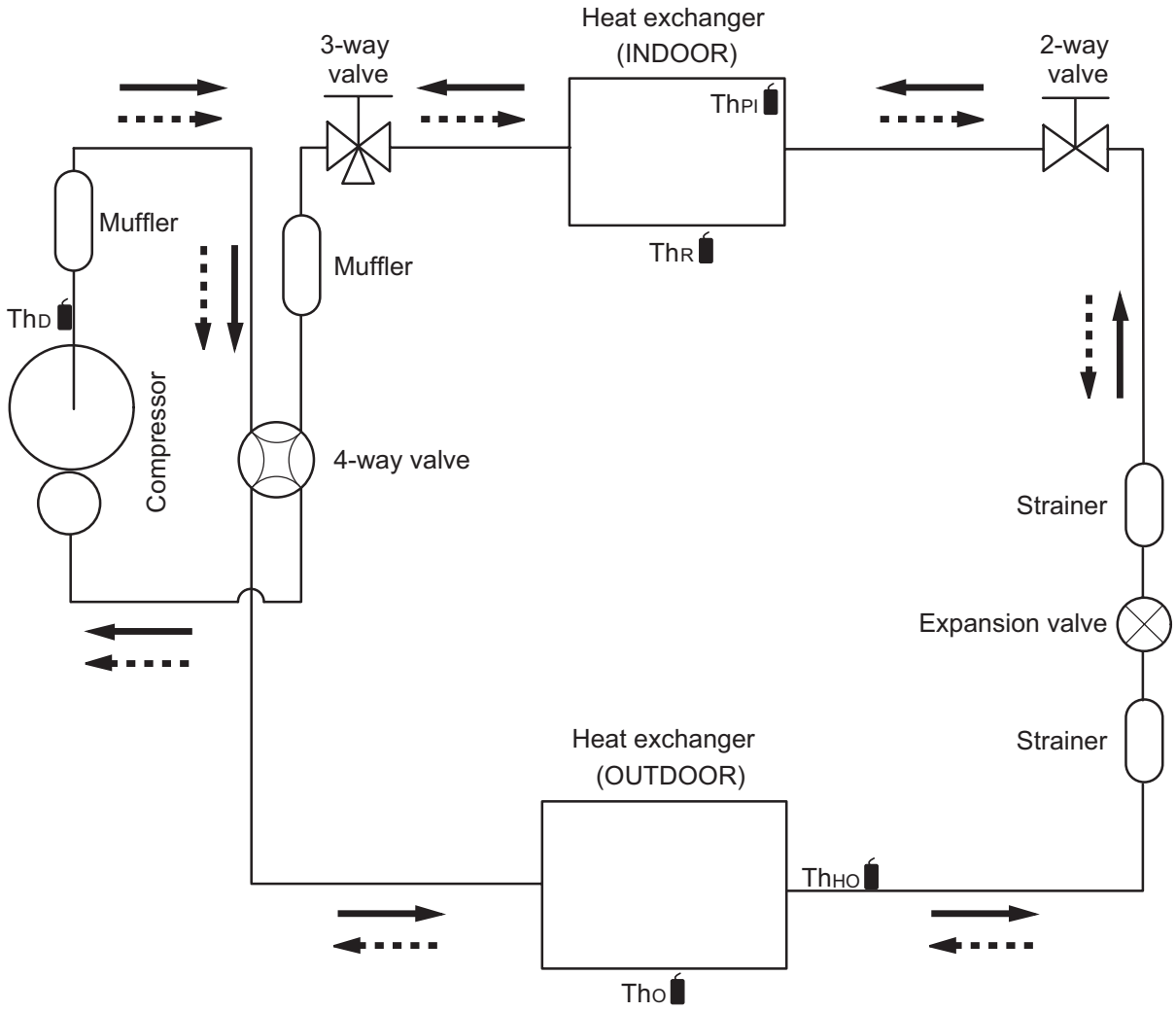
- Do not install the outdoor unit in two-stage where the drain water could freeze. Otherwise the drainage from the upper unit may form ice and cause a malfunction of the lower unit.
- When the outdoor temperature is 0 °C or less, do not use the accessory drain pipe and drain cap. If the drain pipe and 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.



