

AIR CONDITIONER

Duct type

DESIGN & TECHNICAL MANUAL

INDOOR



ARXH30KMTAP
ARXH36KMTAP
ARXH45KMTAP

OUTDOOR



AOYG30KBTB
AOYG36KBTB



AOYG45KBTB

FUJITSU GENERAL LIMITED

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Part 1. INDOOR UNIT

DUCT TYPE:

ARXH30KMTAP

ARXH36KMTAP

ARXH45KMTAP

1. Specifications

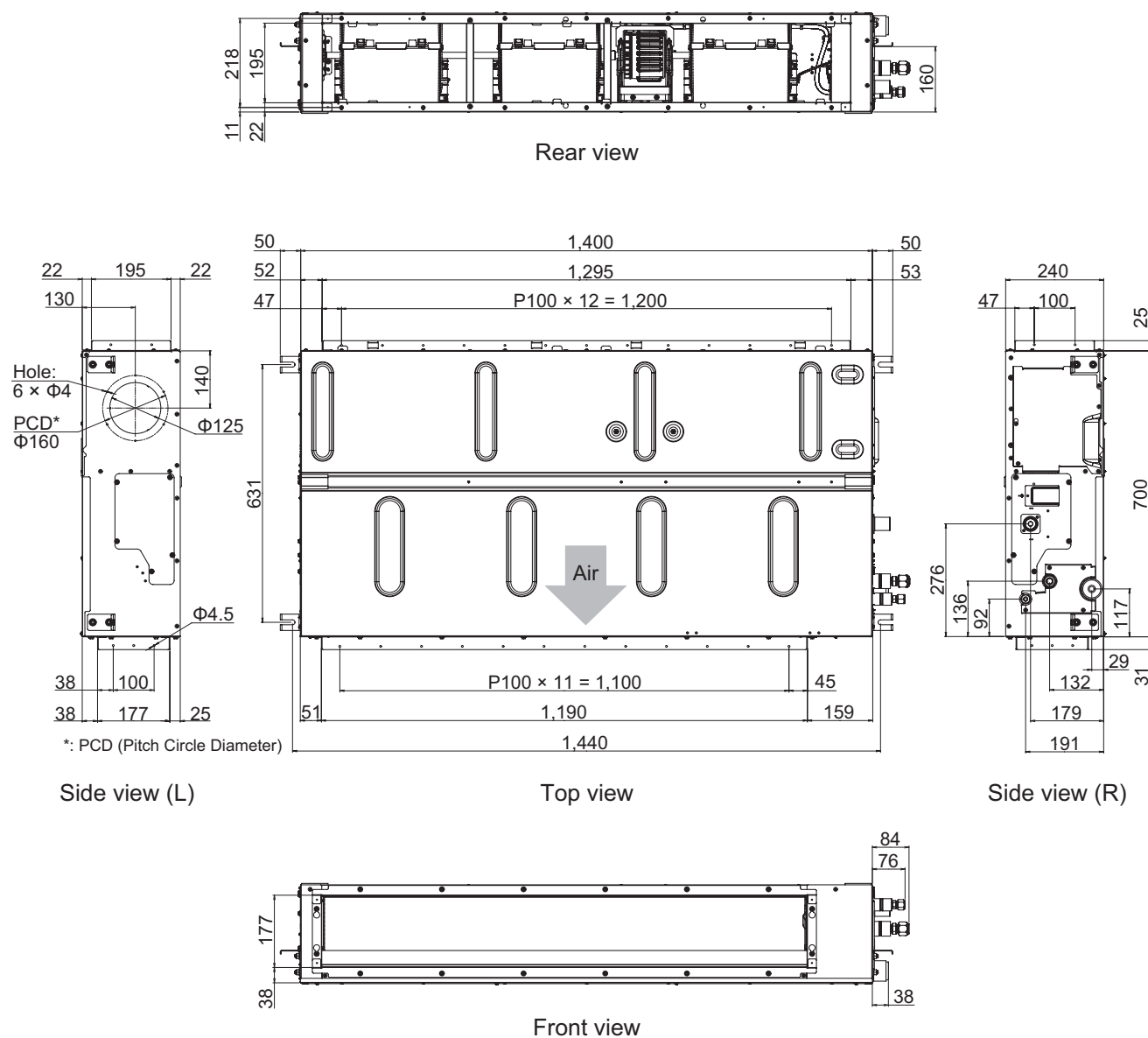
Type				Duct			
				Inverter, Heat pump			
Model name				ARXH30KMTAP	ARXH36KMTAP	ARXH45KMTAP	
Power supply intake				Outdoor unit			
System power supply		Voltage		230			
		Frequency		50			
		Available voltage range		198—264			
Indoor unit power supply (from outdoor unit)			V	230			
Capacity	Cooling	Rated	kW	8.5	9.5	12.1	
			Btu/h	29,000	32,400	41,300	
		Min.—Max.	kW	2.8—10.0	2.8—11.2	4.0—13.5	
			Btu/h	9,600—34,100	9,600—38,200	13,600—46,100	
	Heating	Rated	kW	10.0	10.8	13.5	
			Btu/h	34,100	36,800	46,100	
		Min.—Max.	kW	2.7—11.2	2.7—12.7	4.2—16.2	
			Btu/h	9,200—38,200	9,200—43,300	14,300—55,300	
Input power	Cooling	Rated	kW	2.57	2.97	3.87	
				Max.	3.83	4.29	5.03
		Heating		Rated	2.50	2.70	3.73
					Max.	4.17	4.31
	Fan	HIGH	W	168	192	211	
				MED	93	107	119
				LOW	67	75	81
				QUIET	50	57	60
Current	Cooling	Rated	A	11.3	13.0	16.9	
	Heating			11.0	11.8	16.3	
Energy efficiency class	Cooling		A++			—	
	Heating (Average)		A+			—	
Pdesign	Cooling	kW	8.5	9.5	12.1		
	Heating (Average)		8.0	8.7	9.2		
SEER	Cooling	kWh/kWh	6.23	6.10	5.60		
SCOP	Heating (Average)		4.00	4.10			
Seasonal space energy efficiency	Cooling (ηs.c)	%	—	—	221.0		
	Heating (ηs.h)		—	—	161.0		
Annual energy consumption	QCE	kWh/a	485	553	—		
	QHE (Average)		2,795	2,970	—		
EER	Cooling	kW/kW	3.31	3.20	3.13		
COP	Heating		4.00	3.62			
Sensible capacity	Cooling	kW	7.21	8.01	9.12		
Power factor	Cooling	%	98.9	99.3	99.6		
	Heating		98.8	99.5			
Moisture removal			L/h (pints/h)	1.8 (3.2)	2.0 (3.5)	4.0 (7.0)	
Maximum operating current*1		Cooling		A	22.6		
		Heating			22.6		
Fan	Airflow rate	Cooling	HIGH	m³/h	1,950	2,070	2,160
			MED		1,540	1,660	1,730
			LOW		1,340	1,450	1,510
			QUIET		1,210	1,280	1,320
		Heating	HIGH		1,950	2,070	2,160
			MED		1,540	1,660	1,730
			LOW		1,340	1,450	1,510
			QUIET		1,210	1,280	1,320
	Type × Qty		Sirocco fan × 3				
	Motor output		W	275			
Static pressure range			Pa	30 to 150			
Sound pressure level*2	Cooling	HIGH	dB (A)	38		40	
				34		36	
				31		32	
				28		29	
	Heating	HIGH		38		40	
				34		36	
				31		32	
				28		29	
Sound power level	Cooling	HIGH	dB (A)	64	65	67	
	Heating			64	65	67	
Heat exchanger	Dimensions (H × W × D)		mm	336 × 1,190 × 39.9			
	Fin pitch			1.4			
	Rows × Stages			3 × 16			
	Pipe type			Copper tube			
Enclosure	Fin type		Aluminum				
	Material		Steel sheet				
	Color		—				
Dimensions (H × W × D)	Net		mm	240 × 1,400 × 700			
	Gross			334 × 1,626 × 863			
Weight	Net		kg	42			
	Gross			48			
Connection pipe	Size	Liquid	mm (in)	Ø9.52 (Ø3/8)			
		Gas		Ø15.88 (Ø5/8)			
	Method			Flare			
Drain port	Material			Polyvinyl chloride			
	Tip diameter		mm	Ø26 (I.D.), Ø32 (O.D.)			
Drain hose	Material			Polyvinyl chloride			
	Tip diameter		mm	Ø25 (I.D.), Ø32 (O.D.)			
Operation range	Cooling			°C	18 to 32		
				%RH	80 or less		
	Heating			°C	16 to 30		
Remote controller (Option)				Wireless, Wired, Mobile app*3 [FGLair™, AIRSTAGE Mobile]			

Type	Duct		
	Inverter, Heat pump		
Model name	ARXH30KMTAP	ARXH36KMTAP	ARXH45KMTAP
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.) - Standard static pressure: 30 and 36 model: 50 Pa, 45 model: 60 Pa - Protective function might work when using it outside the operation range. *1: Maximum operating current is the total current of the indoor unit and the outdoor unit. *2: Sound pressure level: - Measured values in manufacturer's anechoic chamber. - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here. *3: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual. - This data is based on EN 14511 standard.			

2. Dimensions

2-1. Models: ARXH30KMTAP, ARXH36KMTAP, and ARXH45KMTAP

Unit: mm



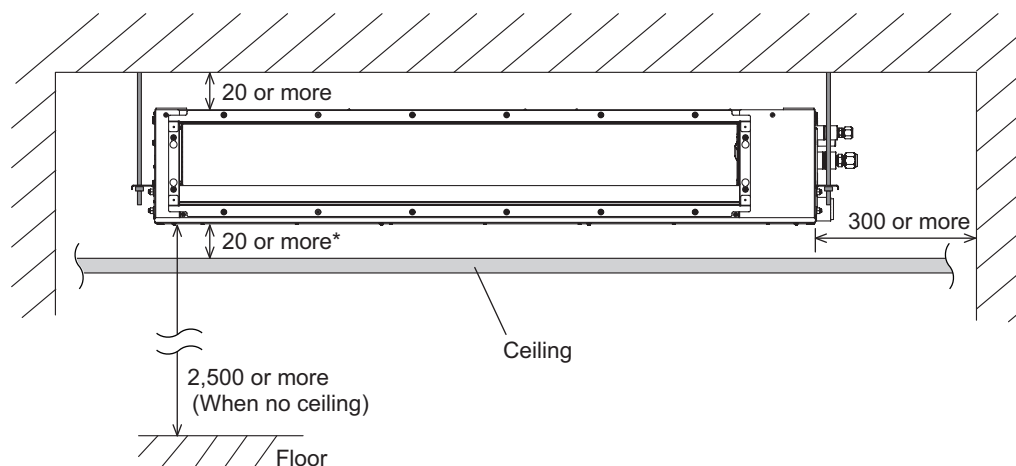
2-2. Installation space requirement

Provide sufficient installation space for product safety.

NOTE: The detailed component shape depends on the model.

■ Models: ARXH30KMTAP, ARXH36KMTAP, and ARXH45KMTAP

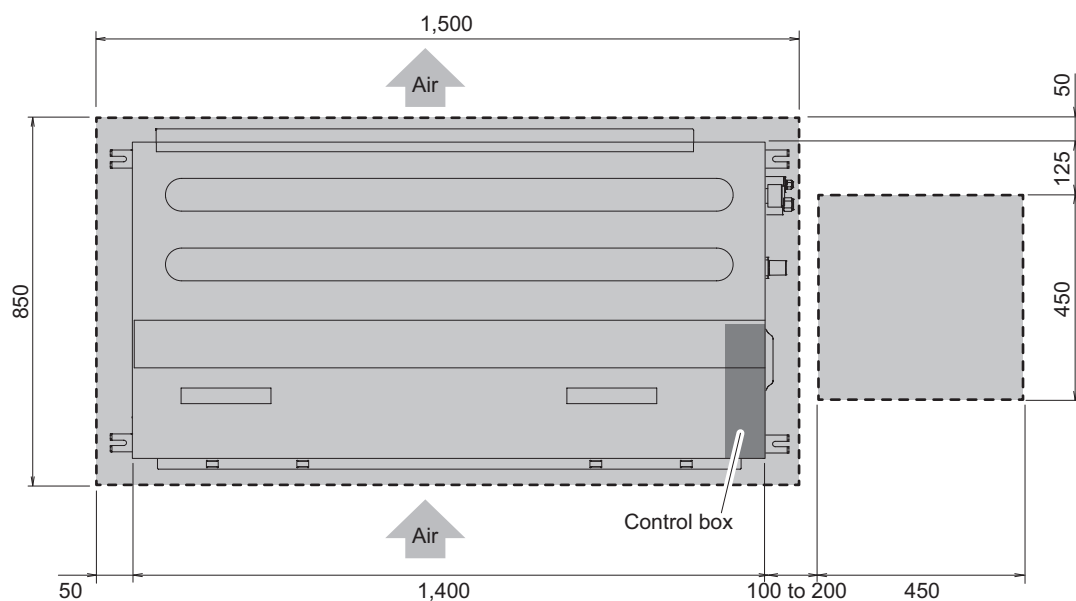
Unit: mm



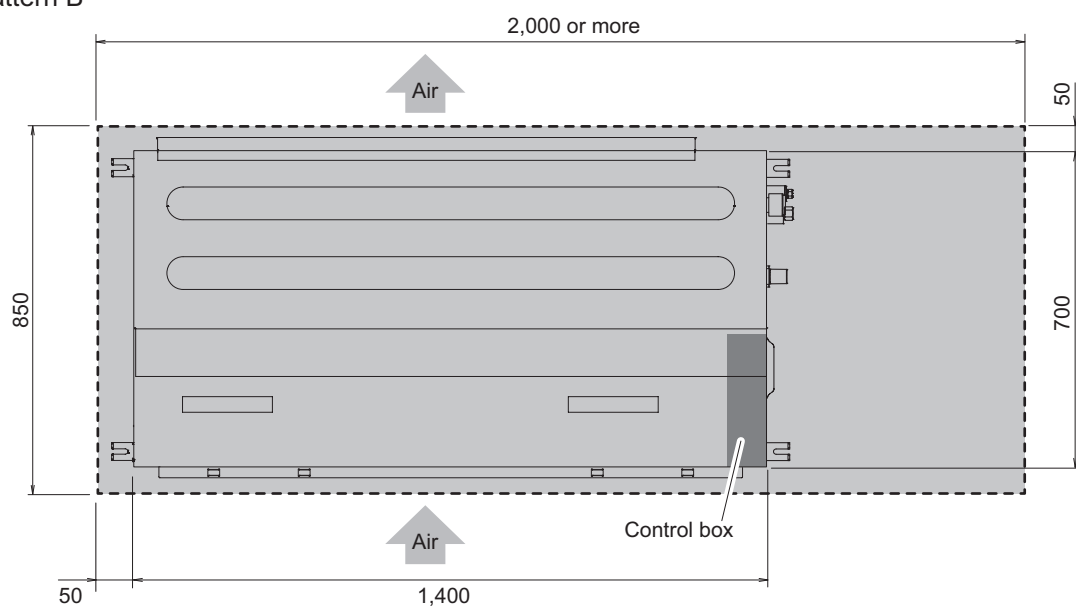
*: According to the distance between the ceiling and the unit, the construction plan of the maintenance access differs. For details, refer to ["Maintenance space requirement"](#) on page 6.

- Distance between the ceiling and the unit is from 20 to 300:
Choose one of these methods to set up the maintenance access.

Pattern A

 Maintenance access


Pattern B



Bottom view

3-1. Models: ARXH30KMTAP, ARXH36KMTAP, and ARXH45KMTAP



4. Capacity table

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

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

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

4-1. Cooling capacity

■ Model: ARXH30KMTAP

AFR							m³/h										1,950							
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				
	-15	6.18	5.50	1.00	6.40	5.51	1.03	6.54	5.52	1.05	6.91	5.79	1.06	7.27	6.06	1.08	7.68	6.25	1.10	8.29	6.54	1.12		
	-10	6.05	5.42	1.22	6.26	5.44	1.25	6.41	5.45	1.27	6.76	5.71	1.29	7.12	5.96	1.31	7.52	6.16	1.33	8.12	6.45	1.36		
	0	5.79	5.26	1.65	6.00	5.28	1.69	6.13	5.29	1.72	6.47	5.53	1.75	6.82	5.79	1.77	7.20	5.98	1.79	7.77	6.25	1.83		
	5	5.74	5.23	1.70	5.95	5.24	1.74	6.08	5.26	1.77	6.42	5.51	1.79	6.76	5.76	1.82	7.14	5.95	1.85	7.71	6.22	1.89		
	10	5.69	5.21	1.75	5.89	5.22	1.79	6.03	5.23	1.81	6.36	5.48	1.85	6.70	5.74	1.88	7.07	5.92	1.91	7.64	6.20	1.95		
	15	5.60	5.13	1.80	5.79	5.14	1.84	5.93	5.15	1.87	6.26	5.39	1.90	6.59	5.64	1.93	6.96	5.82	1.96	7.51	6.09	2.01		
	20	8.44	6.90	2.17	8.74	6.92	2.22	8.94	6.93	2.26	9.44	7.26	2.30	9.93	7.60	2.34	10.49	7.85	2.37	11.33	8.21	2.41		
	25	8.04	6.78	2.24	8.32	6.80	2.30	8.51	6.81	2.33	8.98	7.14	2.38	9.46	7.47	2.41	9.99	7.71	2.44	10.78	8.07	2.50		
	30	7.63	6.66	2.32	7.90	6.68	2.38	8.08	6.70	2.41	8.53	7.02	2.45	8.98	7.34	2.49	9.48	7.58	2.53	10.24	7.92	2.58		
	35	7.22	6.54	2.40	7.48	6.57	2.44	7.65	6.58	2.48	8.07	6.89	2.53	8.50	7.21	2.57	8.98	7.44	2.61	9.69	7.78	2.67		
	40	6.76	6.43	2.50	7.00	6.45	2.56	7.16	6.46	2.60	7.56	6.77	2.64	7.95	7.08	2.69	8.40	7.31	2.73	9.07	7.64	2.78		
	46	6.20	6.20	2.63	6.42	6.30	2.69	6.57	6.32	2.73	6.93	6.62	2.77	7.30	6.92	2.82	7.71	7.15	2.86	8.32	7.48	2.93		

■ Model: ARXH36KMTAP

AFR							m³/h							2,070								
		Indoor temperature																				
		18			21			23			25			27			29			32		
		12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC kW	IP	TC	SHC kW	IP	TC	SHC kW	IP	TC	SHC kW	IP	TC	SHC kW	IP	TC	SHC kW	IP	TC	SHC kW	IP
	-15	6.91	6.07	1.03	7.15	6.10	1.06	7.31	6.12	1.08	7.72	6.40	1.09	8.13	6.70	1.11	8.58	6.91	1.13	9.27	7.23	1.15
	-10	6.76	6.06	1.26	7.00	6.08	1.29	7.16	6.10	1.31	7.56	6.39	1.33	7.96	6.68	1.35	8.40	6.89	1.37	9.07	7.22	1.40
	0	6.47	6.03	1.70	6.70	6.05	1.74	6.86	6.06	1.77	7.24	6.35	1.80	7.62	6.64	1.83	8.05	6.86	1.85	8.69	7.18	1.89
	5	6.42	6.00	1.75	6.64	6.02	1.79	6.80	6.04	1.82	7.17	6.33	1.85	7.55	6.61	1.88	7.98	6.82	1.91	8.61	7.14	1.95
	10	6.36	5.97	1.80	6.59	6.00	1.85	6.74	6.02	1.87	7.11	6.30	1.91	7.49	6.59	1.94	7.91	6.80	1.97	8.54	7.12	2.01
	15	6.26	5.87	1.86	6.48	5.90	1.90	6.62	5.92	1.93	6.99	6.19	1.96	7.36	6.48	1.99	7.77	6.69	2.02	8.39	7.00	2.07
	20	9.44	7.89	2.51	9.77	7.93	2.57	9.99	7.95	2.61	10.55	8.32	2.65	11.10	8.70	2.70	11.73	8.98	2.73	12.66	9.40	2.79
	25	8.98	7.68	2.59	9.30	7.72	2.65	9.51	7.74	2.70	10.04	8.10	2.74	10.57	8.48	2.79	11.16	8.74	2.83	12.05	9.15	2.89
	30	8.53	7.47	2.68	8.83	7.51	2.74	9.03	7.53	2.78	9.53	7.88	2.83	10.03	8.24	2.88	10.60	8.51	2.92	11.44	8.91	2.98
	35	8.07	7.27	2.76	8.36	7.30	2.83	8.55	7.32	2.87	9.02	7.66	2.92	9.50	8.01	2.97	10.03	8.27	3.01	10.83	8.65	3.08
40	7.55	7.07	2.89	7.82	7.09	2.96	8.00	7.11	3.00	8.44	7.44	3.05	8.89	7.78	3.10	9.39	8.04	3.15	10.14	8.41	3.22	
46	6.93	6.81	3.04	7.18	6.83	3.11	7.34	6.86	3.16	7.75	7.19	3.21	8.16	7.51	3.26	8.61	7.75	3.31	9.30	8.11	3.38	

