FUJITSU

REFRIGERANT R32
INVERTER

AIR CONDITIONER

Duct type

DESIGN & TECHNICAL MANUAL

INDOOR			
	ARXG24KMLA ARXG30KMLA ARXG36KMLA ARXG45KMLA		
OUTDOOR			
	AOYG24KATA	AOYG30KATA AOYG36KATA	AOYG45KATA

FUJITSU GENERAL LIMITED

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Part 1. INDOOR UNIT

DUCT TYPE:

ARXG24KMLA
ARXG30KMLA
ARXG36KMLA
ARXG45KMLA

DUCT TYPE
ARXG24-45KMLA

1. Specifications

Type					Inverter heat pump			
Model name					ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA
Power supply					230 V ~ 50 Hz			
Power supply intake					Outdoor unit			
Available voltage range					198—264 V			
Capacity	Cooling	Rated		kW	6.8	8.5	9.5	12.1
				Btu/h	23,200	29,000	32,400	41,300
		Min.—Max.		kW	0.9—7.4	2.8—9.6	2.8—10.6	4.0—12.6
				Btu/h	3,100—25,200	9,600—32,700	9,600—36,100	13,600—43,000
	Heating	Rated		kW	7.5	10.0	10.8	13.5
				Btu/h	25,600	34,100	36,900	46,100
		Min.—Max.		kW	0.9—8.6	2.7—10.8	2.7—12.5	4.2—15.0
				Btu/h	3,100—29,300	9,200—36,800	9,200—42,600	14,300—51,200
Input power	Cooling	Rated		kW	2.19	2.78	3.13	4.84
		Max.			2.69	3.83	4.29	5.03
	Heating	Rated			2.00	2.77	3.03	4.18
		Max.			2.65	4.37	4.66	4.79
Current	Cooling	Rated		A	9.7	12.3	13.8	21.3
	Heating				8.8	12.3	13.4	18.3
Power factor	Cooling			%	98.5	98.1	98.3	99.0
	Heating				98.7	97.7	98.2	99.1
EER		Cooling		kW/kW	3.11	3.06	3.04	2.50
COP		Heating			3.75	3.61	3.56	3.23
Moisture removal				L/h (pints/h)	2.5 (4.4)		3.0 (5.3)	4.0 (7.0)
Maximum operating current *1		Cooling		A	12.6	22.5		28.1
		Heating			12.6	22.5		28.1
Fan	Airflow rate	Cooling	HIGH	m^3/h	1,100	1,900		2,100
			MED		910	1,620		1,750
			LOW		750	1,270		1,350
			QUIET		580	980		1,070
		Heating	HIGH		1,100	2,100		
			MED		910	1,620		1,750
			LOW		750	1,270		1,350
			QUIET		580	980		1,070
	Type × Qty				Sirocco × 2			
	Motor output			W	106	197		
Static pressure range				Pa	30 to 150			
Sound pressure level *2		Cooling	HIGH	dB (A)	31	39		42
			MED		29	35		38
			LOW		27	30		32
			QUIET		25	26		28
		Heating	HIGH		31	42		
			MED		29	35		38
			LOW		27	30		32
			QUIET		25	26		28
Sound power level		Cooling	HIGH	dB (A)	60	65		68
		Heating			62	69	70	
Heat exchanger type		Dimensions (H × W × D)		mm	294 × 1,000 × 39.9			294 × 1,000 × 53.2
		Fin pitch			1.40			
		Rows × Stages			3 × 14			4 × 14
		Pipe type			Copper			
		Fin type			Aluminum			
Enclosure		Material			Steel sheet			
		Color			—			
Dimensions (H × W × D)	Net			mm	270 × 1,135 × 700			
	Gross				300 × 1,320 × 790			
Weight	Net			kg	35	38		39
	Gross				43	45		47
Connection pipe	Size	Liquid		mm (in)	Ø 6.35 (Ø 1/4)	Ø 9.52 (Ø 3/8)		
		Gas			Ø 12.70 (Ø 1/2)	Ø 15.88 (Ø 5/8)		
	Method				Flare			
Drain port	Material				Steel			
	Size			mm	Ø 35.7 (I.D.), Ø 38.1 (O.D.)			
Operation range		Cooling		°C	18 to 32			
				%RH	80 or less			
		Heating		°C	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.
  - Standard static pressure; 24 type: 35 Pa, 30 and 36 types: 47 Pa, 45 type: 60 Pa
  - Pipe length: 5.0 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *3: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.
- This data is based on EN 14511 standard.

DUCT TYPE
ARXG24-45KMLA

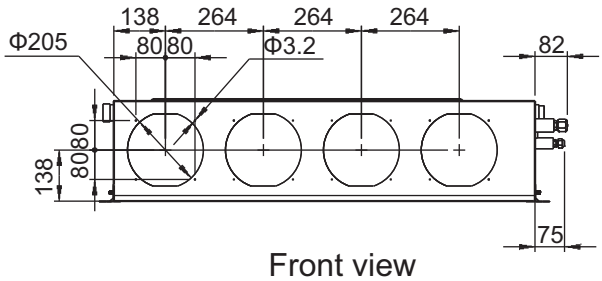
Specifications for ErP Lot10					
Model name			**ARXG24KMLA**	**ARXG30KMLA**	**ARXG36KMLA**
Energy efficiency class	Cooling		A^+		
	Heating (Average)		A		
Pdesign	Cooling	kW	6.8 (35°C)	8.5 (35°C)	9.5 (35°C)
	Heating (Average)		5.4 (-10°C)	8.0 (-10°C)	8.7 (-10°C)
SEER	Cooling	kWh/kWh	5.90	5.80	5.60
SCOP	Heating (Average)		3.90		
Annual energy consumption	QCE	kWh/a	403	513	594
	QHE (Average)		1,935	2,871	3,122

DUCT TYPE
ARXG24-45KMLA

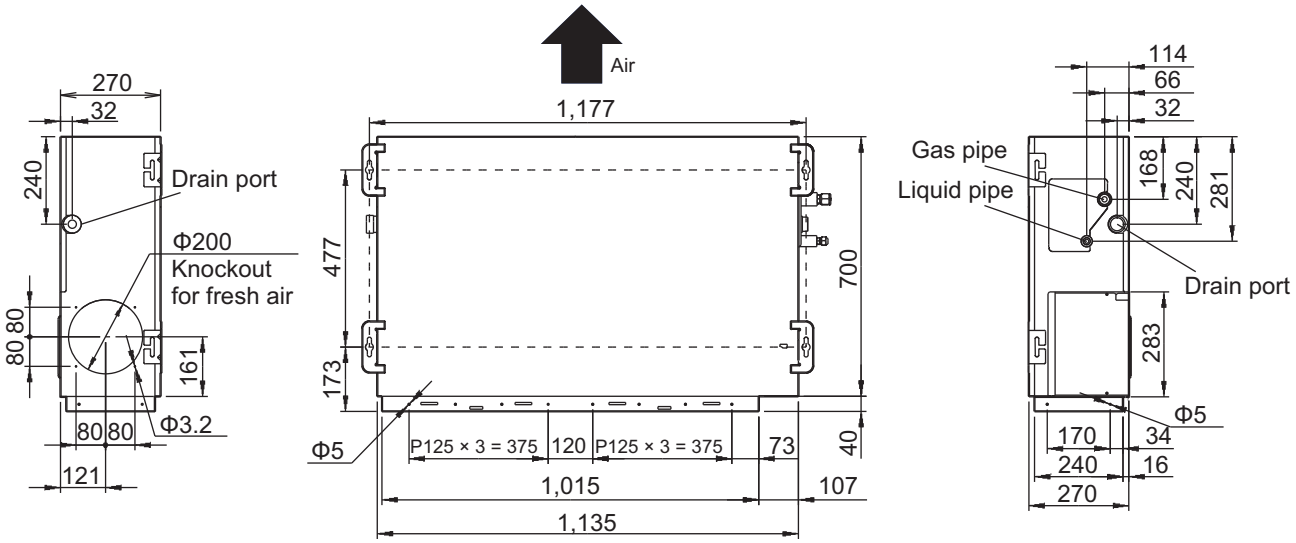
2. Dimensions

2-1. Models: ARXG24KMLA, ARXG30KMLA, ARXG36KMLA, and ARXG45KMLA

Unit: mm



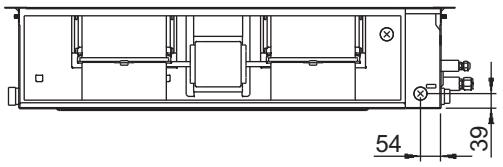
Front view



Side view (L)

Top view

Side view (R)



Rear view

DUCT TYPE
ARXG24-45KMLA

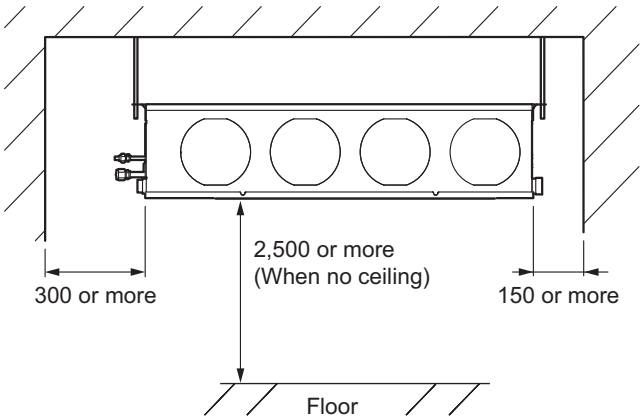
2-2. Installation space requirement

Provide sufficient installation space for product safety.

NOTE: The detailed component shape depends on the model.

■ Models: ARXG24KMLA, ARXG30KMLA, ARXG36KMLA, and ARXG45KMLA

Unit: mm



DUCT TYPE
ARXG24-45KMLA

2-3. Maintenance space requirement

Provide sufficient maintenance space for efficient maintenance.

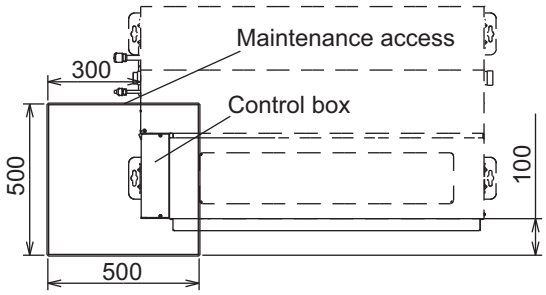
NOTES:

- Do not place any wiring or illumination in the maintenance space, as they will impede service.
- The detailed component shape depends on the model.

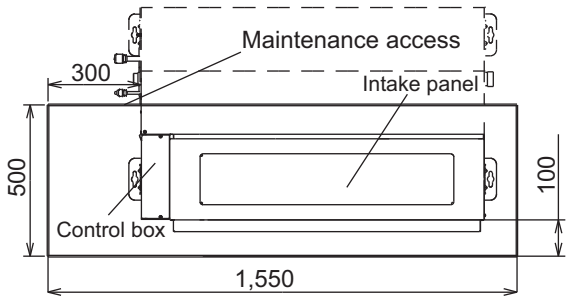
■ Models: ARXG24KMLA, ARXG30KMLA, ARXG36KMLA, and ARXG45KMLA

Unit: mm

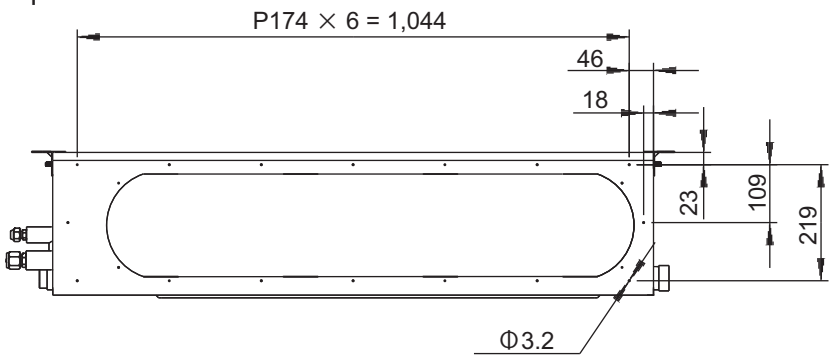
- Provide a maintenance access for maintenance purposes.



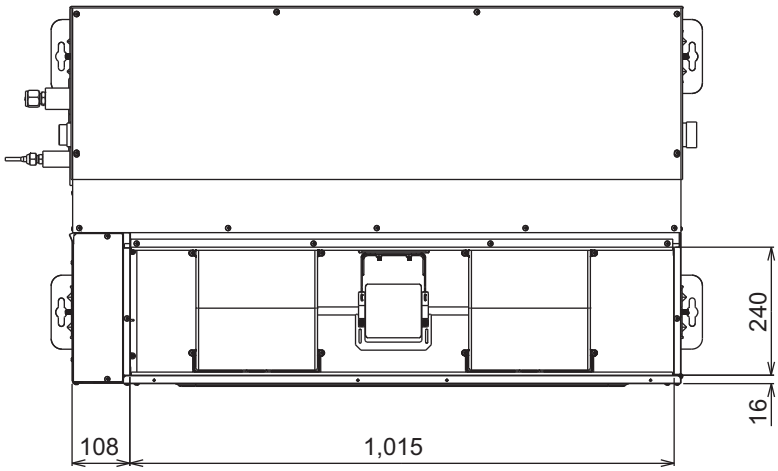
- The maintenance access necessary for fan units and filter maintenance.



