

AIR CONDITIONER

Duct type

DESIGN & TECHNICAL MANUAL

INDOOR



ARXG36KHTAP
ARXG45KHTAP
ARXG54KHTAP

OUTDOOR



AOHG36KRTA



AOHG45KRTA
AOHG54KRTA

FUJITSU GENERAL LIMITED

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Part 1. INDOOR UNIT

DUCT TYPE:

ARXG36KHTAP

ARXG45KHTAP

ARXG54KHTAP

1. Specifications

Type				Duct			
				Inverter heat pump			
Model name				ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP	
Power supply				3N 400 V ~ 50 Hz			
Power supply intake				Outdoor unit			
Available voltage range				342—457 V			
Capacity	Cooling	Rated	kW	9.5	12.1	13.4	
			Btu/h	32,400	41,300	45,700	
		Min.—Max.	kW	2.8—11.2	4.0—14.0	4.5—14.5	
		Btu/h	9,600—38,200	13,600—47,800	15,400—49,500		
	Heating	Rated	kW	10.8	13.5	15.5	
			Btu/h	36,900	46,100	52,900	
Min.—Max.		kW	2.7—12.7	4.2—16.2	4.7—16.5		
		Btu/h	9,200—43,300	14,300—55,300	16,000—56,300		
Input power	Cooling	Rated	kW	2.86	3.53	4.42	
		Max.		4.12	4.88	5.23	
	Heating	Rated		2.48	3.37	3.89	
		Max.	4.53	4.74	4.83		
	Fan	HIGH	W	150	225	225	
		MED		90	135	135	
LOW		60		90	90		
QUIET	45	70		70			
Current	Cooling	Rated	A	5.50	6.60	8.00	
	Heating			4.90	6.40	7.20	
Power factor	Cooling		%	75.0	77.2	80.4	
	Heating			73.9	76.6	78.4	
EER		Cooling	kW/kW	3.32	3.43	3.03	
COP		Heating		4.35	4.01	3.98	
Moisture removal			L/h (pints/h)	2.0 (3.5)	2.6 (4.6)	3.7 (6.5)	
Maximum operating current *1		Cooling	A	10.5	14.0		
		Heating		10.5	14.0		
Fan	Airflow rate	Cooling	m³/h	2,050	2,550		
				MED	1,640	2,040	
				LOW	1,330	1,650	
				QUIET	1,070	1,430	
		Heating		HIGH	1,850	2,550	
				MED	1,640	2,040	
				LOW	1,330	1,650	
				QUIET	1,070	1,430	
	Type × Q'ty		Sirocco fan × 3				
	Motor output		W	375			
Static pressure range			Pa	30 to 200			
Sound pressure level *2	Cooling	HIGH	dB (A)	36	39		
				MED	31	35	
				LOW	28	31	
				QUIET	26	29	
	Heating	HIGH		33	39		
				MED	31	35	
				LOW	28	31	
				QUIET	26	29	
Sound power level		Cooling	dB (A)	64	67		
Heating	63	69					
Heat exchanger type	Dimensions (H × W × D)		mm	420 × 1,158 × 39.9			
	Fin pitch			1.4			
	Rows × Stages		3 × 20				
	Pipe type		Copper				
	Fin type		Aluminum				
Enclosure		Material	Steel sheet				
		Color	—				
Dimensions (H × W × D)	Net		mm	300 × 1,400 × 700			
	Gross			400 × 1,638 × 875			
Weight	Net		kg	46			
	Gross			56			
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (3/8)			
		Gas		Ø 15.88 (5/8)			
Drain hose	Method		Flare				
	Material		PVC				
Operation range	Cooling	Size	mm	Ø 25 (I.D.), Ø 32 (O.D.)			
				°C	18 to 32		
	Heating		°C	80 or less			
					16 to 30		
Remote control (Option)				Wired remote controller, Wireless remote controller, Mobile app*3 (FGLair™)			

NOTES:

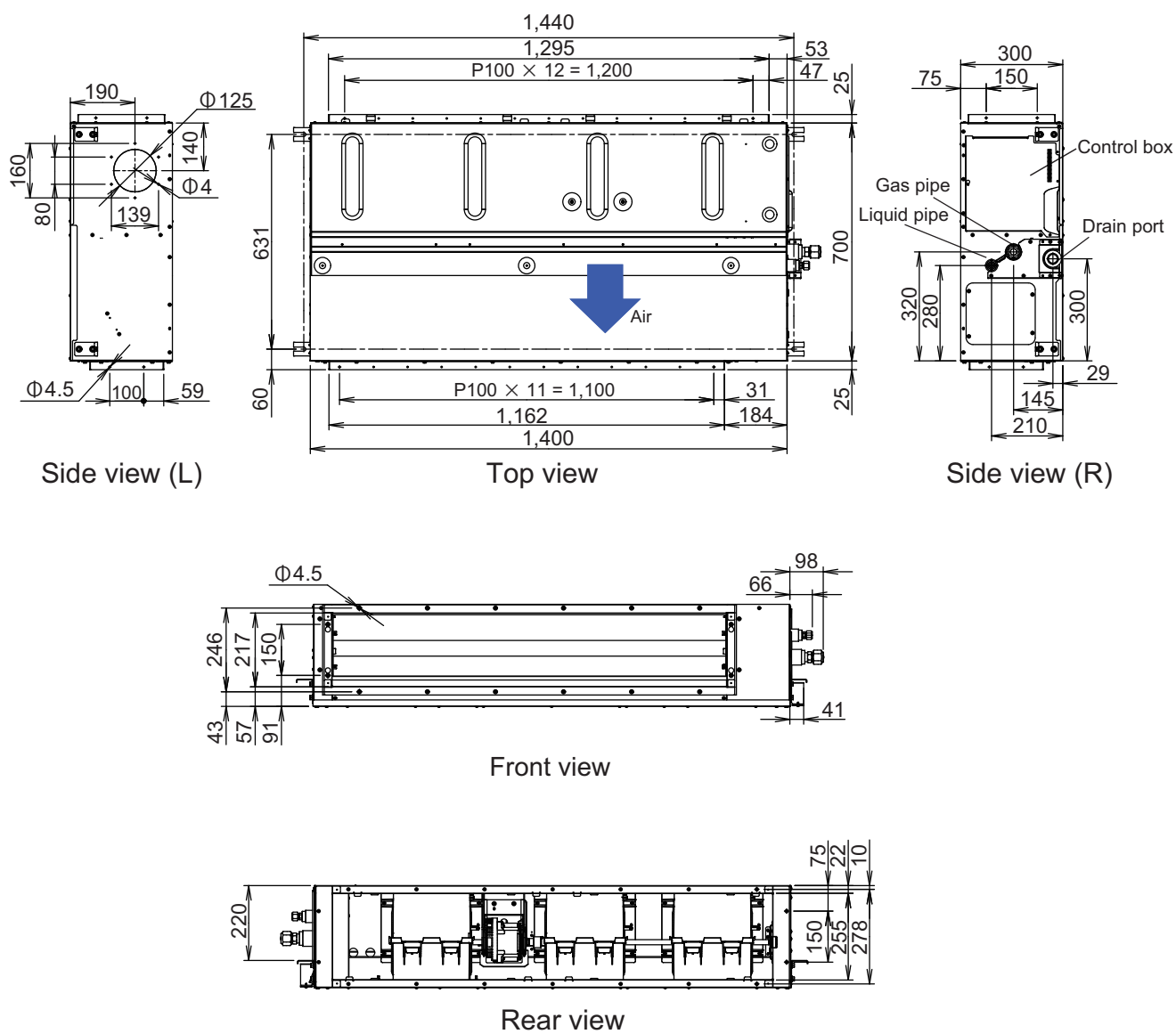
- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
 - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.
 - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
 - Standard static pressure; 36 type: 47 Pa, 45 and 54 types: 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.

Specifications for Erp Lot10			
Model name		ARXG36KHTAP	
Energy efficiency class	Cooling	A ⁺⁺	
	Heating (Average)	A ⁺	
Pdesign	Cooling	kW	9.5 (35°C)
	Heating (Average)		8.7 (-10°C)
SEER	Cooling	kWh/kWh	6.10
SCOP	Heating (Average)		4.20
Annual energy consumption	QCE	kWh/a	544
	QHE (Average)		2,898

2. Dimensions

2-1. Models: ARXG36KHTAP, ARXG45KHTAP, and ARXG54KHTAP

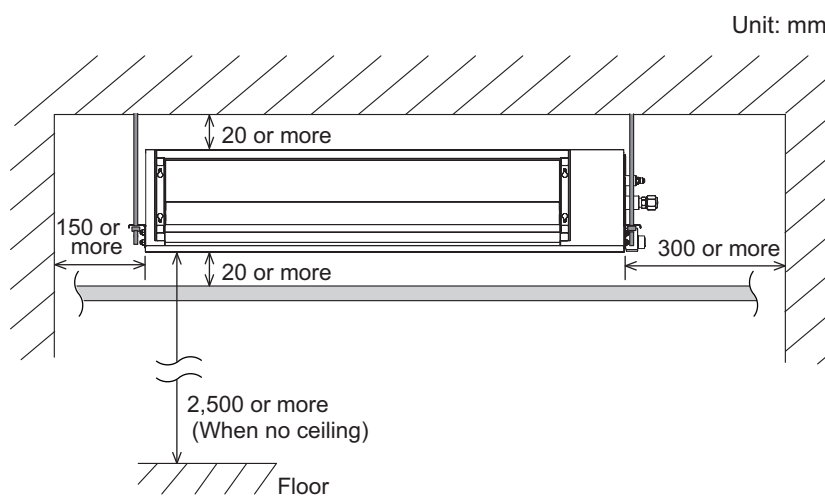
Unit: mm



2-2. Installation space requirement

Provide sufficient installation space for product safety.

■ Models: ARXG36KHTAP, ARXG45KHTAP, and ARXG54KHTAP



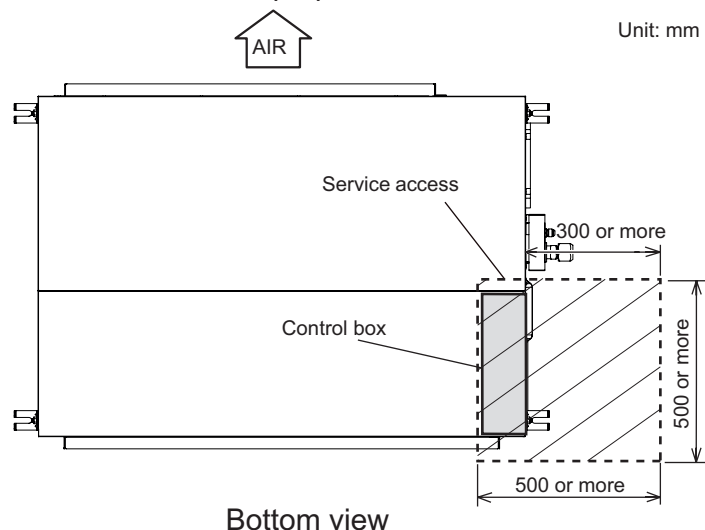
2-3. Maintenance space requirement

For future maintenance and service access, provide sufficient maintenance space.

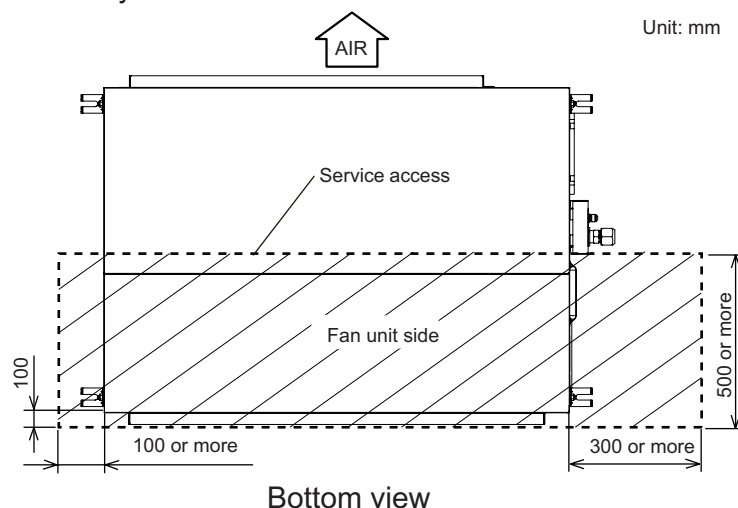
NOTE: Do not place any wiring or illumination in the maintenance space, as they will impede service.

■ Models: ARXG36KHTAP, ARXG45KHTAP, and ARXG54KHTAP

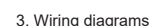
- Provide a service access for maintenance purposes.



- The service access necessary for fan units and filter maintenance.



3-1. Models: ARXG36KHTAP, ARXG45KHTAP, and ARXG54KHTAP



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: ARXG36KHTAP

AFR						m³/h						2,050										
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	6.91	6.05	1.03	7.15	6.08	1.06	7.31	6.10	1.08	7.72	6.39	1.09	8.13	6.68	1.11	8.58	6.89	1.13	9.27	7.22	1.15
	-10	6.76	6.03	1.26	7.00	6.06	1.29	7.16	6.08	1.31	7.56	6.37	1.33	7.96	6.66	1.35	8.40	6.87	1.37	9.07	7.19	1.40
	0	6.47	6.00	1.70	6.70	6.02	1.74	6.86	6.04	1.77	7.24	6.33	1.80	7.62	6.62	1.83	8.05	6.83	1.85	8.69	7.15	1.89
	5	6.42	5.97	1.75	6.64	6.00	1.79	6.80	6.02	1.82	7.17	6.30	1.85	7.55	6.59	1.88	7.98	6.80	1.91	8.61	7.12	1.95
	10	6.36	5.95	1.80	6.59	5.98	1.85	6.74	5.99	1.87	7.11	6.28	1.91	7.49	6.56	1.94	7.91	6.78	1.97	8.54	7.10	2.01
15	6.26	5.85	1.86	6.48	5.88	1.90	6.62	5.90	1.93	6.99	6.18	1.96	7.36	6.46	1.99	7.77	6.67	2.02	8.39	6.98	2.07	
20	9.44	7.86	2.42	9.77	7.89	2.47	9.99	7.91	2.51	10.55	8.29	2.55	11.10	8.67	2.60	11.73	8.95	2.63	12.66	9.37	2.69	
25	8.98	7.65	2.50	9.30	7.68	2.56	9.51	7.71	2.60	10.04	8.07	2.64	10.57	8.44	2.68	11.16	8.71	2.72	12.05	9.12	2.78	
30	8.53	7.44	2.58	8.83	7.48	2.64	9.03	7.50	2.68	9.53	7.85	2.73	10.03	8.21	2.77	10.60	8.48	2.81	11.44	8.88	2.87	
35	8.07	7.24	2.66	8.36	7.27	2.72	8.55	7.29	2.77	9.02	7.64	2.81	9.50	7.98	2.86	10.03	8.24	2.90	10.83	8.63	2.96	
40	7.55	7.03	2.78	7.82	7.06	2.85	8.00	7.08	2.89	8.44	7.42	2.94	8.89	7.76	2.99	9.39	8.01	3.03	10.14	8.38	3.10	
46	6.93	6.78	2.93	7.18	6.81	2.99	7.34	6.83	3.04	7.75	7.16	3.09	8.16	7.48	3.14	8.61	7.72	3.19	9.30	8.09	3.26	

■ Model: ARXG45KHTAP

AFR							m³/h							2,550										
Outdoor temperature	°CDB	Indoor temperature																						
		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	7.31	1.68	9.23	7.68	1.72	9.71	7.92	1.74	10.20	8.25	1.77	10.68	8.58	1.79	11.12	8.74	1.79	11.79	8.97	1.79	
		-10	8.58	7.38	1.70	9.31	7.75	1.74	9.80	8.00	1.77	10.28	8.33	1.79	10.77	8.66	1.82	11.22	8.82	1.82	11.89	9.06	1.82	
		0	8.73	7.52	1.75	9.47	7.90	1.79	9.96	8.15	1.82	10.46	8.49	1.84	10.95	8.83	1.87	11.41	8.99	1.87	12.09	9.23	1.87	
		5	8.57	7.43	1.80	9.30	7.80	1.84	9.78	8.05	1.86	10.27	8.38	1.89	10.76	8.72	1.92	11.20	8.88	1.92	11.88	9.11	1.92	
		10	8.42	7.33	1.84	9.13	7.70	1.88	9.61	7.95	1.91	10.08	8.28	1.94	10.56	8.61	1.96	11.00	8.76	1.96	11.66	9.00	1.96	
15		8.27	7.21	1.89	8.98	7.58	1.94	9.45	7.82	1.96	9.91	8.14	1.99	10.38	8.47	2.02	10.82	8.62	2.02	11.47	8.85	2.02		
20	11.05	9.25	3.00	11.99	9.72	3.07	12.61	10.03	3.11	13.24	10.44	3.16	13.86	10.86	3.20	14.44	11.06	3.20	15.31	11.35	3.20			
25	10.58	9.02	3.11	11.48	9.47	3.17	12.08	9.77	3.22	12.68	10.18	3.27	13.28	10.59	3.31	13.83	10.78	3.31	14.66	11.07	3.31			
30	10.11	8.79	3.21	10.97	9.23	3.28	11.54	9.52	3.33	12.12	9.92	3.37	12.69	10.31	3.42	13.22	10.50	3.42	14.01	10.78	3.42			
35	9.64	8.55	3.31	10.46	8.98	3.38	11.01	9.27	3.43	11.55	9.65	3.48	12.10	10.04	3.53	12.61	10.22	3.53	13.36	10.50	3.53			
40	8.22	7.54	2.98	8.92	7.92	3.05	9.38	8.17	3.09	9.85	8.51	3.14	10.32	8.86	3.18	10.75	9.02	3.18	11.39	9.26	3.18			
46	6.51	6.33	2.59	7.07	6.65	2.64	7.44	6.86	2.68	7.80	7.15	2.72	8.17	7.43	2.76	8.51	7.57	2.76	9.03	7.77	2.76			