OUTDOOR UNIT
AOEH18-24KLCB

4. Refrigerant circuit

4-1. Model: AOEH18KLCB



ThD : Thermistor (Discharge temperature)

ThO : Thermistor (Outdoor temperature)

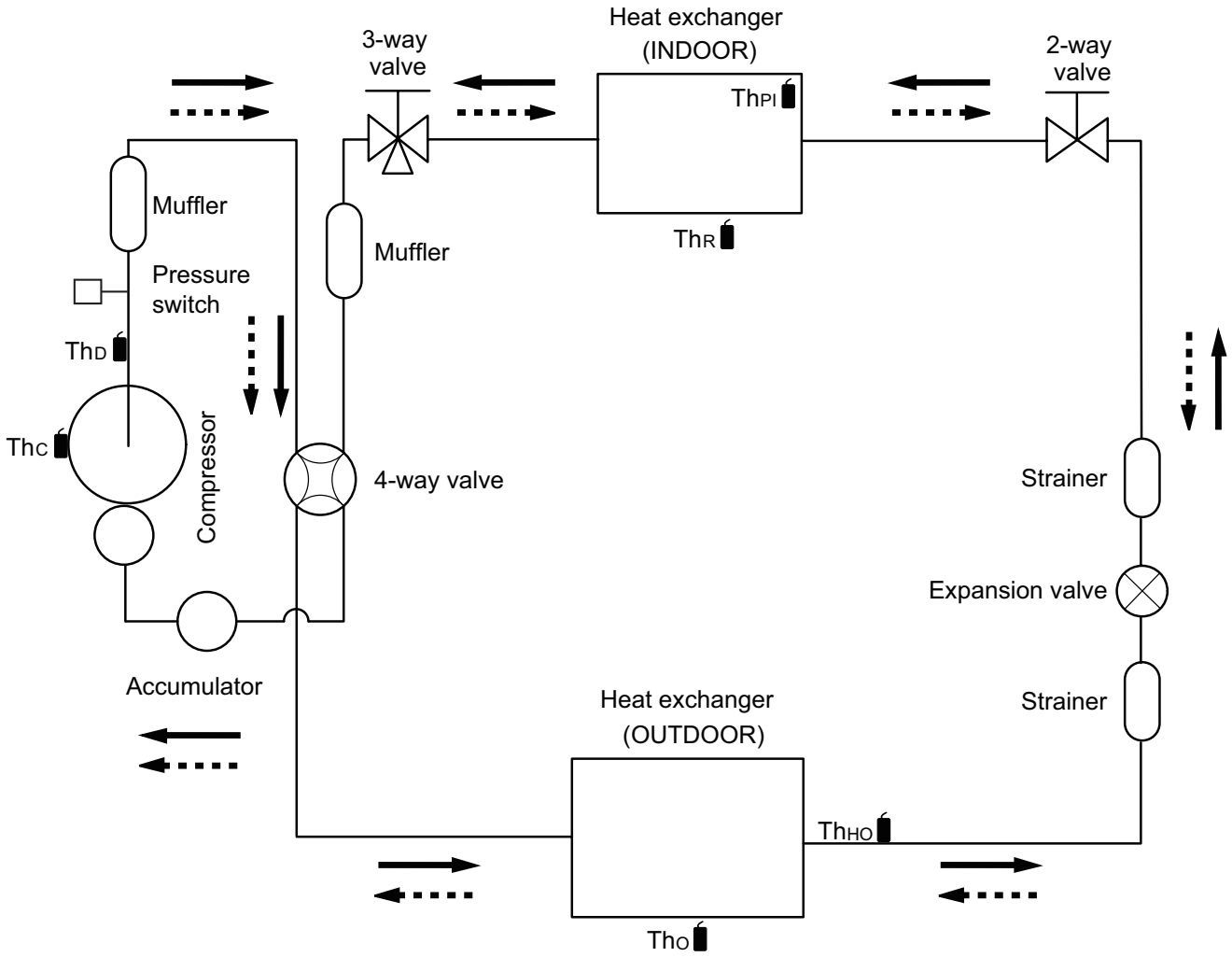
ThHO: Thermistor (Heat exchanger out temperature)