■ Model: ARXH45KMTAP

AFR							m³/h										2,160					
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		
	-15	8.51	6.64	1.54	9.23	6.97	1.58	9.72	7.19	1.60	10.20	7.49	1.62	10.68	7.79	1.64	11.13	7.94	1.64	11.79	8.15	1.64
	-10	8.58	6.70	1.56	9.31	7.04	1.60	9.80	7.26	1.62	10.28	7.57	1.64	10.77	7.87	1.67	11.22	8.01	1.67	11.89	8.23	1.67
	0	8.73	6.83	1.60	9.47	7.17	1.64	9.96	7.40	1.67	10.46	7.71	1.69	10.95	8.02	1.71	11.41	8.17	1.71	12.09	8.39	1.71
	5	8.57	6.74	1.65	9.30	7.08	1.69	9.78	7.31	1.71	10.27	7.61	1.73	10.76	7.92	1.76	11.20	8.06	1.76	11.88	8.28	1.76
	10	8.42	6.65	1.69	9.13	6.99	1.72	9.61	7.21	1.75	10.08	7.51	1.78	10.56	7.81	1.80	11.00	7.96	1.80	11.66	8.17	1.80
	15	8.27	6.54	1.73	8.98	6.87	1.78	9.45	7.10	1.80	9.91	7.39	1.82	10.38	7.69	1.85	10.82	7.83	1.85	11.47	8.04	1.85
	20	11.05	8.40	3.29	11.99	8.82	3.37	12.61	9.10	3.41	13.24	9.48	3.47	13.86	9.86	3.51	14.44	10.04	3.51	15.31	10.31	3.51
	25	10.58	8.18	3.40	11.48	8.60	3.48	12.08	8.87	3.53	12.68	9.24	3.59	13.28	9.61	3.63	13.83	9.79	3.63	14.66	10.05	3.63
	30	10.11	7.97	3.51	10.97	8.38	3.59	11.54	8.64	3.65	12.12	9.00	3.70	12.69	9.36	3.75	13.22	9.54	3.75	14.01	9.79	3.75
	35	9.64	7.76	3.63	10.46	8.15	3.70	11.01	8.41	3.76	11.55	8.77	3.81	12.10	9.12	3.87	12.61	9.28	3.87	13.36	9.53	3.87
	40	8.22	7.10	3.26	8.92	7.46	3.34	9.38	7.70	3.39	9.85	8.02	3.44	10.32	8.34	3.48	10.75	8.50	3.48	11.39	8.72	3.48
	46	6.51	6.31	2.83	7.07	6.63	2.90	7.44	6.84	2.94	7.80	7.13	2.98	8.17	7.41	3.03	8.51	7.55	3.03	9.03	7.75	3.03

4-2. Heating capacity

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

■ Model: ARXH30KMTAP

AFR				m³/h				1,950				
			Indoor temperature									
		°CDB	16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-15	-16	7.10	3.31	7.07	3.31	7.04	3.32	6.86	3.32	6.40	3.34
	-10	-11	8.12	3.59	8.09	3.59	8.05	3.59	7.84	3.60	7.33	3.61
	-5	-7	9.14	3.85	9.10	3.86	9.07	3.86	8.83	3.86	8.25	3.88
	0	-2	9.71	4.07	9.67	4.07	9.63	4.09	9.38	4.09	8.76	4.10
	5	3	10.84	4.13	10.80	4.13	10.75	4.15	10.47	4.15	9.78	4.17
	7	6	11.30	4.16	11.25	4.17	11.20	4.17	10.91	4.17	10.19	4.19
	10	8	11.64	4.16	11.59	4.17	11.54	4.17	11.25	4.17	10.50	4.19
	15	10	12.11	4.16	12.06	4.17	12.01	4.17	11.70	4.17	10.93	4.19
20	15	12.90	4.17	12.84	4.17	12.79	4.18	12.46	4.18	11.64	4.21	
24	18	13.53	4.18	13.47	4.18	13.41	4.19	13.07	4.19	12.20	4.21	

■ Model: ARXH36KMTAP

AFR				m³/h				2,070				
			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	
	-15	-16	8.05	3.58	8.01	3.58	7.98	3.59	7.77	3.59	7.26	3.60
	-10	-11	9.21	3.87	9.17	3.87	9.13	3.87	8.89	3.88	8.31	3.89
	-5	-7	10.37	4.15	10.32	4.16	10.28	4.16	10.02	4.17	9.35	4.19
	0	-2	11.01	4.21	10.97	4.22	10.92	4.22	10.64	4.22	9.94	4.24
	5	3	12.30	4.28	12.24	4.28	12.19	4.29	11.88	4.29	11.09	4.30
	7	6	12.81	4.30	12.75	4.31	12.70	4.31	12.37	4.32	11.56	4.33
	10	8	13.20	4.30	13.15	4.31	13.09	4.31	12.75	4.32	11.91	4.33
	15	10	13.73	4.30	13.68	4.31	13.62	4.31	13.27	4.32	12.39	4.33
20	15	14.63	4.31	14.56	4.32	14.50	4.32	14.13	4.33	13.19	4.34	
24	18	15.34	4.32	15.27	4.32	15.21	4.33	14.82	4.33	13.84	4.36	

■ Model: ARXH45KMTAP

AFR				m³/h				2,160				
			Indoor temperature									
		°CDB	16		18		20		22		24	
Outdoor temperature	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
	-15	-16	11.61	4.54	11.33	4.56	11.05	4.58	10.80	4.58	10.16	4.58
	-10	-11	12.90	4.73	12.59	4.75	12.28	4.78	11.99	4.78	11.28	4.78
	-5	-7	14.18	4.93	13.84	4.95	13.50	4.97	13.18	4.97	12.41	4.97
	0	-2	15.49	5.11	15.11	5.14	14.74	5.17	14.40	5.17	13.55	5.17
	5	3	16.57	4.77	16.18	4.79	15.78	4.82	15.41	4.82	14.49	4.82
	7	6	17.01	4.76	16.61	4.79	16.20	4.81	15.83	4.81	14.88	4.81
	10	8	17.71	4.75	17.30	4.78	16.87	4.80	16.48	4.80	15.50	4.80
	15	10	18.90	4.74	18.44	4.76	17.99	4.78	17.57	4.78	16.53	4.78
20	15	20.07	4.72	19.59	4.74	19.11	4.77	18.66	4.77	17.55	4.77	
24	18	21.01	4.71	20.51	4.73	20.00	4.75	19.54	4.75	18.37	4.75	

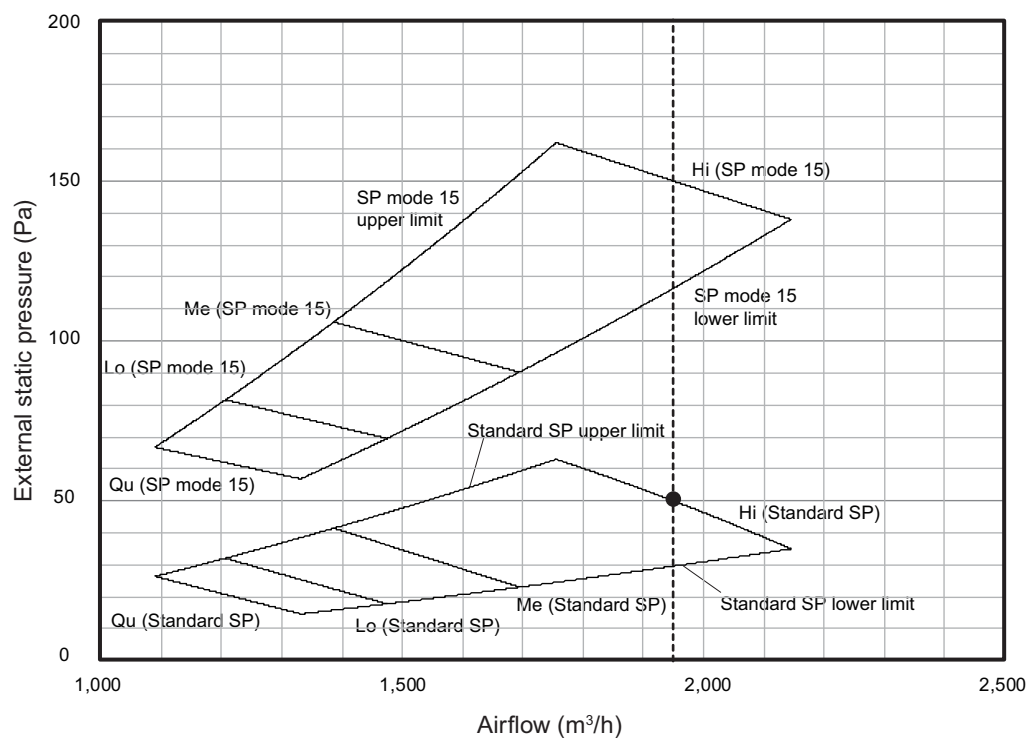
5. Fan performance

NOTE: Airflow and capacity/outlet temperature curve data are measured based on the same conditions mentioned in "Specifications".

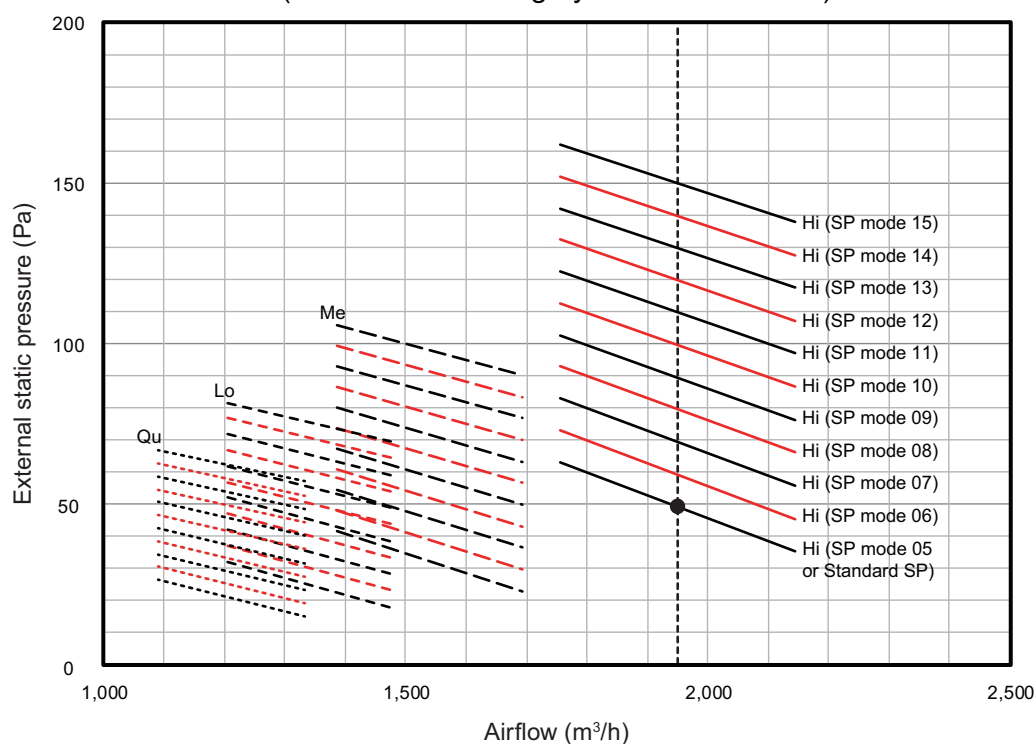
5-1. Fan performance curve

■ Model: ARXH30KMTAP

Fan performance curve 1



Fan performance curve 2
(For function setting by remote controller)

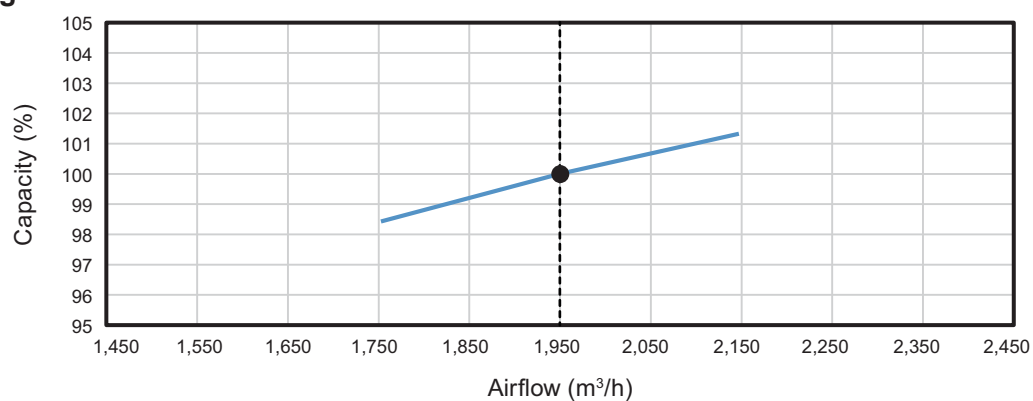


NOTES:

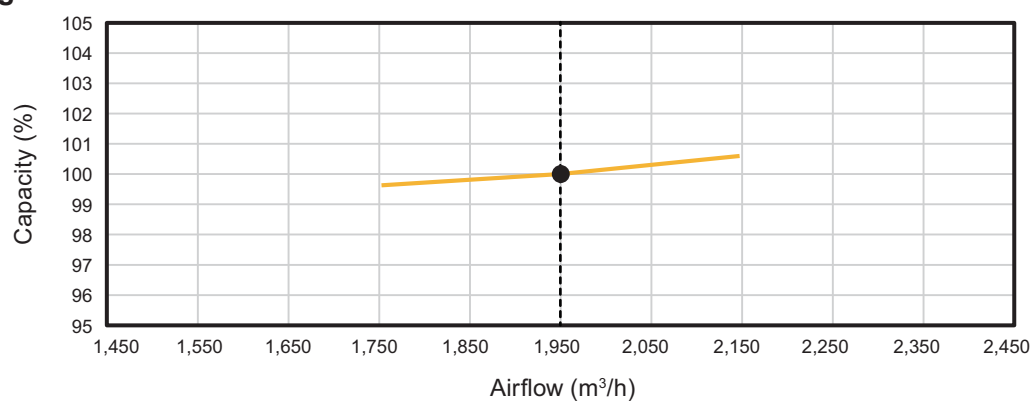
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring “Fan performance curve 2” above.
- The default setting is set at “Standard SP”.

● Characteristics of air volume and capacity

• Cooling

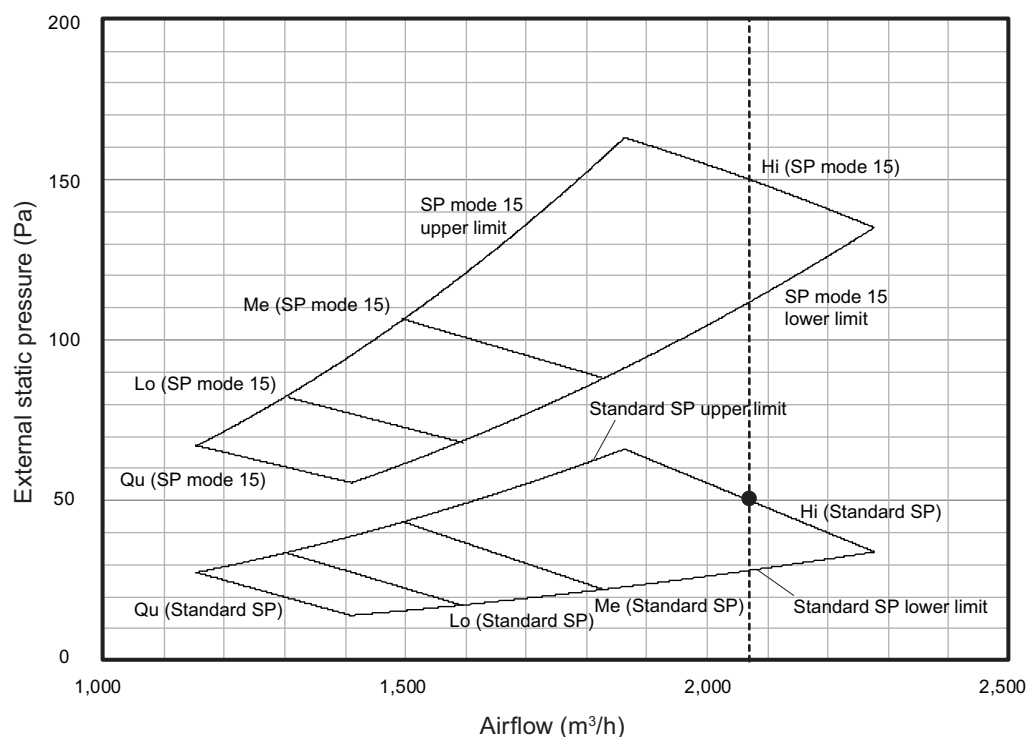


• Heating

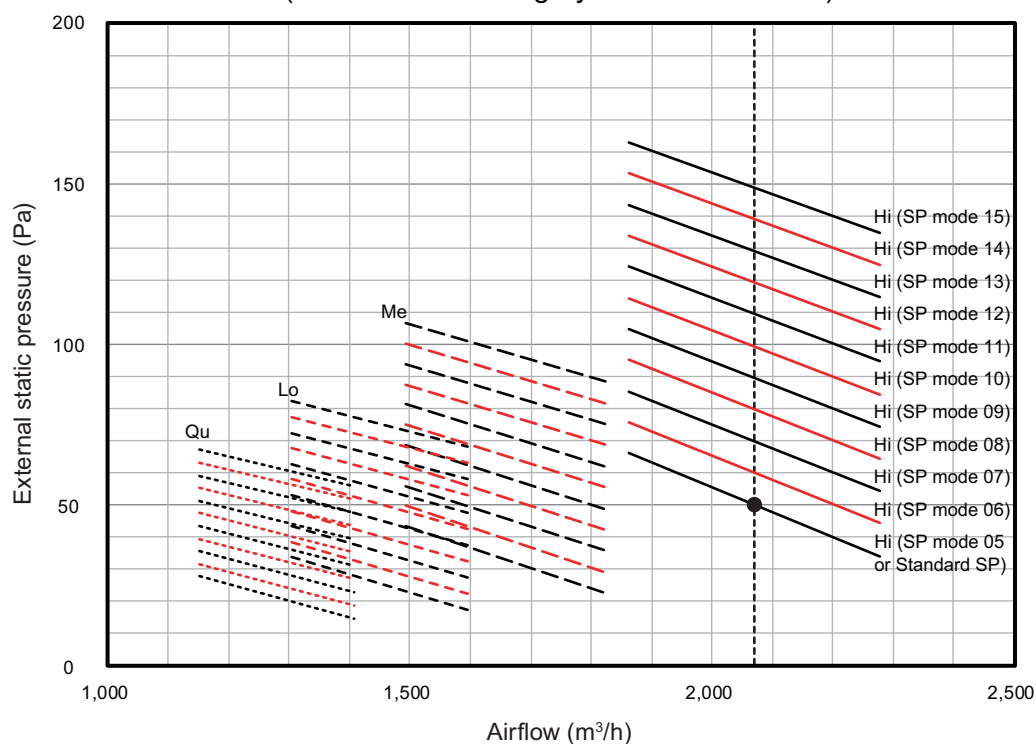


Model: ARXH36KMTAP

Fan performance curve 1



Fan performance curve 2 (For function setting by remote controller)

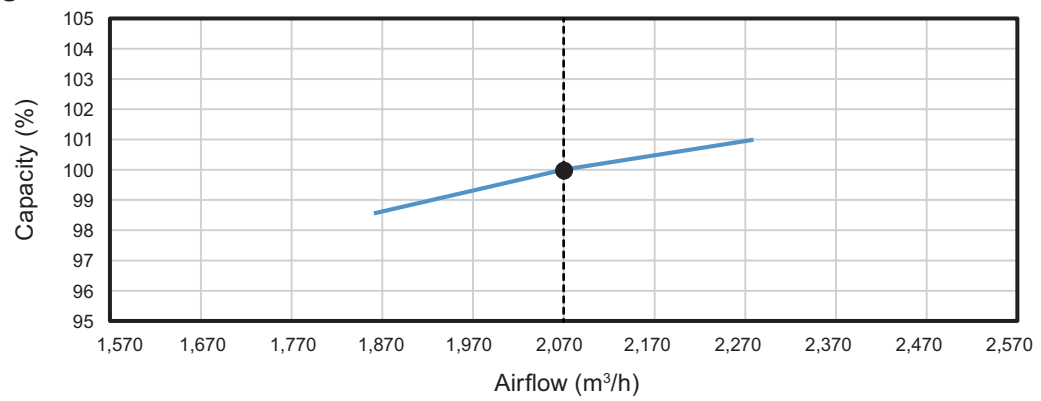


NOTES:

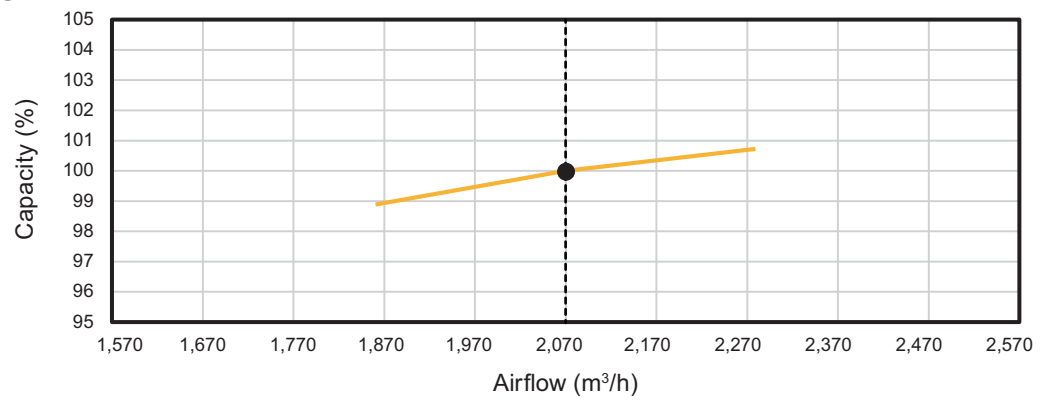
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve 2" above.
- The default setting is set at "Standard SP".