- When using a square duct



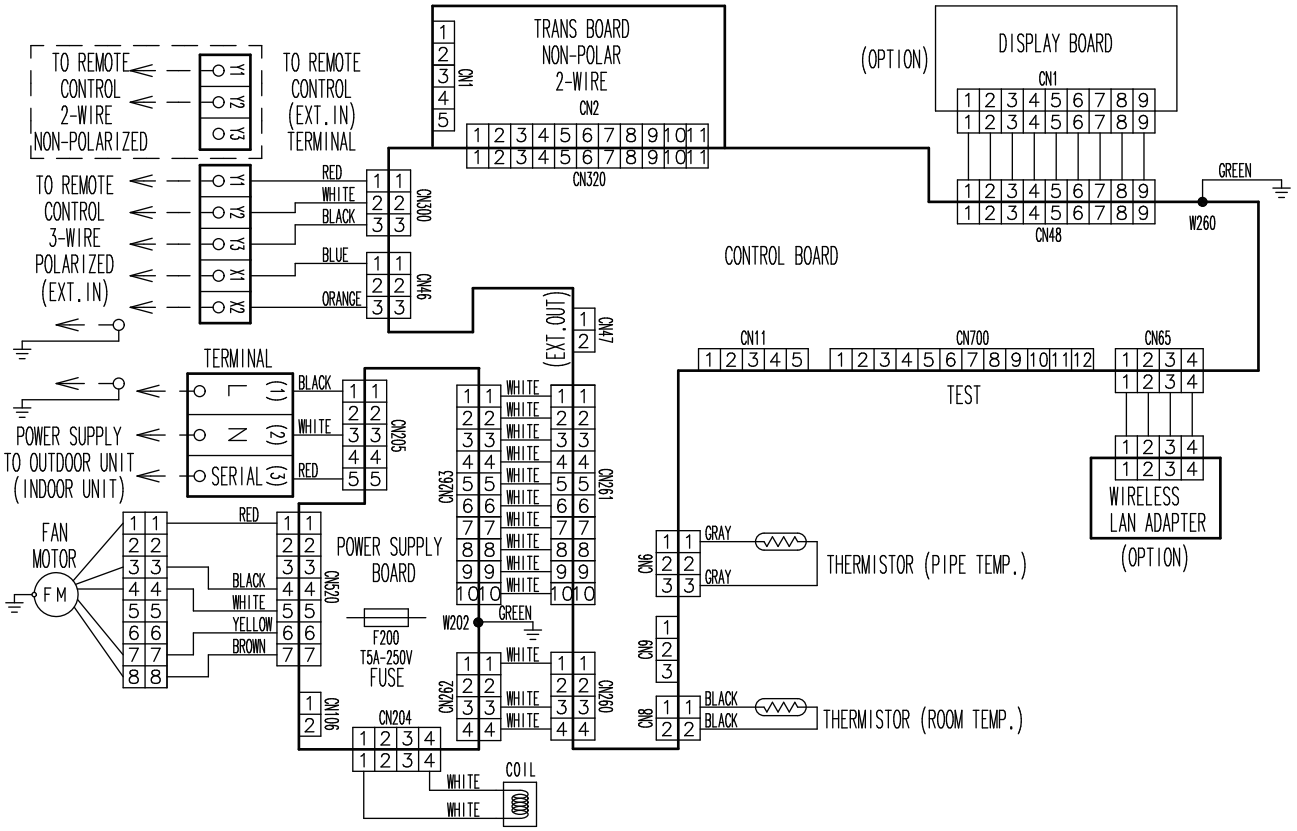
- Bottom air intake hole



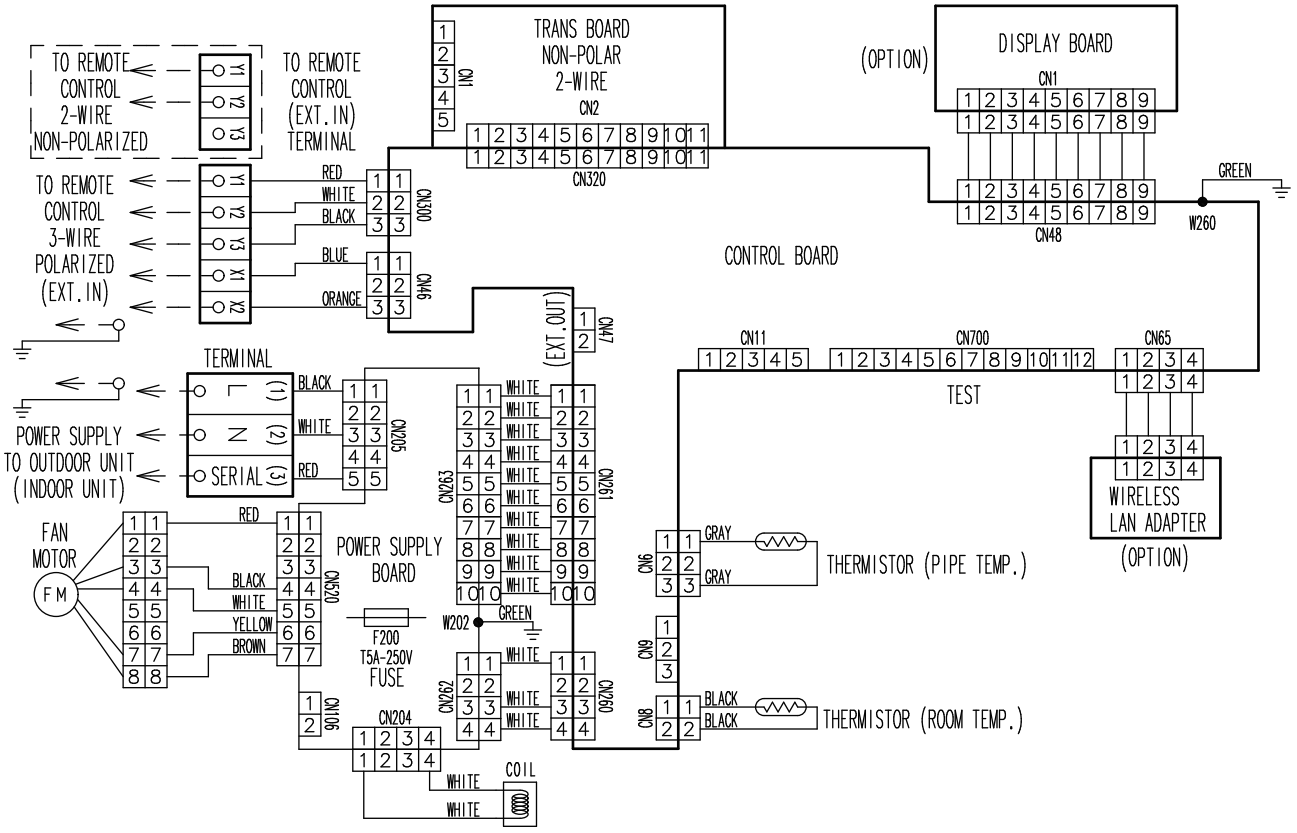
DUCT TYPE
ARXG24-45KMLA

3. Wiring diagrams

3-1. Model: ARXG24KMLA



3-2. Models: ARXG30KMLA, ARXG36KMLA, and ARXG45KMLA



DUCT TYPE
ARXG24-45KMLA

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: ARXG24KMLA

AFR	m^3/h	1,100

		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	5.70	4.37	0.59	6.35	4.40	0.60	6.57	4.78	0.60	7.00	4.80	0.61	7.22	5.18	0.61	7.65	5.16	0.62	8.09	5.50	0.62
	0	5.56	4.31	0.60	6.19	4.33	0.61	6.40	4.71	0.61	6.83	4.72	0.62	7.04	5.10	0.62	7.46	5.08	0.63	7.88	5.41	0.64
	5	5.41	4.25	0.77	6.02	4.27	0.79	6.23	4.65	0.79	6.64	4.66	0.80	6.85	5.03	0.80	7.26	5.01	0.81	7.67	5.34	0.82
	10	5.37	4.24	0.75	5.98	4.26	0.76	6.19	4.64	0.77	6.60	4.65	0.77	6.80	5.02	0.78	7.21	5.00	0.78	7.62	5.33	0.79
	15	5.20	4.16	0.90	5.79	4.19	0.92	5.99	4.55	0.92	6.39	4.57	0.93	6.58	4.93	0.93	6.98	4.91	0.94	7.37	5.24	0.95
	20	6.54	4.76	1.61	7.29	4.78	1.63	7.54	5.20	1.64	8.04	5.22	1.65	8.28	5.64	1.66	8.78	5.61	1.68	9.28	5.98	1.70
	25	6.15	4.61	1.78	6.85	4.63	1.81	7.09	5.04	1.82	7.55	5.05	1.83	7.79	5.46	1.84	8.25	5.44	1.86	8.72	5.79	1.88
	30	5.76	4.45	1.94	6.41	4.47	1.98	6.63	4.86	1.99	7.07	4.88	2.01	7.29	5.27	2.02	7.72	5.25	2.04	8.16	5.59	2.06
	35	5.37	4.30	2.12	5.98	4.32	2.15	6.19	4.70	2.16	6.60	4.71	2.18	6.80	5.09	2.19	7.21	5.07	2.21	7.62	5.40	2.23
	40	5.09	4.16	2.29	5.67	4.19	2.32	5.87	4.55	2.34	6.26	4.57	2.36	6.45	4.93	2.37	6.84	4.91	2.39	7.22	5.24	2.43
	46	4.18	3.68	1.98	4.66	3.71	2.01	4.82	4.03	2.02	5.13	4.04	2.04	5.29	4.37	2.05	5.61	4.35	2.07	5.93	4.63	2.09

■ Model: ARXG30KMLA

AFR	m^3/h	1,900

		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	6.05	5.04	1.32	6.26	5.06	1.35	6.41	5.07	1.37	6.76	5.31	1.39	7.12	5.55	1.42	7.52	5.73	1.44	8.12	6.00	1.47
	0	5.79	4.89	1.78	6.00	4.91	1.82	6.13	4.92	1.85	6.47	5.15	1.88	6.82	5.39	1.92	7.20	5.56	1.94	7.77	5.82	1.98
	5	5.74	4.87	1.84	5.95	4.88	1.88	6.08	4.89	1.91	6.42	5.13	1.94	6.76	5.36	1.97	7.14	5.54	2.00	7.71	5.79	2.05
	10	5.69	4.85	1.89	5.89	4.86	1.94	6.03	4.87	1.97	6.36	5.10	2.00	6.70	5.34	2.03	7.07	5.51	2.06	7.64	5.77	2.11
	15	5.60	4.77	1.95	5.79	4.78	1.99	5.93	4.79	2.02	6.26	5.02	2.06	6.59	5.25	2.09	6.96	5.42	2.12	7.51	5.67	2.17
	20	8.44	6.42	2.35	8.74	6.44	2.40	8.94	6.45	2.44	9.44	6.76	2.48	9.93	7.07	2.52	10.49	7.30	2.56	11.33	7.64	2.61
	25	8.04	6.31	2.43	8.32	6.33	2.48	8.51	6.34	2.52	8.98	6.64	2.57	9.46	6.95	2.61	9.99	7.17	2.65	10.78	7.51	2.70
	30	7.63	6.20	2.51	7.90	6.22	2.57	8.08	6.23	2.61	8.53	6.53	2.65	8.98	6.83	2.69	9.48	7.05	2.73	10.24	7.37	2.79
	35	7.22	6.09	2.59	7.48	6.11	2.65	7.65	6.12	2.69	8.07	6.41	2.73	8.50	6.71	2.78	8.98	6.92	2.82	9.69	7.24	2.88
	40	6.76	5.98	2.70	7.00	6.00	2.77	7.16	6.01	2.81	7.56	6.30	2.86	7.95	6.59	2.91	8.40	6.80	2.95	9.07	7.11	3.01
	46	6.20	5.85	2.84	6.42	5.86	2.91	6.57	5.88	2.95	6.93	6.16	3.00	7.30	6.44	3.06	7.71	6.65	3.10	8.32	6.96	3.17

■ Model: ARXG36KMLA

AFR	m^3/h	1,900

		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	6.76	5.50	1.32	7.00	5.52	1.35	7.16	5.53	1.38	7.56	5.80	1.40	7.96	6.06	1.42	8.40	6.25	1.44	9.07	6.55	1.47
	0	6.47	5.47	1.79	6.70	5.49	1.83	6.86	5.50	1.86	7.24	5.76	1.89	7.62	6.02	1.92	8.05	6.22	1.95	8.69	6.51	1.99
	5	6.42	5.44	1.85	6.64	5.46	1.89	6.80	5.48	1.92	7.17	5.74	1.95	7.55	6.00	1.98	7.98	6.19	2.01	8.61	6.48	2.06
	10	6.36	5.42	1.90	6.59	5.44	1.95	6.74	5.46	1.97	7.11	5.72	2.01	7.49	5.98	2.04	7.91	6.17	2.07	8.54	6.46	2.12
	15	6.26	5.33	1.96	6.48	5.35	2.00	6.62	5.37	2.03	6.99	5.62	2.07	7.36	5.88	2.10	7.77	6.07	2.13	8.39	6.35	2.18
	20	9.44	7.16	2.64	9.77	7.19	2.71	9.99	7.21	2.75	10.55	7.55	2.79	11.10	7.89	2.84	11.73	8.15	2.88	12.66	8.53	2.94
	25	8.98	6.97	2.73	9.30	7.00	2.80	9.51	7.02	2.84	10.04	7.35	2.89	10.57	7.69	2.94	11.16	7.93	2.98	12.05	8.30	3.04
	30	8.53	6.78	2.82	8.83	6.81	2.89	9.03	6.83	2.93	9.53	7.15	2.98	10.03	7.48	3.03	10.60	7.72	3.08	11.44	8.08	3.14
	35	8.07	6.60	2.91	8.36	6.62	2.98	8.55	6.64	3.03	9.02	6.95	3.08	9.50	7.27	3.13	10.03	7.50	3.18	10.83	7.85	3.24
	40	7.55	6.41	3.04	7.82	6.43	3.12	8.00	6.45	3.16	8.44	6.75	3.22	8.89	7.06	3.27	9.39	7.29	3.32	10.14	7.63	3.39
	46	6.93	6.18	3.20	7.18	6.20	3.28	7.34	6.22	3.33	7.75	6.52	3.38	8.16	6.81	3.44	8.61	7.03	3.49	9.30	7.36	3.56

DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG45KMLA

AFR	m^3/h	2,100

		Indoor temperature																				
	°CDB	18			21			23			25			27			29			32		
	°CWB	12			15			16			18			19			21			23		
Outdoor temperature	°CDB	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
		kW			kW			kW			kW			kW			kW			kW		
	-10	8.58	6.70	1.95	9.31	7.04	2.00	9.80	7.26	2.03	10.28	7.57	2.06	10.77	7.87	2.08	11.22	8.01	2.08	11.89	8.23	2.08
	0	8.73	6.83	2.01	9.47	7.17	2.05	9.96	7.40	2.08	10.46	7.71	2.11	10.95	8.02	2.14	11.41	8.17	2.14	12.09	8.39	2.14
	5	8.57	6.74	2.06	9.30	7.08	2.11	9.78	7.31	2.14	10.27	7.61	2.17	10.76	7.92	2.20	11.20	8.06	2.20	11.88	8.28	2.20
	10	8.42	6.65	2.11	9.13	6.99	2.16	9.61	7.21	2.19	10.08	7.51	2.22	10.56	7.81	2.25	11.00	7.96	2.25	11.66	8.17	2.25
	15	8.27	6.54	2.17	8.98	6.87	2.22	9.45	7.10	2.25	9.91	7.39	2.28	10.38	7.69	2.32	10.82	7.83	2.32	11.47	8.04	2.32
	20	11.05	8.40	4.12	11.99	8.82	4.21	12.61	9.10	4.27	13.24	9.48	4.33	13.86	9.86	4.39	14.44	10.04	4.39	15.31	10.31	4.39
	25	10.58	8.18	4.26	11.48	8.60	4.35	12.08	8.87	4.42	12.68	9.24	4.48	13.28	9.61	4.54	13.83	9.79	4.54	14.66	10.05	4.54
	30	10.11	7.97	4.40	10.97	8.38	4.50	11.54	8.64	4.56	12.12	9.00	4.63	12.69	9.36	4.69	13.22	9.54	4.69	14.01	9.79	4.69
	35	9.64	7.76	4.54	10.46	8.15	4.64	11.01	8.41	4.71	11.55	8.77	4.77	12.10	9.12	4.84	12.61	9.28	4.84	13.36	9.53	4.84
	40	8.22	7.10	4.09	8.92	7.46	4.18	9.38	7.70	4.24	9.85	8.02	4.30	10.32	8.34	4.36	10.75	8.50	4.36	11.39	8.72	4.36
	46	6.51	6.31	3.55	7.07	6.63	3.63	7.44	6.84	3.68	7.80	7.13	3.73	8.17	7.41	3.78	8.51	7.55	3.78	9.03	7.75	3.78

DUCT TYPE
ARXG24-45KMLA

4-2. Heating capacity

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

■ Model: ARXG24KMLA

AFR	m^3/h	1,100

			Indoor temperature									
		°CDB	16		18		20		22		24	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-15	-16	6.02	2.22	5.87	2.26	5.73	2.31	5.59	2.36	5.44	2.40
	-10	-11	6.61	2.31	6.45	2.36	6.28	2.40	6.13	2.45	5.97	2.50
	-5	-7	7.20	2.39	7.03	2.44	6.86	2.49	6.69	2.54	6.51	2.59
	0	-2	7.80	2.47	7.62	2.52	7.43	2.57	7.24	2.62	7.06	2.67
	5	3	8.40	2.54	8.19	2.60	8.00	2.65	7.80	2.70	7.60	2.76
	7	6	9.03	2.54	8.82	2.60	8.60	2.65	8.38	2.70	8.17	2.76
	10	8	8.66	2.41	8.45	2.46	8.24	2.51	8.04	2.56	7.83	2.61
	15	10	8.05	2.17	7.85	2.21	7.66	2.26	7.48	2.30	7.28	2.34
	20	15	7.56	1.84	7.38	1.88	7.20	1.92	7.02	1.96	6.84	1.99
	24	18	7.86	1.82	7.68	1.86	7.49	1.90	7.31	1.94	7.12	1.97

■ Model: ARXG30KMLA

AFR	m^3/h	2,100

			Indoor temperature									
		°CDB	16		18		20		22		24	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-15	-16	6.84	2.78	6.81	2.78	6.79	2.79	6.61	2.79	6.17	2.80
	-10	-11	7.83	3.01	7.80	3.01	7.76	3.01	7.56	3.02	7.06	3.03
	-5	-7	8.82	3.23	8.78	3.24	8.74	3.24	8.52	3.24	7.95	3.26
	0	-2	9.37	3.42	9.33	3.42	9.29	3.43	9.05	3.43	8.45	3.44
	5	3	10.46	3.47	10.41	3.47	10.37	3.48	10.10	3.48	9.43	3.50
	7	6	10.89	3.49	10.85	3.50	10.80	3.50	10.52	3.50	9.83	3.52
	10	8	11.23	3.49	11.18	3.50	11.13	3.50	10.85	3.50	10.13	3.52
	15	10	11.68	3.49	11.63	3.50	11.58	3.50	11.28	3.50	10.54	3.52
	20	15	12.44	3.50	12.38	3.50	12.33	3.51	12.01	3.51	11.22	3.53
	24	18	13.04	3.51	12.99	3.51	12.93	3.52	12.60	3.52	11.77	3.53

■ Model: ARXG36KMLA

AFR	m^3/h	2,100

			Indoor temperature									
		°CDB	16		18		20		22		24	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-15	-16	7.92	3.18	7.89	3.18	7.85	3.19	7.65	3.19	7.15	3.20
	-10	-11	9.06	3.44	9.02	3.44	8.99	3.44	8.75	3.45	8.18	3.46
	-5	-7	10.21	3.69	10.16	3.70	10.12	3.70	9.86	3.71	9.21	3.72
	0	-2	10.84	3.74	10.79	3.75	10.75	3.75	10.47	3.75	9.78	3.77
	5	3	12.10	3.80	12.05	3.80	12.00	3.81	11.69	3.81	10.92	3.82
	7	6	12.61	3.82	12.55	3.83	12.50	3.83	12.18	3.84	11.37	3.85
	10	8	13.00	3.82	12.94	3.83	12.88	3.83	12.55	3.84	11.72	3.85
	15	10	13.52	3.82	13.46	3.83	13.40	3.83	13.06	3.84	12.20	3.85
	20	15	14.39	3.83	14.33	3.84	14.27	3.84	13.90	3.85	12.99	3.86
	24	18	15.10	3.84	15.03	3.84	14.97	3.85	14.58	3.85	13.62	3.87

■ Model: ARXG45KMLA

AFR	m^3/h	2,100

			Indoor temperature									
		°CDB	16		18		20		22		24	
	°CDB	°CWB	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
			kW		kW		kW		kW		kW	
Outdoor temperature	-15	-16	10.75	4.34	10.49	4.36	10.24	4.38	10.00	4.38	9.40	4.38
	-10	-11	11.94	4.52	11.65	4.54	11.37	4.57	11.11	4.57	10.44	4.57
	-5	-7	13.13	4.71	12.82	4.73	12.50	4.75	12.21	4.75	11.49	4.75
	0	-2	14.33	4.89	13.99	4.92	13.65	4.94	13.33	4.94	12.54	4.94
	5	3	15.35	4.56	14.98	4.58	14.61	4.61	14.27	4.61	13.43	4.61
	7	6	15.75	4.55	15.38	4.58	15.00	4.60	14.65	4.60	13.78	4.60
	10	8	16.40	4.54	16.01	4.57	15.62	4.59	15.26	4.59	14.35	4.59
	15	10	17.49	4.53	17.07	4.55	16.66	4.57	16.27	4.57	15.30	4.57
	20	15	18.58	4.51	18.14	4.53	17.69	4.56	17.28	4.56	16.25	4.56
	24	18	19.45	4.50	18.99	4.52	18.52	4.54	18.09	4.54	17.01	4.54

DUCT TYPE
ARXG24-45KMLA

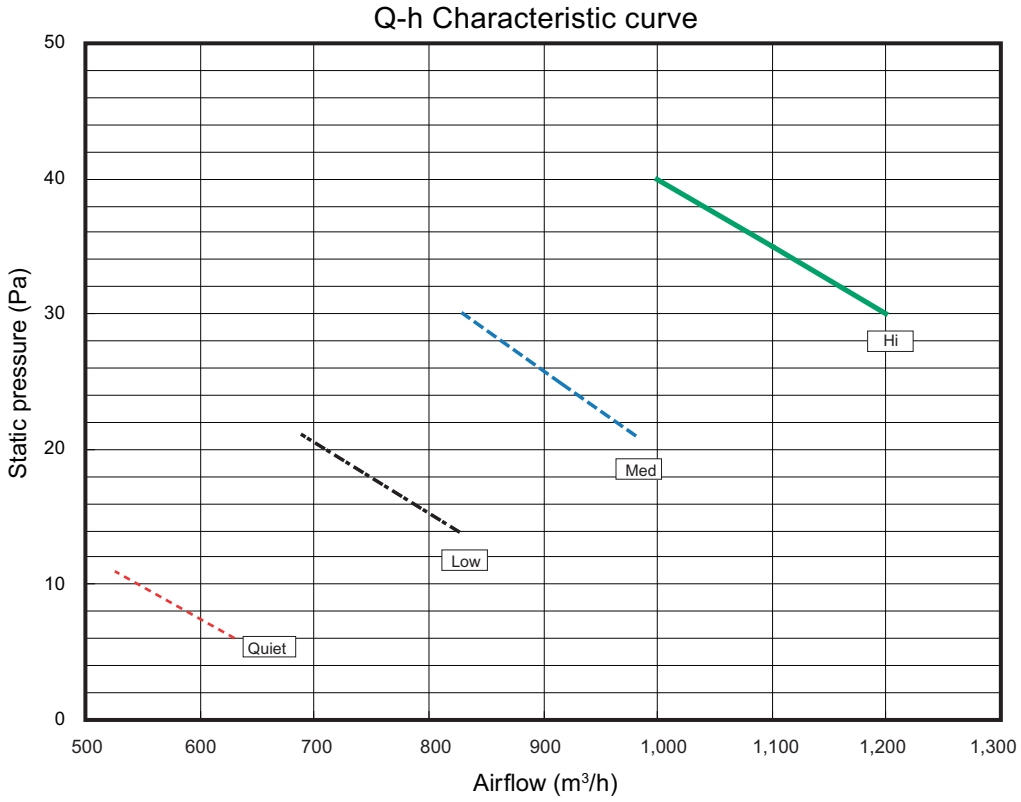
5. Fan performance

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

5-1. Fan performance curve

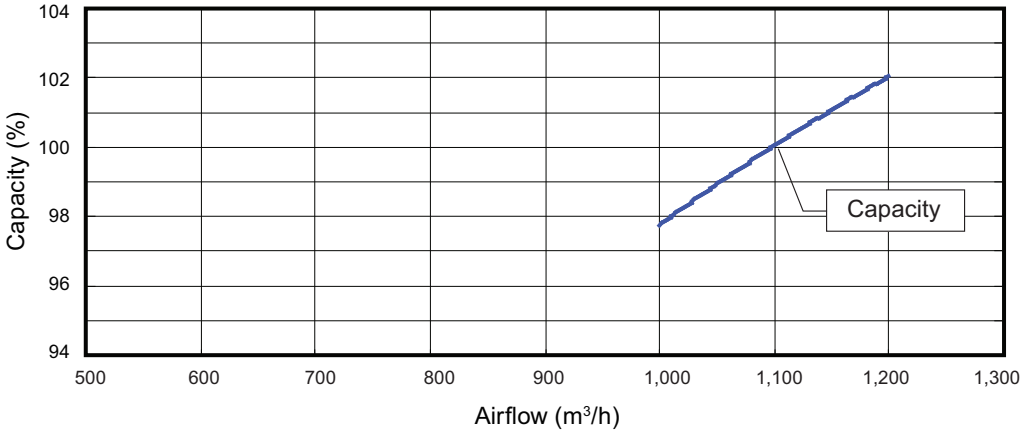
■ Model: ARXG24KMLA (Normal mode)