ThPI : Thermistor (Pipe temperature)

ThR : Thermistor (Room temperature)

OUTDOOR UNIT
AOEH18-24KLCB

4-2. Model: AOEH24KLCB

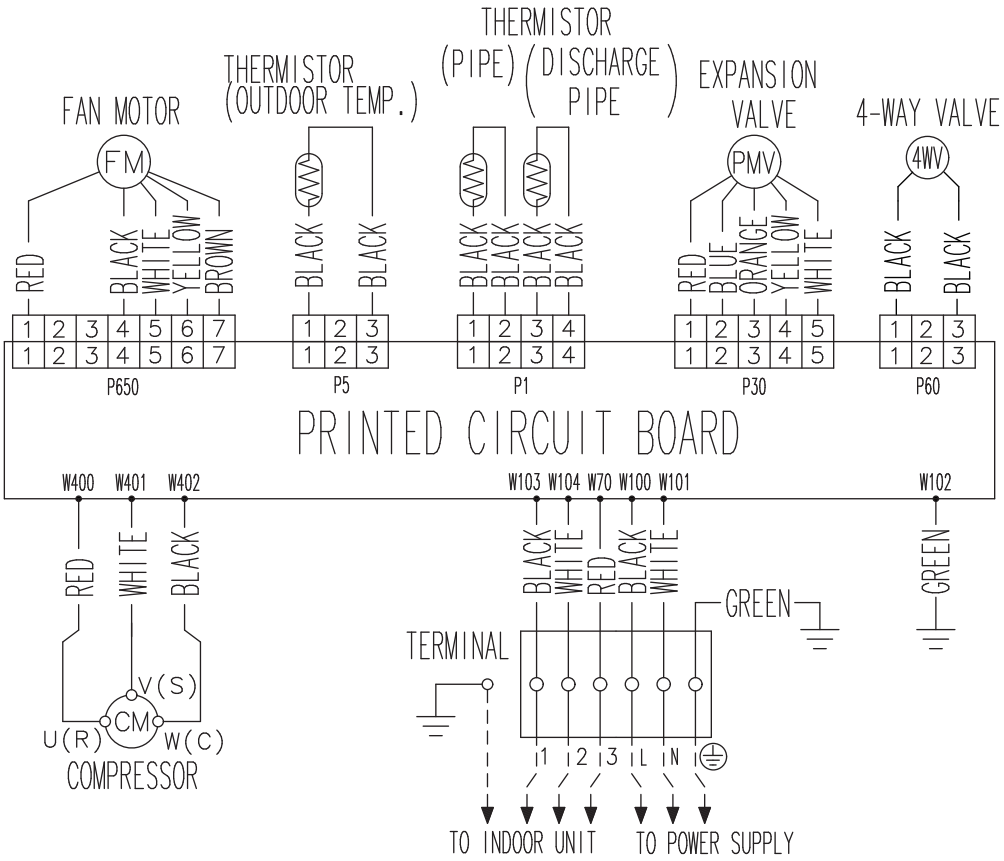


ThC : Thermistor (Compressor temperature)
ThD : Thermistor (Discharge temperature)
ThO : Thermistor (Outdoor temperature)
ThHO: Thermistor (Heat exchanger out temperature)
ThPI : Thermistor (Pipe temperature)
ThR : Thermistor (Room temperature)