● Characteristics of air volume and capacity

• Cooling

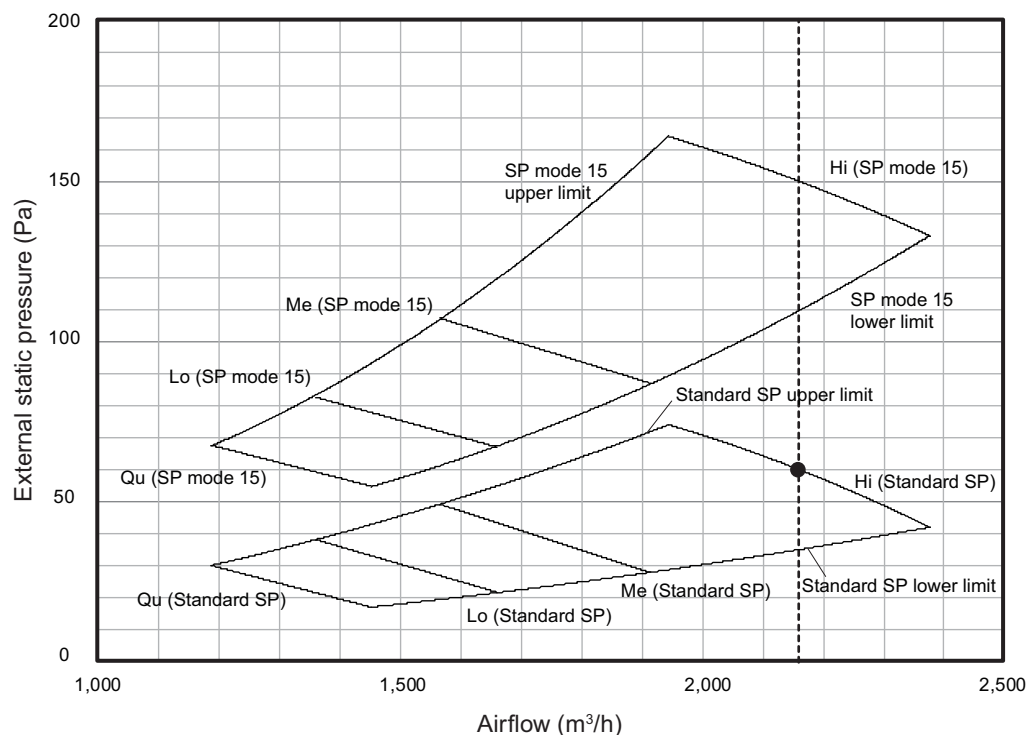


• Heating

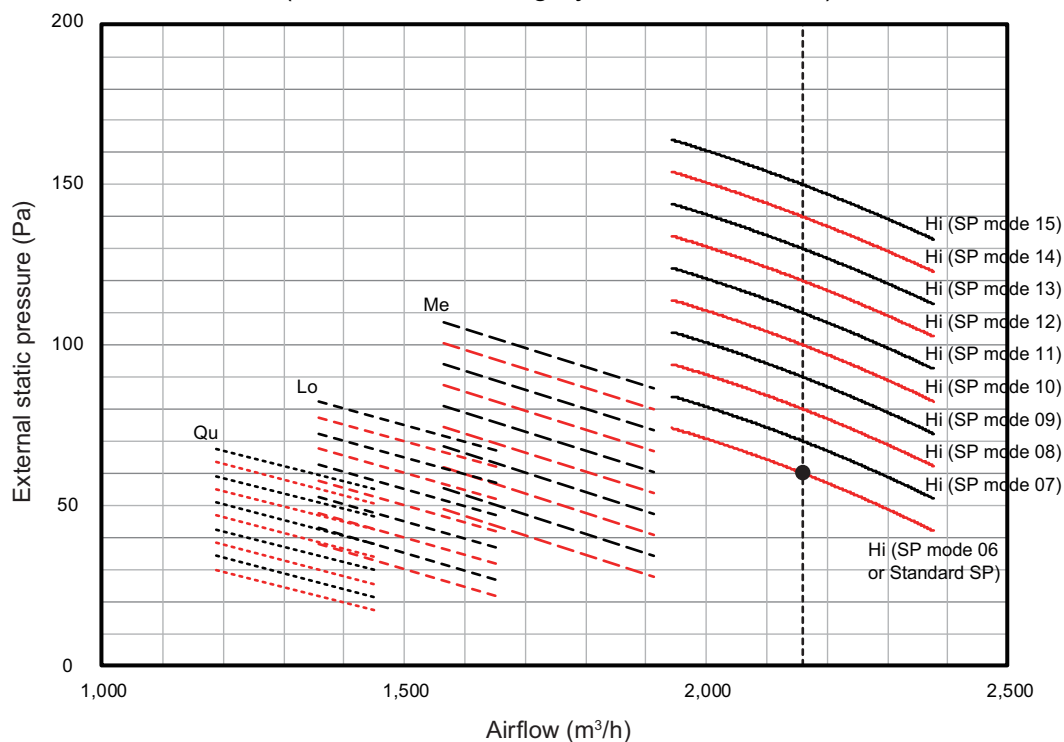


Model: ARXH45KMTAP

Fan performance curve 1



Fan performance curve 2
(For function setting by remote controller)

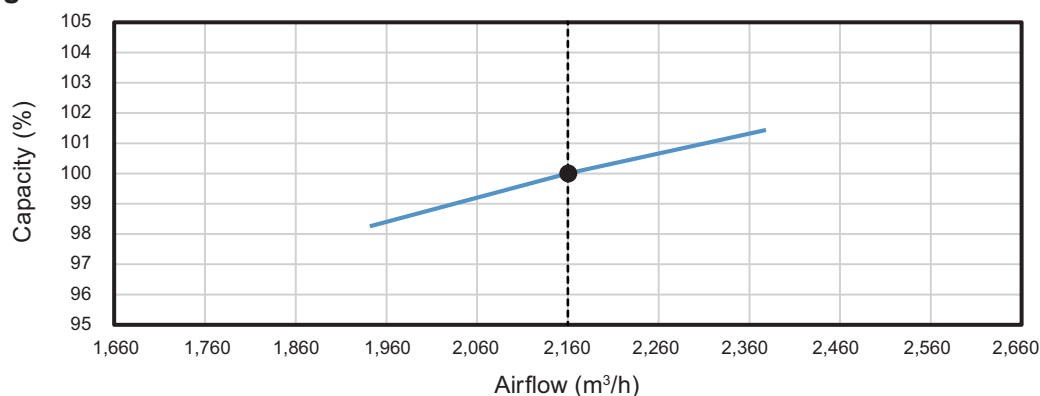


NOTES:

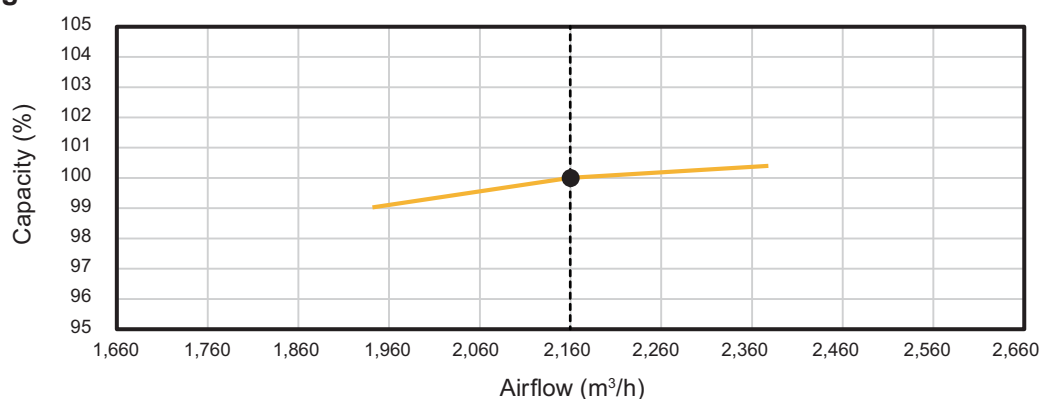
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve 2" above.
- The default setting is set at "Standard SP".

● Characteristics of air volume and capacity

• Cooling



• Heating



■ Automatic airflow adjustment procedures

1. To start the auto setting, use setting value 32 in function number 26.
2. Run the air conditioner on fan mode (High).
 - * For instructions on how to operate the air conditioner, refer to the operation manual of the remote controller.

During automatic airflow adjustment, the mode will be fixed at fan (High).
When this function is active, do not operate the outdoor unit.
3. The air conditioner will run for about 1 to 8 min then stop automatically.
 - * Do not change the throttles of the inlet and outlet ports during operation.

When used in a group control system, the setting will take about 10 min.
4. Turn the air conditioner off and on again.
5. Check the setting value of function number 26.
 - * If the setting value has not changed, repeat the procedure from step 2.

⚠ CAUTION

When the duct or outlet installations are changed after the Automatic airflow adjustment is completed, repeat the procedure from step 1.

5-2. Airflow

■ Model: ARXH30KMTAP

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	1,950
	l/s	542
	CFM	1,148
MED	m ³ /h	1,540
	l/s	428
	CFM	906
LOW	m ³ /h	1,340
	l/s	372
	CFM	789
QUIET	m ³ /h	1,210
	l/s	336
	CFM	712

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	1,950
	l/s	542
	CFM	1,148
MED	m ³ /h	1,540
	l/s	428
	CFM	906
LOW	m ³ /h	1,340
	l/s	372
	CFM	789
QUIET	m ³ /h	1,210
	l/s	336
	CFM	712

■ Model: ARXH36KMTAP

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	2,070
	l/s	575
	CFM	1,218
MED	m ³ /h	1,660
	l/s	461
	CFM	977
LOW	m ³ /h	1,450
	l/s	403
	CFM	853
QUIET	m ³ /h	1,280
	l/s	356
	CFM	753

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	2,070
	l/s	575
	CFM	1,218
MED	m ³ /h	1,660
	l/s	461
	CFM	977
LOW	m ³ /h	1,450
	l/s	403
	CFM	853
QUIET	m ³ /h	1,280
	l/s	356
	CFM	753

■ Model: ARXH45KMTAP

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	2,160
	l/s	600
	CFM	1,271
MED	m ³ /h	1,730
	l/s	481
	CFM	1,018
LOW	m ³ /h	1,510
	l/s	419
	CFM	889
QUIET	m ³ /h	1,320
	l/s	367
	CFM	777

● Heating

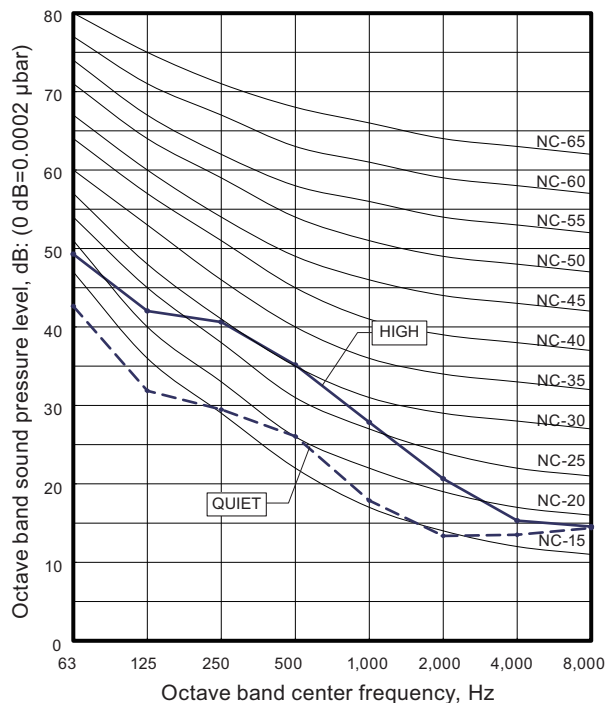
Fan speed	Airflow	
HIGH	m ³ /h	2,160
	l/s	600
	CFM	1,271
MED	m ³ /h	1,730
	l/s	481
	CFM	1,018
LOW	m ³ /h	1,510
	l/s	419
	CFM	889
QUIET	m ³ /h	1,320
	l/s	367
	CFM	777

6. Operation noise (sound pressure)

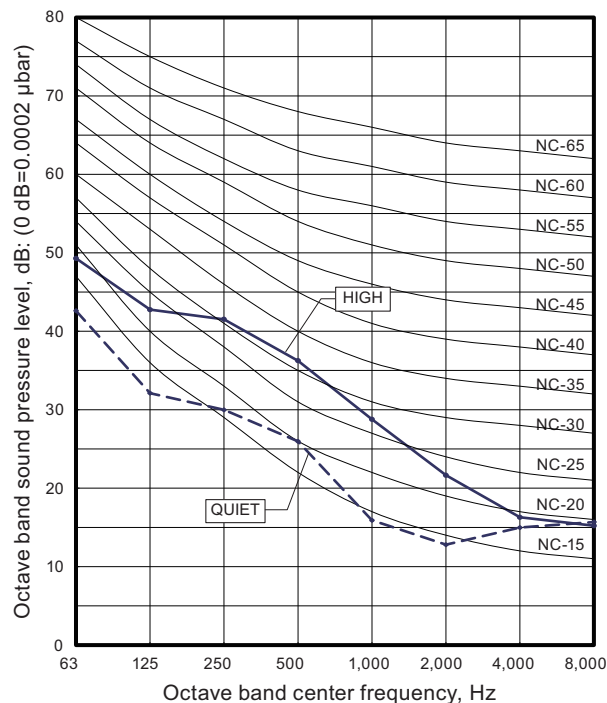
6-1. Noise level curve

■ Model: ARXH30KMTAP

● Cooling

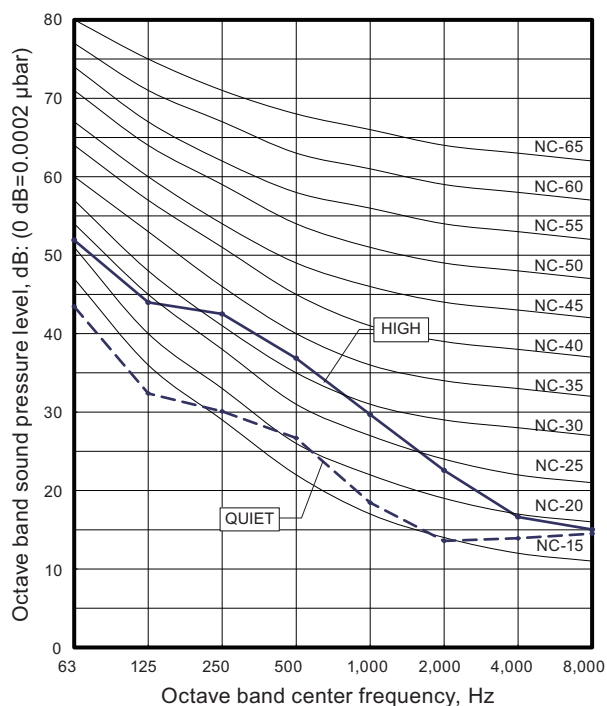


● Heating

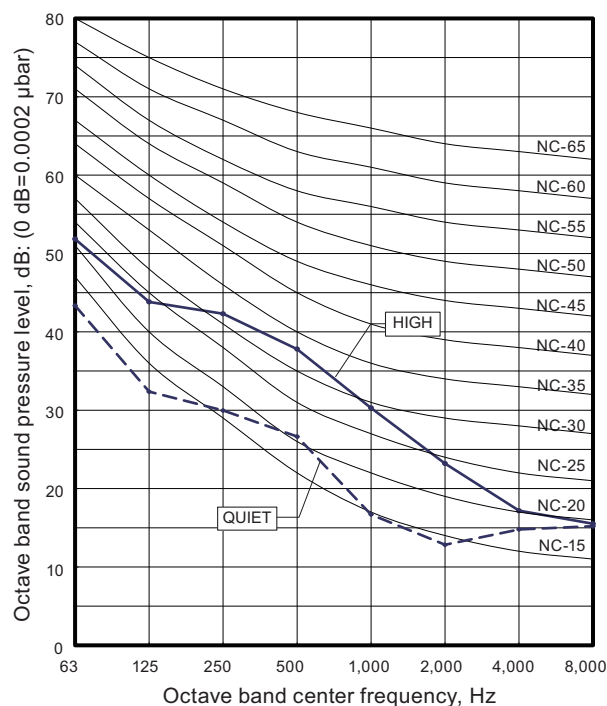


■ Model: ARXH36KMTAP

● Cooling

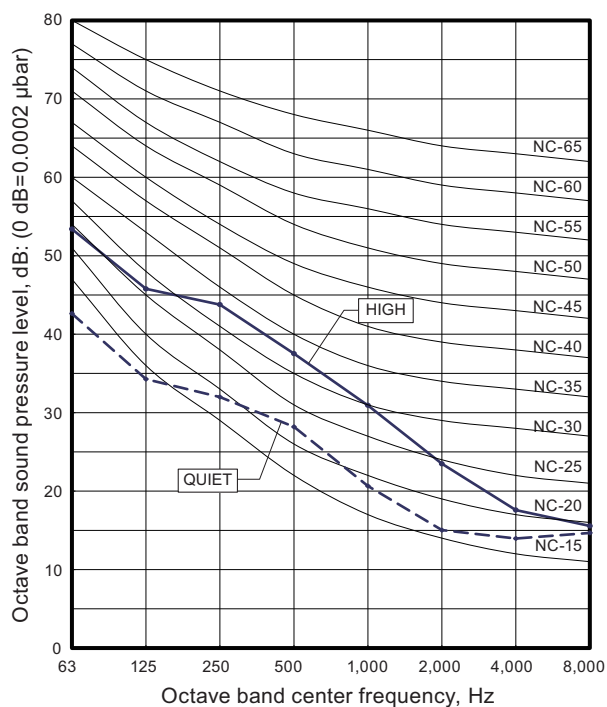


● Heating

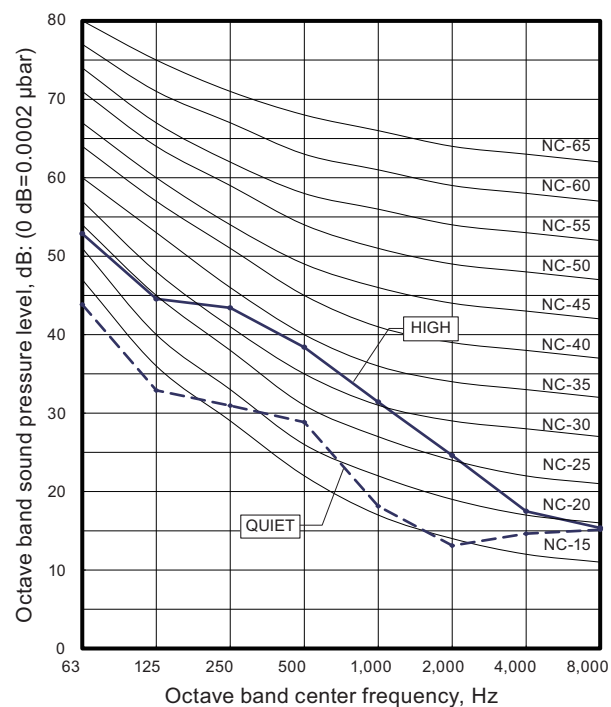


Model: ARXH45KMTAP

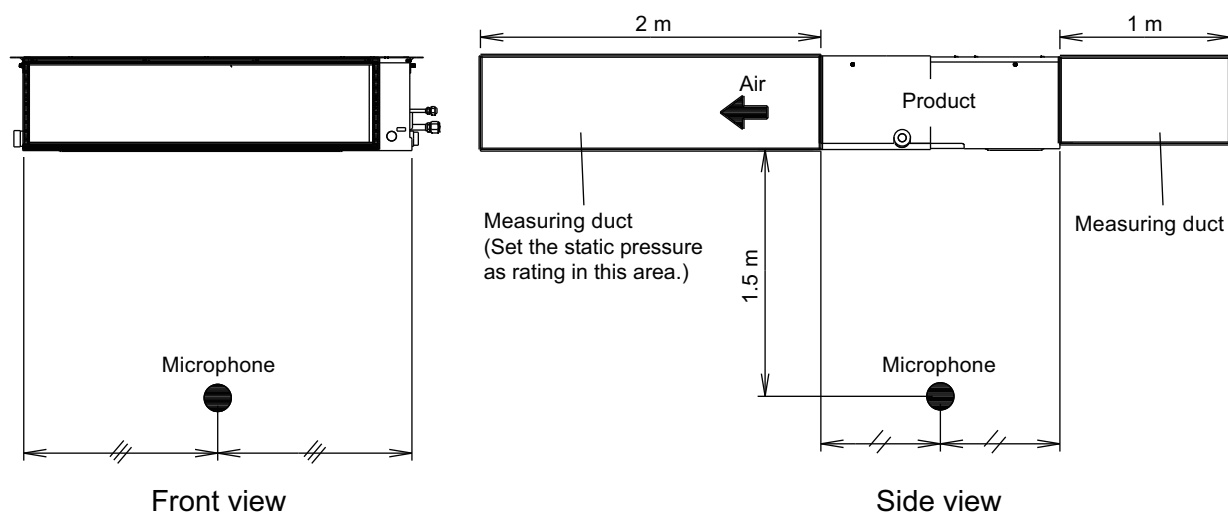
● Cooling



● Heating



6-2. Sound level check point



7. Safety devices

Type of protection	Protection form	Model	
		ARXH30KMTAP ARXH36KMTAP ARXH45KMTAP	
Circuit protection	Current fuse (PCB*)	250 V, 5 A	
Fan motor protection	Thermal protection program	Activate	110 ±10°C Fan motor stop
		Reset	70°C Fan motor restart