■ Model: ARXG54KHTAP

AFR						m³/h						2,550												
Outdoor temperature	°CDB	Indoor temperature																						
		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	9.68	7.66	1.91	10.50	8.13	1.95	11.05	8.44	1.98	11.59	8.80	2.01	12.14	9.15	2.04	12.65	9.32	2.05	13.41	9.57	2.08		
	-10	9.67	7.66	1.92	10.49	8.13	1.96	11.04	8.45	1.99	11.59	8.80	2.02	12.14	9.15	2.05	12.64	9.32	2.06	13.40	9.57	2.09		
	0	9.66	7.67	1.94	10.48	8.14	1.98	11.03	8.45	2.01	11.58	8.81	2.04	12.13	9.16	2.07	12.63	9.33	2.09	13.39	9.58	2.11		
	5	9.49	7.59	1.99	10.30	8.06	2.03	10.84	8.37	2.06	11.37	8.72	2.09	11.91	9.07	2.12	12.41	9.23	2.14	13.15	9.48	2.16		
	10	9.32	7.51	2.04	10.11	7.97	2.08	10.64	8.28	2.11	11.17	8.63	2.14	11.70	8.98	2.17	12.18	9.14	2.19	12.92	9.39	2.22		
15	9.16	7.39	2.10	9.94	7.84	2.14	10.46	8.15	2.17	10.98	8.49	2.21	11.50	8.83	2.24	11.98	8.99	2.25	12.70	9.23	2.28			
20	12.24	9.59	3.76	13.27	10.18	3.84	13.97	10.57	3.90	14.66	11.01	3.96	15.35	11.46	4.01	16.00	11.66	4.04	16.96	11.98	4.09			
25	11.72	9.35	3.89	12.71	9.92	3.97	13.38	10.30	4.03	14.04	10.73	4.09	14.70	11.17	4.15	15.32	11.37	4.18	16.24	11.68	4.23			
30	11.20	9.10	4.02	12.15	9.66	4.11	12.78	10.04	4.16	13.42	10.46	4.22	14.05	10.88	4.28	14.64	11.08	4.32	15.52	11.37	4.37			
35	10.68	8.86	4.14	11.59	9.41	4.24	12.19	9.77	4.30	12.80	10.18	4.36	13.40	10.59	4.42	13.96	10.78	4.46	14.80	11.07	4.51			
40	9.10	7.59	3.73	9.88	8.06	3.82	10.39	8.37	3.87	10.91	8.72	3.93	11.42	9.07	3.98	11.90	9.24	4.01	12.62	9.49	4.06			
46	9.21	6.07	3.24	7.83	6.44	3.31	8.23	6.69	3.36	8.64	6.97	3.41	9.05	7.25	3.46	9.43	7.38	3.48	10.00	7.58	3.53			

4-2. Heating capacity

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

■ Model: ARXG36KHTAP

AFR			m³/h				1,850					
			Indoor temperature									
			16		18		20		22		24	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW	
	-15	-16	8.05	2.91	8.01	2.91	7.98	2.91	7.77	2.92	7.26	2.93
	-10	-11	9.21	3.14	9.17	3.14	9.13	3.15	8.89	3.15	8.31	3.16
	-5	-7	10.37	3.38	10.32	3.38	10.28	3.38	10.02	3.39	9.35	3.40
	0	-2	11.01	3.63	10.97	3.64	10.92	3.64	10.64	3.65	9.94	3.66
	5	3	12.30	3.69	12.24	3.69	12.19	3.70	11.88	3.70	11.09	3.71
	7	6	12.81	3.71	12.75	3.72	12.70	3.72	12.37	3.72	11.56	3.74
	10	8	13.20	3.71	13.15	3.72	13.09	3.72	12.75	3.72	11.91	3.74
15	10	13.73	3.71	13.68	3.72	13.62	3.72	13.27	3.72	12.39	3.74	
20	15	14.63	3.72	14.56	3.73	14.50	3.73	14.13	3.73	13.19	3.75	
24	18	15.34	3.73	15.27	3.73	15.21	3.74	14.82	3.74	13.84	3.75	

■ Model: ARXG45KHTAP

AFR			m³/h				2,550					
			Indoor temperature									
			16		18		20		22		24	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW	
	-15	-16	12.04	4.31	11.75	4.33	11.46	4.35	11.19	4.35	10.53	4.35
	-10	-11	13.37	4.49	13.05	4.52	12.73	4.54	12.43	4.54	11.69	4.54
	-5	-7	14.70	4.68	14.35	4.70	14.00	4.72	13.67	4.72	12.86	4.72
	0	-2	15.48	4.86	15.11	4.88	14.74	4.91	14.40	4.91	13.54	4.91
	5	3	16.57	4.30	16.18	4.32	15.78	4.35	15.42	4.35	14.50	4.35
	7	6	17.01	4.30	16.61	4.32	16.20	4.34	15.82	4.34	14.88	4.34
	10	8	17.72	4.29	17.29	4.31	16.87	4.33	16.48	4.33	15.50	4.33
15	10	18.89	4.27	18.44	4.29	17.99	4.31	17.57	4.31	16.53	4.31	
20	15	20.07	4.25	19.59	4.28	19.11	4.30	18.66	4.30	17.55	4.30	
24	18	21.01	4.24	20.50	4.26	20.00	4.29	19.54	4.29	18.38	4.29	

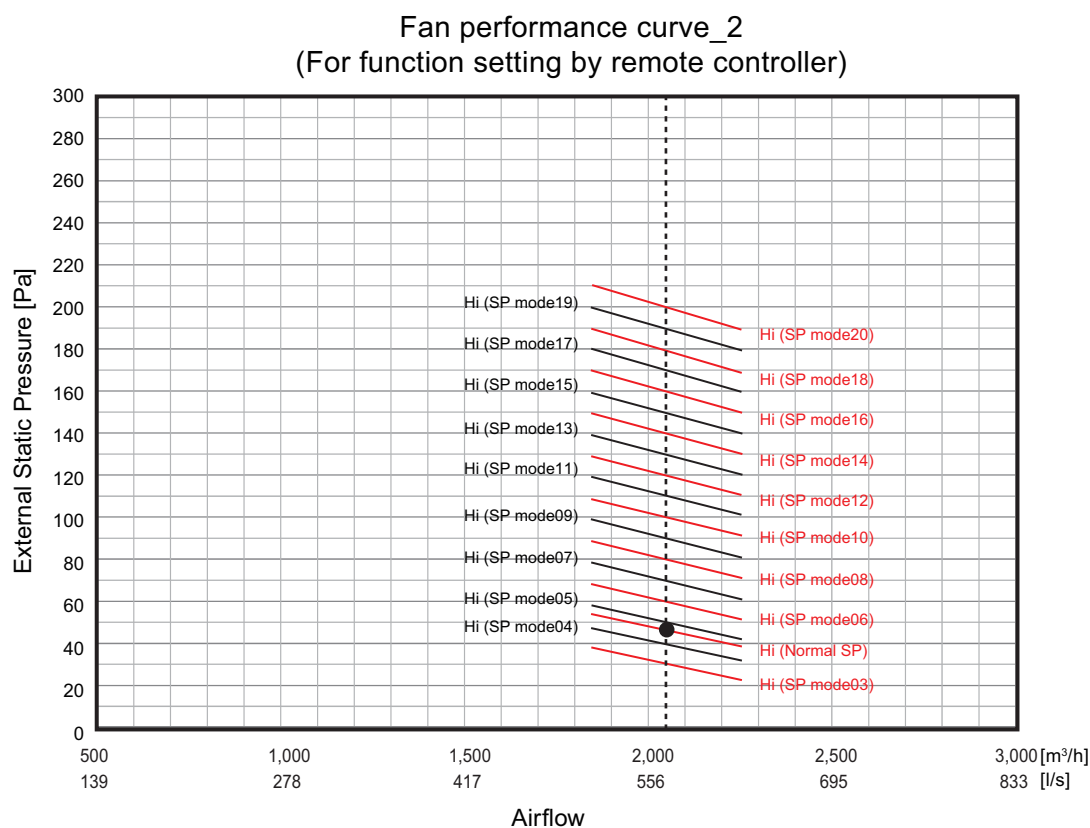
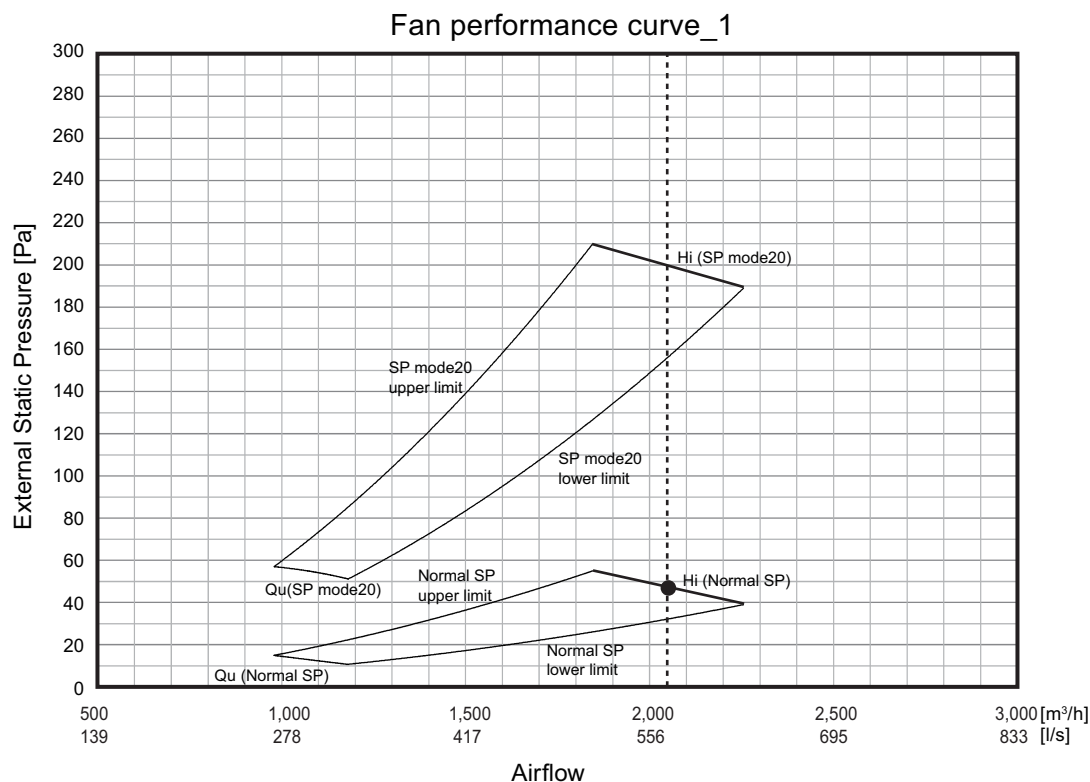
■ Model: ARXG54KHTAP

AFR			m³/h				2,550					
			Indoor temperature									
			16		18		20		22		24	
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW	
	-15	-16	12.26	4.49	11.97	4.51	11.67	4.53	11.40	4.58	10.72	4.71
	-10	-11	13.62	4.68	13.29	4.70	12.97	4.72	12.66	4.78	11.91	4.91
	-5	-7	14.97	4.87	14.61	4.89	14.26	4.92	13.93	4.97	13.10	5.11
	0	-2	15.77	5.06	15.39	5.08	15.02	5.11	14.67	5.17	13.79	5.31
	5	3	16.88	4.59	16.48	4.61	16.08	4.64	15.70	4.69	14.77	4.82
	7	6	17.33	4.58	16.91	4.61	16.50	4.63	16.12	4.68	15.16	4.81
	10	8	18.05	4.57	17.61	4.60	17.18	4.62	16.78	4.67	15.79	4.80
15	10	19.24	4.56	18.78	4.58	18.32	4.60	17.90	4.65	16.83	4.78	
20	15	20.44	4.54	19.95	4.56	19.46	4.59	19.01	4.64	17.88	4.76	
24	18	21.40	4.53	20.88	4.55	20.37	4.57	19.90	4.62	18.72	4.75	

5. Fan performance

5-1. Fan performance curve

■ Model: ARXG36KHTAP

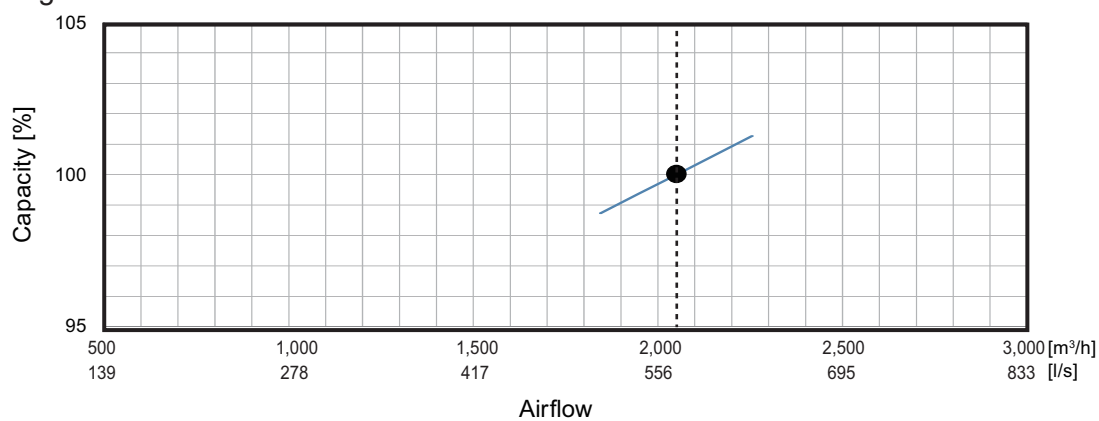


NOTES:

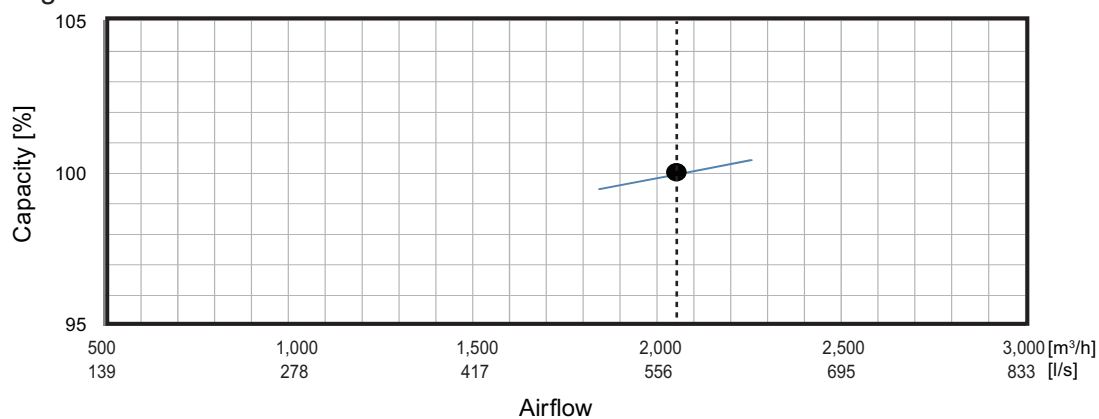
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve_2" above.
- The default setting is set at "Normal SP".