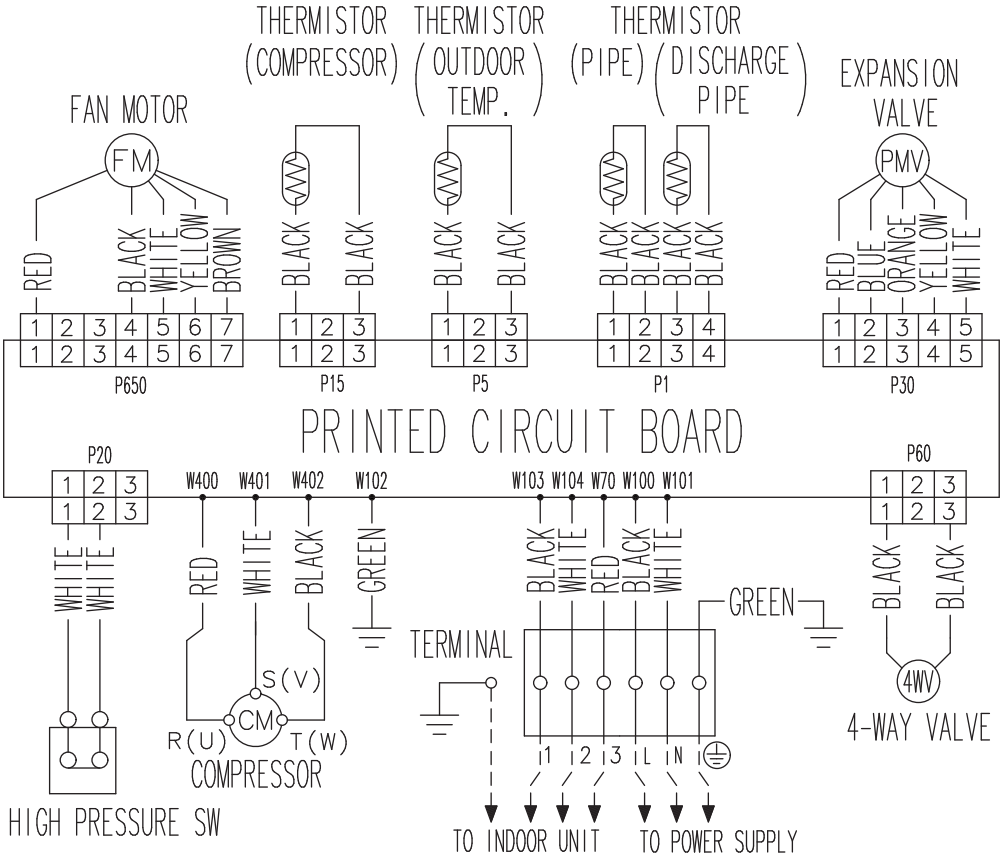
OUTDOOR UNIT
AOEH18-24KLCB

5. Wiring diagrams

5-1. Model: AOEH18KLCB



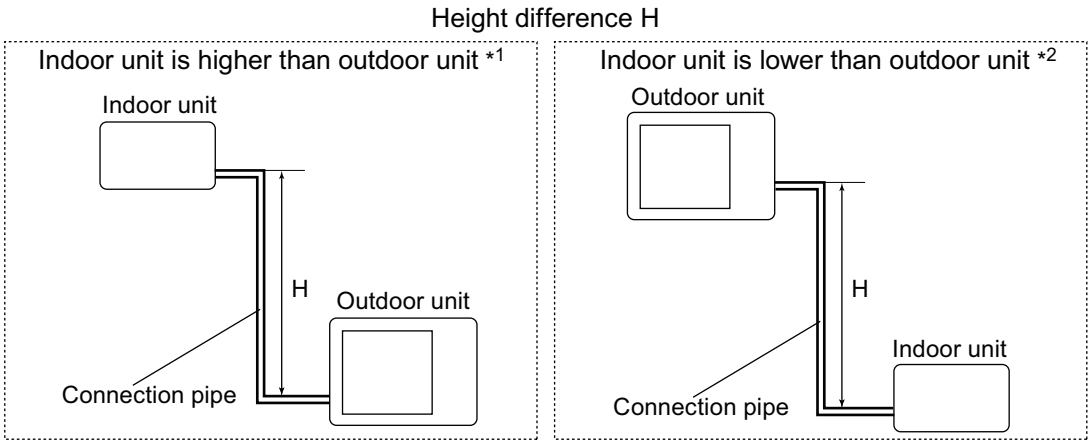
5-2. Model: AOEH24KLCB



OUTDOOR UNIT
AOEH18-24KLCB

OUTDOOR UNIT AOEH18-24KLCB

6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOEH18KLCB

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

COOLING			Pipe length (m)						
			3	5	7.5	10	15	20	25
Height difference H (m)	Indoor unit is higher than outdoor unit *1	20	—	—	—	—	—	0.872	0.848
		15	—	—	—	—	0.904	0.879	0.854
		10	—	—	—	0.951	0.919	0.893	0.868
		7.5	—	—	0.972	0.955	0.923	0.897	0.872
		5	—	0.992	0.975	0.959	0.925	0.901	0.876
		3	1.003	0.996	0.978	0.962	0.928	0.904	0.879
		0	1.008	1.000	0.983	0.967	0.933	0.908	0.883
	Indoor unit is lower than outdoor unit *2	-3	1.008	1.000	0.983	0.967	0.933	0.908	0.883
		-5	—	1.000	0.983	0.967	0.933	0.908	0.883
		-7.5	—	—	0.983	0.967	0.933	0.908	0.883
		-10	—	—	—	0.967	0.933	0.908	0.883
		-15	—	—	—	—	0.933	0.908	0.883
		-20	—	—	—	—	—	0.908	0.883

HEATING			Pipe length (m)						
			3	5	7.5	10	15	20	25
Height difference H (m)	Indoor unit is higher than outdoor unit *1	20	—	—	—	—	—	0.863	0.857
		15	—	—	—	—	0.869	0.863	0.857
		10	—	—	—	0.934	0.869	0.863	0.857
		7.5	—	—	0.967	0.934	0.869	0.863	0.857