			Static pressure (Pa)							
			6	11	14	21	25	30	35	40
Fan speed	HIGH	m3/h	—	—	—	—	—	1,200	1,100	1,000
		l/s	—	—	—	—	—	333	306	278
		CFM	—	—	—	—	—	706	647	589
	MED	m3/h	—	—	—	980	915	830	—	—
		l/s	—	—	—	272	254	231	—	—
		CFM	—	—	—	577	539	489	—	—
	LOW	m3/h	—	—	825	690	—	—	—	—
		l/s	—	—	229	192	—	—	—	—
		CFM	—	—	486	406	—	—	—	—
	QUIET	m3/h	630	525	—	—	—	—	—	—
		l/s	175	146	—	—	—	—	—	—
		CFM	371	309	—	—	—	—	—	—

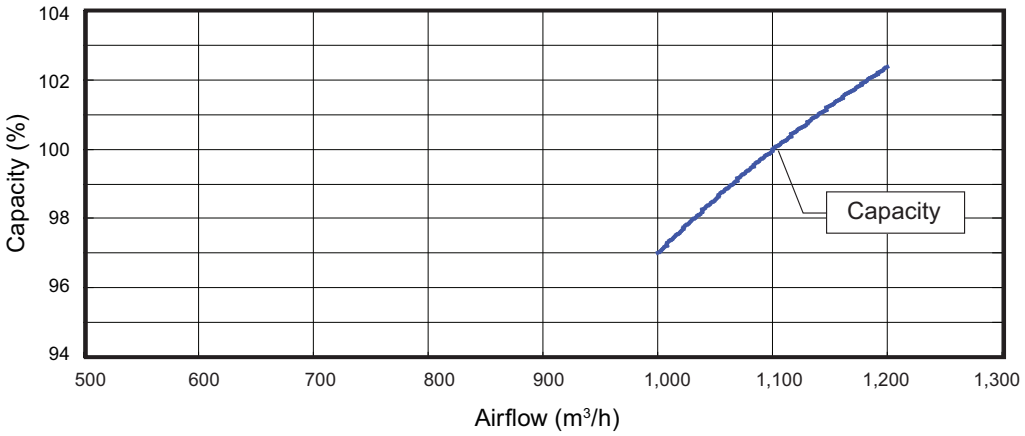


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

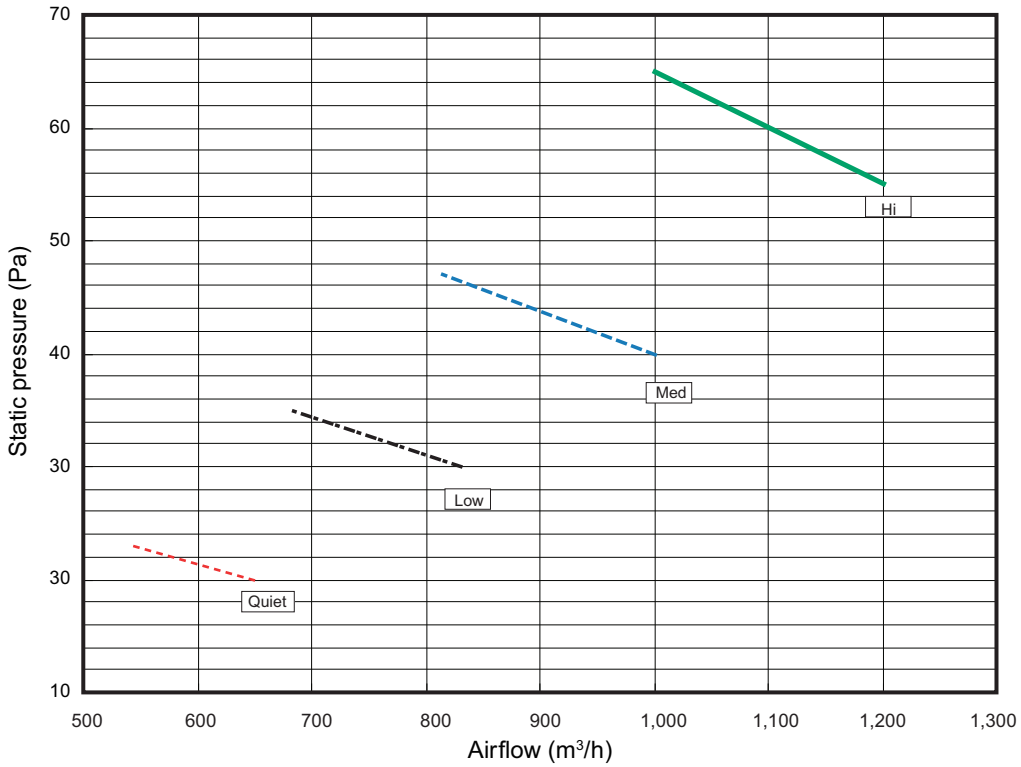


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG24KMLA (Static pressure mode 1)

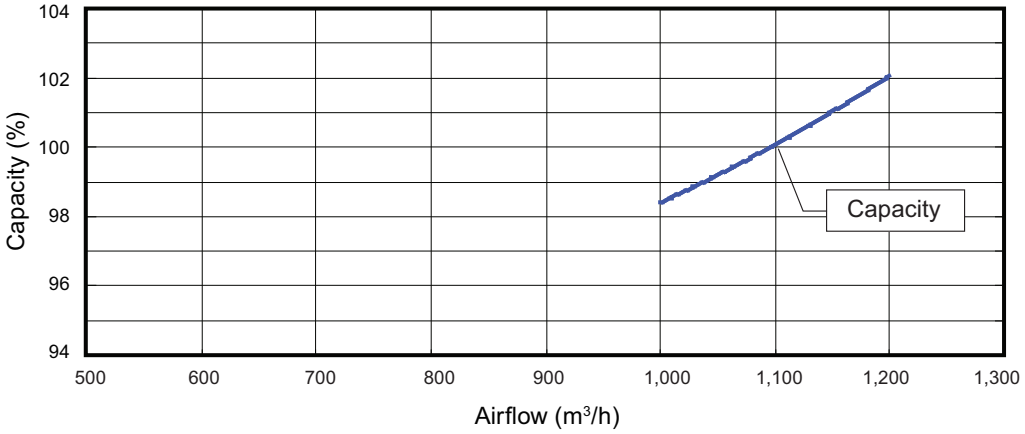
			Static pressure (Pa)							
			20	23	30	35	40	47	55	65
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,200	1,000
		l/s	—	—	—	—	—	—	333	278
		CFM	—	—	—	—	—	—	706	589
	MED	m3/h	—	—	—	—	1,000	815	—	—
		l/s	—	—	—	—	278	226	—	—
		CFM	—	—	—	—	589	480	—	—
	LOW	m3/h	—	—	830	680	—	—	—	—
		l/s	—	—	231	189	—	—	—	—
		CFM	—	—	489	400	—	—	—	—
	QUIET	m3/h	650	540	—	—	—	—	—	—
		l/s	181	150	—	—	—	—	—	—
		CFM	383	318	—	—	—	—	—	—

Q-h Characteristic curve

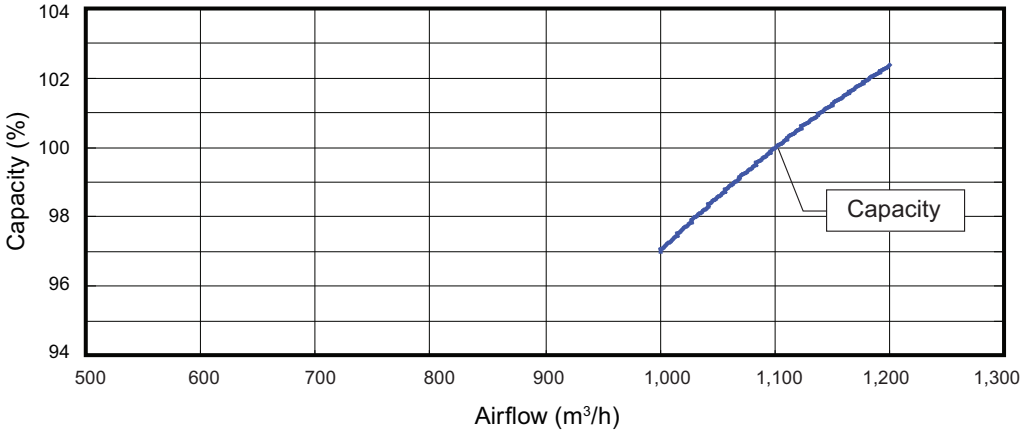


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

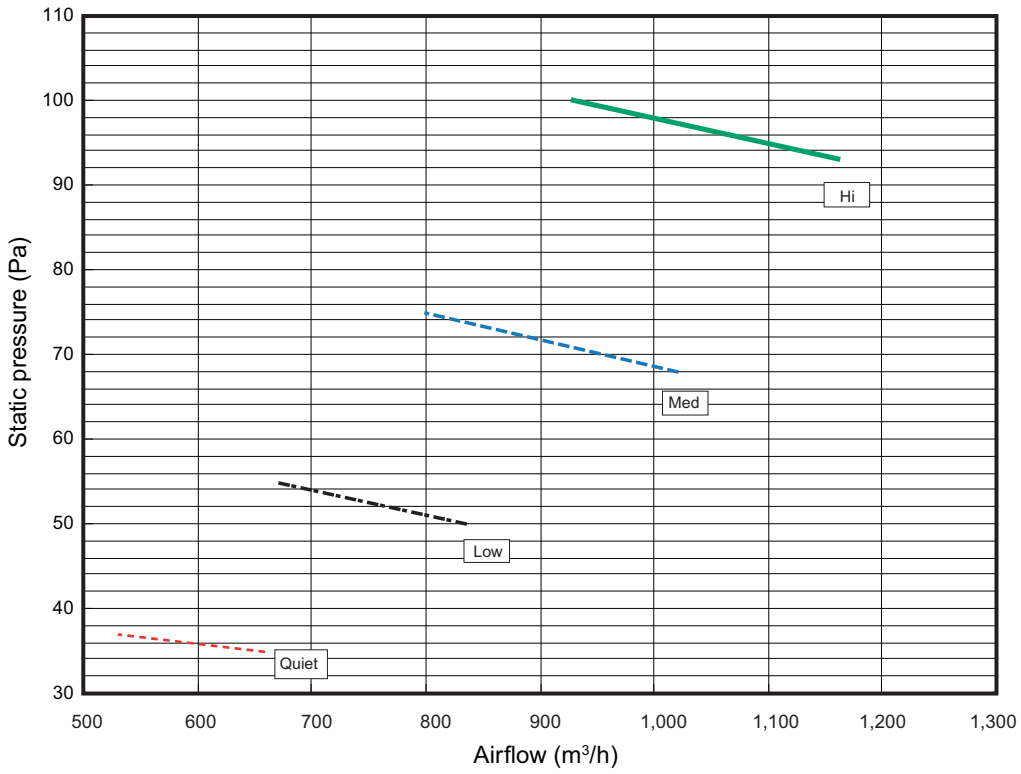


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG24KMLA (Static pressure mode 2)

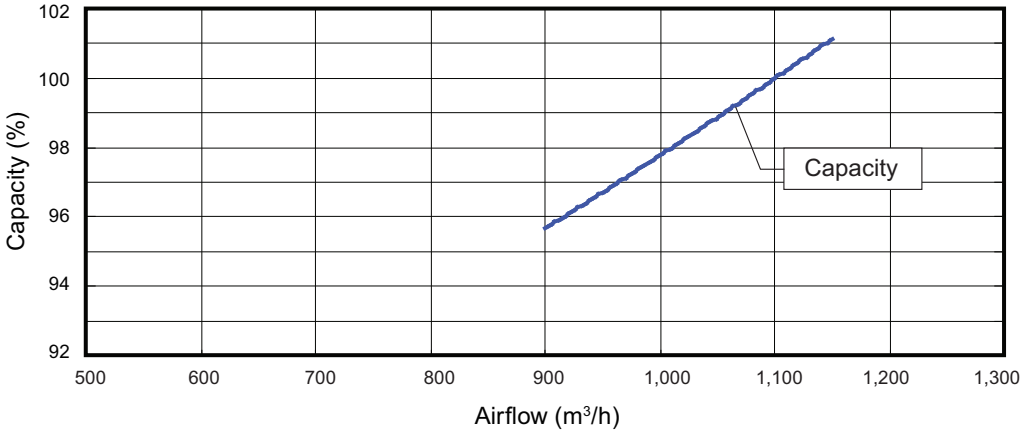
			Static pressure (Pa)							
			35	37	50	55	68	75	93	100
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,160	930
		l/s	—	—	—	—	—	—	322	258
		CFM	—	—	—	—	—	—	683	547
	MED	m3/h	—	—	—	—	1,020	800	—	—
		l/s	—	—	—	—	283	222	—	—
		CFM	—	—	—	—	600	471	—	—
	LOW	m3/h	—	—	835	670	—	—	—	—
		l/s	—	—	232	186	—	—	—	—
		CFM	—	—	491	394	—	—	—	—
	QUIET	m3/h	660	530	—	—	—	—	—	—
		l/s	183	147	—	—	—	—	—	—
		CFM	388	312	—	—	—	—	—	—