● Characteristics of air volume and capacity

- Cooling

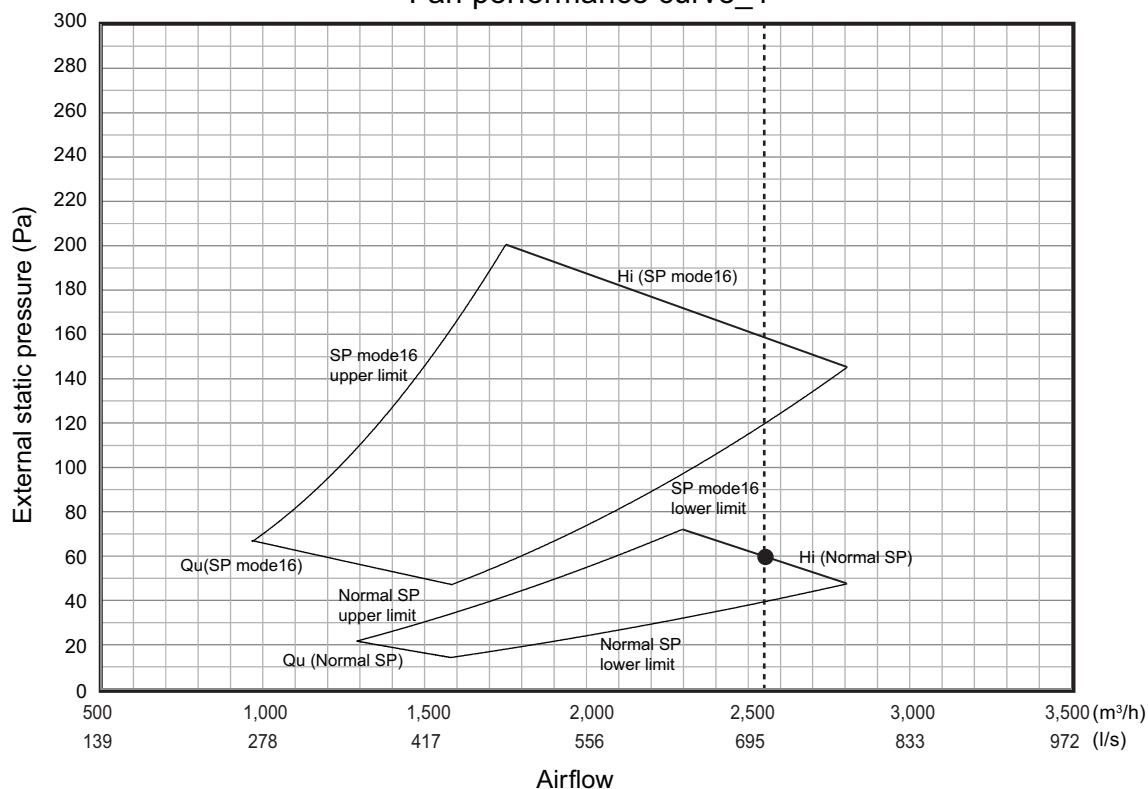


- Heating

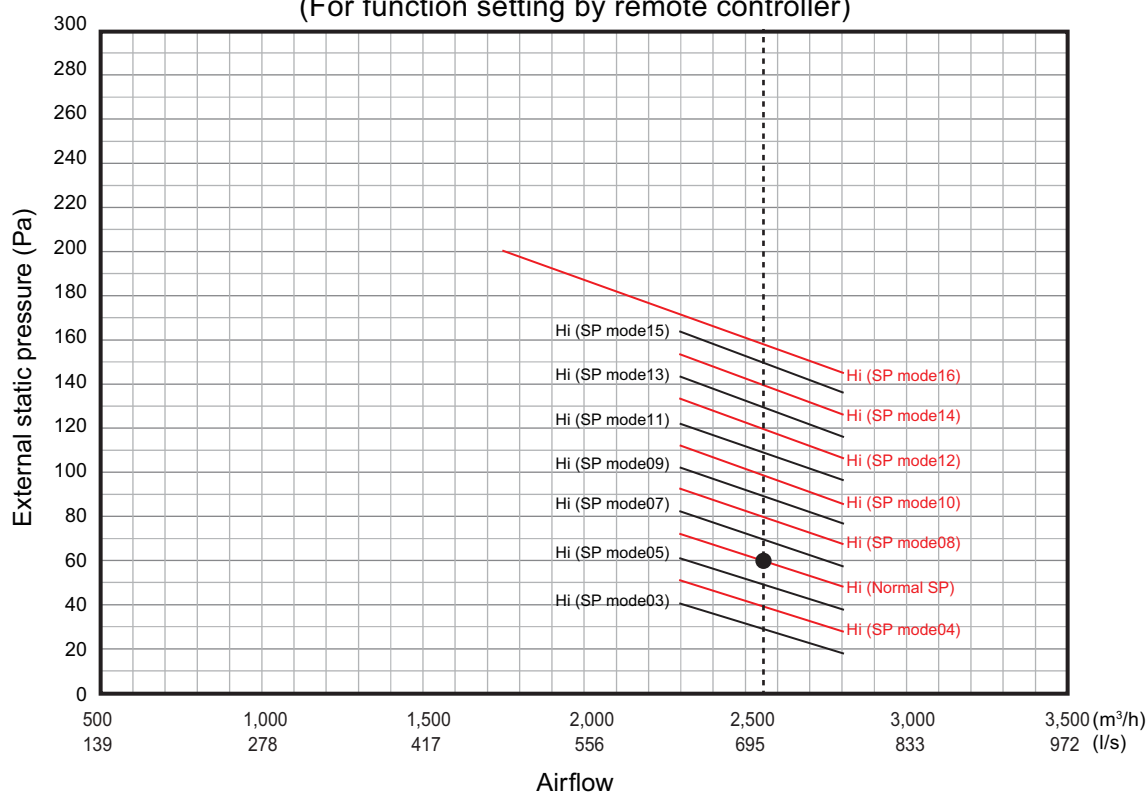


Models: ARXG45KHTAP and ARXG54KHTAP

Fan performance curve_1



Fan performance curve_2
(For function setting by remote controller)

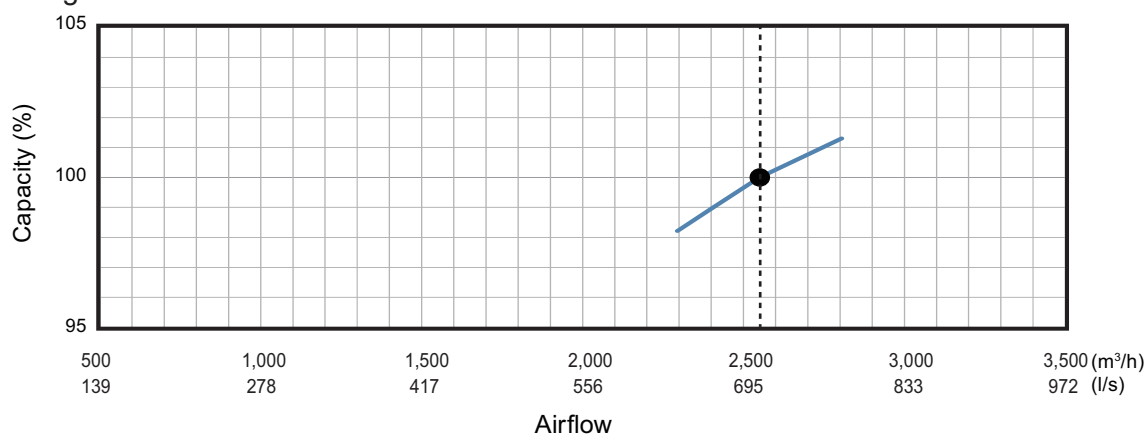


NOTES:

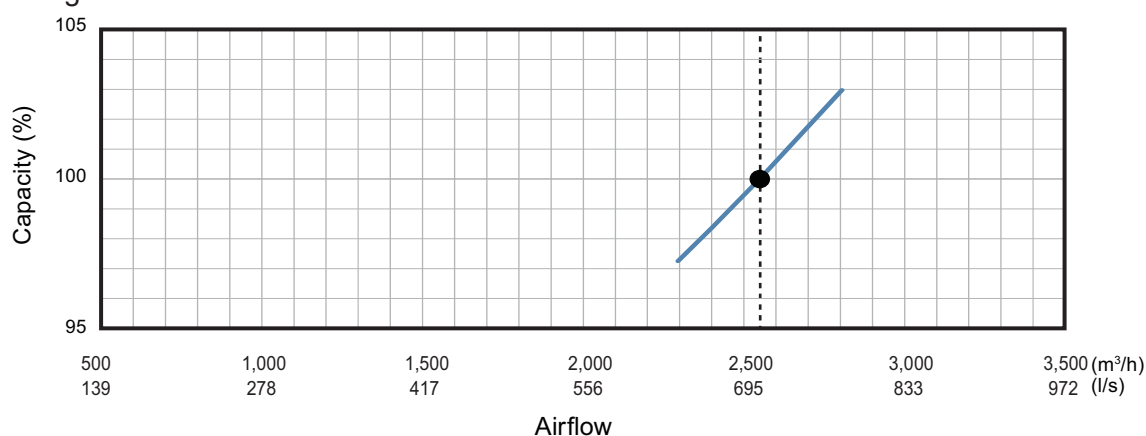
- Setting of the external static pressure is switchable into modes by using the remote controller.
- According to the resistance of the connecting duct, perform the setting of the external static pressure with referring "Fan performance curve_2" above.
- The default setting is set at "Normal SP".

● 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: ARXG36KHTAP

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	2,050
	l/s	569
	CFM	1,207
MED	m ³ /h	1,640
	l/s	456
	CFM	965
LOW	m ³ /h	1,330
	l/s	369
	CFM	783
QUIET	m ³ /h	1,070
	l/s	297
	CFM	630

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	1,850
	l/s	514
	CFM	1,089
MED	m ³ /h	1,640
	l/s	456
	CFM	965
LOW	m ³ /h	1,330
	l/s	369
	CFM	783
QUIET	m ³ /h	1,070
	l/s	297
	CFM	630

■ Model: ARXG45KHTAP

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	2,550
	l/s	708
	CFM	1,501
MED	m ³ /h	2,040
	l/s	567
	CFM	1,201
LOW	m ³ /h	1,650
	l/s	458
	CFM	971
QUIET	m ³ /h	1,430
	l/s	397
	CFM	842

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	2,550
	l/s	708
	CFM	1,501
MED	m ³ /h	2,040
	l/s	567
	CFM	1,201
LOW	m ³ /h	1,650
	l/s	458
	CFM	971
QUIET	m ³ /h	1,430
	l/s	397
	CFM	842

■ Model: ARXG54KHTAP

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	2,550
	l/s	708
	CFM	1,501
MED	m ³ /h	2,040
	l/s	567
	CFM	1,201
LOW	m ³ /h	1,650
	l/s	458
	CFM	971
QUIET	m ³ /h	1,430
	l/s	397
	CFM	842

● Heating

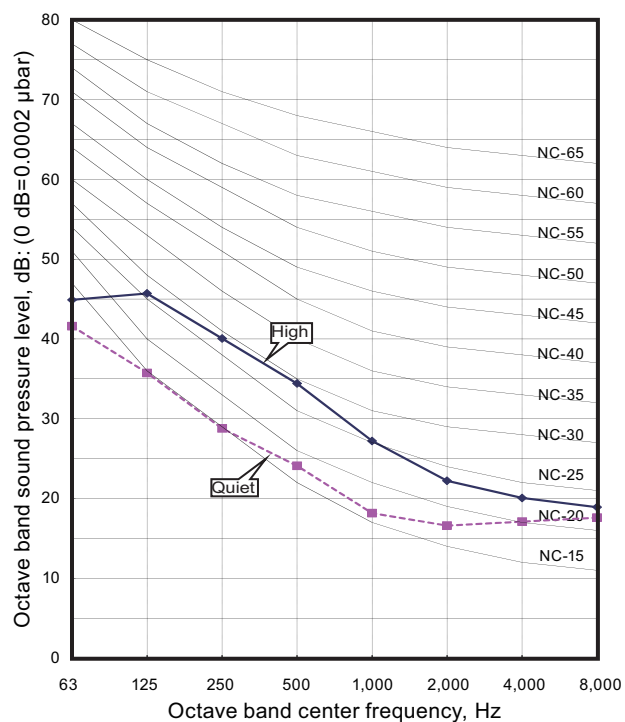
Fan speed	Airflow	
HIGH	m ³ /h	2,550
	l/s	708
	CFM	1,501
MED	m ³ /h	2,040
	l/s	567
	CFM	1,201
LOW	m ³ /h	1,650
	l/s	458
	CFM	971
QUIET	m ³ /h	1,430
	l/s	397
	CFM	842