*PCB: Printed Circuit Board

8. External input and output

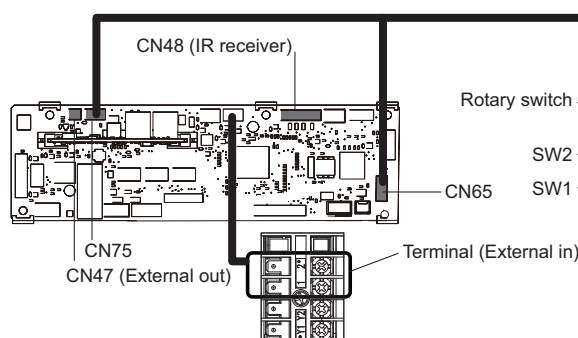


Fig. Indoor unit PCB

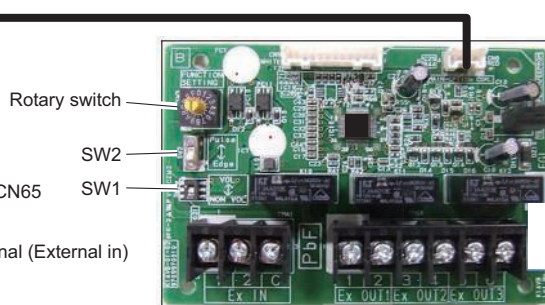


Fig. External Input and Output PCB

Connecting point		Input/Output	Function	Input select	Input signal
Indoor unit	Terminal	Input	Operation/Stop	Dry contact	Edge
			Forced stop		
	CN47	Output	Operation/Stop	—	—
			Error status		
			Indoor unit fan operation status		
External Input and Output PCB (UTY-XCSX)	Ex IN 1/2	Input	Operation/Stop	Dry contact/Apply voltage	Edge/Pulse
	Ex IN 1		Forced thermostat off		Edge
	Ex OUT 1 Ex OUT 2 Ex OUT 3	Output	Operation/Stop	—	—
			Error status		
			Indoor unit fan operation status		
			External heater output		

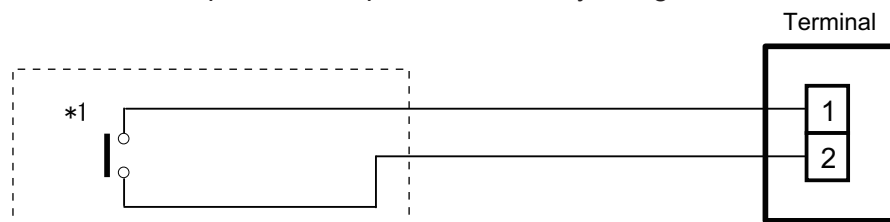
NOTE: For details of the switching function, refer to ["Setting of external input and output"](#) on page 28.

8-1. External input

- “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 terminal.



*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

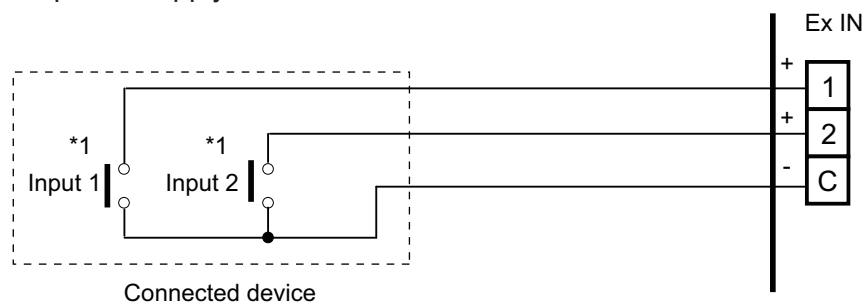
The indoor unit Operation/Stop can be set by using the input terminal on the PCB.

Input select

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

– Dry contact

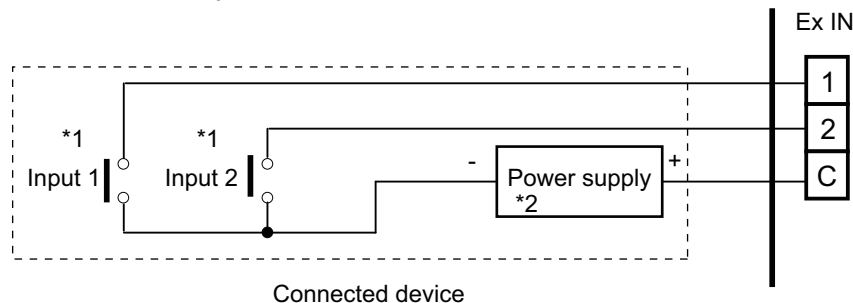
In case of internal power supply, set the slide switch of SW1 to “NON VOL” side.



*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 SW1 to “VOL” side.



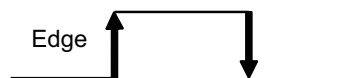
*1: The switches can be used on the following condition: DC 12 V to 24 V, 1 mA to 15 mA.

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

■ Input signal type

- **Indoor unit**

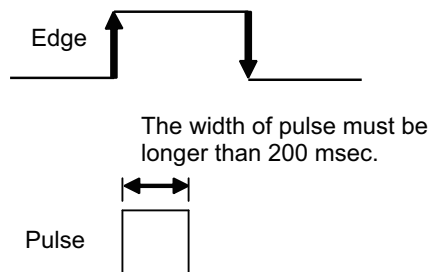
Input signal type is only "Edge".



- **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 (SW2) on the External Input and Output PCB.



NOTE: The input signal supports the following switch type:

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

8-2. External output

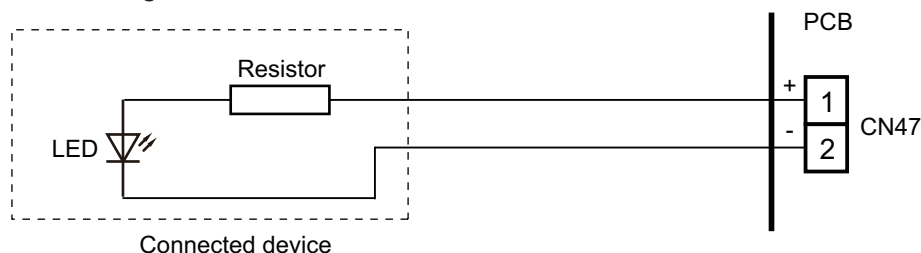
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

Indoor unit

- A twisted pair cable (22 AWG) 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 28.

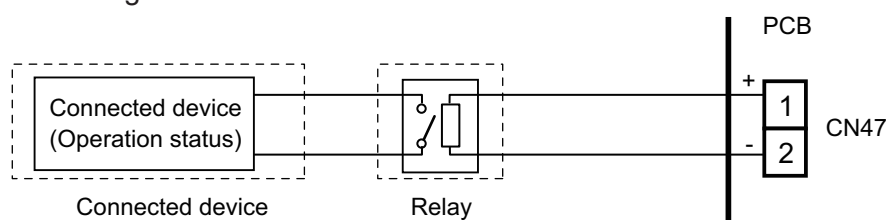
When indicator, etc. are connected directly

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



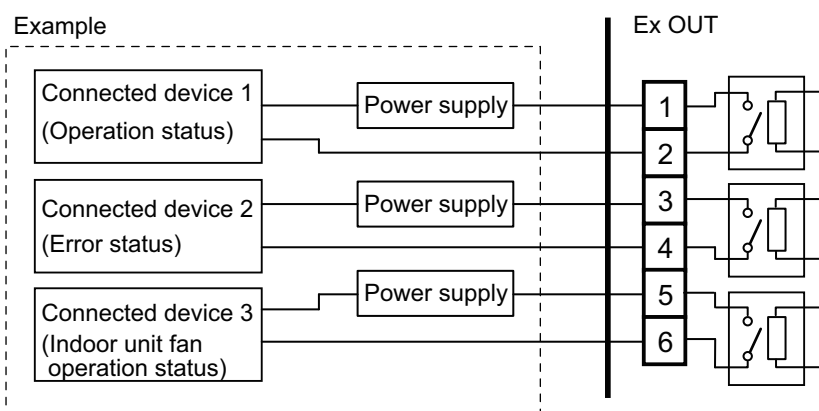
When connecting with a device equipped with a power supply

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



External Input and Output PCB

- A twisted pair cable (22 AWG) should be used.
- Permissible voltage and current: DC 5 V to 30 V/3 A, AC 30 V to 250 V/3 A
- For details, refer to ["Setting of external input and output"](#) on page 28.



8-3. Setting of external input and output

- Indoor unit

Input		
Connecting point	Function setting number 46	Function
Terminal	00	Operation/Stop mode 1
	01	(Setting prohibited)
	02	Forced stop mode
	03	Operation/Stop mode 2

Output		
Connecting 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	External heater output

- External Input and Output PCB

Switch setting		Input		Output		
Rotary switch	SW2	Ex IN 1	Ex IN 2	Ex OUT 1	Ex OUT 2	Ex OUT 3
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	External heater output
3 to 9, A		(Setting prohibited)				
B		Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	External heater output
C		Forced thermostat off	Not available	Operation/Stop	Error status	External heater output
D		Forced thermostat off	Not available	Operation/Stop	Indoor unit fan operation status	Error status

NOTES:

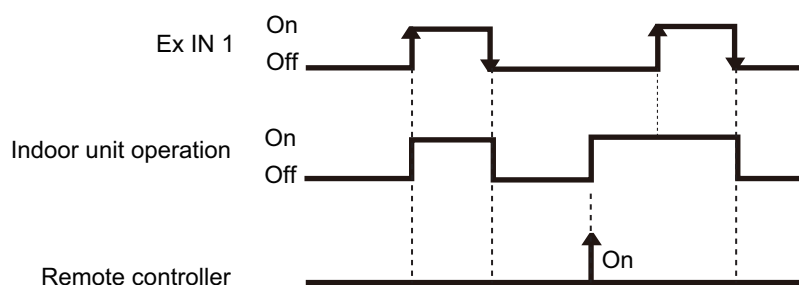
- When the rotary switch is selected to "1", the operation of the terminal input of the indoor unit and the External Input and Output PCB input are the same. The operation content depends on the setting of function setting number 46.
- *: The external input other than "Operation/Stop" is available only when the SW2 is set to "Edge".

8-4. Details of control input function

■ Operation/Stop mode 1

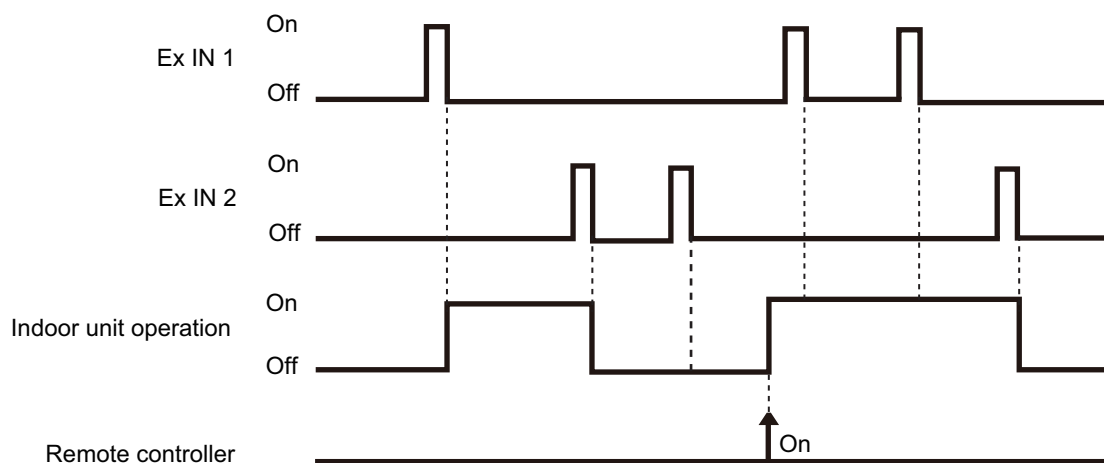
- In the case of "Edge" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-00	—		Input of indoor unit	Terminal	Off → On	Operation
	—		Input of indoor unit	Terminal	On → Off	Stop
	1	Edge	External Input and Output PCB	Ex IN 1	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	SW2				
46-00	1	Pulse	External Input and Output PCB	Ex IN 1	Pulse	Operation
				Ex IN 2		Stop



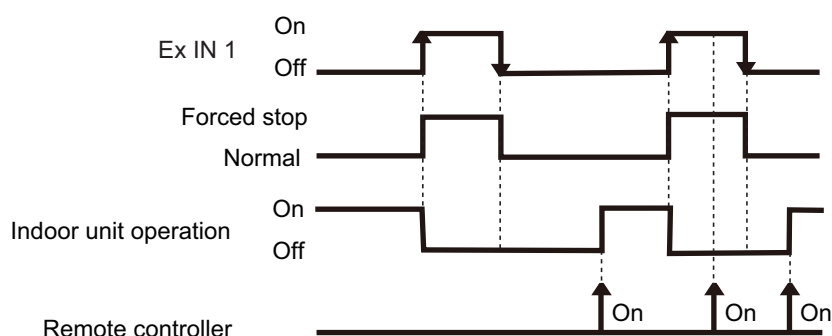
NOTES:

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

■ Forced stop

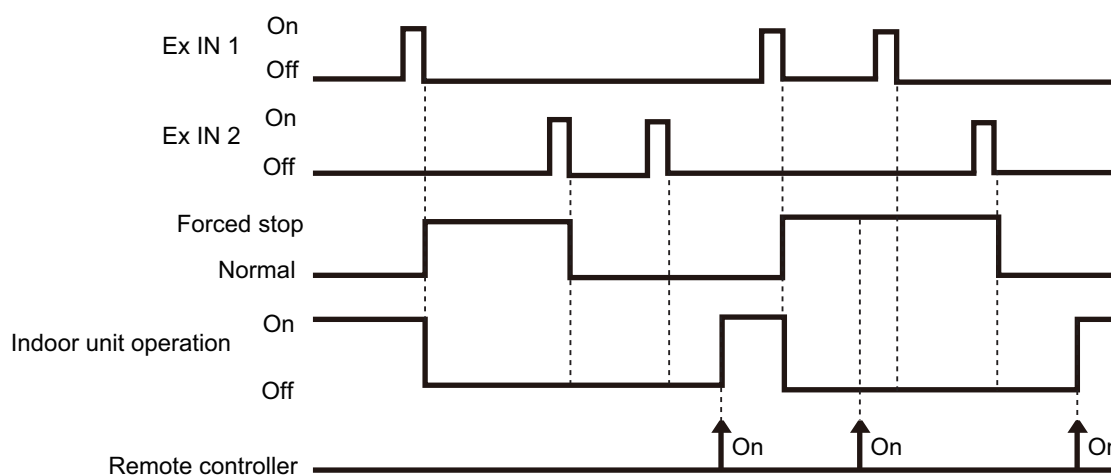
- In the case of "Edge" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-02	—		Input of indoor unit	Terminal	Off → On	Forced stop (R.C. disabled)
					On → Off	Normal (R.C. enabled)
	1	Edge	External Input and Output PCB	Ex IN 1	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	SW2				
46-02	1	Pulse	External Input and Output PCB	Ex IN 1	Pulse	Forced stop (R.C. disabled)
				Ex IN 2		Normal (R.C. enabled)



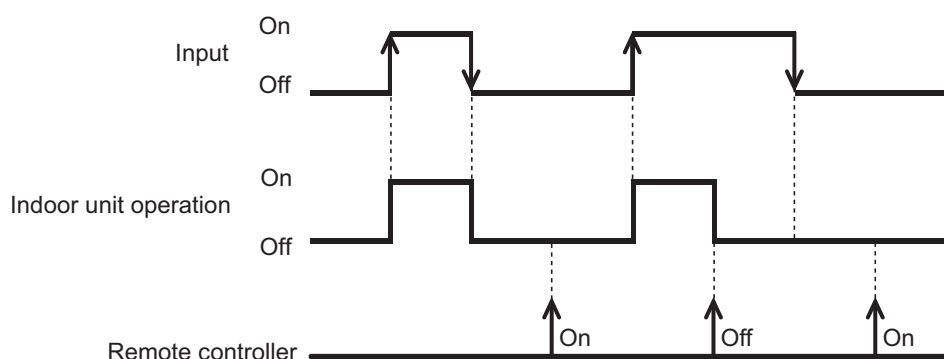
NOTES:

- 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

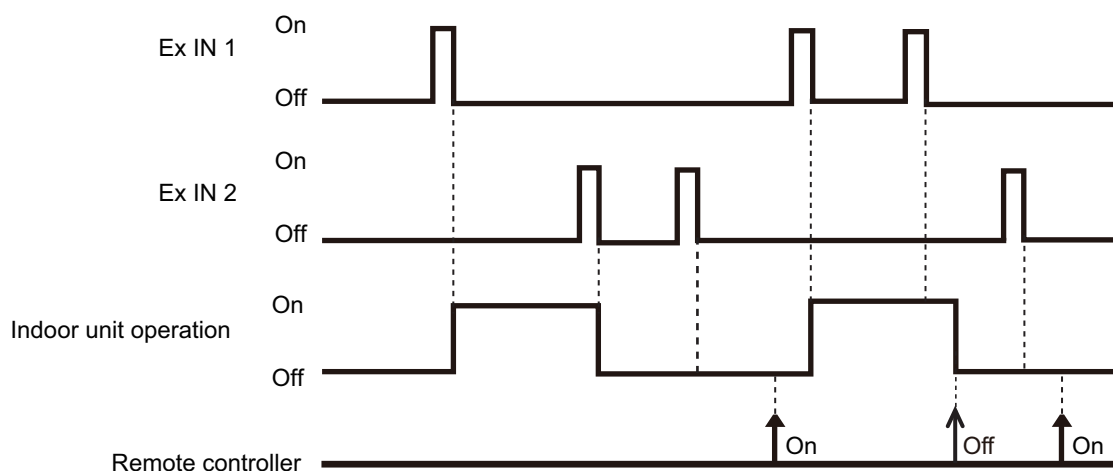
- In the case of "Edge" input

Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-03	—		Input of indoor unit	Terminal	Off → On	Operation (R.C. enabled)
					On → Off	Stop (R.C. disabled)
	1	Edge	External Input and Output PCB	Ex IN 1	Off → On	Operation (R.C. enabled)
					On → Off	Stop (R.C. disabled)



- In the case of "Pulse" input

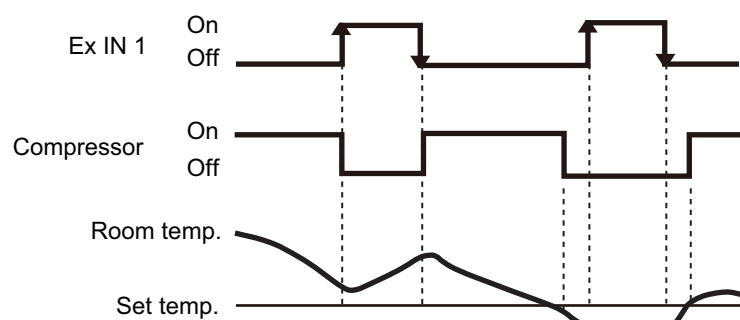
Function setting	External Input and Output PCB		External input		Input signal	Command
	Rotary switch	SW2				
46-03	1	Pulse	External Input and Output PCB	Ex IN 1	Pulse	Operation (R.C. enabled)
				Ex IN 2		Stop (R.C. disabled)



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	Ex IN 1	Off → On	Thermostat off
			On → Off	Normal operation

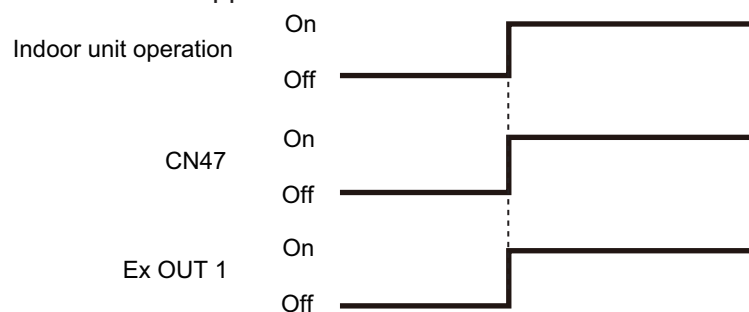


8-5. Details of control output function

■ Operation status

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

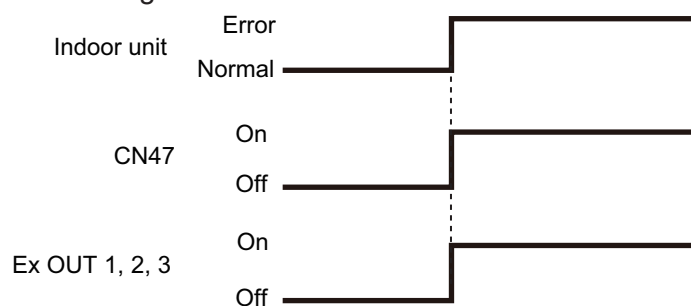
The output is low when the unit is stopped.