		5	—	1.000	0.967	0.934	0.869	0.863	0.857
		3	1.024	1.000	0.967	0.934	0.869	0.863	0.857
		0	1.024	1.000	0.967	0.934	0.869	0.863	0.857
	Indoor unit is lower than outdoor unit *2	-3	1.021	0.997	0.964	0.932	0.866	0.861	0.855
		-5	—	0.995	0.962	0.930	0.864	0.859	0.853
		-7.5	—	—	0.960	0.928	0.862	0.856	0.850
		-10	—	—	—	0.926	0.860	0.854	0.848
		-15	—	—	—	—	0.852	0.846	0.840
		-20	—	—	—	—	—	0.842	0.836

6-2. Model: AOEH24KLCB

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

COOLING			Pipe length (m)							
			3	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
		3	1.003	0.995	0.986	0.977	0.958	0.942	0.925	0.909
		0	1.008	1.000	0.991	0.981	0.963	0.946	0.930	0.914
	Indoor unit is lower than outdoor unit *2	-3	1.008	1.000	0.991	0.981	0.963	0.946	0.930	0.914
		-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	—	—	—	—	0.963	0.946	0.930	0.914
		-25	—	—	—	—	—	—	0.930	0.914

HEATING			Pipe length (m)							
			3	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
		3	1.024	1.000	0.976	0.952	0.903	0.887	0.871	0.855
		0	1.024	1.000	0.976	0.952	0.903	0.887	0.871	0.855
	Indoor unit is lower than outdoor unit *2	-3	1.021	0.997	0.973	0.949	0.901	0.885	0.868	0.852
		-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
AOEH18-24KLCB