6. Operation noise (sound pressure)

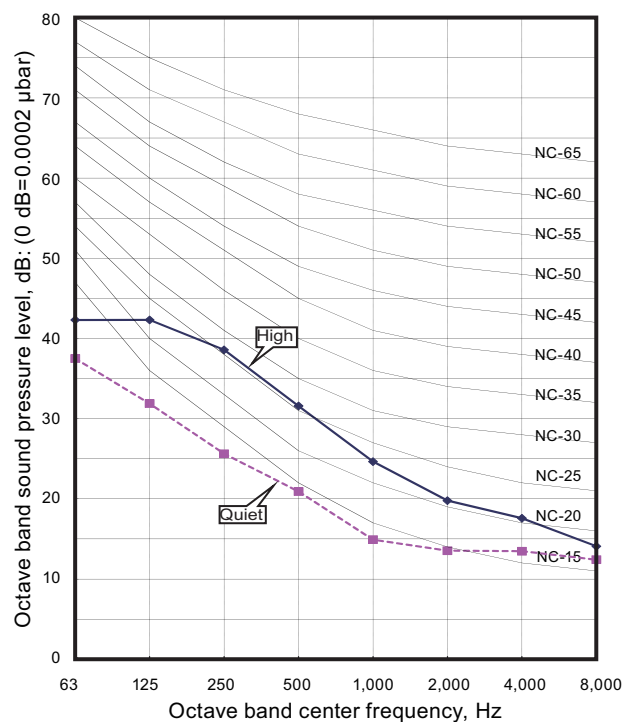
6-1. Noise level curve

■ Model: ARXG36KHTAP

● Cooling

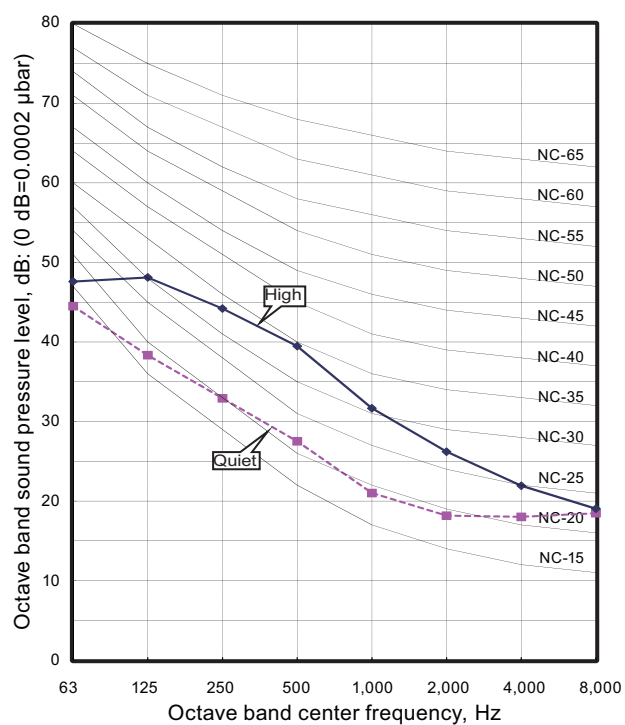


● Heating

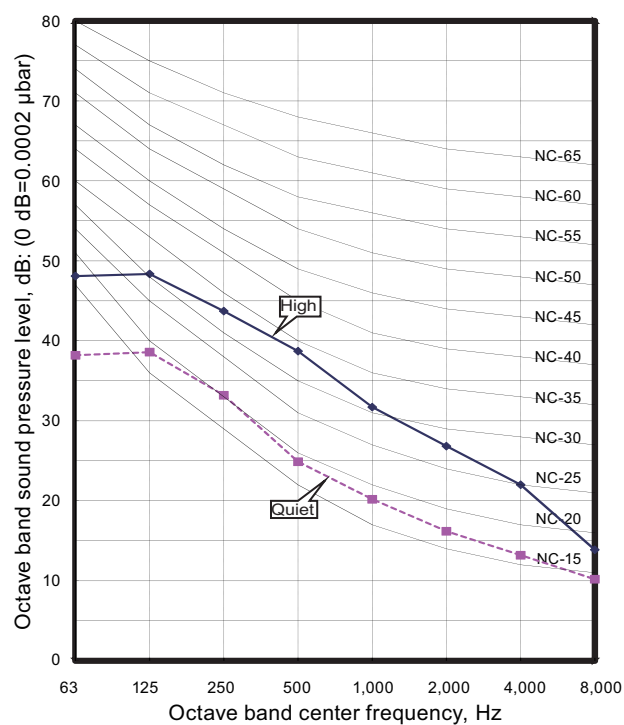


■ Model: ARXG45KHTAP

● Cooling

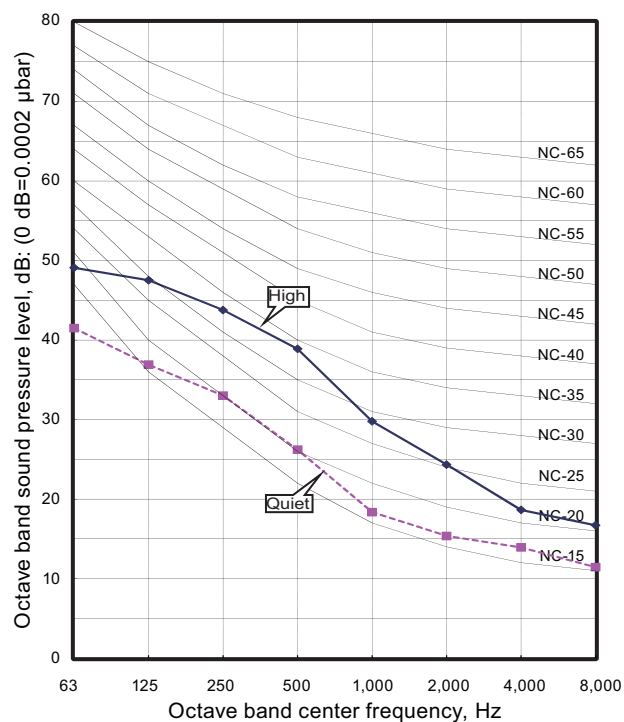


● Heating

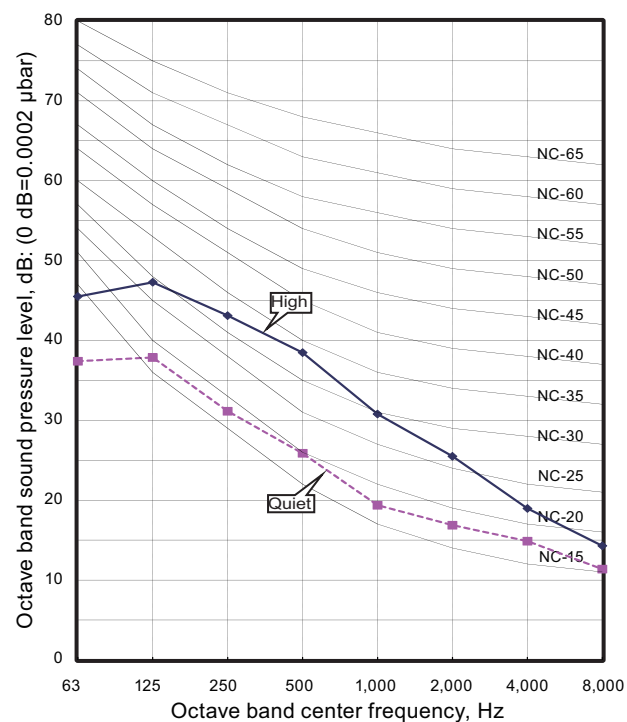


Model: ARXG54KHTAP

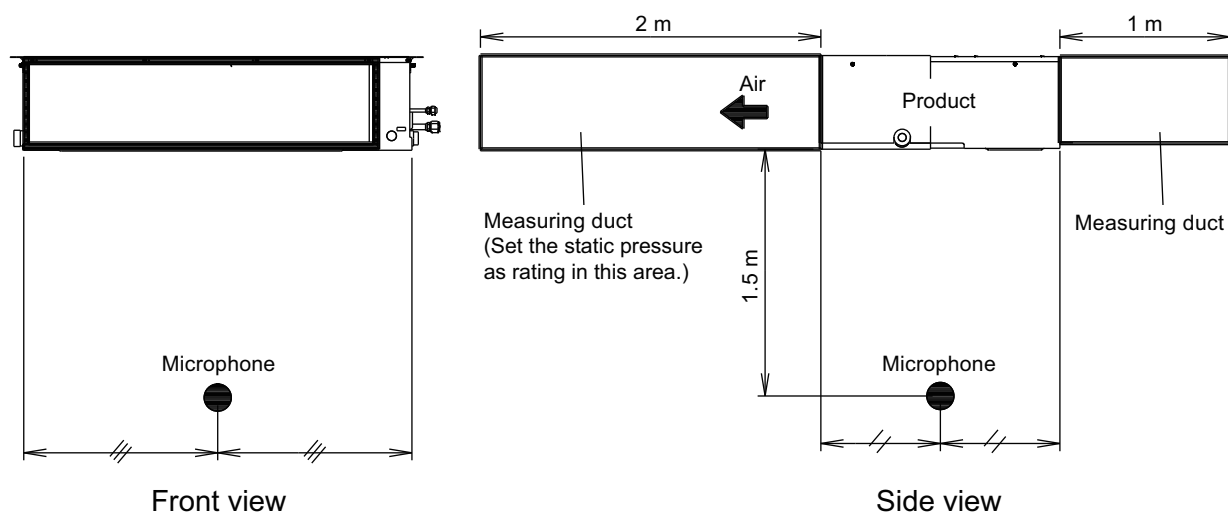
● Cooling



● Heating



6-2. Sound level check point



7. Safety devices

Type of protection	Protection form		Model
			ARXG36KHTAP ARXG45KHTAP ARXG54KHTAP
Circuit protection	Current fuse (PCB*)		250 V, 10 A
Fan motor protection	Thermal protection program	Activate	100 ±5 °C Fan motor stop
		Reset	70 ±15 °C Fan motor restart
	Current protection		7.58 A

*: Printed Circuit Board

8. External input and output

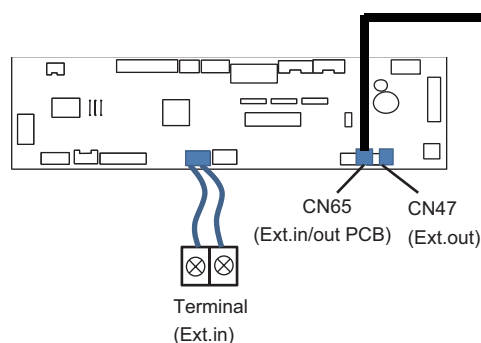


Fig. Indoor unit PCB

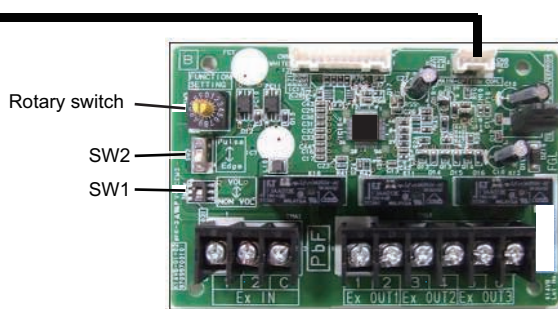


Fig. External input and output PCB

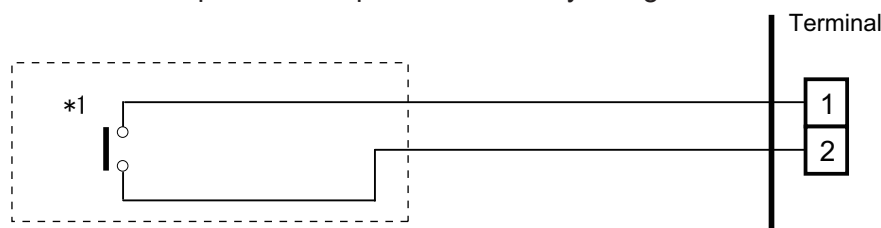
PCB	External input	External output	Connector	Input select	Input signal	External connect kit (Optional parts)
Indoor unit	Operation/Stop Forced stop	—	Terminal	Dry contact	Edge	—
	—	Operation status	CN47	—	—	UTY-XWZXZG
		Error status				
		Indoor unit fan operation status				
		External heater output				
External input and output (UTY-XCSX)	Operation/Stop	—	Input 1/ Input 2	Dry contact/ Apply voltage	Edge/ Pulse	—
	Forced thermostat off		Input 1		Edge	
	—	Operation status	Output 1 Output 2 Output 3	—	—	—
		Error status				
		Indoor unit status				
		External heater output				

8-1. External input

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

Indoor unit

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



*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

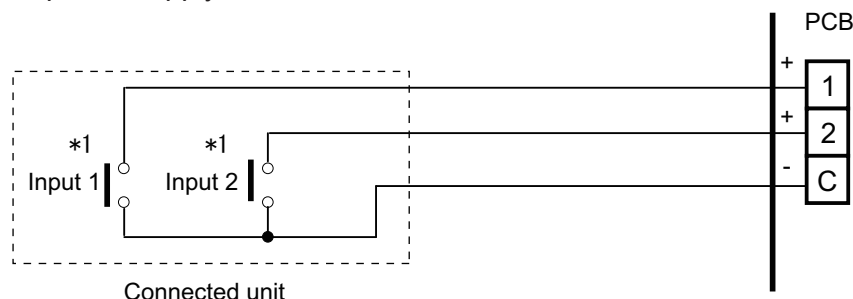
The indoor unit Operation/Stop can be set by using the input terminal on the PCB.

● Input select

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

- Dry contact

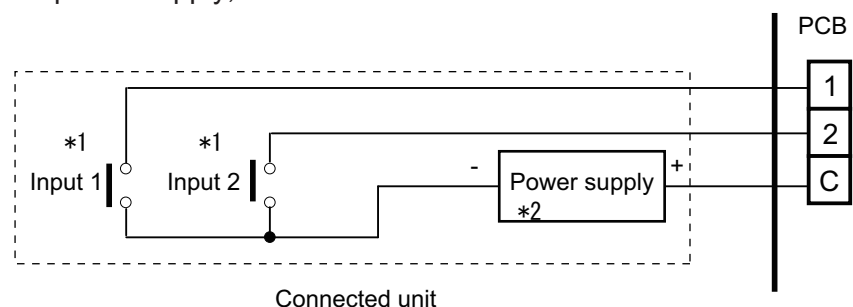
In case of internal power supply, set the slide switch of SW1 to "NON VOL" side.



*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.

8-2. External output

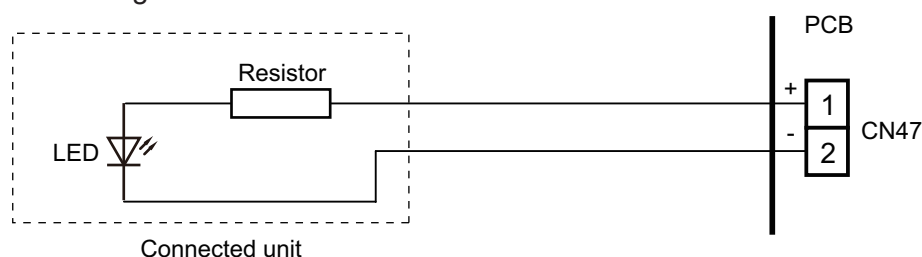
Use an external output cable with appropriate external dimension, depending on the number of cables to be installed.

Indoor unit

- A twisted pair cable (22AWG) 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 Chapter 8-3. ["Combination of external input and output"](#) on page 23.

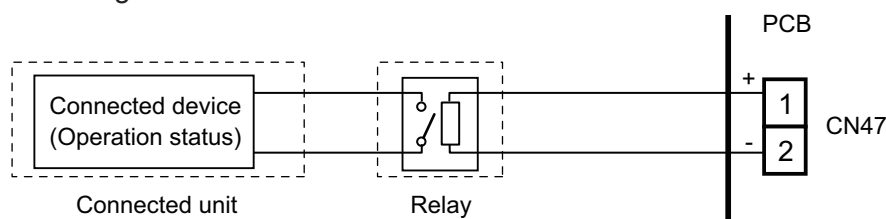
When indicator, etc. are connected directly

Example: Function setting 60 is set to "00"



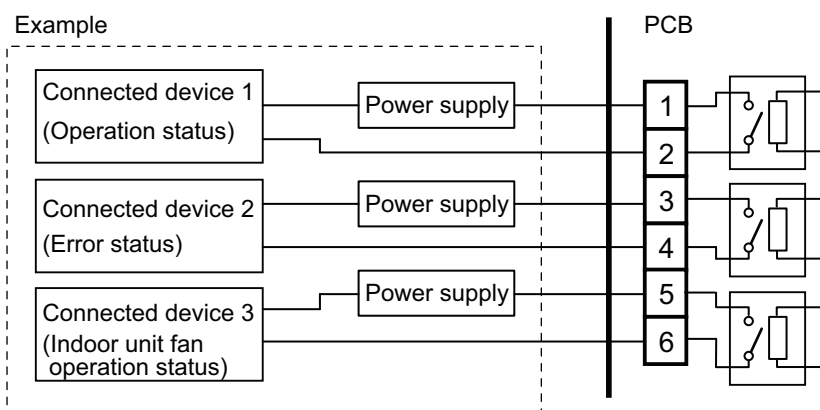
When connecting with a device equipped with a power supply

Example: Function setting 60 is set to "00"



External input and output PCB

- A twisted pair cable (22AWG) 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 Chapter 8-3. ["Combination of external input and output"](#) on page 23.



8-3. Combination of external input and output

By combining the function setting of the indoor unit and rotary switch setting of the External input and output PCB, you can select various combinations of functions.

Combination examples of external input and output are as follows:

Mode	Function setting	External input and output PCB (Rotary SW)	External input			
			Indoor unit Input	External input and output PCB		
				Input 1	Input 2	Signal type
0-1	60-00	1	Operation/Stop	Operation/Stop	Not available	Edge
				Operation	Stop	Pulse
0-2	60-00	2	Operation/Stop	Forced Thermostat OFF	Not available	Edge
1—8	60-01 to 60-08	3 - 9, A	(Setting prohibited)			
9	60-09	B	Operation/Stop	Forced Thermostat OFF	Not available	Edge
10	60-10	C	Operation/Stop	Forced Thermostat OFF	Not available	Edge
11	60-11	D	Operation/Stop	Forced Thermostat OFF	Not available	Edge

Mode	Function setting	External input and output PCB (Rotary SW)	External output			
			Indoor unit Output	External input and output PCB		
				Output 1	Output 2	Output 3
0-1	60-00	1	Operation/Stop	Operation/Stop	Error status	Indoor unit fan operation status
0-2	60-00	2	Operation/Stop	Error status	Indoor unit fan operation status	External heater output
1—8	60-01 to 60-08	3 - 9, A	(Setting prohibited)			
9	60-09	B	Error status	Operation/Stop	Indoor unit fan operation status	External heater output
10	60-10	C	Indoor unit fan operation status	Operation/Stop	Error status	External heater output
11	60-11	D	External heater output	Operation/Stop	Indoor unit fan operation status	Error status

NOTE: Input of Operation/Stop depends on the setting of function setting 46.

00: Operation/Stop mode 1 (R.C. enabled)

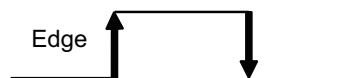
01: (Setting prohibited)

02: Forced stop

03: Operation/Stop mode 2 (R.C. disabled)

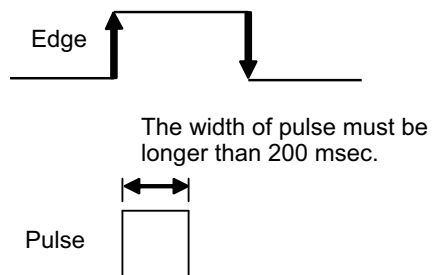
■ Input signal type

- 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.



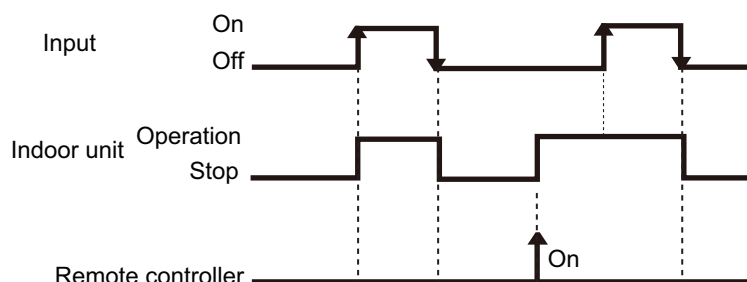
8-4. Details of function

■ Control input function

● When function setting is "Operation/Stop" mode 1

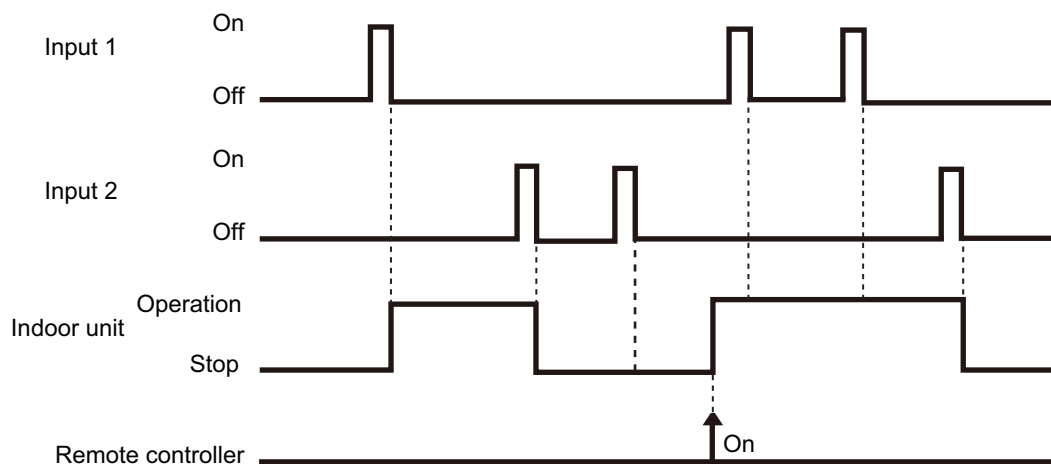
- In the case of "Edge" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-00	-	Input of indoor unit	Terminal	Off → On	Operation
				On → Off	Stop
	60-00 / 1	External input and output PCB	Input 1	Off → On	Operation
				On → Off	Stop



- In the case of "Pulse" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-00	60-00 / 1	External input and output PCB	Input 1	Pulse	Operation
			Input 2	Pulse	Stop



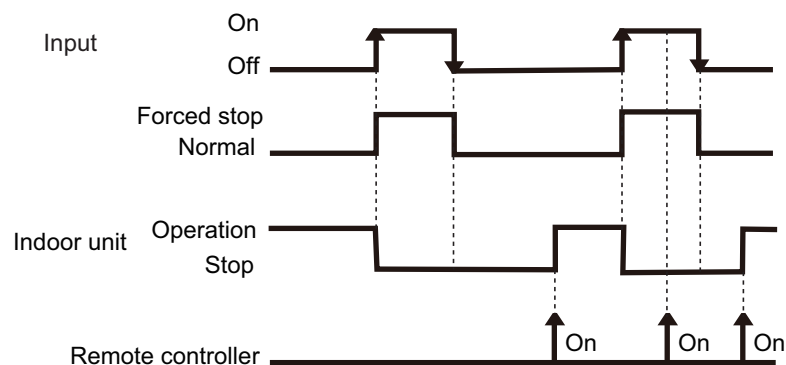
NOTES:

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

● When function setting is "Forced stop" mode

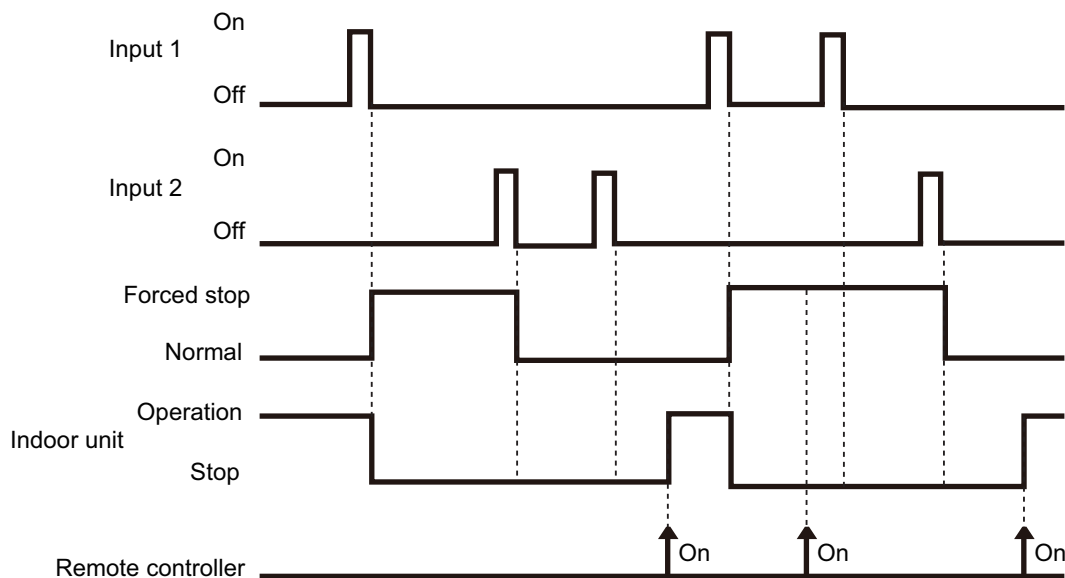
- In the case of "Edge" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-02	-	Input of indoor unit	Terminal	Off → On	Forced stop
				On → Off	Normal
	60-00 / 1	External input and output PCB	Input 1	Off → On	Forced stop
				On → Off	Normal



- In the case of "Pulse" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-02	60-00 / 1	External input and output PCB	Input 1	Pulse	Forced stop
			Input 2	Pulse	Normal



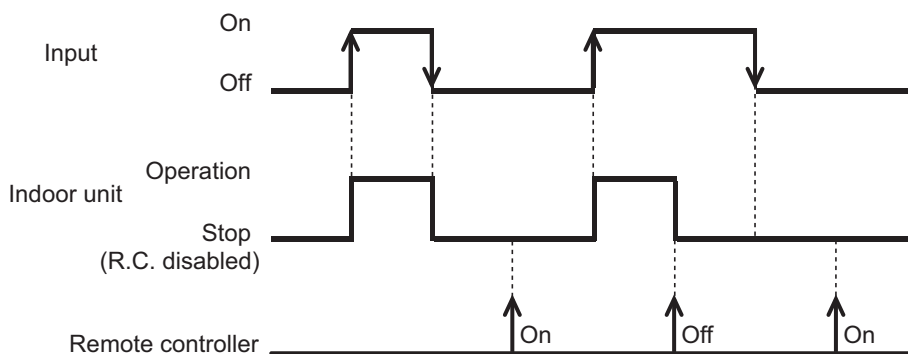
NOTES:

- 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.

● When function setting is "Operation/Stop" mode 2

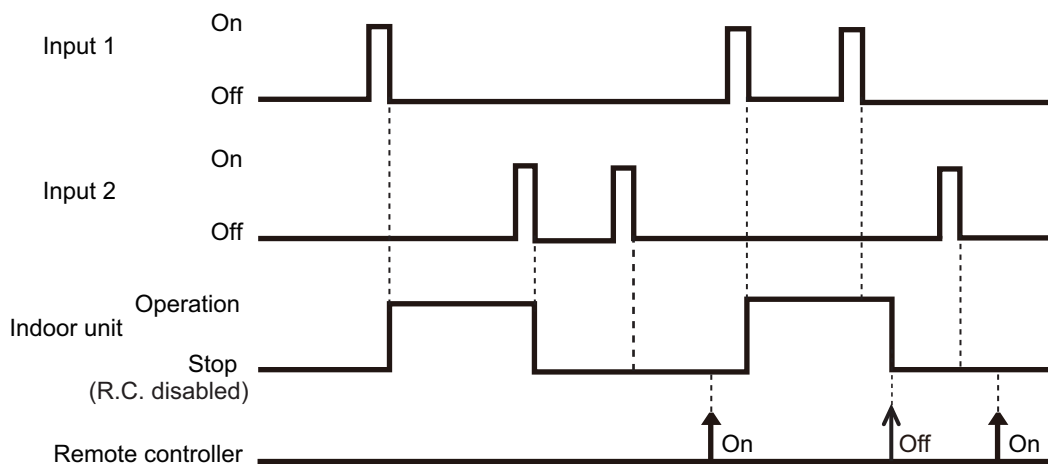
- In the case of "Edge" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-03	-	Input of indoor unit	Terminal	Off → On	Operation
				On → Off	Stop (R.C. disabled)
	60-00 / 1	External input and output PCB	Input 1	Off → On	Operation
				On → Off	Stop (R.C. disabled)



- In the case of "Pulse" input

Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
46-03	60-00 / 1	External input and output PCB	Input 1	Pulse	Operation
			Input 2	Pulse	Stop (R.C. disabled)

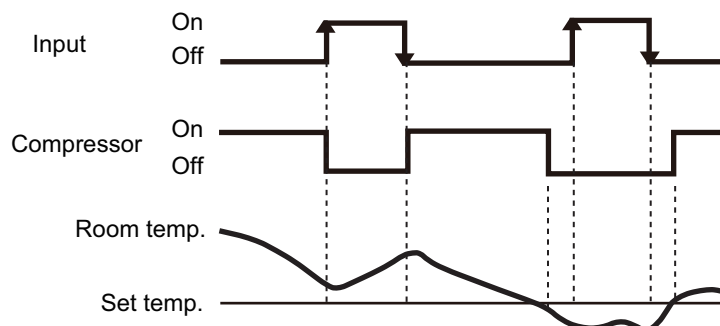


NOTES:

- 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 function

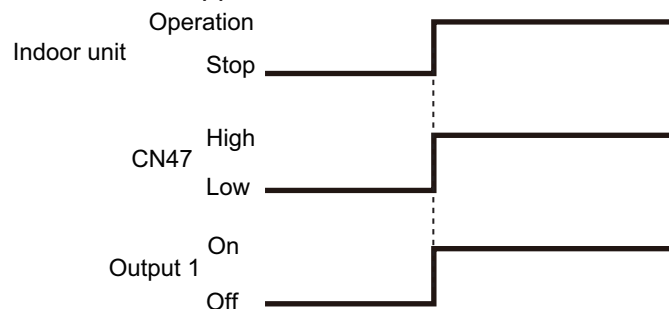
Function setting /	Rotary SW of External input and output PCB	External input		Input signal	Command
	60-00 / 2 60-09 / B 60-10 / C 60-11 / D	External input and output PCB	Input 1	Off → On	Thermostat off
				On → Off	Normal operation



■ Control output function

Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-00 / 1, 2		Output of indoor unit	CN47	Low → High	Operation
				High → Low	Stop
60-00 / 1 60-09 / B 60-10 / C 60-11 / D		External input and output PCB	Output 1	Off → On	Operation
				On → Off	Stop

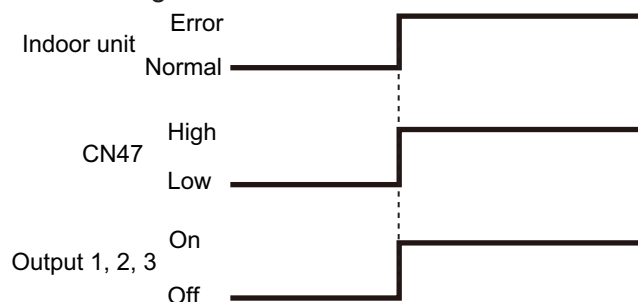
The output is low when the unit is stopped.



■ Error status

Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-09 / B	Output of indoor unit	CN47	Low → High	Error	
			High → Low	Normal	
60-00 / 2	External input and output PCB	Output 1	Off → On	Error	
			On → Off	Normal	
Output 2		Off → On	Error		
		On → Off	Normal		
60-00 / 1 60-10 / C		Output 3	Off → On	Error	
			On → Off	Normal	

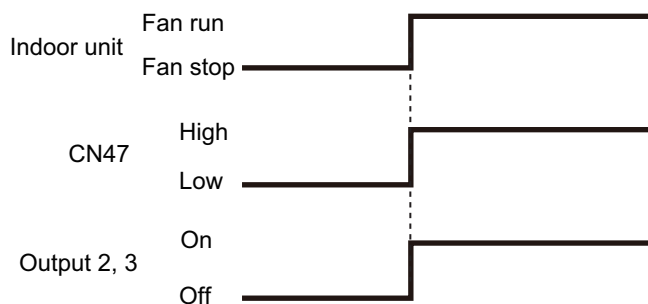
The output is ON when an error is generated for the indoor unit.



■ Indoor unit fan operation status

Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-10 / C	Output of indoor unit	CN47	Low → High	Fan run	
			High → Low	Fan stop	
60-00 / 2 60-09 / B 60-11 / D	External input and output PCB	Output 2	Off → On	Fan run	
			On → Off	Fan stop	
60-00 / 1		Output 3	Off → On	Fan run	
			On → Off	Fan stop	

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



External heater output

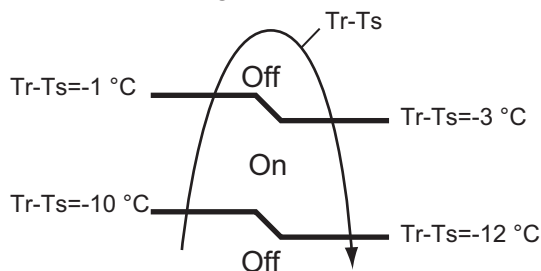
Function setting /	Rotary SW of External input and output PCB	External output		Output signal	Command
60-11 / D		Output of indoor unit	CN47	Low → High	Heater on
				High → Low	Heater off
60-00 / 2 60-09 / B 60-10 / C		External input and output PCB	Output 3	Off → On	Heater on
				On → Off	Heater off

Output signal	Condition
Low → High Off → On	Heater turns on as shown in diagram of heating temperature
High → Low On → Off	Heater turns off as shown in diagram of heating temperature <ul style="list-style-type: none"> • 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. 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.

9-1. Function settings on indoor unit

■ Models: ARXG36KHTAP, ARXG45KHTAP, and ARXG54KHTAP

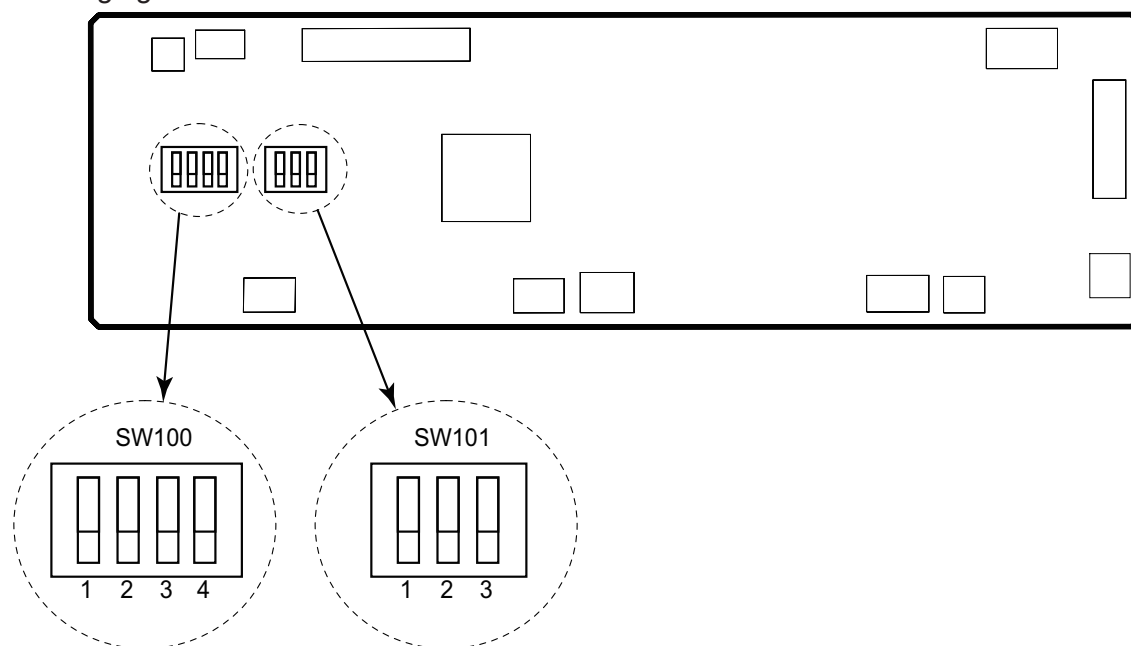
By using some components on the PCB, you can change the function settings.

Related components on the PCB and the applicable settings

Component		Setting content
DIP switch100	1	Remote controller address setting
	2	
	3	
	4	
DIP switch101	1	Setting change prohibited
	2	Setting change prohibited
	3	Fan delay setting

● Component location

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



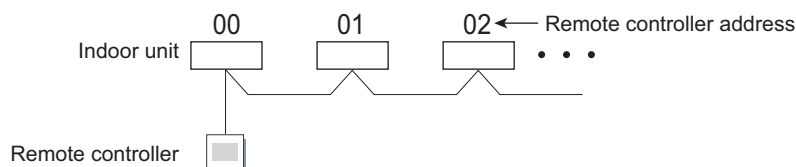
● DIP switch setting

- **Remote controller address setting (SW100)**

When operating a number of indoor units by using a wired remote controller, DIP switch setting for assigning unit number to each indoor unit is required.

DIP switches are normally set to make the unit number 00.

Remote controller address	DIP switch number				Factory setting
	1	2	3	4	
00	OFF	OFF	OFF	OFF	◆
01	ON	OFF	OFF	OFF	
02	OFF	ON	OFF	OFF	
03	ON	ON	OFF	OFF	
04	OFF	OFF	ON	OFF	
05	ON	OFF	ON	OFF	
06	OFF	ON	ON	OFF	
07	ON	ON	ON	OFF	
08	OFF	OFF	OFF	ON	
09	ON	OFF	OFF	ON	
10	OFF	ON	OFF	ON	
11	ON	ON	OFF	ON	
12	OFF	OFF	ON	ON	
13	ON	OFF	ON	ON	
14	OFF	ON	ON	ON	
15	ON	ON	ON	ON	



- **Switch 1: Setting change prohibited (SW101)**
- **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	◆

9-2. 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

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	
	16	160 Pa	
	17	170 Pa	
	18	180 Pa	
	19	190 Pa	
	20	200 Pa	
	31	Standard (47 Pa: 36 type; 60 Pa: 45, 54 type)	◆
	32	Automatic airflow adjustment	

NOTE: Range of static pressure is different by model.

If the static pressure is set above maximum range, the setting will be the same as the maximum.

Example:

For 45, 54 type models, setting "170 Pa" (17) to "200 Pa" (20) will be the same as "160 Pa" (16).

Type name	Setting of static pressure range
36 type	30 to 200 Pa
45 and 54 type	30 to 160 Pa

For details, refer to Chapter 5-1. "[Fan performance curve](#)" on page 10.

3) Room temperature control for indoor unit sensor

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

The temperature 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

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

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

00: Sensor on the indoor unit is active.

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

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

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

9) Room temperature sensor switching (Aux.)

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

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

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

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

10) Indoor unit fan control for energy saving for cooling

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

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

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

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

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

NOTES:


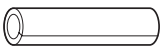
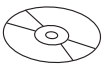
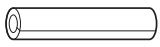







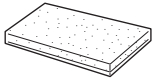

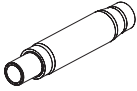
- As the factory setting, this setting is initially activated.
- Set to "00" or "01" when connecting a remote controller that cannot set the Fan control for energy saving function or connecting a network converter.
To confirm if the remote controller has this setting, refer to the operating manual of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

11) Switching functions for external output terminal

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

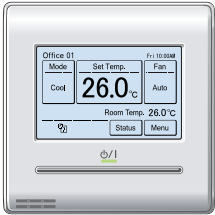
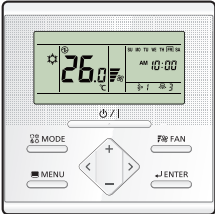
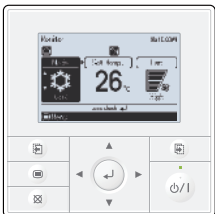
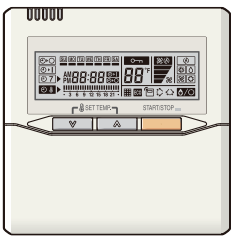
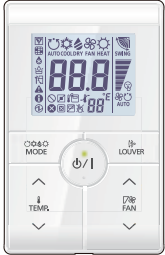


Function number	Setting value	Setting description	Factory setting
60	00	Operation status	◆
	01—08	(Setting prohibited)	
	09	Error status	
	10	Indoor unit fan operation status	
	11	External heater	


10. Accessories

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Coupler heat insulation (large)		1
Operating manual (CD-ROM)		1	Coupler heat insulation (small)		1
Installation manual		1	Cable tie (large)		4
M10 nut A (with flange)		4	Cable tie (medium)		1
M10 nut B (with spring lock washer)		4	Cable tie (small)		1
Washer		8	Drain hose insulation		1
Hose band		1	Drain hose		1

11. Optional parts


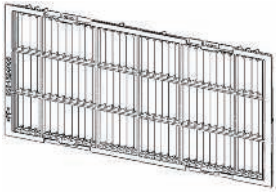
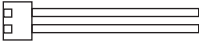
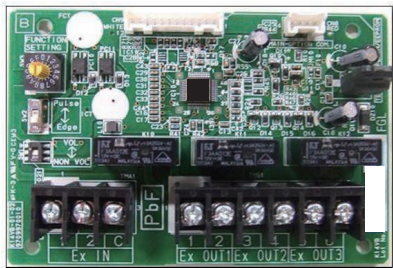
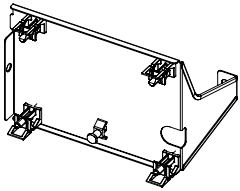

11-1. Controllers




Exterior	Part name	Model name	Summary
	Wired remote controller	UTY-RNRGZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire
	Wired remote controller	UTY-RLRG	High visibility and easy operation. Room temperature can be accurately controlled using the built-in thermo sensor. Wire type: Non-polar 2-wire
	Wired remote controller	UTY-RVNGM	Large and full-dot liquid crystal screen, wide and large keys easy to press, user-intuitive arrow key. Wire type: Polar 3-wire
	Wired remote controller	UTY-RNNGM	Room temperature can be controlled by detecting the temperature accurately with built-in thermo sensor. Wire type: Polar 3-wire
	Simple remote controller	UTY-RSRG	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Non-polar 2-wire
	Simple remote controller	UTY-RHRG	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting. Wire type: Non-polar 2-wire
	Simple remote controller	UTY-RSNGM	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Polar 3-wire

Exterior	Part name	Model name	Summary
	IR receiver kit with wireless remote controller	UTY-LBTGM	Unit control is performed by wireless remote controller.