■ 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	Ex OUT 1	Off → On	Error
				On → Off	Normal
—	1, C	External Input and Output PCB	Ex OUT 2	Off → On	Error
				On → Off	Normal
—	D	External Input and Output PCB	Ex OUT 3	Off → On	Error
				On → Off	Normal

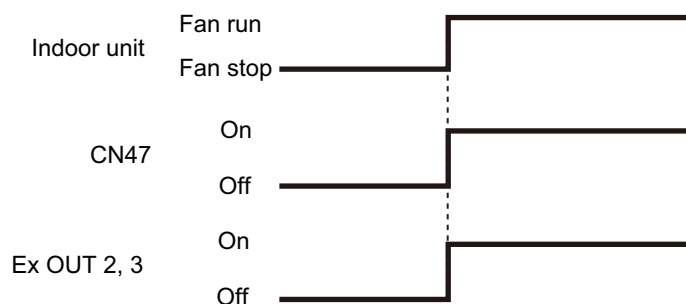
The output is on when an error is generated for the indoor unit.



Indoor unit fan operation status

Function setting	External Input and Output PCB	External output		Output signal	Status
	Rotary switch				
60-10	—	Output of indoor unit	CN47	Off → On	Fan run
				On → Off	Fan stop
—	2, B, D	External Input and Output PCB	Ex OUT 2	Off → On	Fan run
				On → Off	Fan stop
—	1	External Input and Output PCB	Ex OUT 3	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.



External heater output

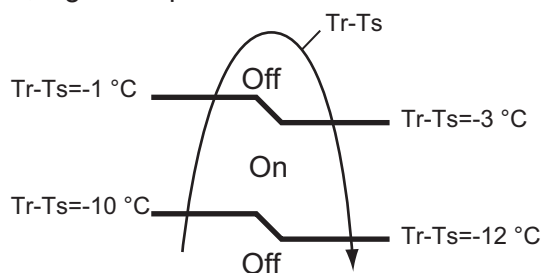
Function setting	External Input and Output PCB	External output		Output signal	Control
	Rotary switch				
60-11	—	Output of indoor unit	CN47	Off → On	Heater on
				On → Off	Heater off
—	2, B, C	External Input and Output PCB	Ex OUT 3	Off → On	Heater on
				On → Off	Heater off

Output signal	Condition
Off → On	Heater turns on as shown in diagram of heating temperature
On → Off	Heater turns off as shown in diagram of heating temperature • Other than Heating mode • Error occurred • Forced thermo off • Fan stop protection

Specifications of the signal output performance are as shown as follows:

Example: When set temperature (T_s) is set at 22°C;

- And room temperature (T_r) increase above 12°C, signal output is on.
- And T_r increase above 21°C, signal output is off.
- And T_r decrease below 19°C, signal output is on.
- And T_r decrease below 10°C, signal output is off.



The output also turns off in defrost operation.

9. Group connection

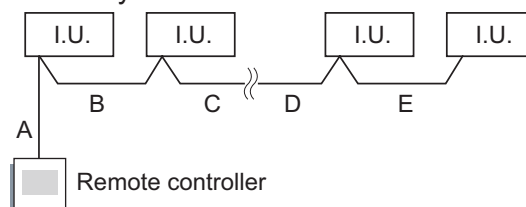
NOTE: Group control cannot be used together with WLAN Adapter.

Installation procedure for group control system:

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

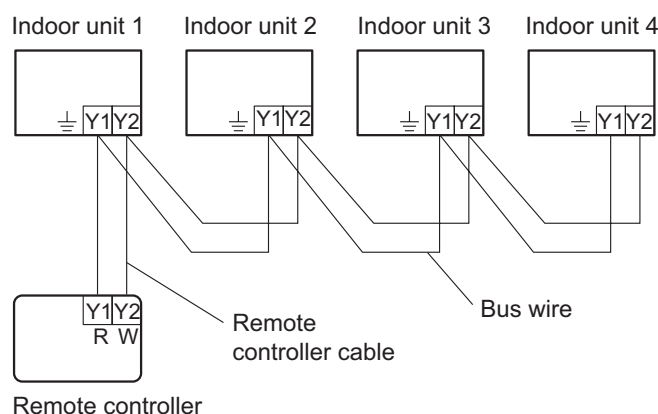
NOTE: When different type of indoor units (such as wall-mounted type and cassette type, cassette type and duct type, or other combinations) are connected using group control system, some functions may no longer be available.

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



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

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.

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 on indoor unit

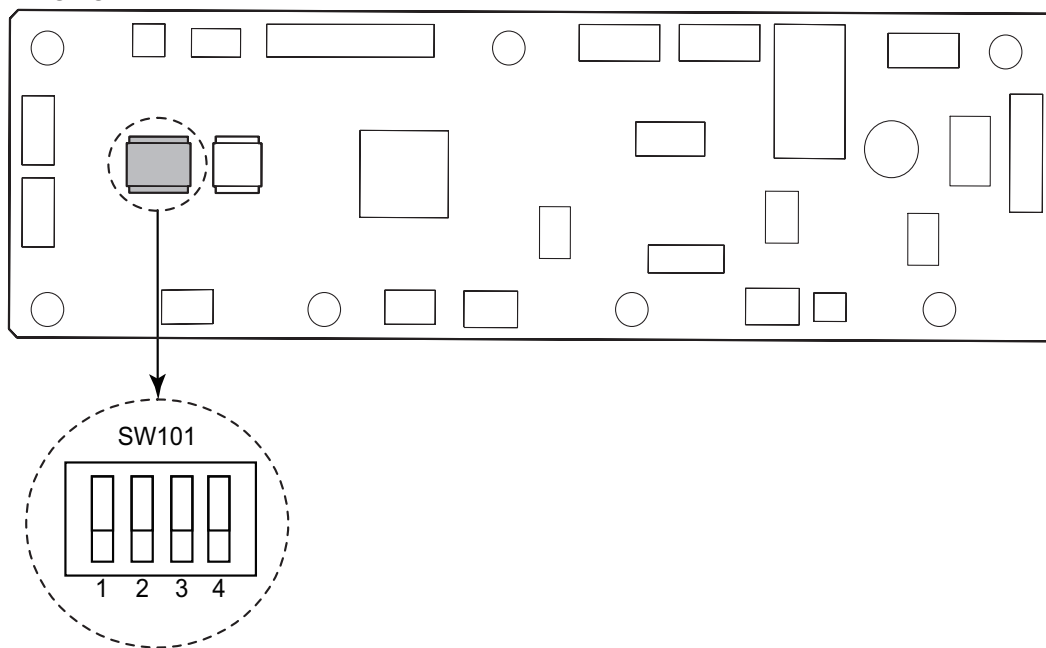
By using some components on the PCB, you can change the function settings.

Related components on the PCB and the applicable settings

Component		Setting content
DIP switch101	1	Drainage function setting
	2	Setting change prohibited
	3	Fan delay setting
	4	Setting change prohibited

● Component location

Components on the indoor unit main PCB used for the function settings are located as shown in the following figure.



● DIP switch setting

- **Switch 1: Drainage function setting (SW101)**

Switch 1	Drainage function	Factory setting
ON	Disabled	
OFF	Enabled	◆

- **Switch 2: Setting change prohibited (SW101)**

- **Switch 3: Fan delay setting (SW101)**

When the indoor unit is stopped while operating in conjunction with auxiliary heater, the indoor unit fan operation will continue for 1 minute.

Switch 3	Fan delay	Factory setting
ON	Enabled	
OFF	Disabled	◆

- **Switch 4: Setting change prohibited (SW101)**

10-2. 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 remote controller

Remote controller is not attached for this product. For details of the installing remote controller, refer to following information.

- Overview information: Operating manual of the remote controller
- Setting procedure: Installation manual of the remote controller

■ 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)	26	Static pressure
3)	30/31	Room temperature control for indoor unit sensor
4)	35/36	Room temperature control for wired remote controller sensor
5)	40	Auto restart
6)	42	Room temperature sensor switching
7)	43	Cold air prevention
8)	46	External input control
9)	48	Room temperature sensor switching (Aux.)
10)	49	Indoor unit fan control for energy saving for cooling
11)	60	Switching functions for external output terminal
12)	68	Auto mode type
13)	69	Deadband value

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

2) Static pressure

Select the appropriate static pressure according to the installation conditions.

Function number	Setting value	Setting description	Factory setting
26	03	30 Pa	
	04	40 Pa	
	05	50 Pa	
	06	60 Pa	
	07	70 Pa	
	08	80 Pa	
	09	90 Pa	
	10	100 Pa	
	11	110 Pa	
	12	120 Pa	
	13	130 Pa	
	14	140 Pa	
	15	150 Pa	
	31	Standard (50 Pa: 30 and 36 models, 60 Pa: 45 model)	◆
	32	Automatic airflow adjustment	

NOTE: If the static pressure is set above maximum range, the setting is same as the maximum.

Example:

The setting “160 Pa” (16) to “300 Pa” (30) is same as “150 Pa” (15).

Model	Setting of static pressure range
30, 36, and 45	30 to 150 Pa

3) Room temperature control for indoor unit sensor

NOTE: If the remote sensor unit option is selected, perform this setting.

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	

4) Room temperature control for wired remote controller sensor

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

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

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

Function number		Setting value	Setting description	Factory setting
35 (For cooling)	36 (For heating)	00	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	

5) Auto restart

Enables or disables automatic restart after a power interruption.

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

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

6) Room temperature sensor switching

(Only for wired remote controller)

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

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

00: Sensor on the indoor unit is active.

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

NOTES:

- Remote controller sensor must be turned on by using the remote controller.
- When using the remote sensor unit, set to "00" or set to "01" and then select "indoor unit sensor" from wired remote controller.

7) Cold air prevention

This setting is to disable the cold air prevention function during heating operation. When disabled, the fan setting will always follow the setting on the remote controller. (Excluding defrost mode)

Function number	Setting value	Setting description	Factory setting
43	00	Enable	◆
	01	Disable	

8) External input control

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

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

9) Room temperature sensor switching (Aux.)

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

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

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

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

10) Indoor unit fan control for energy saving for cooling

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

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

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

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

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

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.

11) 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	Fresh air control	
	11	External heater	

12) Auto mode type

Switches the setting method of the auto mode between single or dual (cooling and heating.)
Set the primary indoor unit using a wired remote controller for heat pump systems.

Function number	Setting value	Setting description	Factory setting
68	00	Single setpoint auto mode	◆
	01	Dual setpoint auto mode	

NOTE: The auto mode type setting is available only if a compatible operating device is connected.

13) Deadband value

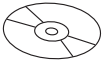
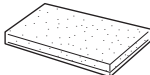
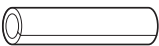
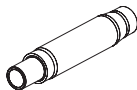
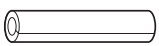
Sets the minimum temperature of the deadband in the dual setpoint auto mode (the setting value 01 of the function setting number 68: Auto mode type.)

Function number	Setting value	Setting description	Factory setting
69	00	0°C	◆
	01	0.5°C	
	02	1.0°C	
	03	1.5°C	
	04	2.0°C	
	05	2.5°C	
	06	3.0°C	
	07	3.5°C	
	08	4.0°C	
	09	4.5°C	

NOTE: The deadband setting is available only if a compatible operating device is connected.

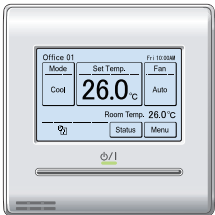
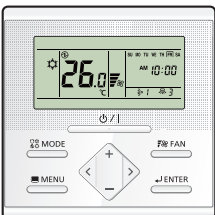
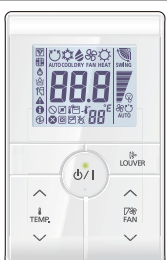
11. Accessories

11-1. Models: ARXH30KMTAP, ARXH36KMTAP, and ARXH45KMTAP

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Cable tie (large)		4
Operation manual (CD-ROM)		1	Cable tie (medium)		1
Installation manual		1	Cable tie (small)		1
Washer		8	Drain hose insulation		1
Coupler heat insulation (large)		1	Drain hose		1
Coupler heat insulation (small)		1	Hose band		1

12. Optional parts

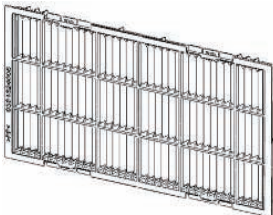
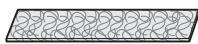
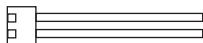
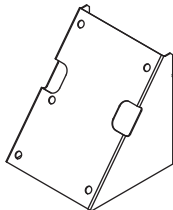
12-1. Controllers

Exterior	Part name	Model name	Summary
	Wired Remote Controller	UTY-RNRYZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire
	Wired Remote Controller	UTY-RLRY	High visibility and easy operation. Room temperature can be accurately controlled using the thermo sensor. Wire type: Non-polar 2-wire
	Compact Wired Remote Controller	UTY-RCRYZ1	Compact body and easy operation. Room temperature can be accurately controlled using the thermo sensor. Wire type: Non-polar 2-wire
	Simple Remote Controller	UTY-RSRY	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Non-polar 2-wire
	Simple Remote Controller	UTY-RHRY	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting. Wire type: Non-polar 2-wire
	IR Receiver Kit with Wireless Remote Controller	UTY-LBTYM	Unit control is performed by Wireless Remote Controller Connecting point: CN48 on Main PCB

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.

12-2. Others

Exterior	Part name	Model name	Summary
	Remote Sensor Unit	UTY-XSZX	Thermo-sensor for sensing the temperature of arbitrary place in the room. Connecting point: CN8 on Main PCB
	Remote Sensor Unit	UTY-XSZXZ*	Thermo-sensor for sensing the temperature of arbitrary place in the room. Connecting point: CN8 on Main PCB
	Long-life Filter	UTD-LFDA	Long-life Filter can be mounted to the indoor unit.
	Air Cleaning Filter	UTD-HFNA	Air Cleaning Filter can be mounted to the indoor unit.
	External Connect Kit	UTY-XWZXZG	Use to connect with various peripheral devices and air conditioner PCB. For control output port. Connecting point: CN47 on Main PCB
	External Input and Output PCB	UTY-XCSX	Use to connect with external devices and air conditioner PCB. Optional External Connect Kit is necessary for installation. Connecting point: CN65 or CN75 on Main PCB
	External Input and Output PCB Box	UTZ-GXDA	For installing the External input and output PCB.
	WLAN Adapter	UTY-TFSXZ1 UTY-TFSXJ3	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets. For connection indoor unit with UART interface. Appropriate application for each region is required to use this option. For details, contact FGL sales company. Connecting point: CN75 on Main PCB
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network. Connecting point: CN65 or CN75 on Main PCB
	KNX Converter	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network. Connecting point: CN65 or CN75 on Main PCB

Exterior	Part name	Model name	Summary
	Network Converter	UTY-VTGX	This converter is required when connecting single split system to VRF network system. Connecting point: Terminal block (Y1, Y2) on Main PCB
	Network Converter (AC power supply)	UTY-VTGXV	This converter is required when connecting single split system to VRF network system. Connecting point: Terminal block (Y1, Y2) on Main PCB
	External Switch Controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches. Connecting point: Terminal block (Y1, Y2) on Main PCB

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOYG30KBTB

AOYG36KBTB

AOYG45KBTB

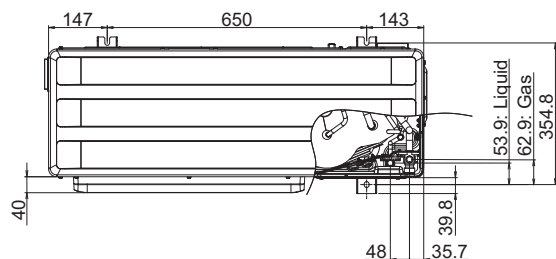
1. Specifications

Type				Inverter, Heat pump			
Model name				AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	
Power supply				230 V~ 50 Hz			
Power supply intake				Outdoor unit			
Available voltage range				198—264 V			
Starting current			A	11.3	13.0	16.9	
Fan	Airflow rate	Cooling	m³/h	3,750		4,450	
		Heating		3,750		4,450	
	Type × Qty			Propeller fan × 1			
Motor output		W		100	120		
Sound pressure level*		Cooling	dB (A)	53	55	57	
		Heating		55		57	
Sound power level		Cooling	dB (A)	68	70	71	
		Heating		69	70	71	
Heat exchanger type		Dimensions (H × W × D)	mm	Main 1: 756 × 905 × 18.19 Main 2: 756 × 905 × 18.19		Main 1: 966 × 905 × 18.19 Main 2: 966 × 905 × 18.19 Sub: 966 × 543 × 18.19	
		Fin pitch		Main 1: 1.45 Main 2: 1.45		Main 1: 1.45 Main 2: 1.45 Sub: 1.45	
		Rows × Stages			Main 1: 1 × 36 Main 2: 1 × 36		Main 1: 1 × 46 Main 2: 1 × 46 Sub: 1 × 46
		Pipe type			Copper tube		
		Fin type	Type (Material)	Aluminum			
			Surface treatment	Blue fin			
Compressor		Type	DC twin rotary				
		Motor output	W	1,500		2,180	
Refrigerant		Type (Global warming potential)	R32 (675)				
		Charge	g	1,900		2,700	
Refrigerant oil		Type	FW68D		RmM68AF		
		Amount	cm³	600	800		
Enclosure		Material	Steel sheet				
		Color	Beige				
Dimensions (H × W × D)		Net	mm	788 × 940 × 320		998 × 940 × 320	
		Gross		966 × 1,027 × 445		1,176 × 1,027 × 445	
Weight		Net	kg	52		67	
		Gross		60		75	
Connection pipe	Size	Liquid	mm (in)	Ø9.52 (Ø3/8)			
		Gas		Ø15.88 (Ø5/8)			
	Method		Flare				
	Pre-charge length		m	30			
	Max. length			50			
	Max. height difference			30			
Operation range		Cooling	°C	-15 to 46			
		Heating		-15 to 24			
Drain hose		Material	Low-density polyethylene				
		Tip diameter	mm	Ø13.0 (I.D.), Ø16.0 to Ø16.7 (O.D.)			
NOTES: - Specifications are based on the following conditions: — Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB. — Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB. — Pipe length: 5.0 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.							