Q-h Characteristic curve

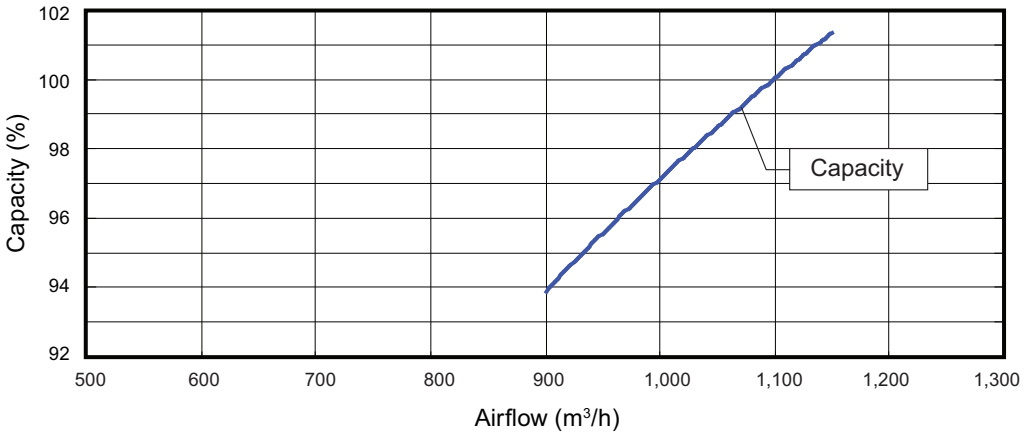


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

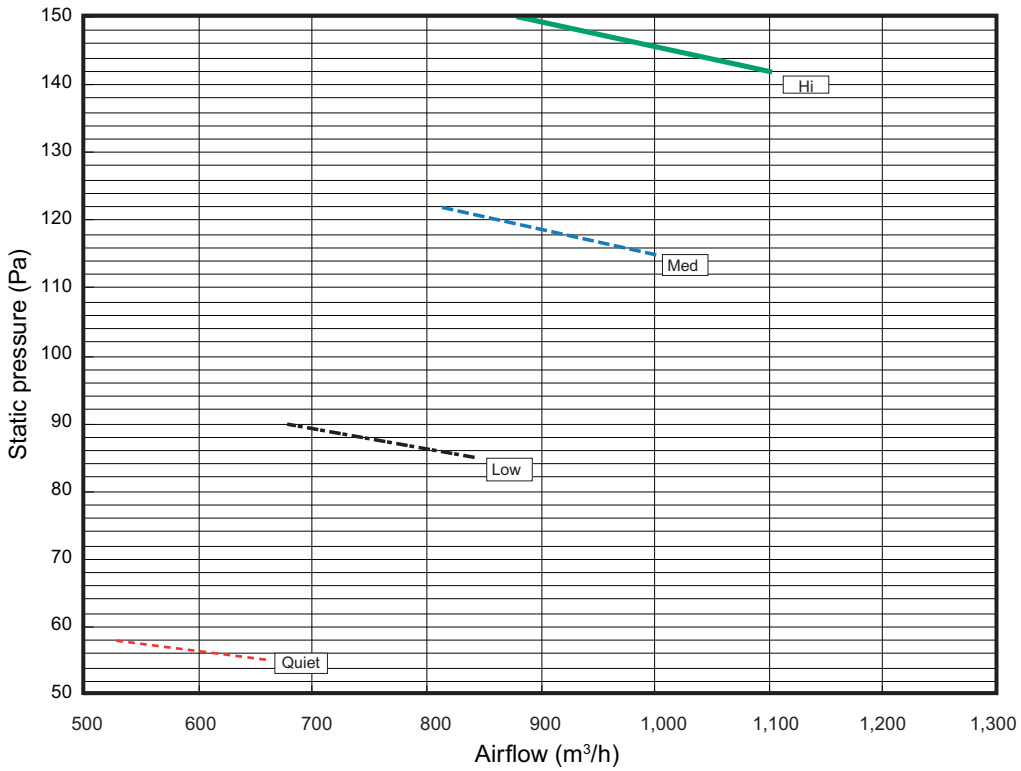


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG24KMLA (Static pressure mode 3)

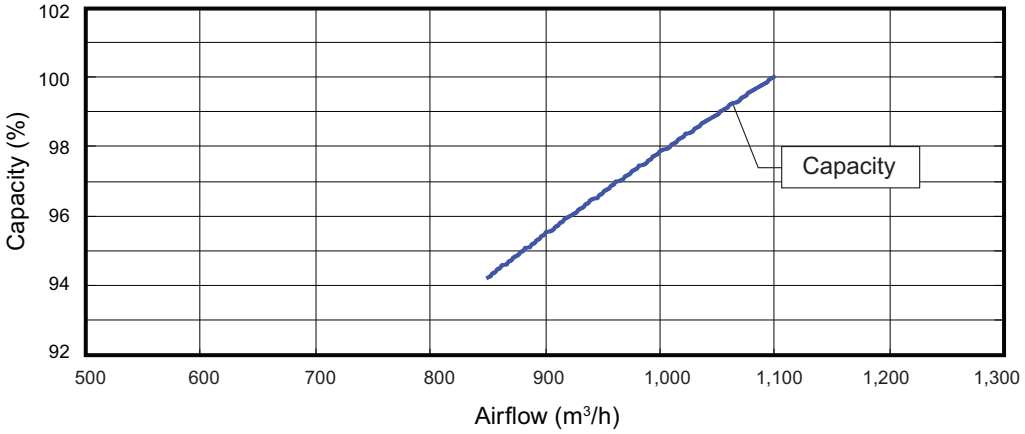
			Static pressure (Pa)							
			55	58	85	90	115	122	142	150
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,100	880
		l/s	—	—	—	—	—	—	306	244
		CFM	—	—	—	—	—	—	647	518
	MED	m3/h	—	—	—	—	1,000	810	—	—
		l/s	—	—	—	—	278	225	—	—
		CFM	—	—	—	—	589	477	—	—
	LOW	m3/h	—	—	840	680	—	—	—	—
		l/s	—	—	233	189	—	—	—	—
		CFM	—	—	494	400	—	—	—	—
	QUIET	m3/h	660	525	—	—	—	—	—	—
		l/s	183	146	—	—	—	—	—	—
		CFM	388	309	—	—	—	—	—	—

Q-h Characteristic curve

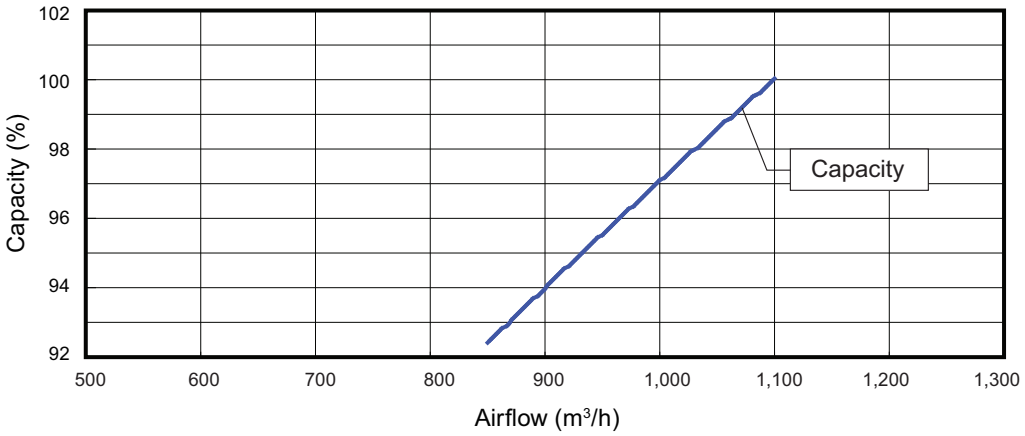


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



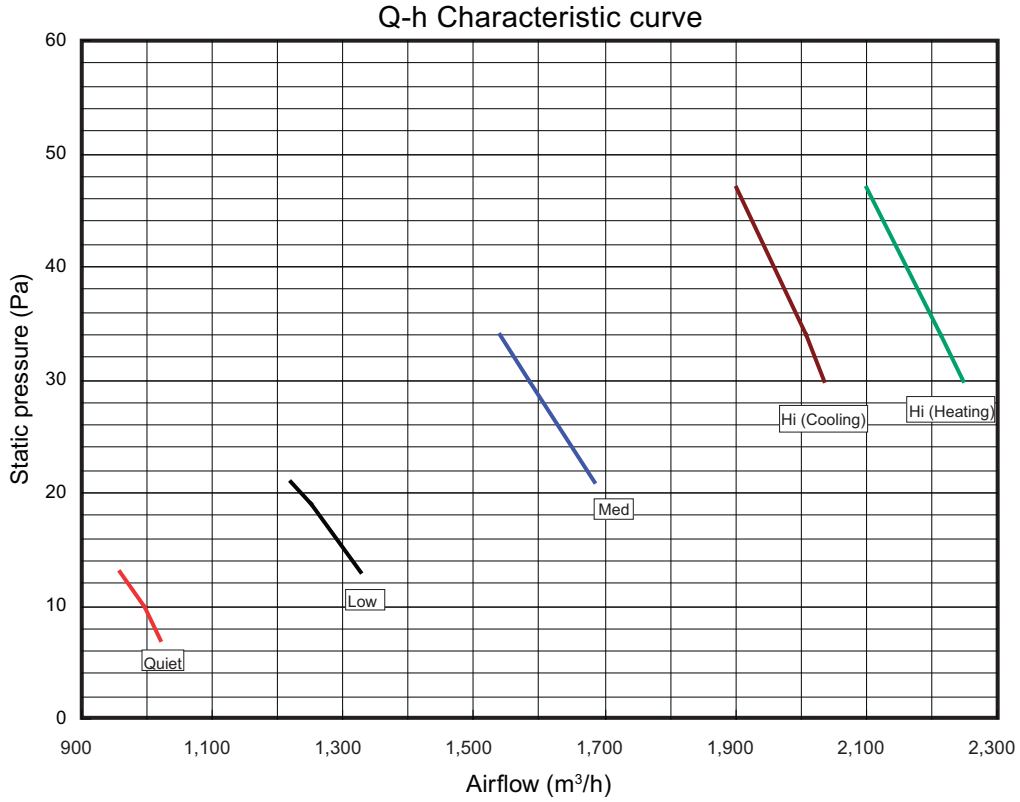
- **Heating**



DUCT TYPE
ARXG24-45KMLA

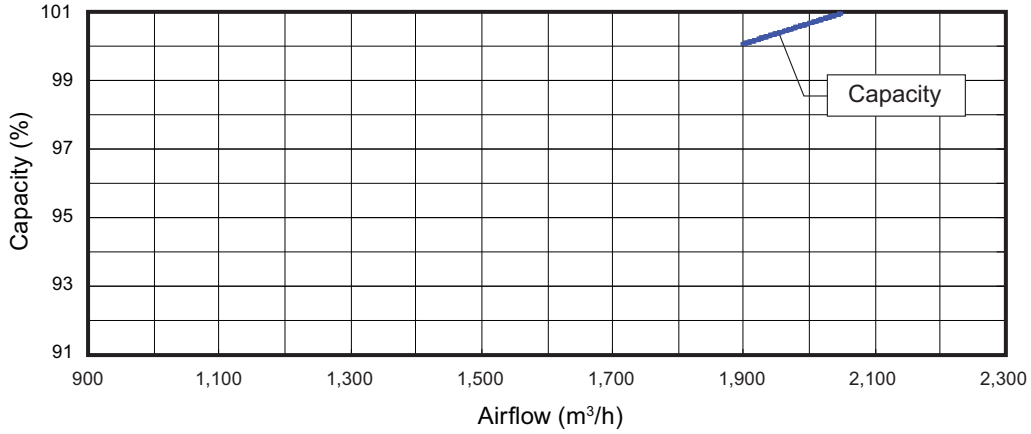
■ Model: ARXG30KMLA (Normal mode)

			Static pressure (Pa)							
			7	10	13	19	21	30	34	47
Fan speed	HIGH (Heating)	m3/h	—	—	—	—	—	2,270	2,240	2,100
		l/s	—	—	—	—	—	631	622	583
		CFM	—	—	—	—	—	1,336	1,318	1,236
	HIGH (Cooling)	m3/h	—	—	—	—	—	2,050	2,020	1,900
		l/s	—	—	—	—	—	569	561	527
		CFM	—	—	—	—	—	1,207	1,189	1,118
	MED	m3/h	—	—	—	—	1,685	1,585	1,540	—
		l/s	—	—	—	—	468	440	428	—
		CFM	—	—	—	—	992	933	906	—
	LOW	m3/h	—	—	1,325	1,250	1,220	—	—	—
		l/s	—	—	368	347	339	—	—	—
		CFM	—	—	780	736	718	—	—	—
	QUIET	m3/h	1,020	995	960	—	—	—	—	—
		l/s	283	276	267	—	—	—	—	—
		CFM	600	586	565	—	—	—	—	—