NOTE: Available functions may differ by the remote controller. For details, refer to the operation manual.

11-2. Others

Exterior	Part name	Model name	Summary
	Remote sensor unit	UTY-XSZX	Thermo-sensor for sensing the temperature of arbitrary place in the room.
	Long-life filter	UTD-LFNA	Long-life 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.
	External input and output PCB	UTY-XCSX	Use to connect with external devices and air conditioner PCB.
	External input and output PCB bracket	UTZ-GXNA	For installing the External input and output PCB.
	Wireless LAN adapter	UTY-TFNXZ1	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets.

Exterior	Part name	Model name	Summary
	Modbus converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network.
	KNX converter	UTY-VK SX	For connection between indoor unit with UART interface and a KNX open network.
	External switch controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches.

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOHG36KRTA

AOHG45KRTA

AOHG54KRTA

1. Specifications

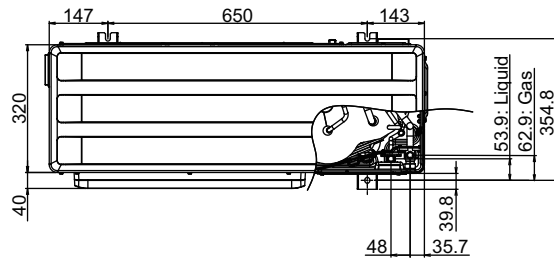
Type				Inverter heat pump
Model name				AOHG36KRTA
Power supply				3N 400 V ~ 50 Hz
Power supply intake				Outdoor unit
Available voltage range				342—457 V
Starting current			A	5.5
Fan	Airflow rate	Cooling	m³/h	3,750
		Heating		3,750
	Type × Q'ty			Propeller × 1
	Motor output			100
Sound pressure level *1		Cooling	dB (A)	55
		Heating		55
Sound power level		Cooling	dB (A)	70
		Heating		70
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 756 × 905 × 18.20 Main2: 756 × 905 × 18.20
		Fin pitch		Main1: 1.45 Main2: 1.45
		Rows × Stages		Main1: 1 × 36 Main2: 1 × 36
		Pipe type		Copper
		Fin	Type (Material)	Aluminum
			Surface treatment	Blue fin
Compressor	Type	DC twin rotary		
	Motor output		W	1,500
Refrigerant		Type (Global warming potential)		R32 (675)
		Factory charge	g	1,900
Refrigerant oil		Type		FW68D
		Amount	cm³	600
Enclosure		Material		Steel sheet
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0
Dimensions (H × W × D)	Net	mm	788 × 940 × 320	
	Gross		966 × 1,027 × 445	
Weight	Net	kg	53	
	Gross		62	
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (3/8)
		Gas		Ø 15.88 (5/8)
	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		LDPE
		Tip diameter	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (O. D.)
NOTES:				
<ul style="list-style-type: none">Specifications are based on the following conditions:<ul style="list-style-type: none">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: Sound pressure level<ul style="list-style-type: none">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.This data is based on EN 14511 standard.				

Type				Inverter heat pump				
Model name				AOHG45KRTA		AOHG54KRTA		
Power supply				3N 400 V ~ 50 Hz				
Power supply intake				Outdoor unit				
Available voltage range				342—457 V				
Starting current			A		6.6		8.0	
Fan	Airflow rate	Cooling	m³/h	4,450				
		Heating		4,450				
	Type × Q'ty		Propeller × 1					
	Motor output		W		120			
Sound pressure level *1		Cooling	dB (A)	57				
		Heating		57		59		
Sound power level		Cooling	dB (A)	71		73		
		Heating		71		73		
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 966 × 905 × 18.20 Main2: 966 × 905 × 18.20 Sub: 966 × 543 × 18.20				
		Fin pitch		Main1: 1.45 Main2: 1.45 Sub: 1.45				
		Rows × Stages		Main1: 1 × 46 Main2: 1 × 46 Sub: 1 × 46				
		Pipe type		Copper				
		Fin	Type (Material)	Aluminum				
			Surface treatment	Blue fin				
Compressor	Type × Q'ty		DC Twin rotary × 1					
	Motor output		W		2,180			
Refrigerant		Type (Global warming potential)		R32 (675)				
		Factory charge	g		2,700			
Refrigerant oil		Type		RmM68AF				
		Amount	cm³		800			
Enclosure		Material		Steel sheet				
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0				
Dimensions (H × W × D)	Net		mm	998 × 940 × 320				
	Gross			1,176 × 1,027 × 445				
Weight	Net		kg	67				
	Gross			77				
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (3/8)				
		Gas		Ø 15.88 (5/8)				
	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		LDPE				
		Tip diameter	mm		Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (O. D.)			
NOTES:								
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div><div>• Specifications are based on the following conditions:</div><div><div><div>– Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.</div><div><div>– Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.</div><div><div>– Pipe length: 5.0 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)</div></div></div></div><div><div><div>• Protective function might work when using it outside the operation range.</div><div><div>• *1: Sound pressure level</div><div><div>– Measured values in manufacturer's anechoic chamber.</div><div><div>– Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</div></div></div></div><div><div><div>• This data is based on EN 14511 standard.</div></div></div></div></div></div></div></div></div></div>								

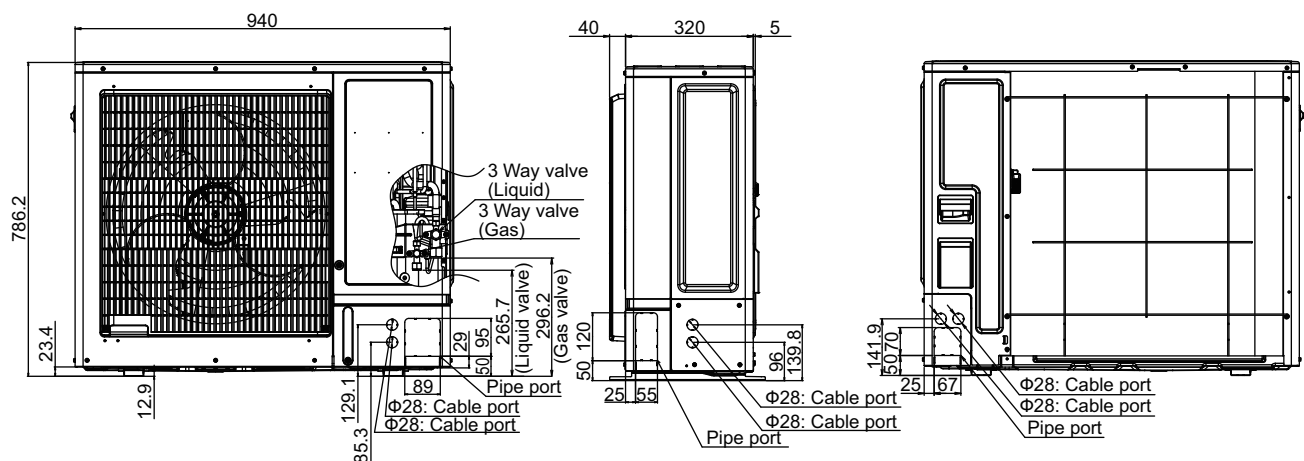
2. Dimensions

2-1. Models: AOHG36KRTA

Unit: mm



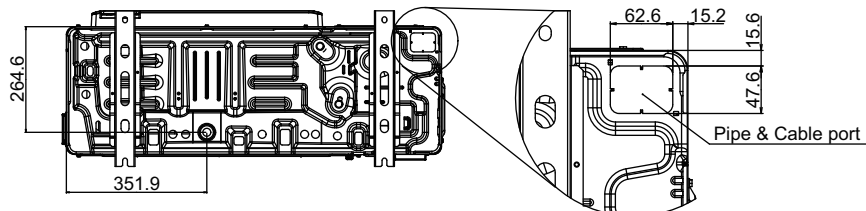
Top view



Front view

Side view

Rear view



Bottom view

OUTDOOR UNIT
AOHG36-54KRTA

**OUTDOOR UNIT
AOHG36-54KRTA**



**OUTDOOR UNIT
AOHG36-54KRTA**



**OUTDOOR UNIT
AOHG36-54KRTA**



**OUTDOOR UNIT
AOHG36-54KRTA**



**OUTDOOR UNIT
AOHG36-54KRTA**



**OUTDOOR UNIT
AOHG36-54KRTA**

**OUTDOOR UNIT
AOHG36-54KRTA**

3. Installation space

3-1. Models: AOHG36KRTA, AOHG45KRTA, and AOHG54KRTA

■ Space requirement

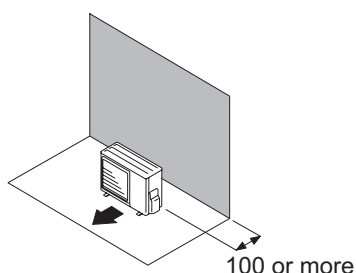
Provide sufficient installation space for product safety.

● Single outdoor unit installation

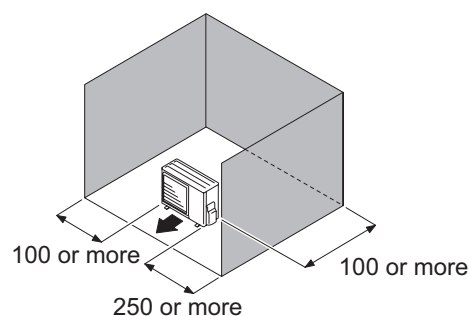
- When the upper space is open:

Unit: mm

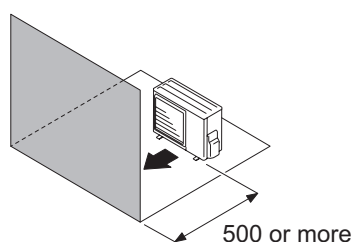
When there are obstacles at the rear only.



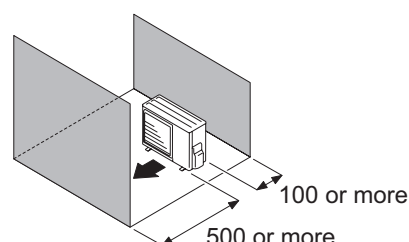
When there are obstacles at the rear and sides.



When there are obstacles at the front only.



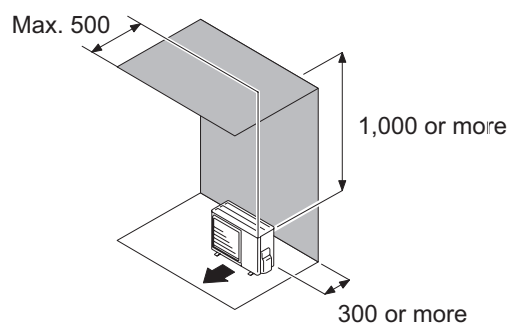
When there are obstacles at the front and rear.



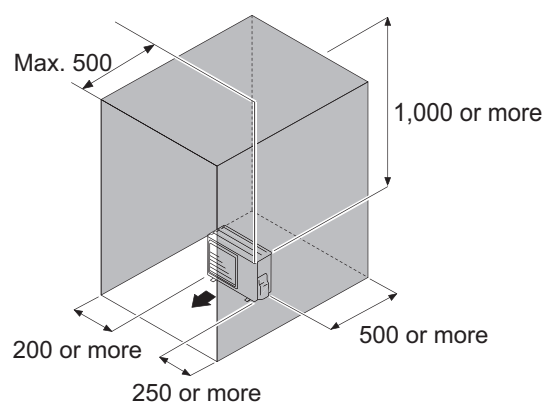
- When there is an obstruction in the upper space:

Unit: mm

When there are obstacles at the rear and above.



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

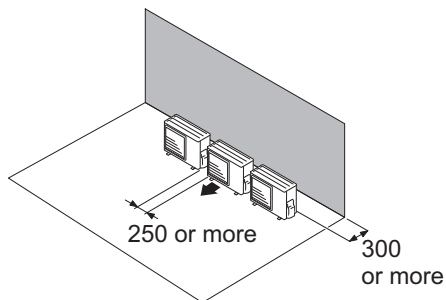


● Multiple outdoor unit installation

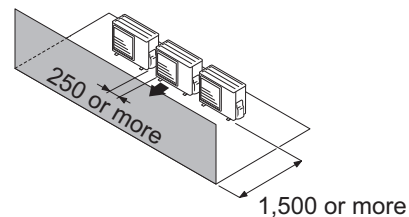
- When the upper space is open:

Unit: mm

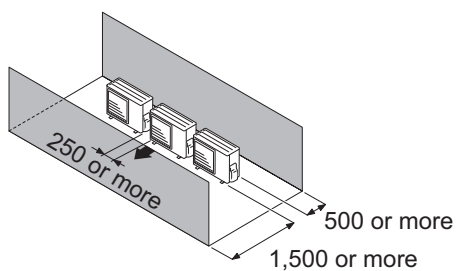
When there are obstacles at the rear only.



When there are obstacles at the front only.



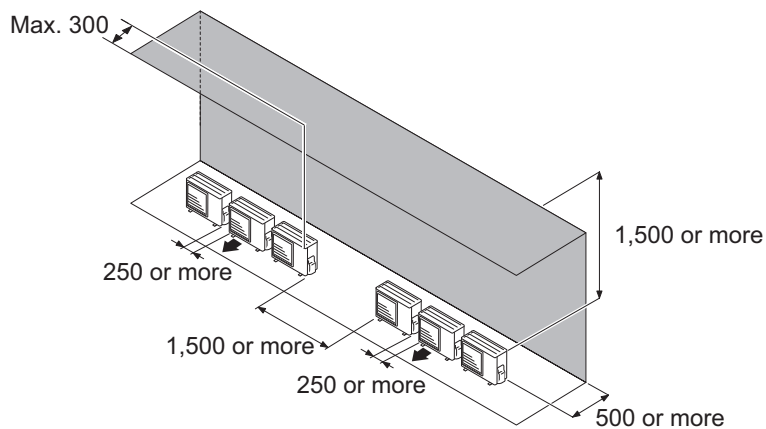
When there are obstacles at the front and rear.



- When there is an obstruction in the upper space:

Unit: mm

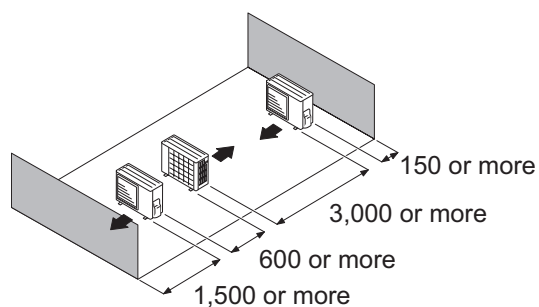
When there are obstacles at the rear and above.



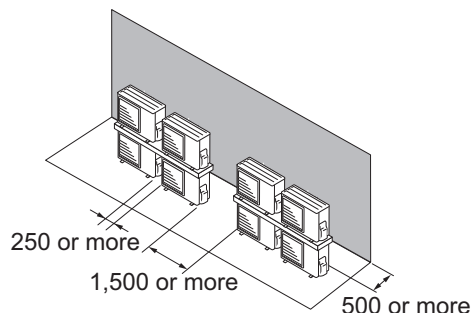
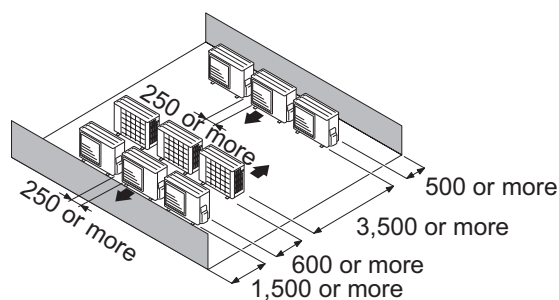
● Outdoor unit installation in multi-row

Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement

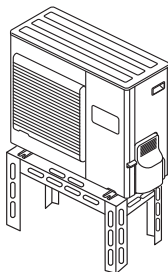


NOTES:

- 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.