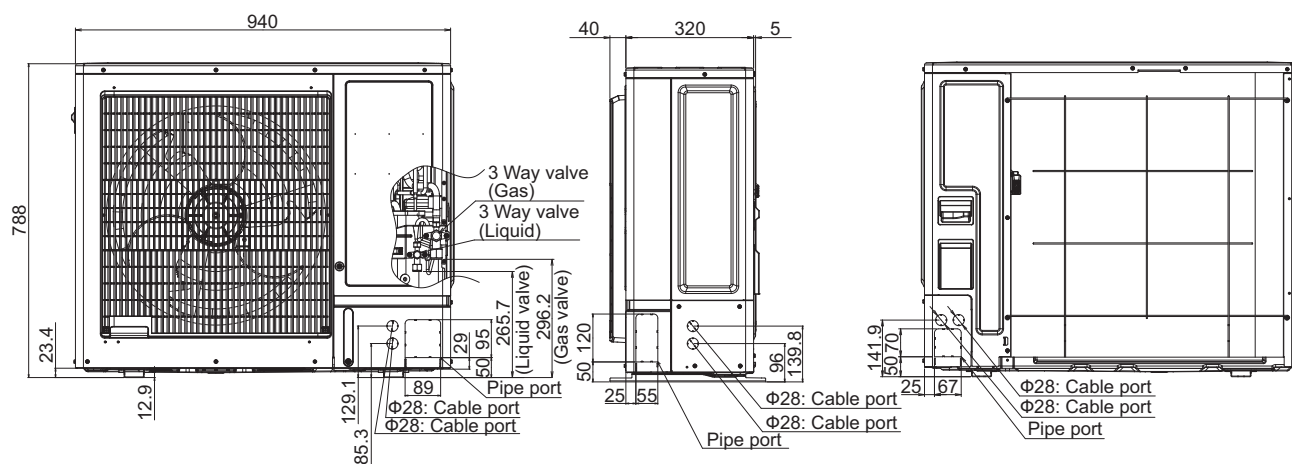
2. Dimensions

2-1. Models: AOYG30KBTB and AOYG36KBTB

Unit: mm



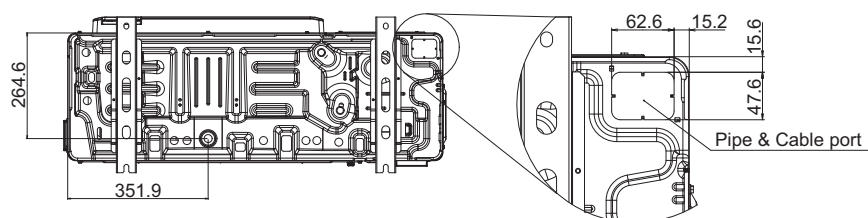
Top view



Front view

Side view

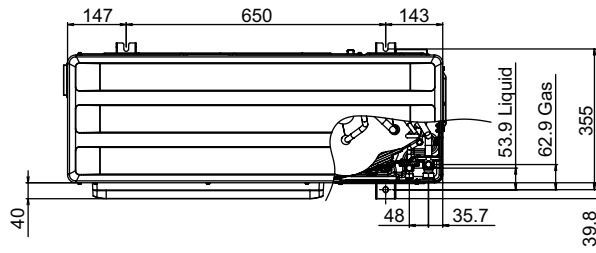
Rear view



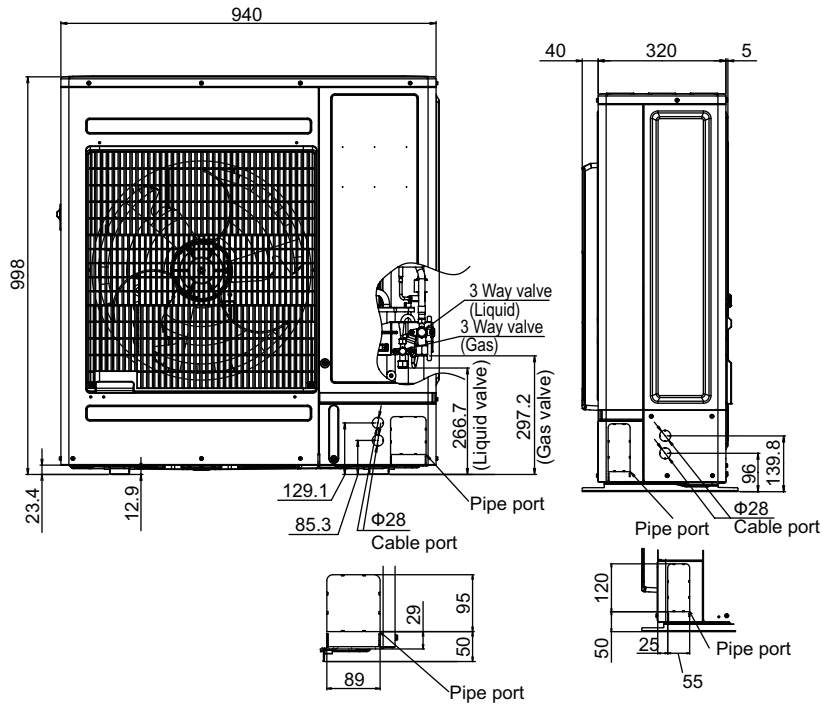
Bottom view

2-2. Model: AOYG45KBTB

Unit: mm

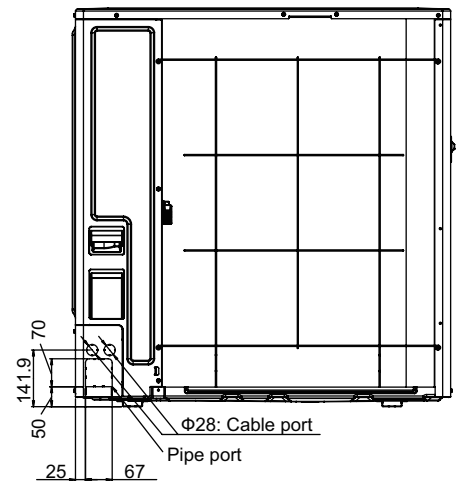


Top view

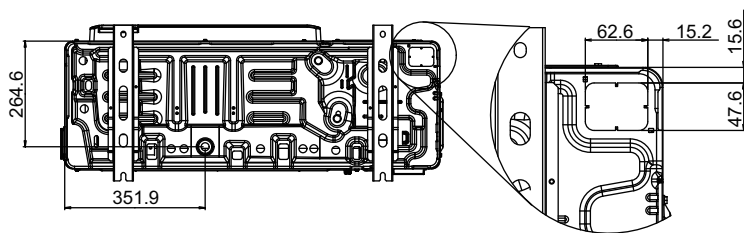


Front view

Side view



Rear view



Bottom view

Pipe & Cable port

3. Installation space

3-1. Models: AOYG30KBTB, AOYG36KBTB, and AOYG45KBTB

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

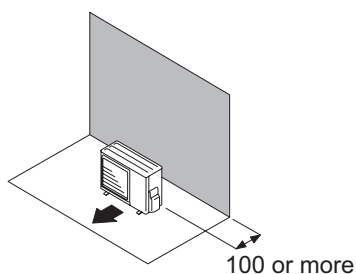
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

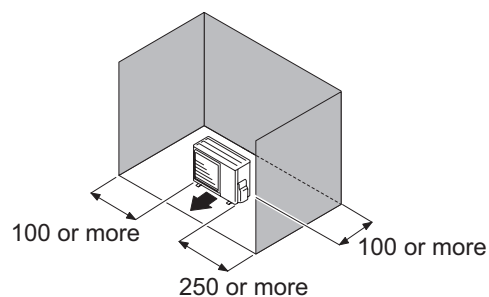
- When the upper space is open:

Unit: mm

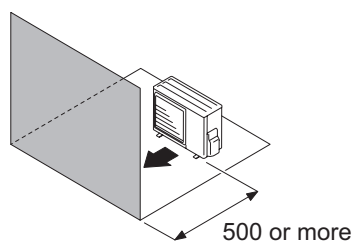
When there are obstacles at the rear only.



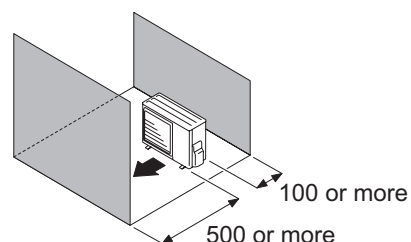
When there are obstacles at the rear and sides.



When there are obstacles at the front only.



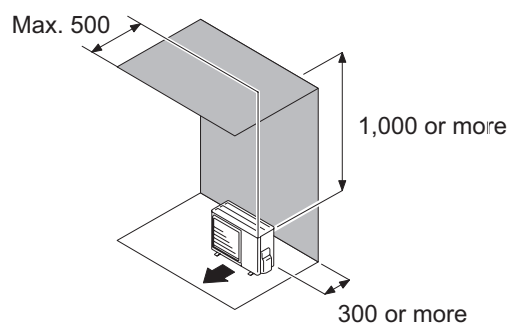
When there are obstacles at the front and rear.



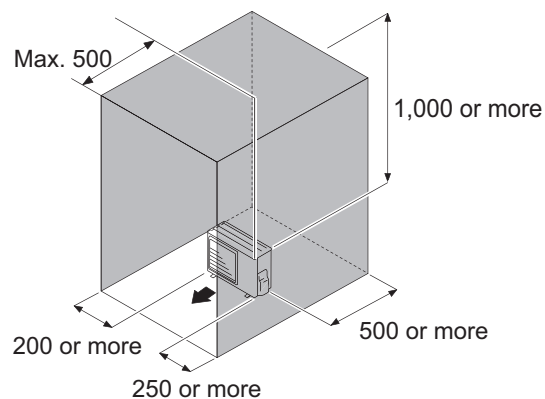
- When an obstruction in the upper space:

Unit: mm

When there are obstacles at the rear and above.



When there are obstacles at the rear, sides, and above.



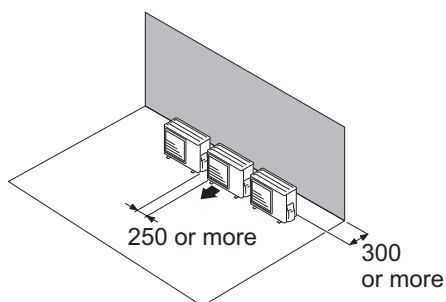
● Multiple outdoor unit installation

- 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:”**.

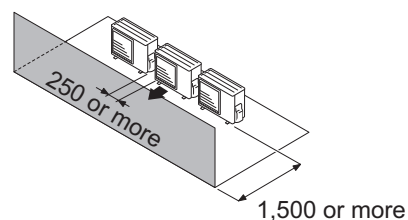
- **When the upper space is open:**

Unit: mm

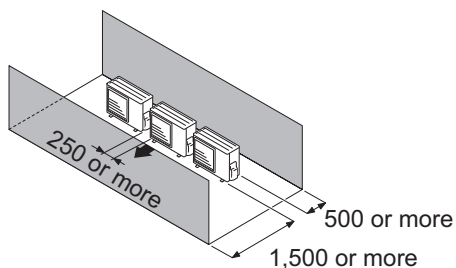
When there are obstacles at the rear only.



When there are obstacles at the front only.



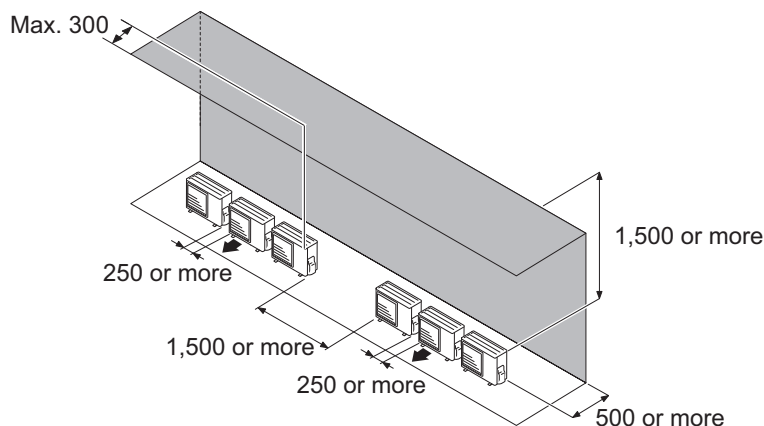
When there are obstacles at the front and rear.



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

Unit: mm

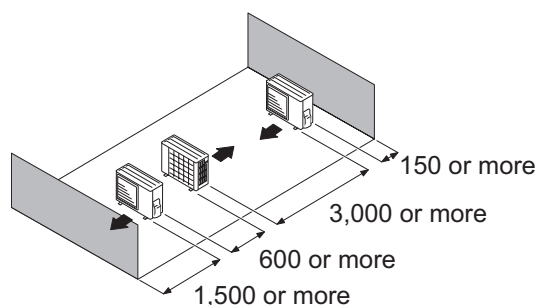
When there are obstacles at the rear and above.



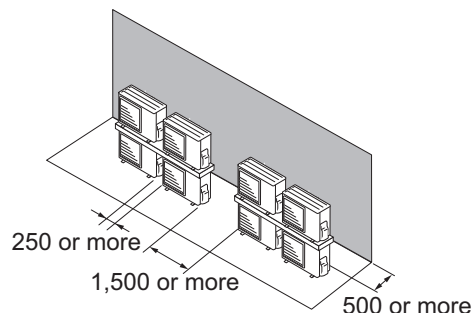
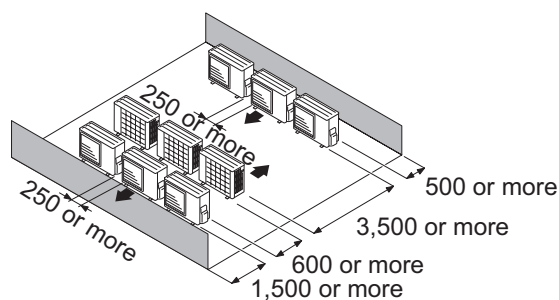
● Outdoor unit installation in multi-row

Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement

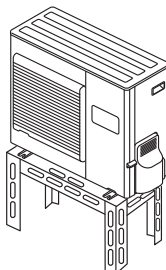


NOTES:

- If the space is larger than stated above, the condition will be the same as when there is no obstacle.
- Height above the floor level should be 50 mm or more.
- When installing the outdoor unit, be sure to open the front and left side to obtain better operation efficiency.