7. Additional charge calculation

7-1. Model: AOEH18KLCB

Refrigerant type		R32
Factory charge amount	g	850

■ Refrigerant charge

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

7-2. Model: AOEH24KLCB

Refrigerant type		R32
Factory charge amount	g	1,100

■ Refrigerant charge

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

OUTDOOR UNIT
AOEH18-24KLCB

8. Airflow

8-1. Model: AOEH18KLCB

● Cooling

m^3/h	1,830
l/s	508
CFM	1,077

● Heating

m^3/h	2,265
l/s	629
CFM	1,333

8-2. Model: AOEH24KLCB

● Cooling

m^3/h	2,885
l/s	801
CFM	1,698

● Heating

m^3/h	3,030
l/s	842
CFM	1,783

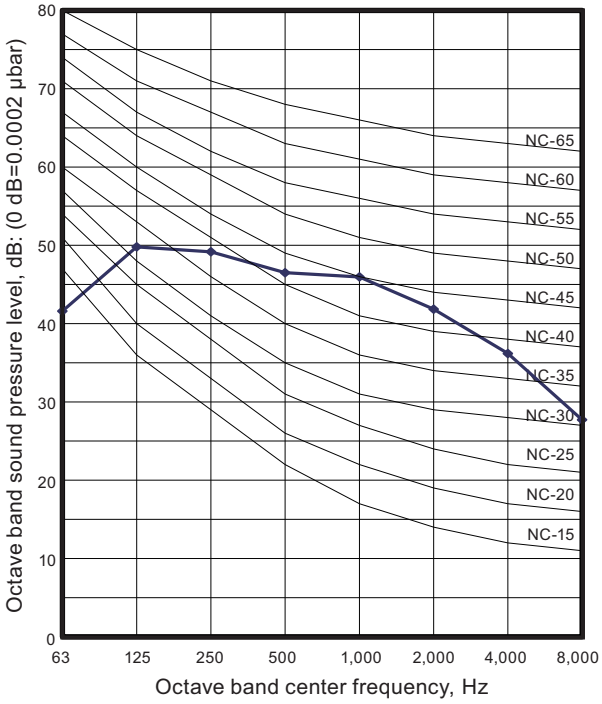
OUTDOOR UNIT
AOEH18-24KLCB

9. Operation noise (sound pressure)

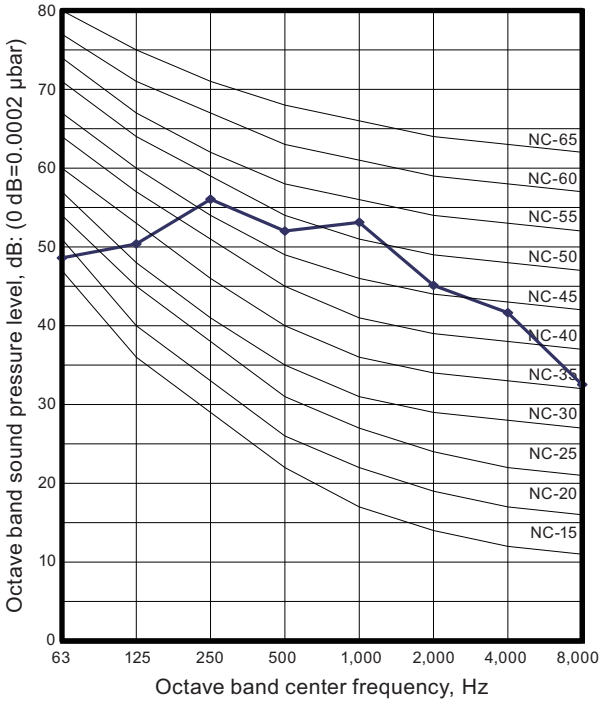
9-1. Noise level curve

■ Model: AOEH18KLCB

● Cooling

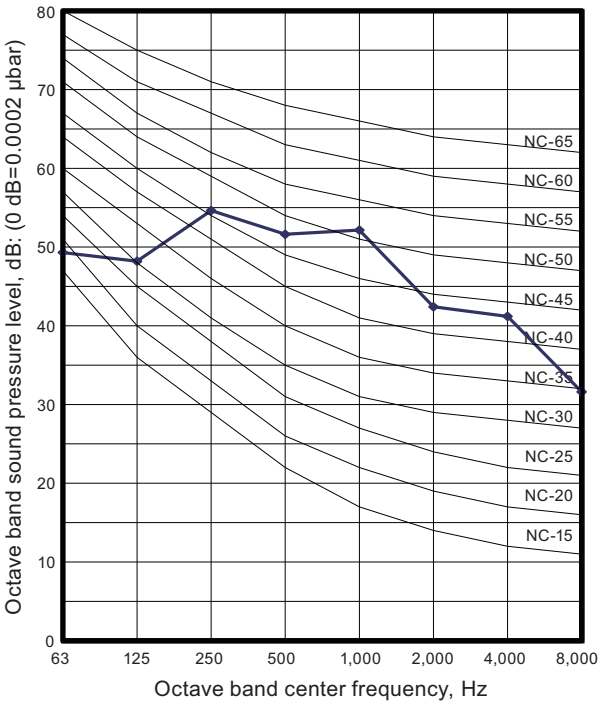


● Heating

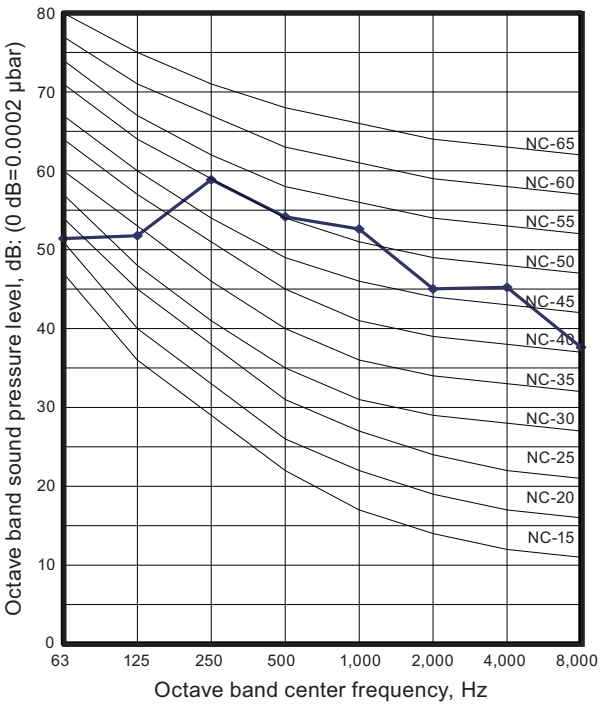


■ Model: AOEH24KLCB

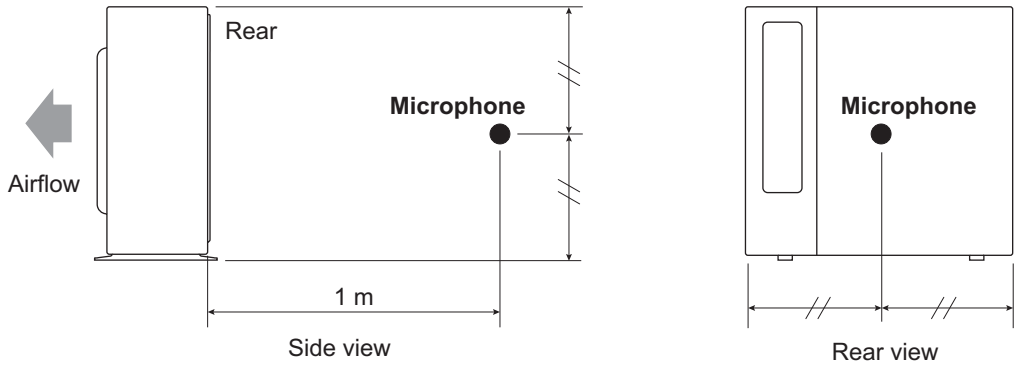
● Cooling



● Heating



9-2. Sound level check point



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

OUTDOOR UNIT
AOEH18-24KLCB

10. Electrical characteristics

Model name				AOEH18KLCB	AOEH24KLCB
Power supply	Voltage		V	230	
	Frequency		Hz	50	
Max operating current*1			A	13.5	17.5
Starting current			A	8.0	10.9