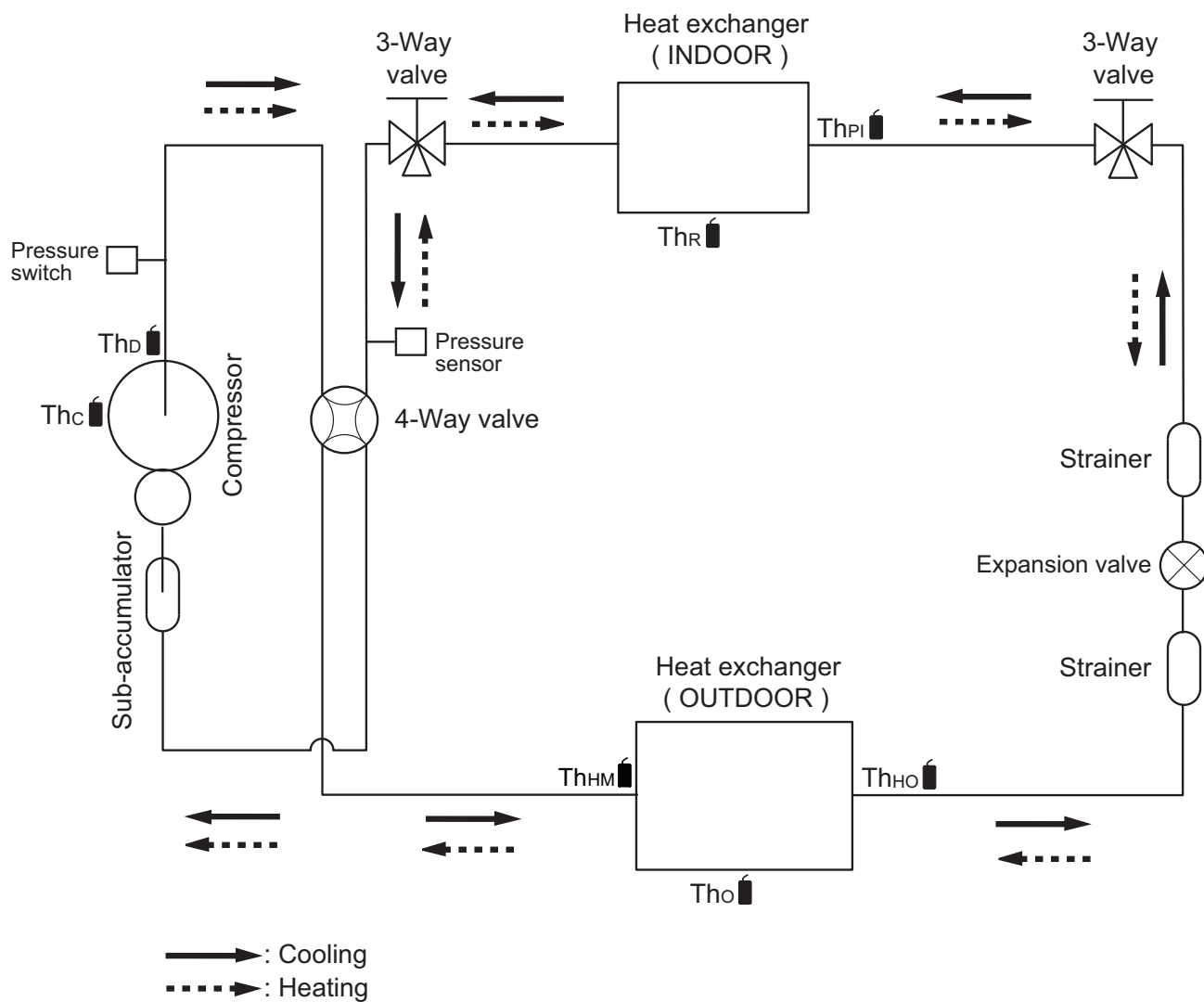
⚠ CAUTION

- 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. Models: AOHG36KRTA, AOHG45KRTA, and AOHG54KRTA



Th_c : Thermistor (Compressor temperature)

Th_D : Thermistor (Discharge temperature)

Th_{HM} : Thermistor (Heat Exchanger Med temperature)

Th_O : Thermistor (Outdoor temperature)

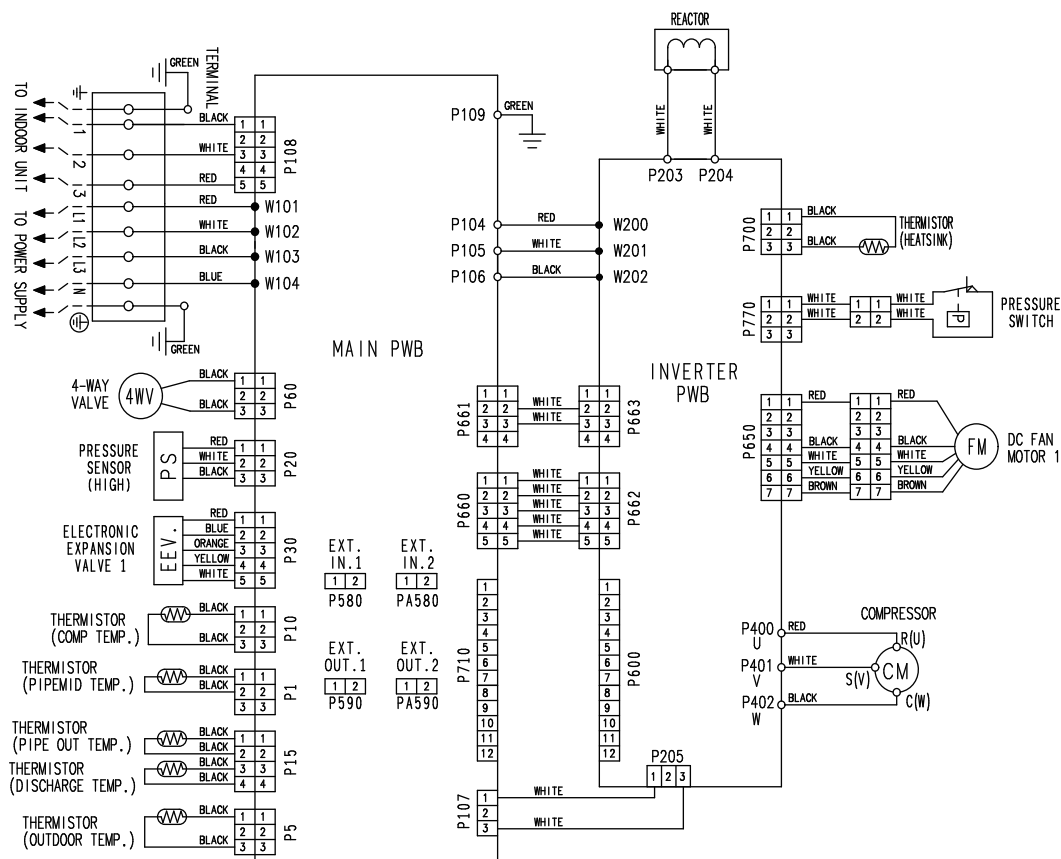
Th_{HO} : Thermistor (Heat Exchanger Out temperature)

Th_R : Thermistor (Room temperature)

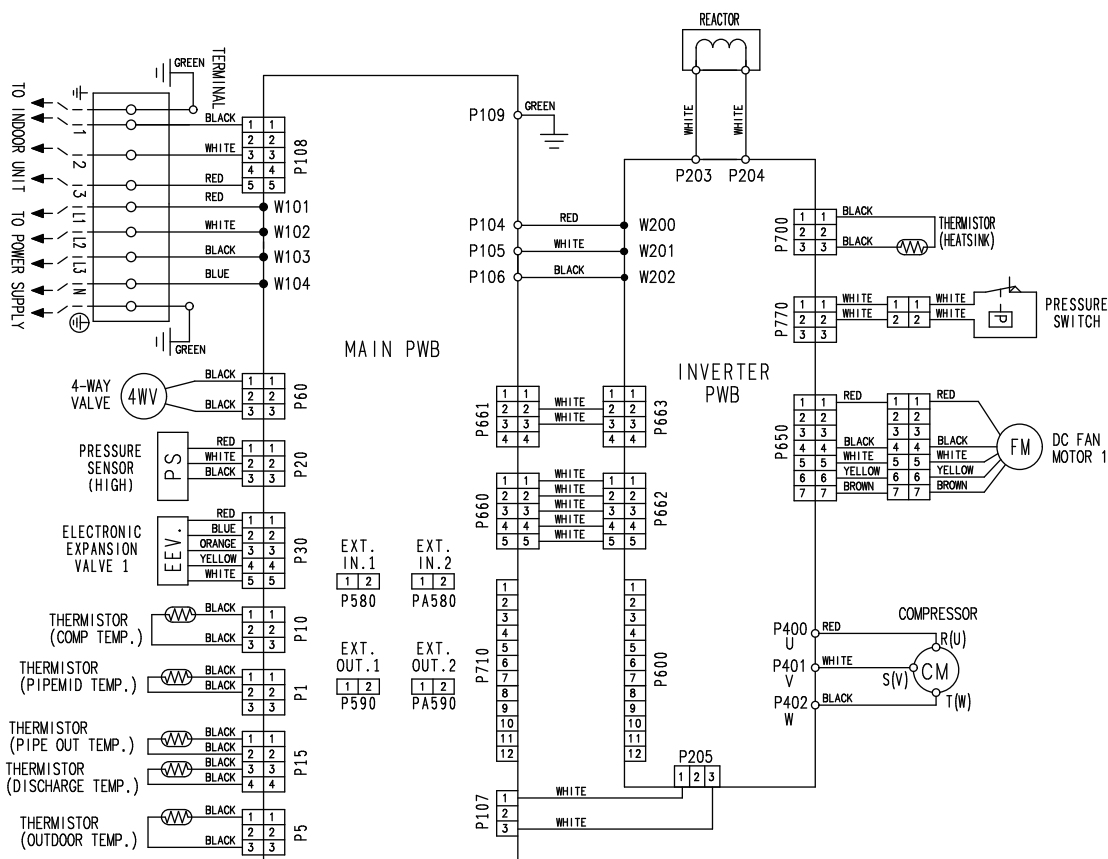
Th_{PI} : Thermistor (Pipe temperature)

5. Wiring diagrams

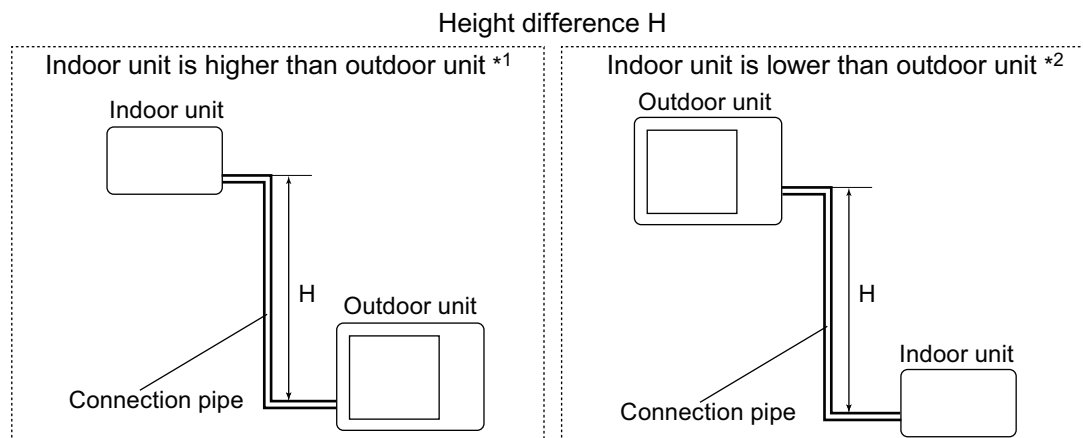
5-1. Model: AOHG36KRTA



5-2. Models: AOHG45KRTA and AOHG54KRTA



6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOHG36KRTA

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
	Indoor unit is lower than outdoor unit *2	0	1.000	1.000	0.989	0.968	0.947	0.926	0.905
		-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

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

6-2. Models: AOHG45KRTA and AOHG54KRTA

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
			0	1.000	1.000	0.989	0.967	0.945	0.923
	Indoor unit is lower than outdoor unit *2	-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
			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

7. Additional charge calculation

7-1. Model: AOHG36KRTA

Refrigerant type		R32
Refrigerant 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. Models: AOHG45KRTA and AOHG54KRTA

Refrigerant type		R32
Refrigerant 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. Models: AOHG36KRTA

● 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. Models: AOHG45KRTA and AOHG54KRTA