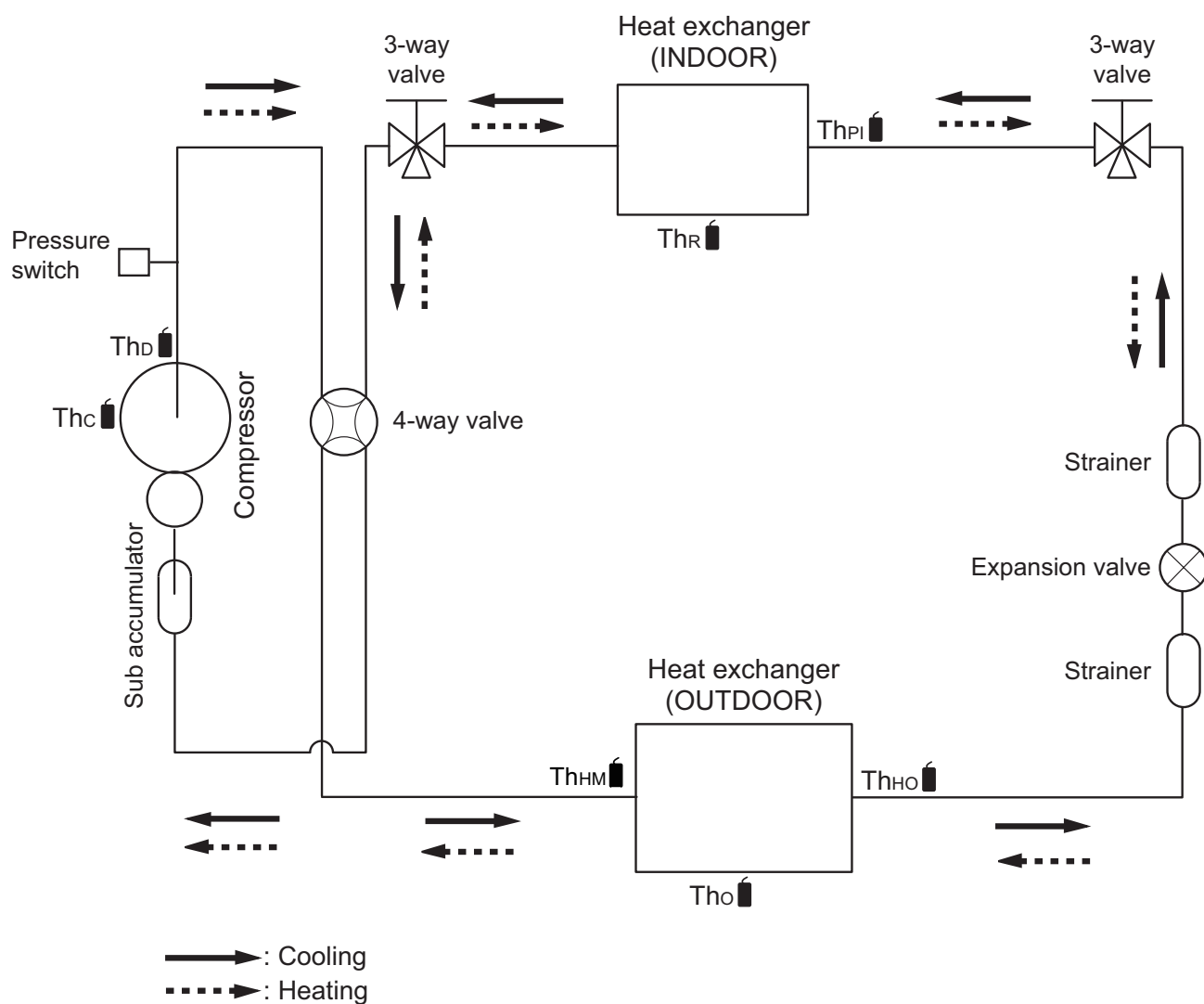
⚠ CAUTION

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



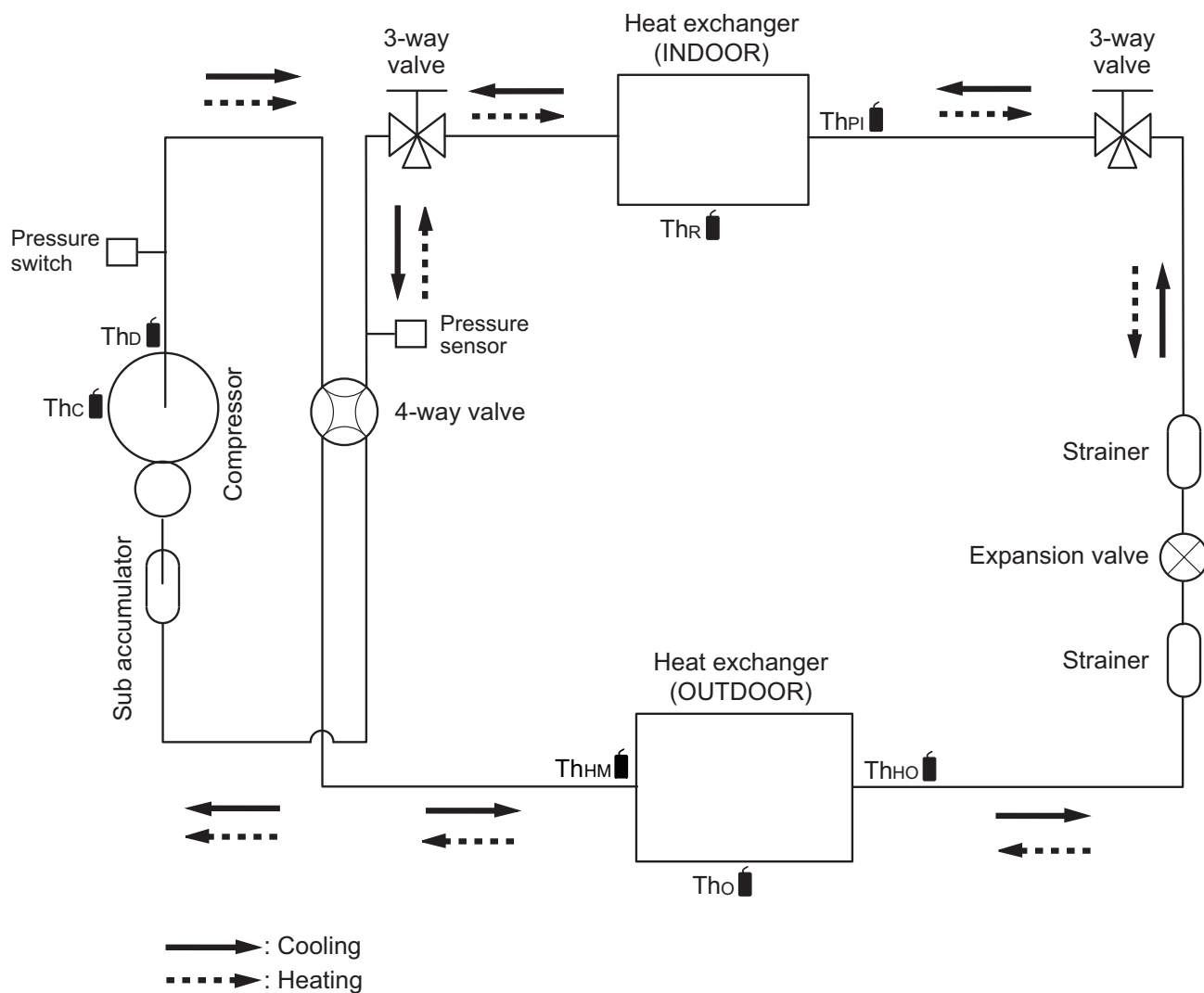
4. Refrigerant circuit

4-1. Model: AOYG30KBTB



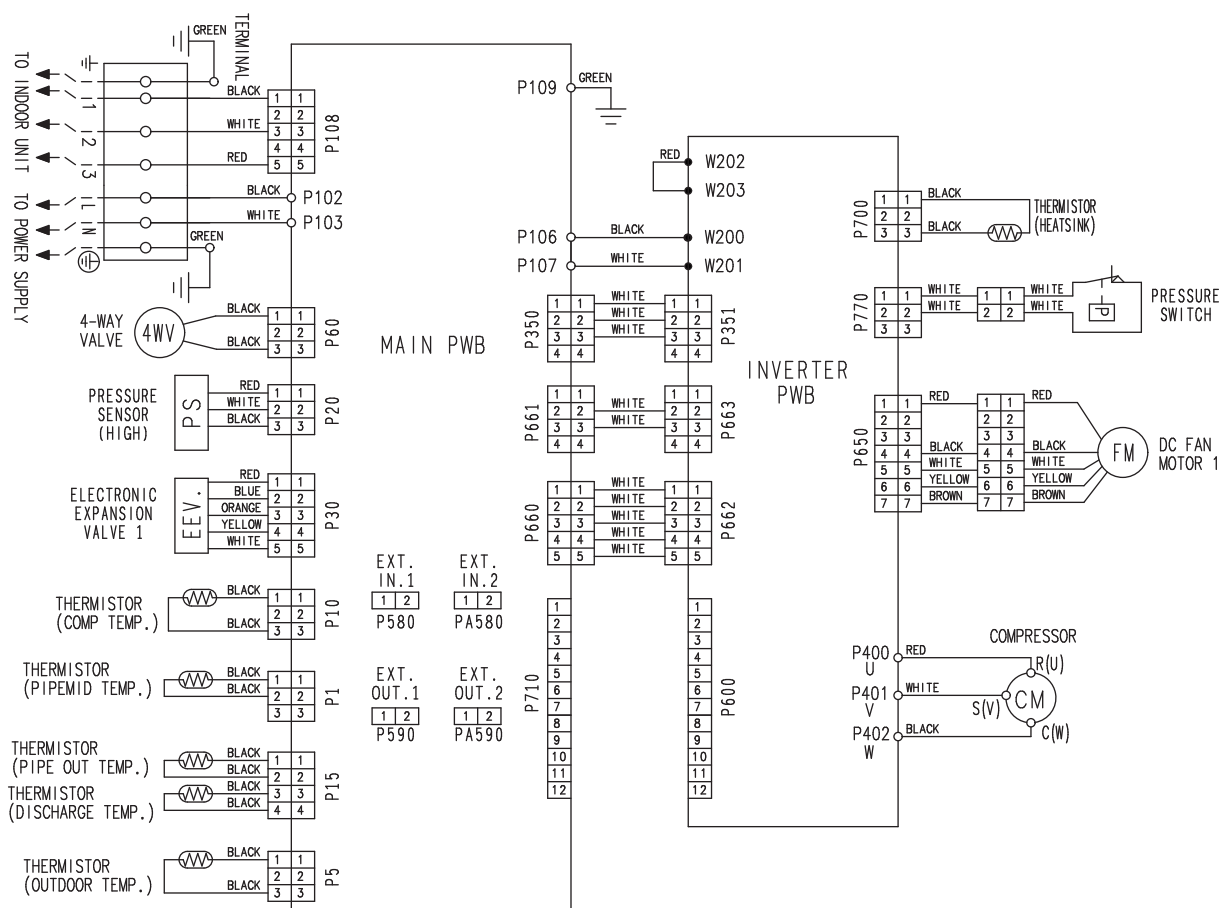
- Thc : Thermistor (Compressor temperature)
 Thd : Thermistor (Discharge temperature)
 ThHM : Thermistor (Heat exchanger middle temperature)
 Tho : Thermistor (Outdoor temperature)
 ThHO : Thermistor (Heat exchanger out temperature)
 ThPI : Thermistor (Pipe temperature)
 ThR : Thermistor (Room temperature)

4-2. Models: AOYG36KBTB and AOYG45KBTB

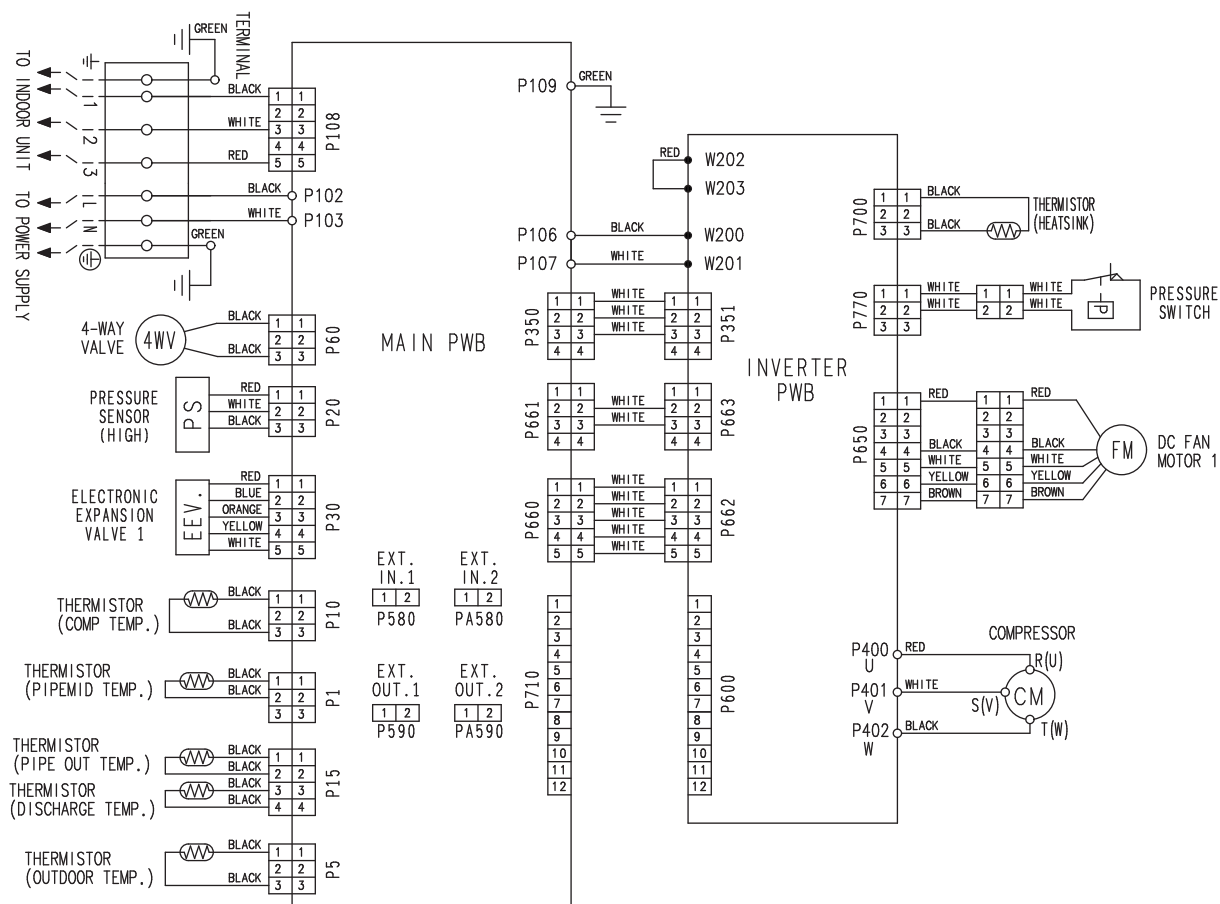


- Thc : Thermistor (Compressor temperature)
 Thd : Thermistor (Discharge temperature)
 Thhm : Thermistor (Heat exchanger middle temperature)
 Tho : Thermistor (Outdoor temperature)
 Thho : Thermistor (Heat exchanger out temperature)
 Thpi : Thermistor (Pipe temperature)
 Thr : Thermistor (Room temperature)

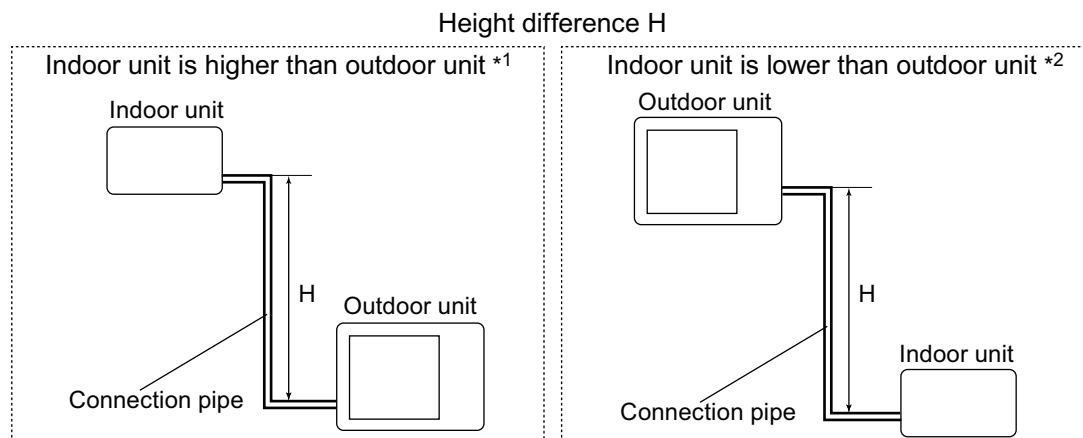
5-2. Model: AOYG36KBTB



5-3. Model: AOYG45KBTB



6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOYG30KBTB

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

COOLING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.926	0.916	0.906
		20	—	—	—	0.953	0.942	0.931	0.920
		10	—	—	0.979	0.968	0.958	0.946	0.936
		7.5	—	0.988	0.983	0.972	0.961	0.951	0.939
		5	0.992	0.992	0.987	0.976	0.965	0.954	0.943
	Indoor unit is lower than outdoor unit *2	0	1.000	1.000	0.995	0.984	0.973	0.962	0.951
		-5	1.000	1.000	0.995	0.984	0.973	0.962	0.951
		-7.5	—	1.000	0.995	0.984	0.973	0.962	0.951
		-10	—	—	0.995	0.984	0.973	0.962	0.951
		-20	—	—	—	0.984	0.973	0.962	0.951
		-30	—	—	—	—	0.973	0.962	0.951

HEATING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.931	0.914	0.899
		20	—	—	—	0.954	0.931	0.914	0.899
		10	—	—	0.990	0.954	0.931	0.914	0.899
		7.5	—	1.000	0.990	0.954	0.931	0.914	0.899
		5	1.000	1.000	0.990	0.954	0.931	0.914	0.899
	Indoor unit is lower than outdoor unit *2	0	1.000	1.000	0.990	0.954	0.931	0.914	0.899
		-5	0.995	0.995	0.986	0.949	0.926	0.909	0.895
		-7.5	—	0.993	0.983	0.946	0.924	0.907	0.892
		-10	—	—	0.981	0.944	0.921	0.904	0.890
		-20	—	—	—	0.935	0.912	0.895	0.881
		-30	—	—	—	—	0.903	0.886	0.872

6-2. Model: AOYG36KBTB

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

COOLING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.902	0.882	0.862
		20	—	—	—	0.938	0.917	0.897	0.876
		10	—	—	0.973	0.953	0.933	0.912	0.891
		7.5	—	0.988	0.977	0.957	0.936	0.916	0.895
		5	0.992	0.992	0.981	0.961	0.940	0.919	0.898
			0	1.000	1.000	0.989	0.968	0.947	0.926
	Indoor unit is lower than outdoor unit *2	-5	1.000	1.000	0.989	0.968	0.947	0.926	0.905
		-7.5	—	1.000	0.989	0.968	0.947	0.926	0.905
		-10	—	—	0.989	0.968	0.947	0.926	0.905
		-20	—	—	—	0.968	0.947	0.926	0.905
		-30	—	—	—	—	0.947	0.926	0.905

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

6-3. Model: AOYG45KBTB

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

COOLING			Pipe length (m)						
			5	7.5	10	20	30	40	50
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.900	0.879	0.858
		20	—	—	—	0.937	0.915	0.894	0.872
		10	—	—	0.973	0.952	0.931	0.908	0.887
		7.5	—	0.988	0.977	0.956	0.934	0.913	0.891
		5	0.992	0.992	0.981	0.960	0.938	0.916	0.894
	Indoor unit is lower than outdoor unit *2	0	1.000	1.000	0.989	0.967	0.945	0.923	0.901
		-5	1.000	1.000	0.989	0.967	0.945	0.923	0.901
		-7.5	—	1.000	0.989	0.967	0.945	0.923	0.901
		-10	—	—	0.989	0.967	0.945	0.923	0.901
		-20	—	—	—	0.967	0.945	0.923	0.901
		-30	—	—	—	—	0.945	0.923	0.901

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

7. Additional charge calculation

7-1. Model: AOYG30KBTB

Refrigerant type		R32
Factory charge amount	g	1,900

■ Refrigerant charge

Total pipe length	m	30 or less	40	50 (Max.)	40 g/m
Additional charge amount	g	0	400	800	

7-2. Model: AOYG36KBTB

Refrigerant type		R32
Factory charge amount	g	1,900

■ Refrigerant charge

Total pipe length	m	30 or less	40	50 (Max.)	40 g/m
Additional charge amount	g	0	400	800	

7-3. Model: AOYG45KBTB

Refrigerant type		R32
Factory charge amount	g	2,700

■ Refrigerant charge

Total pipe length	m	30 or less	40	50 (Max.)	40 g/m
Additional charge amount	g	0	400	800	