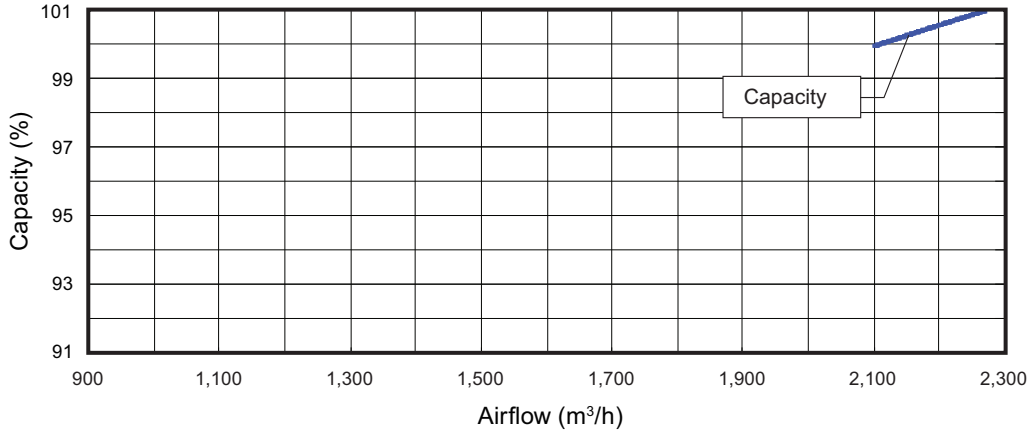


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

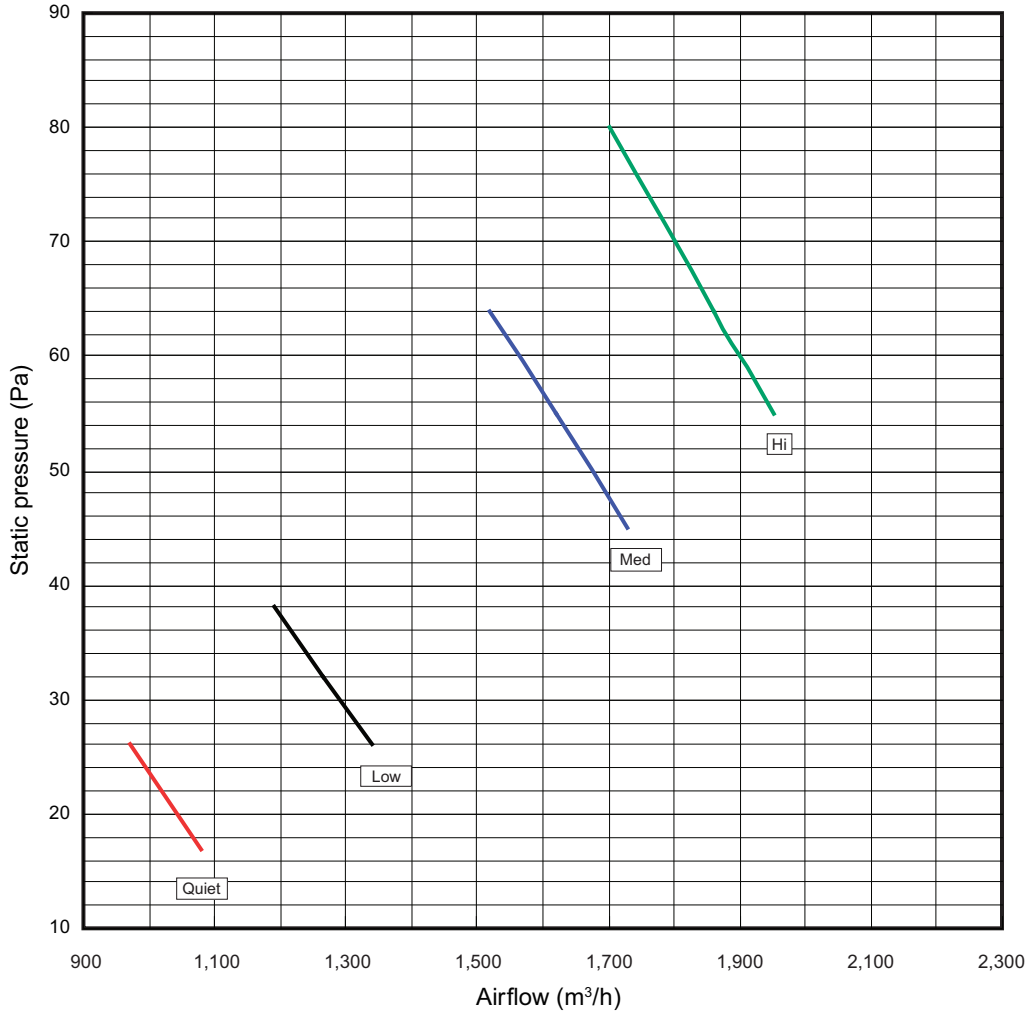


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG30KMLA (Static pressure mode 1)

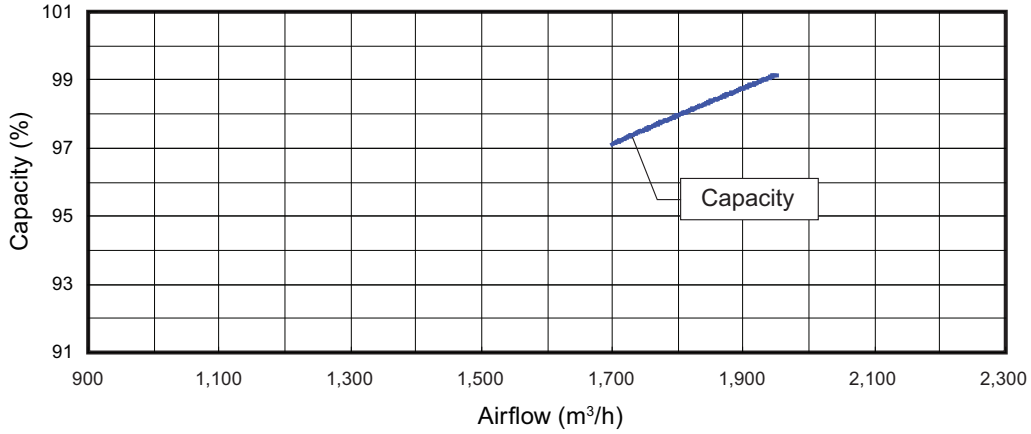
			Static pressure (Pa)							
			17	26	32	38	45	55	64	80
Fan speed	HIGH	m3/h	—	—	—	—	—	1,950	1,860	1,700
		l/s	—	—	—	—	—	542	517	472
		CFM	—	—	—	—	—	1,148	1,095	1,001
	MED	m3/h	—	—	—	—	1,730	1,620	1,520	—
		l/s	—	—	—	—	481	450	422	—
		CFM	—	—	—	—	1,018	953	895	—
	LOW	m3/h	—	1,340	1,265	1,190	—	—	—	—
		l/s	—	372	351	331	—	—	—	—
		CFM	—	789	745	700	—	—	—	—
	QUIET	m3/h	1,080	970	—	—	—	—	—	—
		l/s	300	269	—	—	—	—	—	—
		CFM	636	571	—	—	—	—	—	—

Q-h Characteristic curve

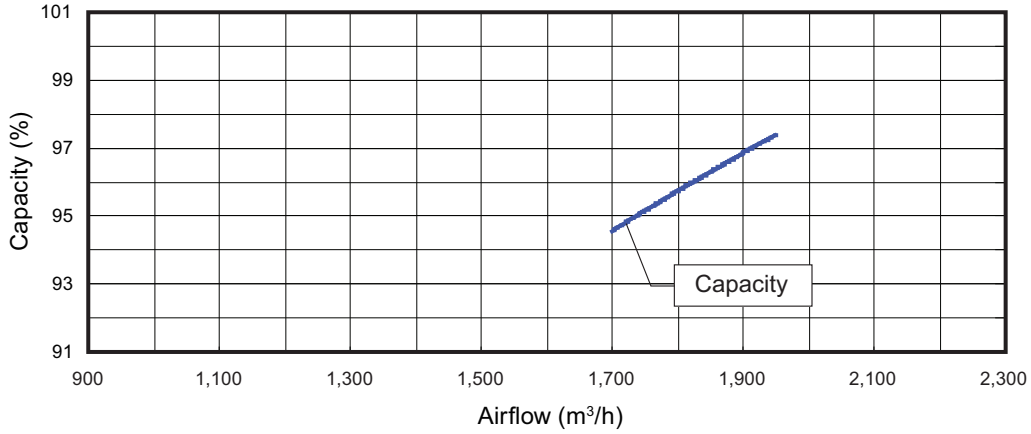


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

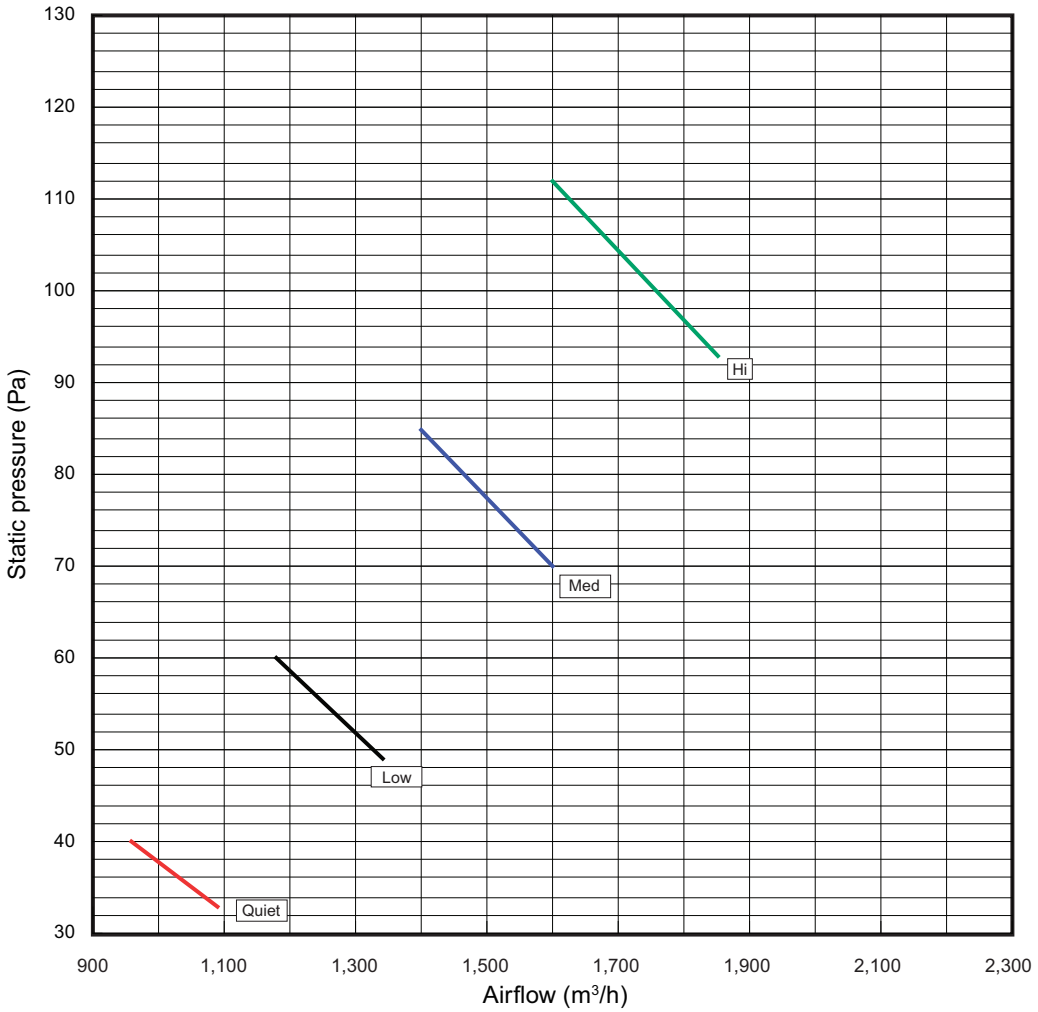


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG30KMLA (Static pressure mode 2)

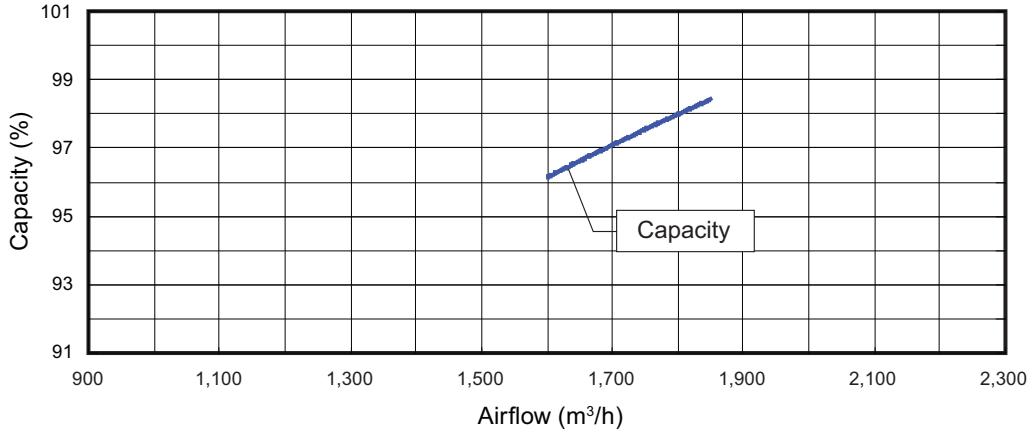
			Static pressure (Pa)							
			33	40	49	60	70	85	93	112
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,850	1,600
		l/s	—	—	—	—	—	—	514	444
		CFM	—	—	—	—	—	—	1,089	942
	MED	m3/h	—	—	—	—	1,600	1,400	—	—
		l/s	—	—	—	—	444	389	—	—
		CFM	—	—	—	—	942	824	—	—
	LOW	m3/h	—	—	1,340	1,180	—	—	—	—
		l/s	—	—	372	328	—	—	—	—
		CFM	—	—	789	695	—	—	—	—
	QUIET	m3/h	1,090	960	—	—	—	—	—	—
		l/s	303	267	—	—	—	—	—	—
		CFM	642	565	—	—	—	—	—	—