● Cooling

m ³ /h	4,450
l/s	1,236
CFM	2,619

● Heating

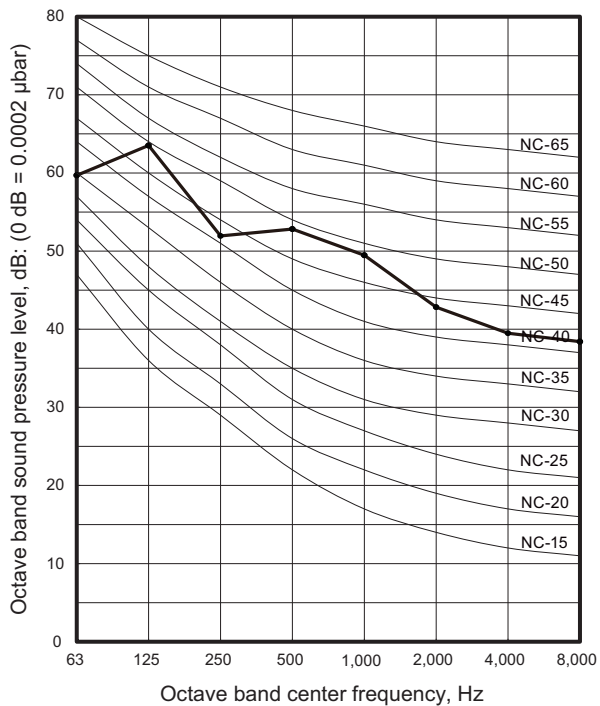
m ³ /h	4,450
l/s	1,236
CFM	2,619

9. Operation noise (sound pressure)

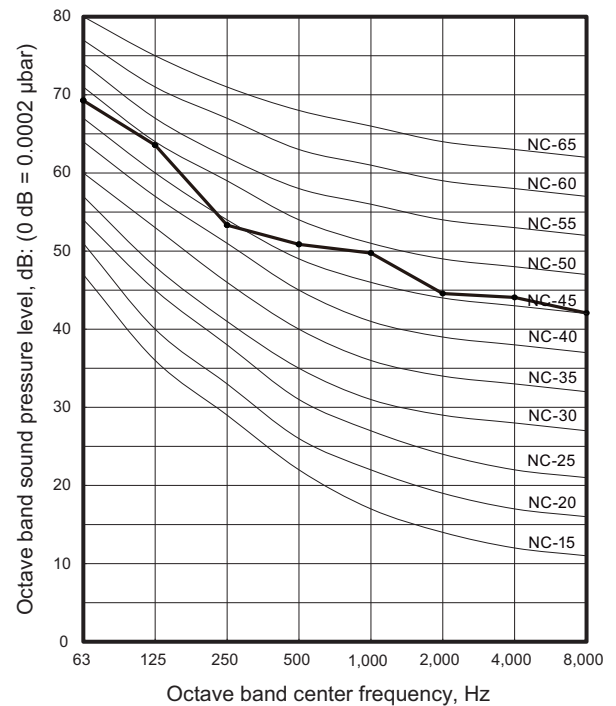
9-1. Noise level curve

Model: AOHG36KRTA

● Cooling

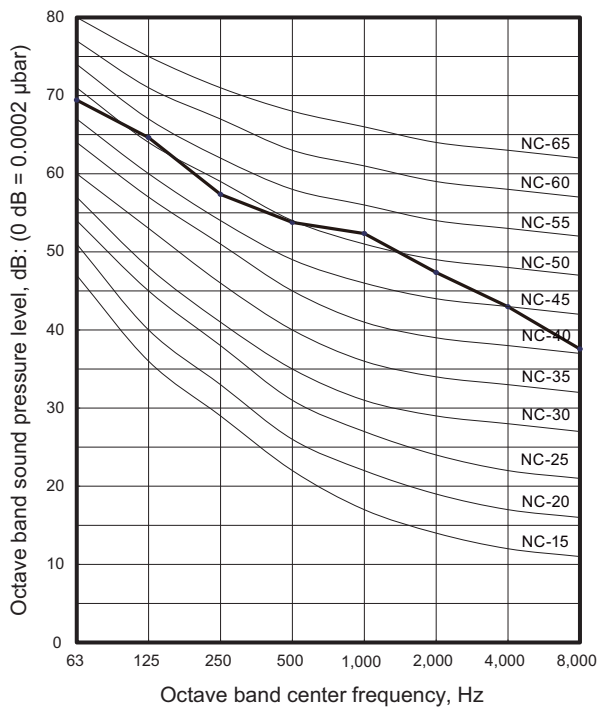


● Heating

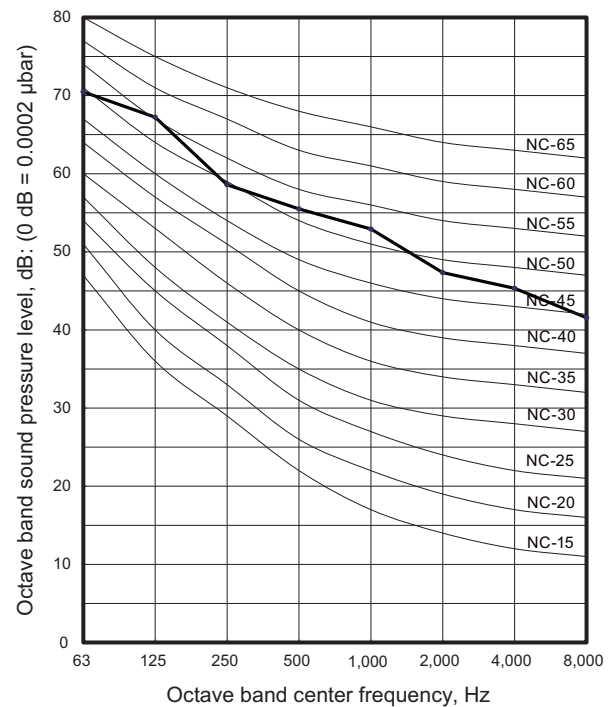


Model: AOHG45KRTA

● Cooling

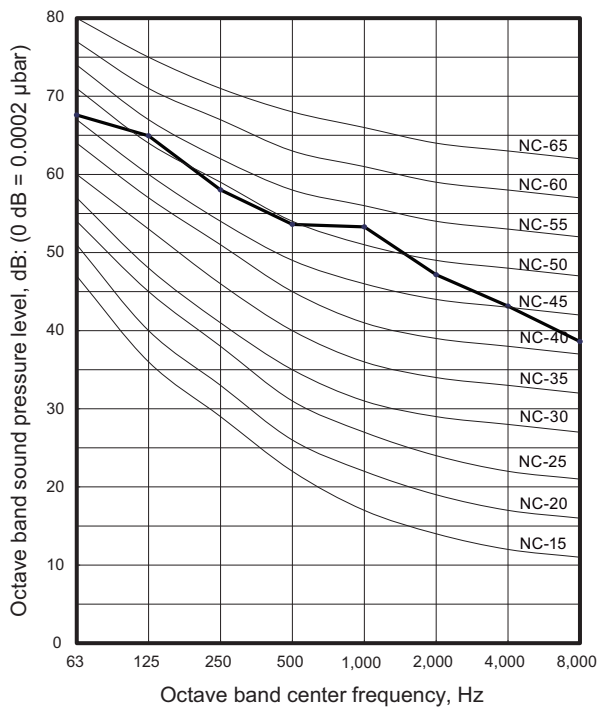


● Heating

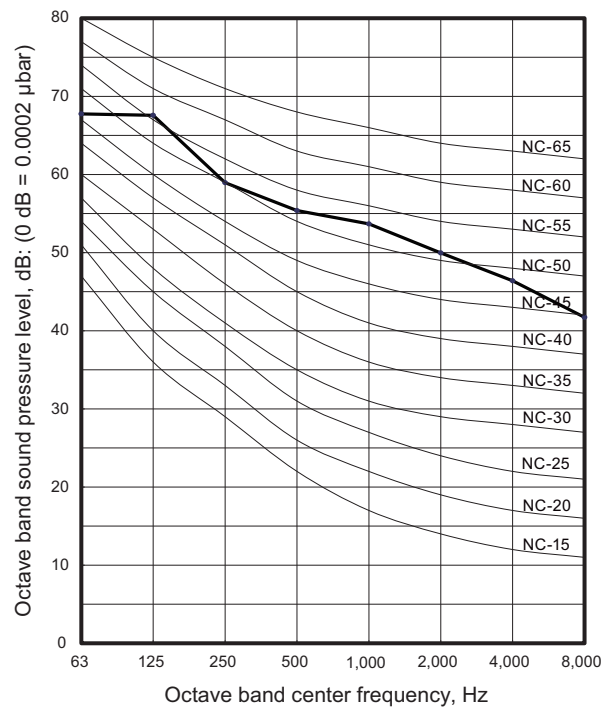


Model: AOHG54KRTA

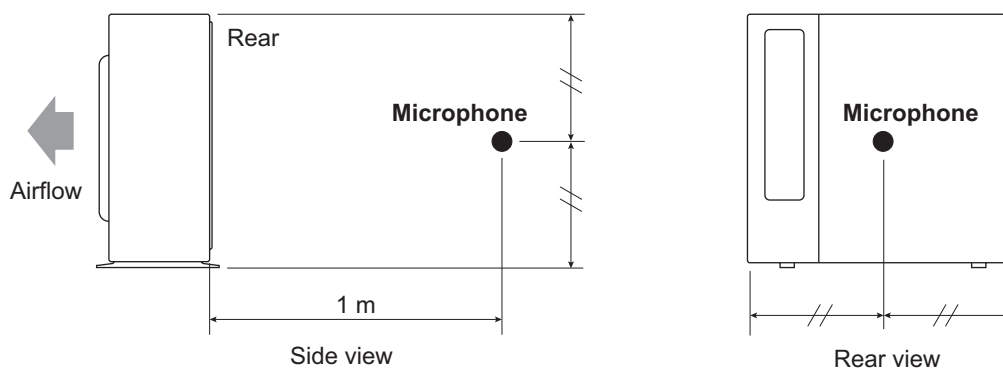
● Cooling



● 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			AOHG36KRTA	
Power supply	Voltage	V	3N 400 ~	
	Frequency	Hz	50	
Max operating current *1		A	10.5	
Starting current		A	5.5	
Wiring spec. *2	Circuit breaker current		A	16
	Power cable		mm ²	2.5
	Connection cable *3	Cross-sectional area	mm ²	1.5
		Limited wiring length	m	51

Model name				AOHG45KRTA		AOHG54KRTA	
Power supply	Voltage		V	3N 400 ~			
	Frequency		Hz	50			
Max operating current *1			A	14.0			
Starting current			A	6.6		8.0	
Wiring spec. *2	Circuit breaker current		A	16			
	Power cable		mm ²	2.5			
	Connection cable *3	Cross-sectional area	mm ²	1.5			
		Limited wiring length	m	51			

*1: Maximum 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%. Increase conductor size if voltage drop is 2% or more.

11. Safety devices

Type of protection	Protection form		Model
			AOHG36KRTA
Circuit protection	Current fuse (Main PCB)		250 V, 30 A × 2 250 V, 10 A × 2
Fan motor protection	Thermal protection program	Activate	122 ±9 °C Fan motor stop
		Reset	116 ⁺¹⁰ -9 °C Fan motor restart
Compressor protection	Thermal protection program (Discharge temp.)	Activate	110 °C Compressor stop
		Reset	After 7 minutes Compressor restart
	Thermal protection program (Compressor temp.)	Activate	108 °C Compressor stop
		Reset	80 °C or less Compressor restart
	Thermal protection program (Outdoor temp.)	Activate	-20 °C Compressor stop
		Reset	-15 °C Compressor restart

Type of protection	Protection form		Model
			AOHG45KRTA AOHG54KRTA
Circuit protection	Current fuse (Main PCB)		250 V, 30 A × 2 250 V, 10 A × 2
Fan motor protection	Thermal protection program	Activate	150 ±15 °C Fan motor stop
		Reset	120 ±15 °C Fan motor restart
Compressor protection	Thermal protection program (Discharge temp.)	Activate	110 °C Compressor stop
		Reset	After 7 minutes Compressor restart
	Thermal protection program (Compressor temp.)	Activate	108 °C Compressor stop
		Reset	80 °C or less Compressor restart
	Thermal protection program (Outdoor temp.)	Activate	-20 °C Compressor stop
		Reset	-15 °C Compressor restart

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.

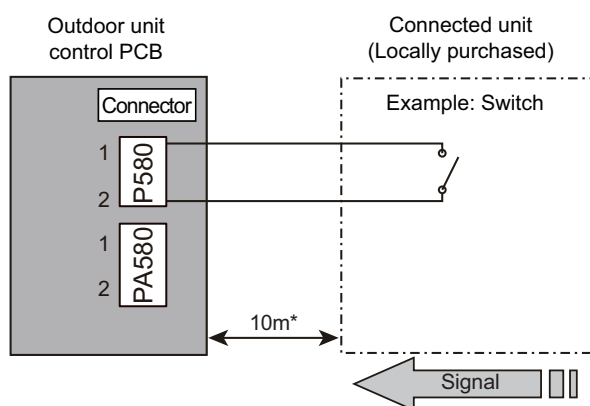
■ Low noise mode

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

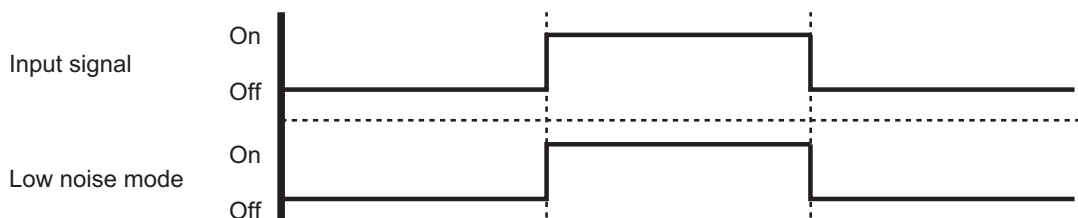
The air conditioner is set to the “Low noise mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

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 67.



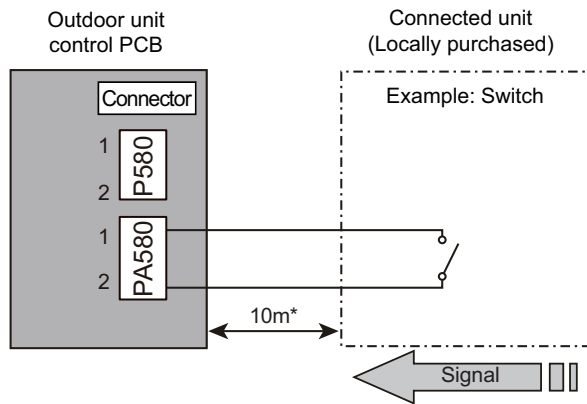
• Optional part

Part name	Model name	Exterior
External connect kit	UTY-XWZXZ3	External input wire

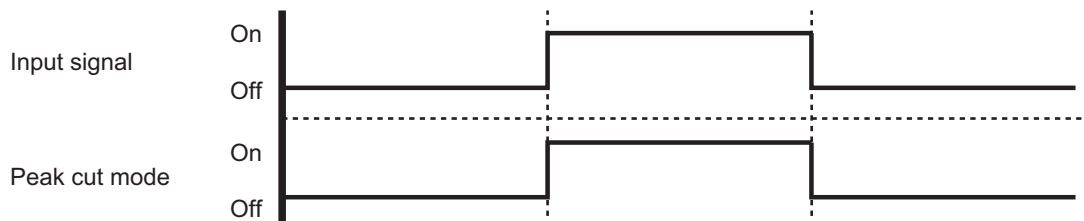
■ Peak cut mode

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 68.



• Optional part

Part name	Model name	Exterior
External connect kit	UTY-XWZXZ3	External input wire 

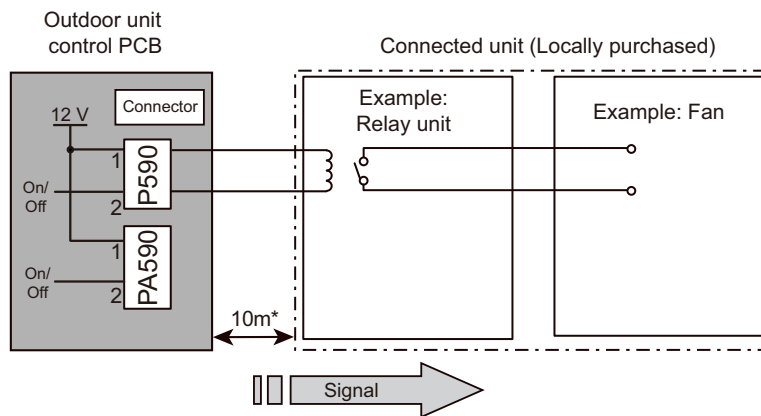
12-2. External output

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.

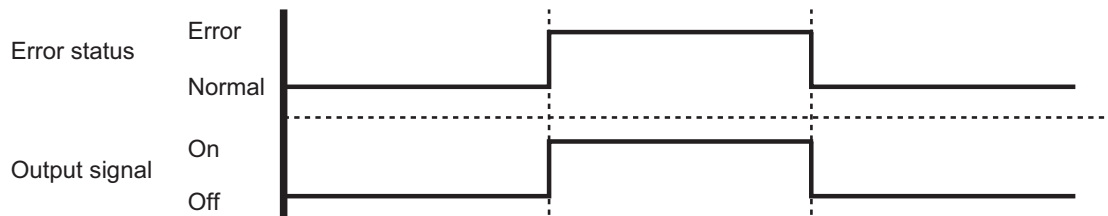
■ Error status output

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.



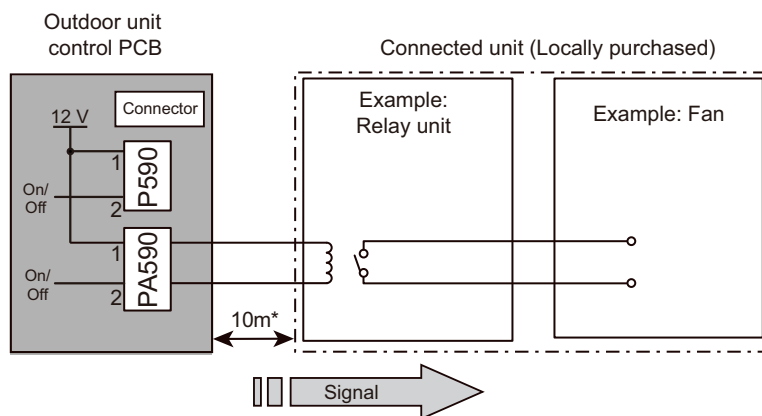
• Optional part

Part name	Model name	Exterior
External connect kit	UTY-XWZXZ3	External output wire

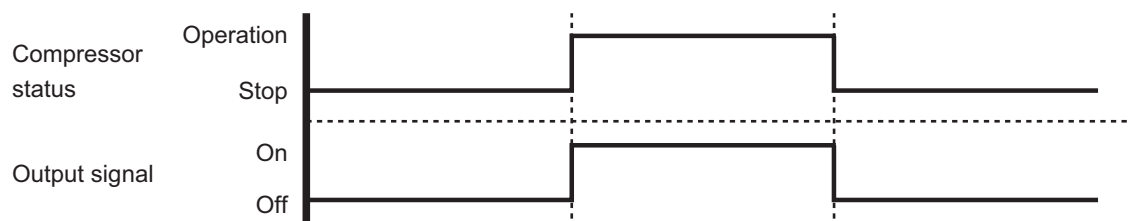
Compressor status output

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

• Circuit diagram example

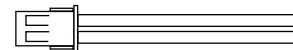


- Output voltage (Vcc): DC 12 V 50 mA or less
- *: Make the distance from the PCB to the connected unit within 10 m.



• 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.

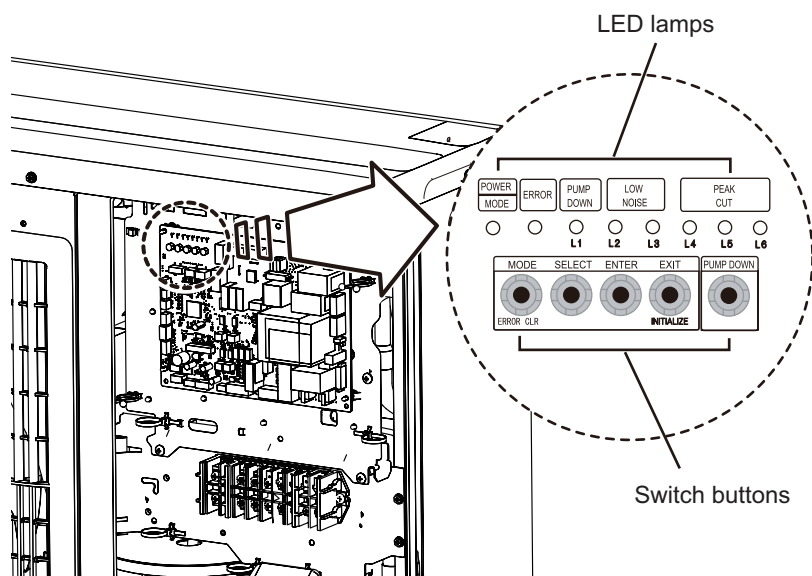
NOTE: Incorrect settings can cause a product malfunction.

⚠ CAUTION

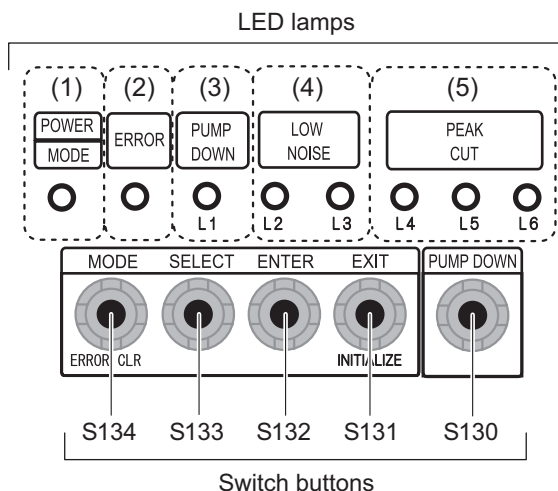
- Before setting up the switch buttons, discharge the static electricity from your body.
- Never touch the terminals or the patterns on the parts that are mounted on the PCB.

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. Local setting in outdoor unit or error code is displayed with blink.
(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. (Lighting pattern of L2 and L3 indicates low noise level.)
(5)	PEAK CUT MODE (L4, L5, and L6)	Orange	Lights on during "Peak cut mode" when local setting is activated. (Lighting pattern of L4, L5, and L6 indicates 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.

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

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

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

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.

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

■ 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).

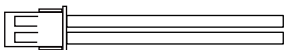
NOTE: When pressed number is lost during setting, you must redo the setting procedure. Return to "Operation status display (Normal operation)" by pressing the EXIT switch button once, and restart from the beginning of the setting procedure.

14. Accessories

14-1. Models: AOHG36KRTA, AOHG45KRTA, and AOHG54KRTA

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
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.