8. Airflow

8-1. Model: AOYG30KBTB

● Cooling

m ³ /h	3,750
l/s	1,042
CFM	2,207

● Heating

m ³ /h	3,750
l/s	1,042
CFM	2,207

8-2. Model: AOYG36KBTB

● Cooling

m ³ /h	3,750
l/s	1,042
CFM	2,207

● Heating

m ³ /h	3,750
l/s	1,042
CFM	2,207

8-3. Model: AOYG45KBTB

● Cooling

m ³ /h	4,450
l/s	1,236
CFM	2,619

● Heating

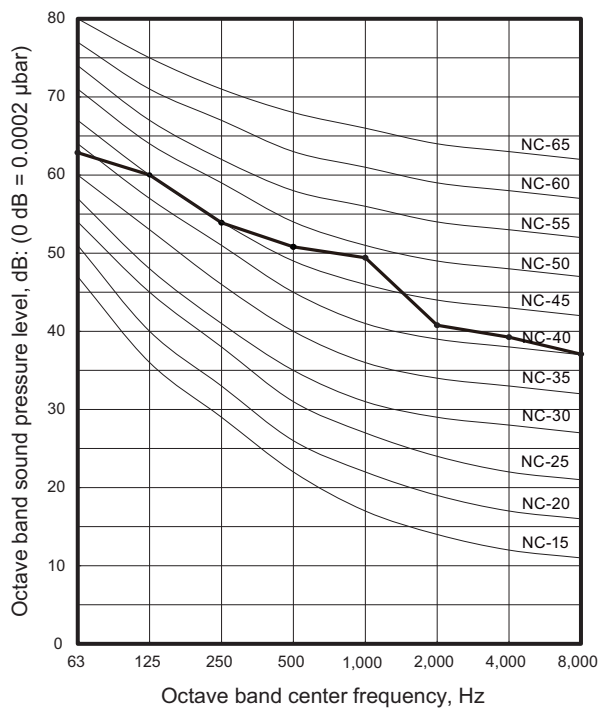
m ³ /h	4,450
l/s	1,236
CFM	2,619

9. Operation noise (sound pressure)

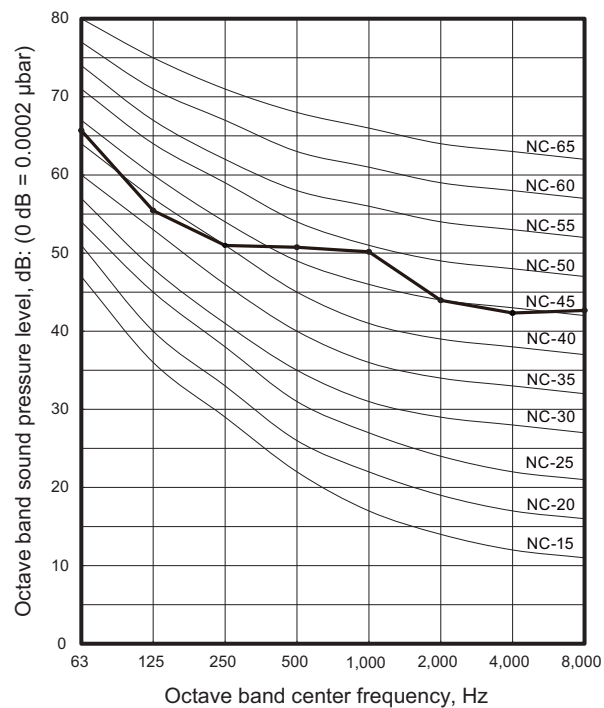
9-1. Noise level curve

■ Model: AOYG30KBTB

● Cooling

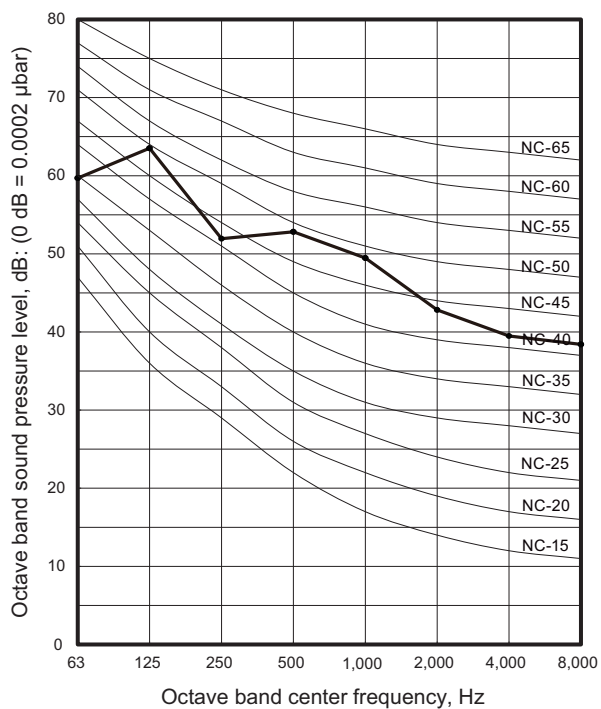


● Heating

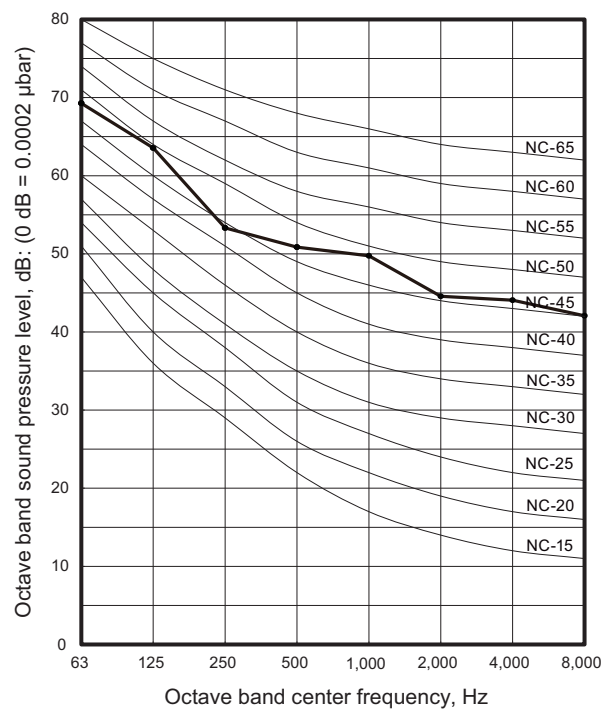


■ Model: AOYG36KBTB

● Cooling

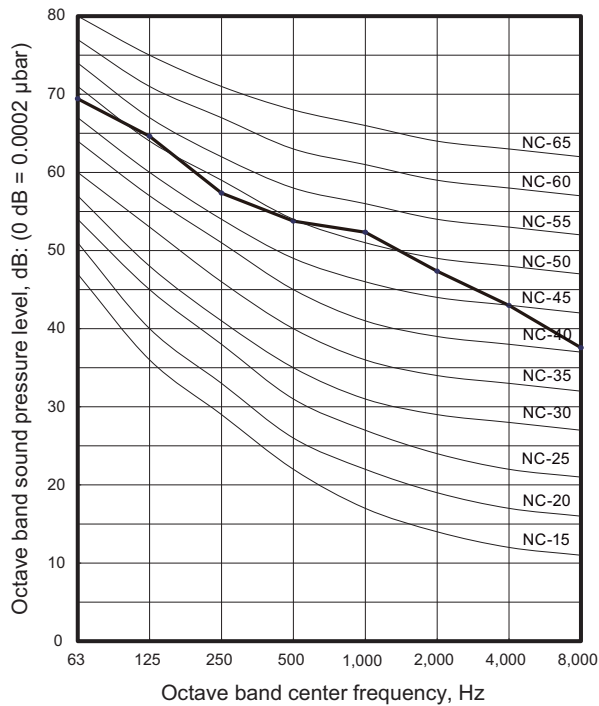


● Heating

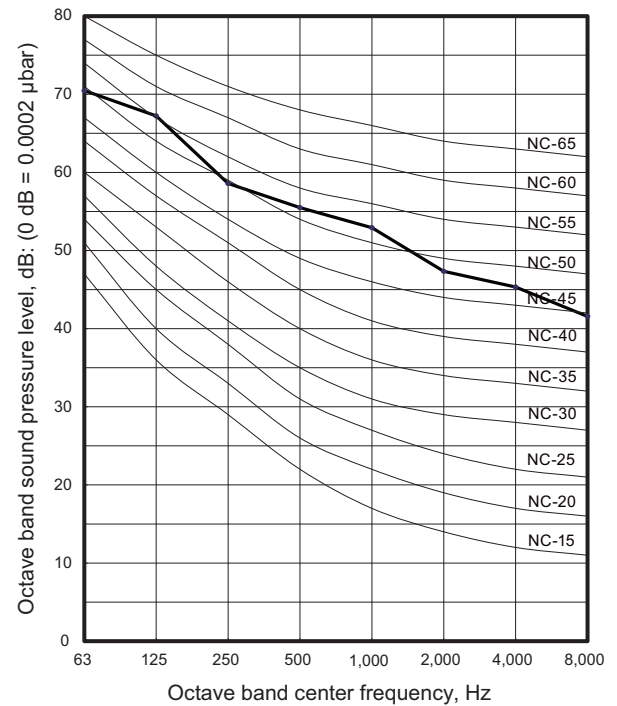


Model: AOYG45KBTB

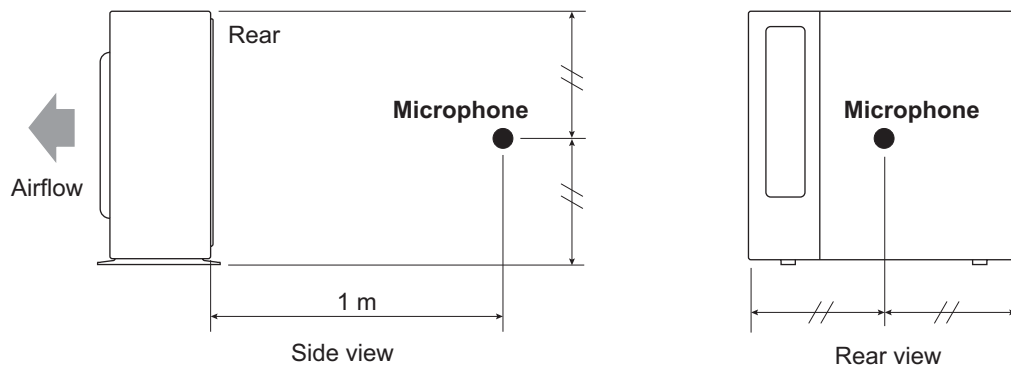
● Cooling



● 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				AOYG30KBTB	AOYG36KBTB	AOYG45KBTB
Power supply	Voltage		V	230~		
	Frequency		Hz	50		
Max operating current* ¹			A	22.6		28.5
Starting current			A	11.3	13.0	16.9
Wiring spec.* ²	Circuit breaker current		A	25		32
	Power cable		mm ²	4.0		
	Connection cable* ³	Cross-sectional area	mm ²	1.5		
		Limited wiring length	m	51		

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	
			AOYG30KBTB AOYG36KBTB	AOYG45KBTB
Circuit protection	Current fuse (Main PCB*)		250 V, 30 A 250 V, 3.15 A 250 V, 10 A × 2	
Fan motor protection	Terminal protection program	Activate	122 ±9°C Fan motor stop	150 ±15°C Fan motor stop
		Reset	107–126°C Fan motor restart	120 ±15°C Fan motor restart
Compressor protection	Terminal protection program (Discharge temp.)	Activate	110°C Compressor stop	
		Reset	After 7 minutes Compressor restart	
	Thermal protection program (Compressor temp.)	Activate	108°C Compressor stop	
		Reset	80°C or less Compressor restart	
	Thermal protection program (Outdoor temp.) (Only in COOL and DRY mode)	Activate	-20°C Compressor stop	
		Reset	-15°C Compressor restart	
High pressure protection	Pressure switch	Activate	4.2 ⁺⁰ _{-0.15} MPa Compressor stop	
		Reset	3.2 ±0.15 MPa Compressor restart	

*PCB: Printed Circuit Board

12. External input and output

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

Connector	Input	Output	Remarks
P580	Low noise mode	—	See external input/output settings for details.
PA580	Peak cut mode	—	
P590	—	Error status	
PA590	—	Compressor status	

12-1. External input

With using external input function, on/off status of “Low noise mode” and “Peak cut mode” can be specified by the external signal.

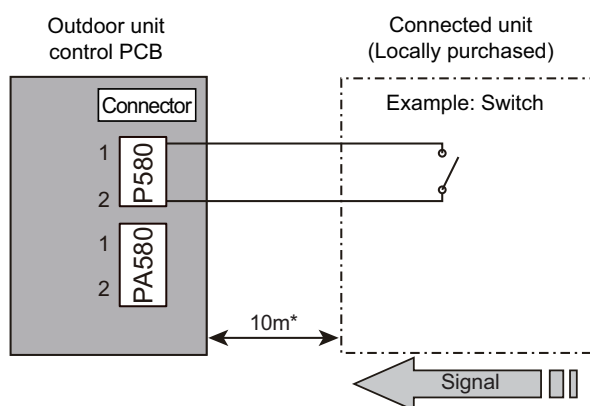
■ Low noise mode

In following condition, the operating noise of the outdoor unit reduces comparing from the one in normal operating condition:

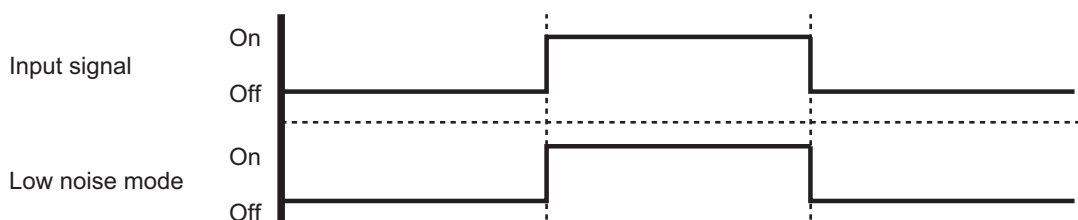
The air conditioner is set to the “Low noise mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

NOTE: Product performance may drop depending on some conditions such as the outdoor temperature.

• Circuit diagram example



- Contact capacity: DC 24 V or more, 10 mA or more.
- *: Make the distance from the PCB to the connected unit within 10 m.
- Construct a circuit as shown in this figure with using optional parts mentioned below.
- Input signal: On in “Low noise mode”
- Input signal: Off in normal operation
- To set the level of “Low noise mode,” refer to ["Low noise mode"](#) on page 76 (under “Local setting procedure”).



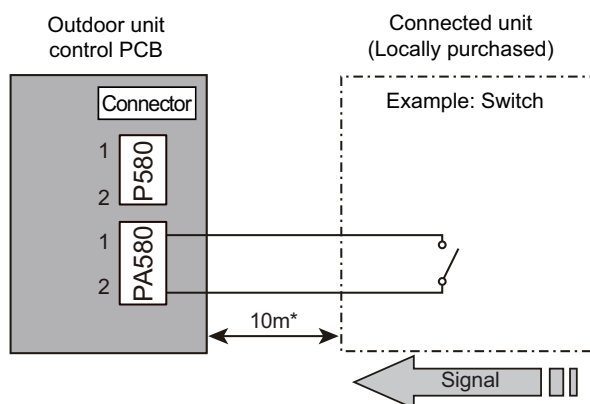
• Optional part

Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External input wire

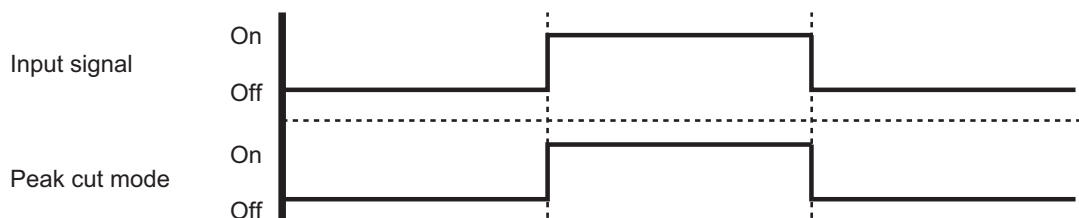
■ Peak cut mode

By performing following on-site work, operation that suppresses the current value can be enabled: The air conditioner is set to the “Peak cut mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

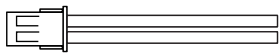
• Circuit diagram example



- Contact capacity: DC 24 V or more, 10 mA or more.
- *: Make the distance from the PCB to the connected unit within 10 m.
- Construct a circuit as shown in this figure with using optional parts mentioned below.
- Input signal: On in “Peak cut mode”
- Input signal: Off in normal operation
- To set the level of “Peak cut mode,” refer to ["Peak cut mode"](#) on page 77 (under “Local setting procedure”).



• Optional part

Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External input wire 

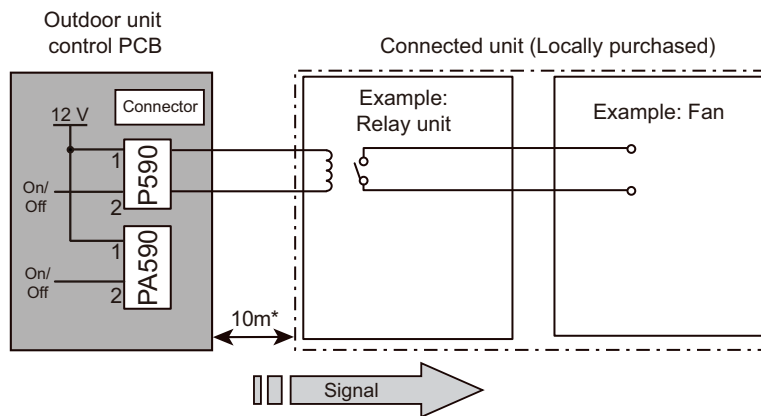
12-2. External output

With using external output function, some status signals are transmitted to the control PCB, and the related LED lamp indicates the status of this product.

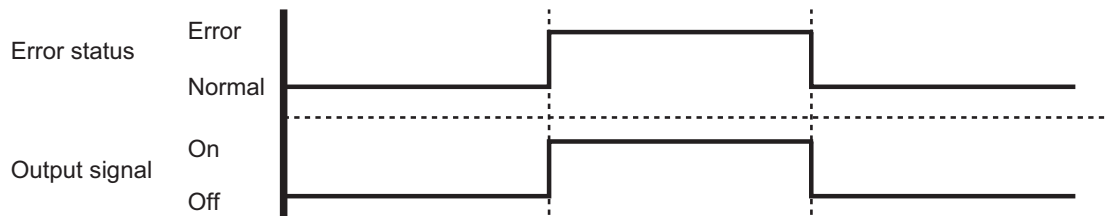
■ Error status output

Signal on air conditioner error status is generated when a malfunction occurs.

• Circuit diagram example



- Output voltage (Vcc): DC 12 V 50 mA or less
- *: Make the distance from the PCB to the connected unit within 10 m.



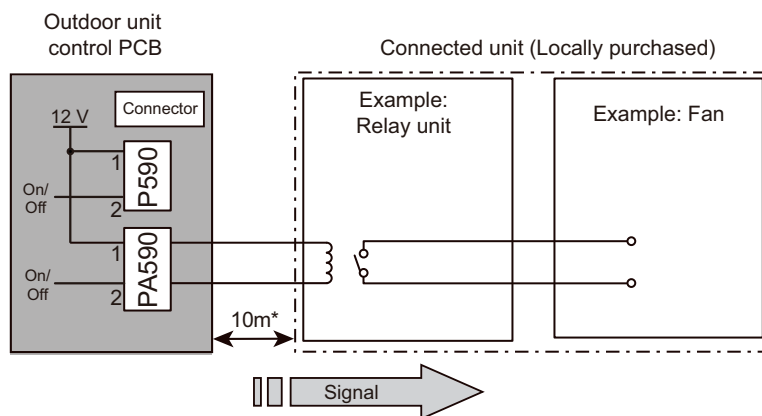
• Optional part

Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External output wire

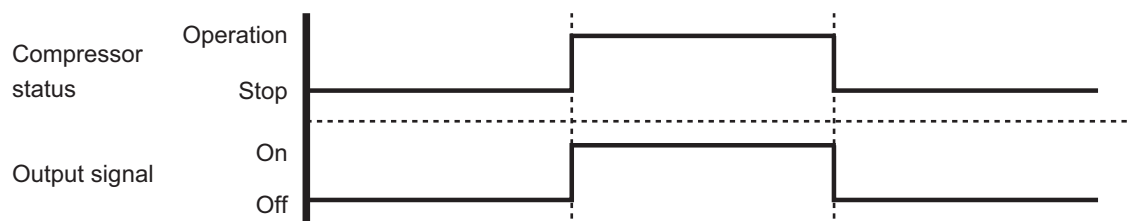
Compressor status output

Signal on compressor operation status is generated when the compressor is running.

• Circuit diagram example

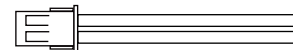


- Output voltage (Vcc): DC 12 V 50 mA or less
- *: Make the distance from the PCB to the connected unit within 10 m.



• Optional part

Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External output wire



13. Function settings

Perform appropriate function setting locally according to the installation environment.

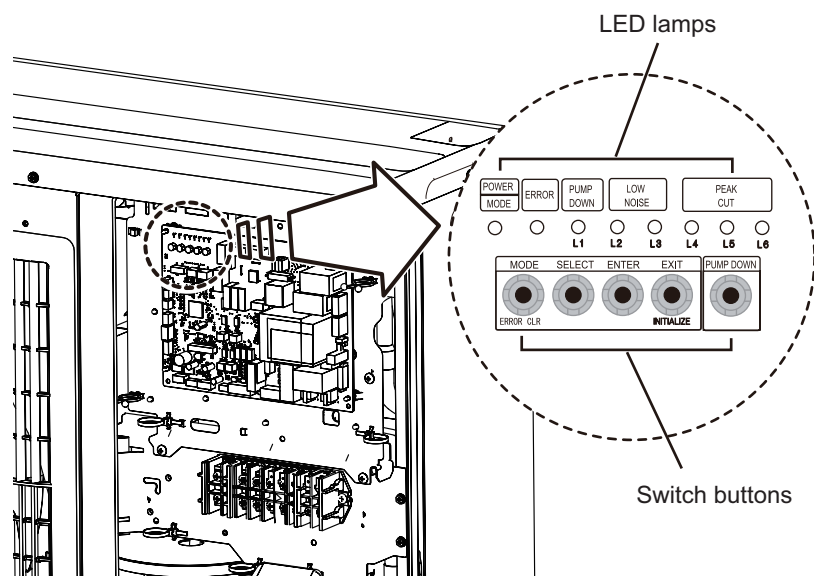
NOTE: Incorrect settings can cause a product malfunction.

⚠ CAUTION

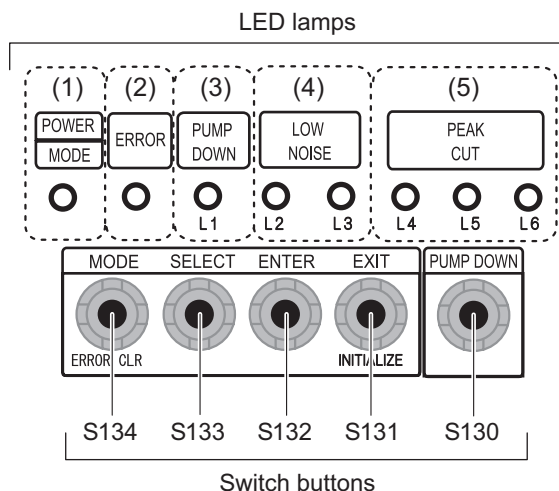
- Before setting up the switch buttons, discharge the static electricity from your body.
- Never touch the terminals or the patterns on the parts that are mounted on the PCB.

13-1. Control PCB and switch buttons location

Control PCB of the outdoor unit is located as shown in the following figure.



Switch buttons and the functions



LED lamp			Function or operation method
(1)	POWER/MODE	Green	Lights on while power on. Blinks to show the local setting on the outdoor unit or the error code.
(2)	ERROR	Red	Blinks during error operation.
(3)	PUMP DOWN (L1)	Orange	Lights on during pump down operation.
(4)	LOW NOISE MODE (L2 and L3)	Orange	Lights on during "Low noise mode" when local setting is activated. (Light pattern of L2 and L3 indicates the low noise level.)
(5)	PEAK CUT MODE (L4, L5, and L6)	Orange	Lights on during "Peak cut mode" when local setting is activated. (Light pattern of L4, L5, and L6 indicates the peak cut level.)

Switch button		Function or operation method
S134	MODE	Switches between "Local setting" and "Error code display".
S133	SELECT	Switches between the individual "Local settings" and the "Error code displays".
S132	ENTER	Switches between the individual "Local settings" and the "Error code displays".
S131	EXIT	Returns to "Operation status display".
S130	PUMP DOWN	Starts the pump down operation.

13-2. Local setting procedure

NOTE: Before performing the function setting, be sure to stop the operation of the air conditioner.

Low noise mode

1. Press the MODE switch button (S134) for 3 seconds or more to switch to "Local setting mode".
2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

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

Sign "○": Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.

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

4. Press the ENTER switch button (S132).

LOW NOISE MOD E	LOW NOISE (L2) (L3)	
	○	●

Sign "●": Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

	PEAK CUT (L4) (L5) (L6)		
	○	○	Blink
MODE 1: Low	○	○	Blink
MODE 2: Lower	○	Blink	○

6. Press the ENTER switch button (S132) and fix it.

	PEAK CUT (L4) (L5) (L6)		
	○	○	●
MODE 1: Low	○	○	●
MODE 2: Lower	○	●	○

7. To return to "Operating status display (Normal operation)", press the EXIT switch button (S131).

In case of missing how many times you pressed the SELECT and ENTER switch buttons:

1. To return to "Operation status display (Normal operation)", press the EXIT switch button once.
2. Restart from the beginning of setting procedure.

■ Peak cut mode

1. Press the MODE switch button (S134) for 3 seconds or more to switch to "Local setting mode".
2. After confirming the LED lamp of POWER/MODE blinks 9 times, press the ENTER switch button (S132).

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

Sign "○": Lights off

3. Press the SELECT switch button (S133), and adjust the LED lamp as shown below. Then the LED lamp indicates the current setting.

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

4. Press the ENTER switch button (S132).

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

Sign "●": Lights on

5. Press the SELECT switch button (S133), and adjust the LED lamps as shown below.

	PEAK CUT		
	(L4)	(L5)	(L6)
0 % of rated input ratio	○	○	Blink
50 % of rated input ratio	○	Blink	○
75 % of rated input ratio	○	Blink	Blink
100 % of rated input ratio	Blink	○	○

6. Press the ENTER switch button (S132) and fix it.

	PEAK CUT		
	(L4)	(L5)	(L6)
0 % of rated input ratio	○	○	●
50 % of rated input ratio	○	●	○
75 % of rated input ratio	○	●	●
100 % of rated input ratio	●	○	○

7. To return to "Operating status display (Normal operation)", press the EXIT switch button (S131).

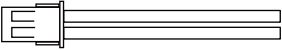
NOTE: When pressed number is lost during setting, you must redo the setting procedure. Return to "Operation status display (Normal operation)" by pressing the EXIT switch button once, and restart from the beginning of the setting procedure.

14. Accessories

14-1. Models: AOYG30KBTB, AOYG36KBTB, and AOYG45KBTB

Part name	Exterior	Qty	Part name	Exterior	Qty
Installation manual		1	Drain cap		3
Drain pipe		1	One-touch bush		2

15. Optional parts

Exterior	Part name	Model name	Summary
	External Connect Kit	UTY-XWZXZ3	Use to operate the external input and output functions of outdoor unit.

OUTDOOR UNIT
AOYG30-45KBTB

OUTDOOR UNIT
AOYG30-45KBTB