Q-h Characteristic curve

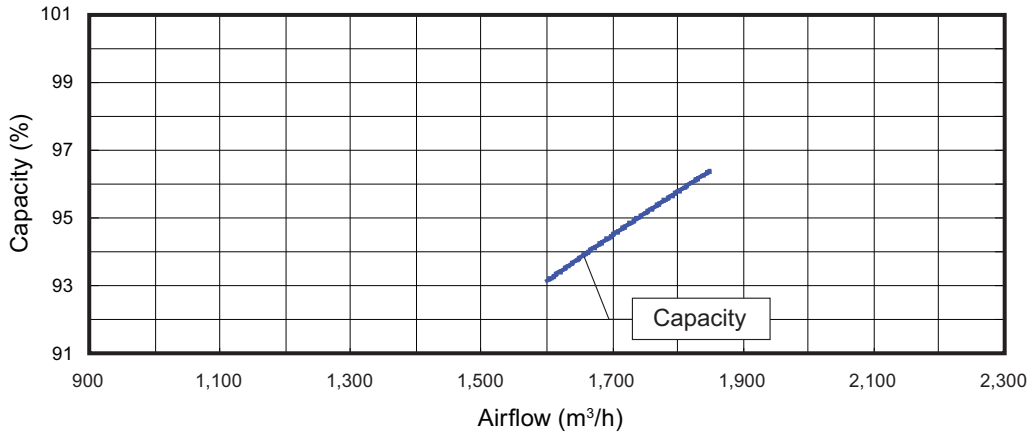


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

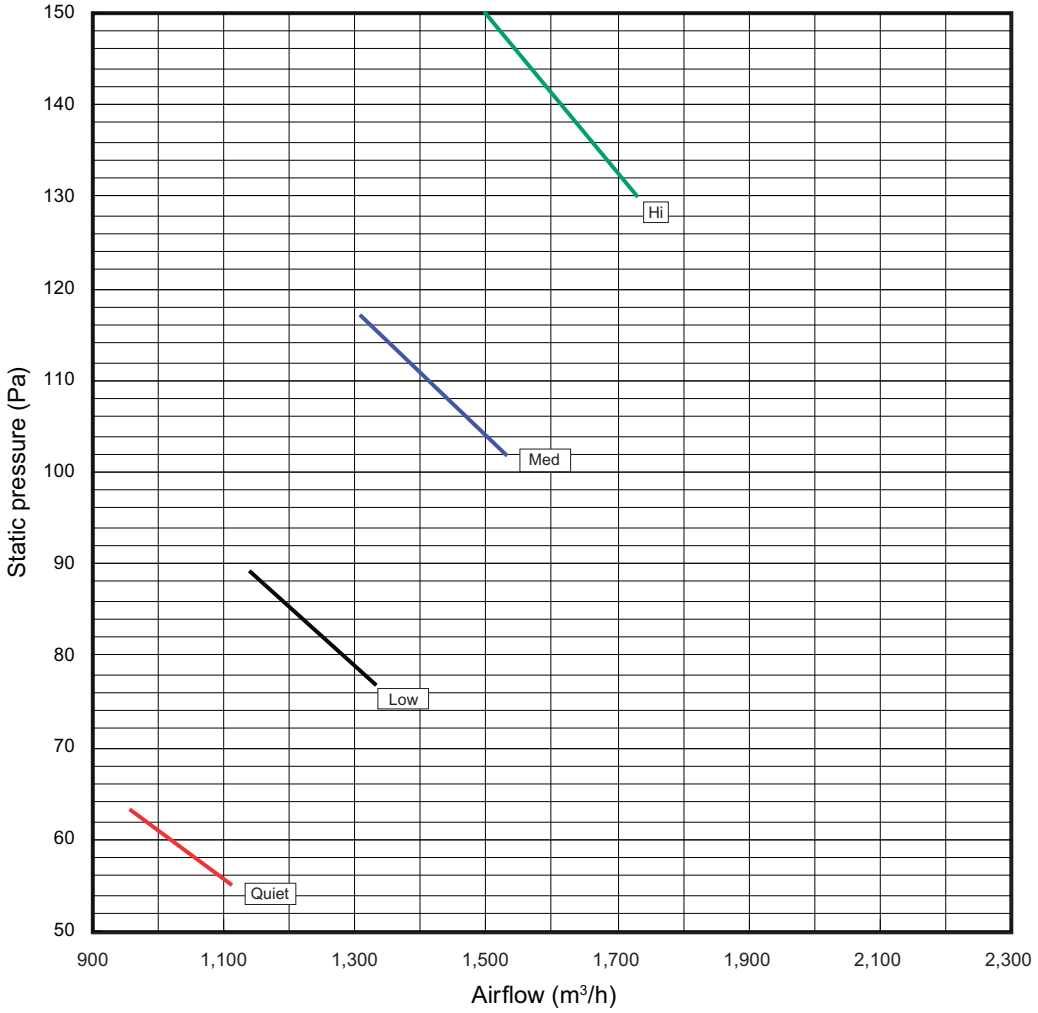


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG30KMLA (Static pressure mode 3)

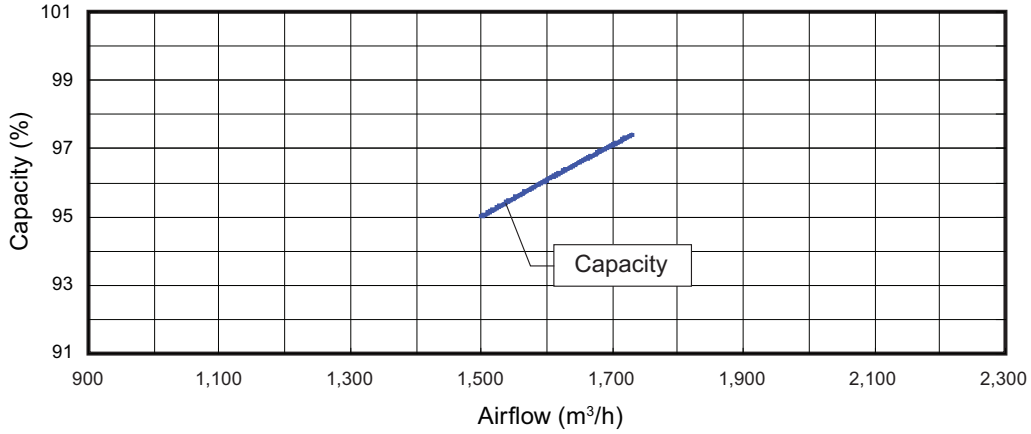
			Static pressure (Pa)							
			55	**63**	**77**	**89**	**102**	**117**	**130**	**150**
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,730	1,500
		l/s	—	—	—	—	—	—	481	417
		CFM	—	—	—	—	—	—	1,018	883
	MED	m3/h	—	—	—	—	1,530	1,310	—	—
		l/s	—	—	—	—	425	364	—	—
		CFM	—	—	—	—	901	771	—	—
	LOW	m3/h	—	—	1,330	1,140	—	—	—	—
		l/s	—	—	369	317	—	—	—	—
		CFM	—	—	783	671	—	—	—	—
	QUIET	m3/h	1,110	960	—	—	—	—	—	—
		l/s	308	267	—	—	—	—	—	—
		CFM	653	565	—	—	—	—	—	—

Q-h Characteristic curve

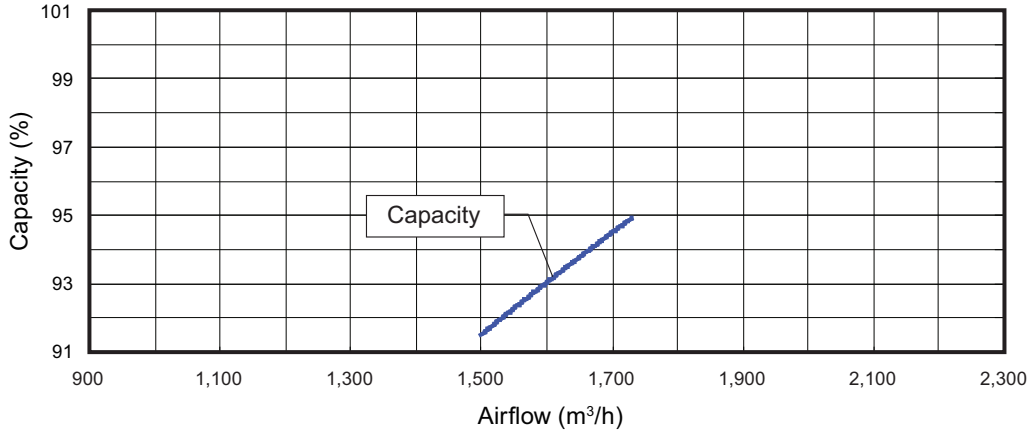


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

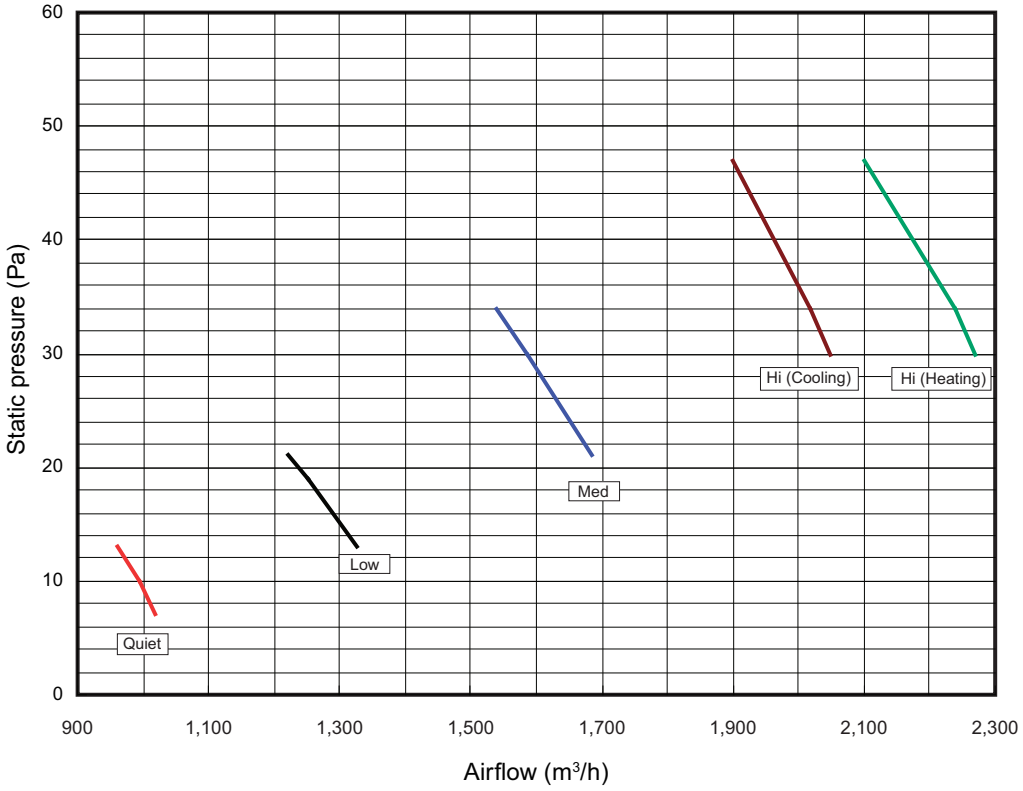


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG36KMLA (Normal mode)

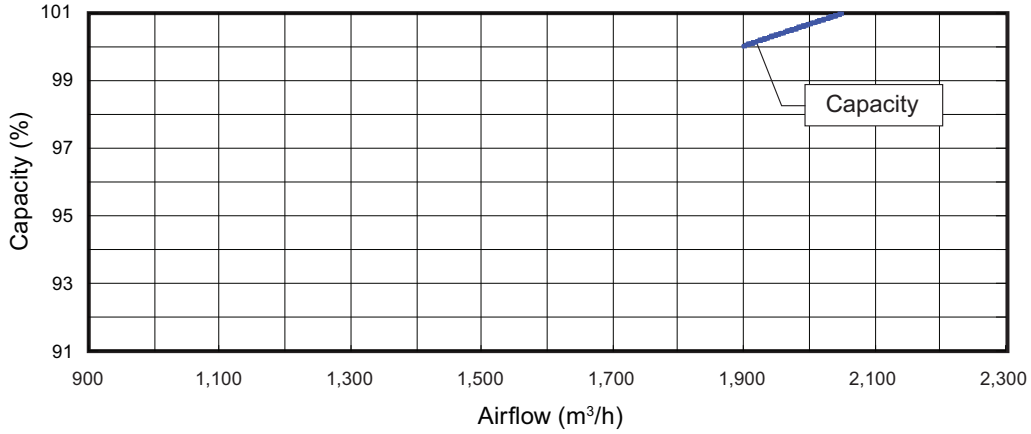
			Static pressure (Pa)							
			7	10	13	19	21	30	34	47
Fan speed	HIGH (Heating)	m3/h	—	—	—	—	—	2,270	2,240	2,100
		l/s	—	—	—	—	—	631	622	583
		CFM	—	—	—	—	—	1,336	1,318	1,236
	HIGH (Cooling)	m3/h	—	—	—	—	—	2,050	2,020	1,900
		l/s	—	—	—	—	—	569	561	527
		CFM	—	—	—	—	—	1,207	1,189	1,118
	MED	m3/h	—	—	—	—	1,685	1,585	1,540	—
		l/s	—	—	—	—	468	440	428	—
		CFM	—	—	—	—	992	933	906	—
	LOW	m3/h	—	—	1,325	1,250	1,220	—	—	—
		l/s	—	—	368	347	339	—	—	—
		CFM	—	—	780	736	718	—	—	—
	QUIET	m3/h	1,020	995	960	—	—	—	—	—
		l/s	283	276	267	—	—	—	—	—
		CFM	600	586	565	—	—	—	—	—