Wiring spec.*2	Circuit breaker current		A	16	20
	Power cable		mm^2	1.5	2.5
	Connection cable*3	Cross-sectional area	mm^2	1.5	
		Limited wiring length	m	26	31

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.

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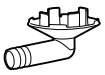
11. Safety devices

Type of protection	Protection form		Model	
			AOEH18KLCB	AOEH24KLCB
Circuit protection	Current fuse (PCB*)		250 V, 25 A	
			250 V, 5 A	
Fan motor protection	Thermal protection program	Activate	105 ±5°C Fan motor stop	125 ±5°C Fan motor stop
		Reset	105 ±5°C or less Fan motor restart	115 ±5°C Fan motor restart
Compressor protection	Thermal protection program (Compressor temp.)	Activate	—	108°C Compressor stop
		Reset	—	After 3 minutes, and 80°C or less Compressor restart
	Thermal protection program (Discharge temp.)	Activate	110°C Compressor stop	
		Reset	After 7 minutes Compressor restart	
	Thermal protection program (Outdoor temp.) (Only in COOL and DRY mode)	Activate	-15°C Compressor stop	
		Reset	-10°C Compressor restart	

*PCB: Printed Circuit Board

12. Accessories

12-1. Models: AOEH18KLCB and AOEH24KLCB

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

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