Q-h Characteristic curve

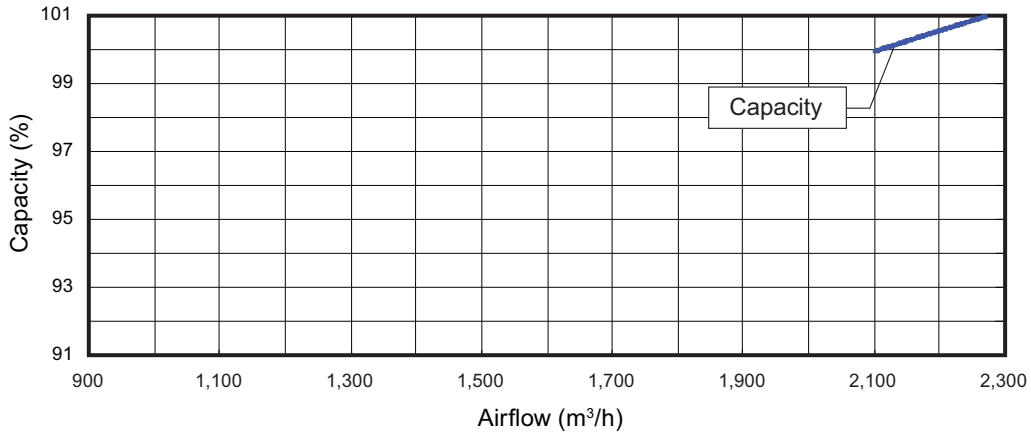


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

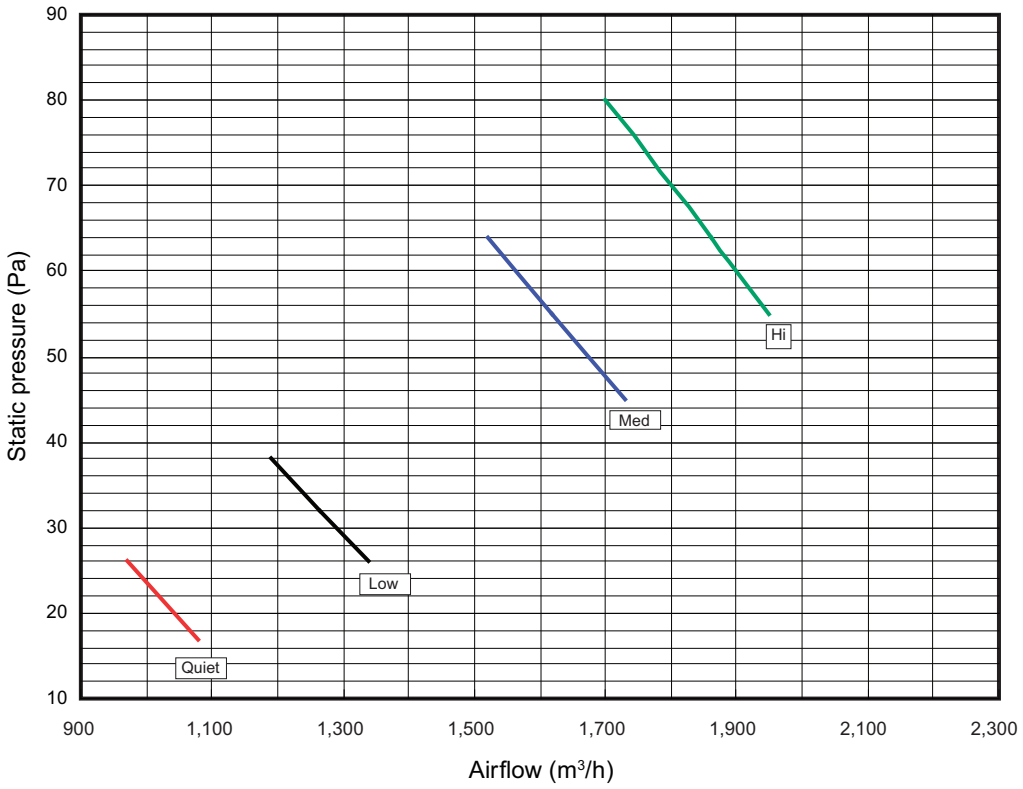


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG36KMLA (Static pressure mode 1)

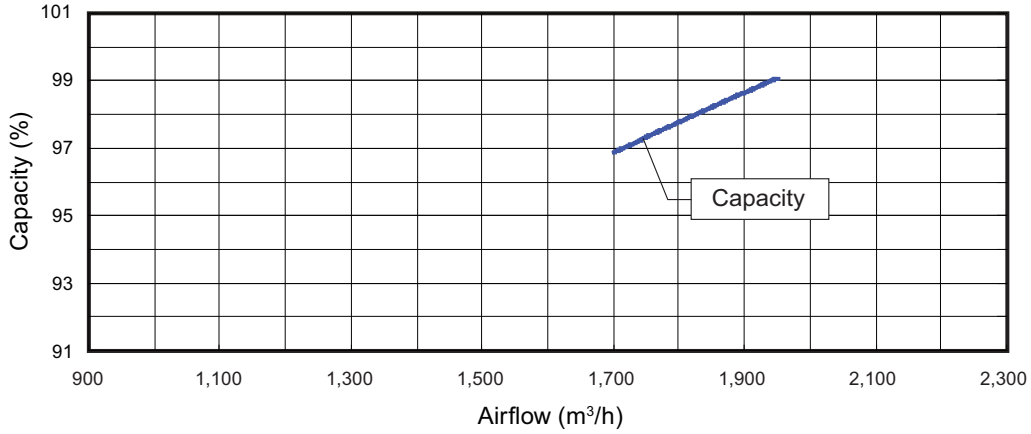
			Static pressure (Pa)							
			17	26	32	38	45	55	64	80
Fan speed	HIGH	m3/h	—	—	—	—	—	1,950	1,860	1,700
		l/s	—	—	—	—	—	542	517	472
		CFM	—	—	—	—	—	1,148	1,095	1,001
	MED	m3/h	—	—	—	—	1,730	1,620	1,520	—
		l/s	—	—	—	—	481	450	422	—
		CFM	—	—	—	—	1,018	953	895	—
	LOW	m3/h	—	1,340	1,265	1,190	—	—	—	—
		l/s	—	372	351	331	—	—	—	—
		CFM	—	789	745	700	—	—	—	—
	QUIET	m3/h	1,080	970	—	—	—	—	—	—
		l/s	300	269	—	—	—	—	—	—
		CFM	636	571	—	—	—	—	—	—

Q-h Characteristic curve

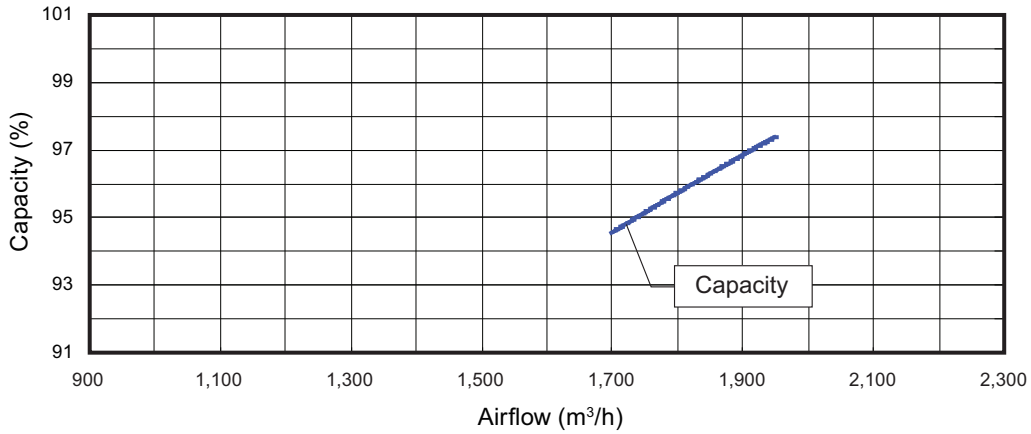


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

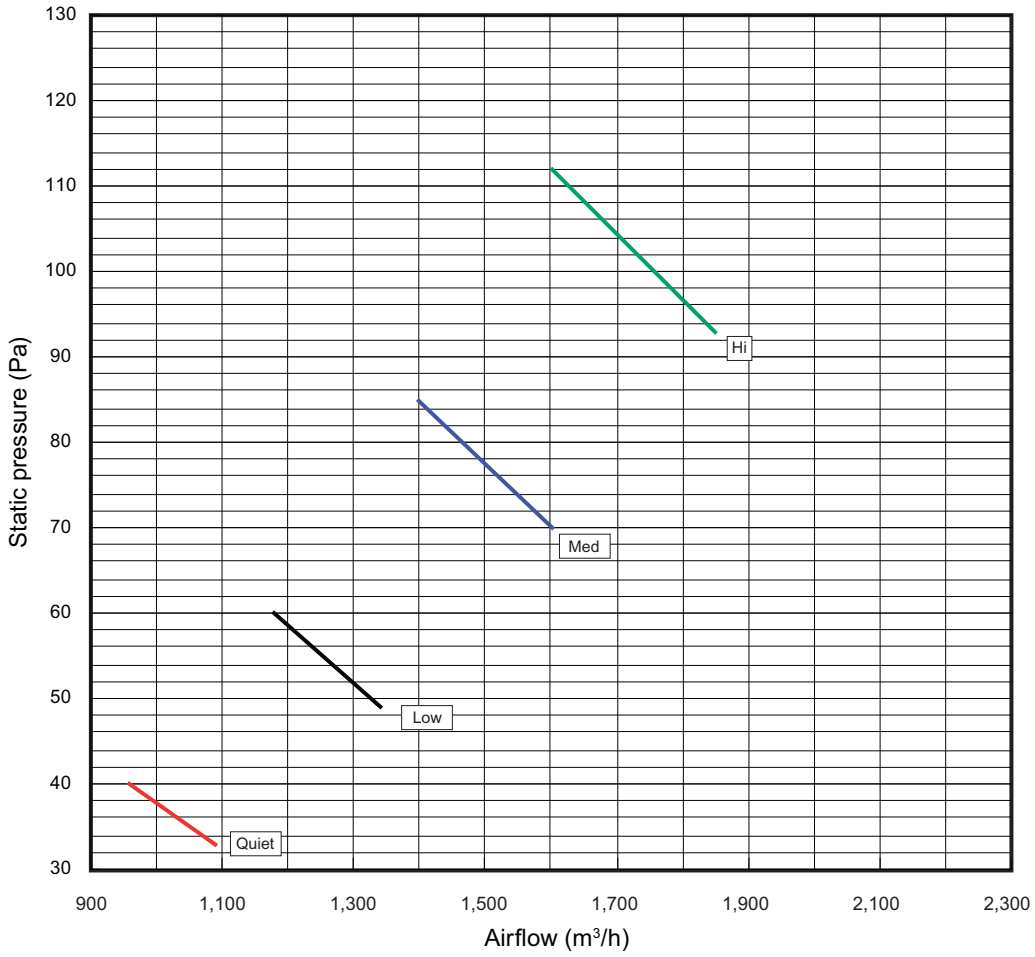


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG36KMLA (Static pressure mode 2)

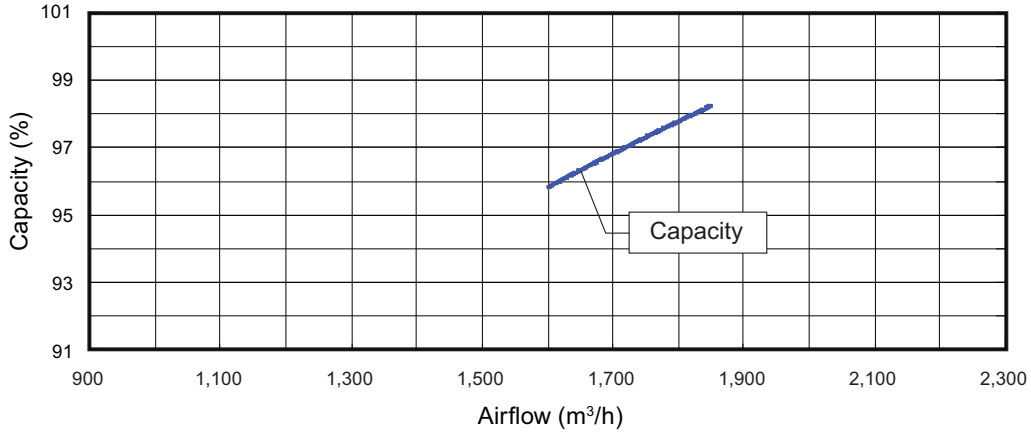
			Static pressure (Pa)							
			33	**40**	**49**	**60**	**70**	**85**	**93**	**112**
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,850	1,600
		l/s	—	—	—	—	—	—	514	444
		CFM	—	—	—	—	—	—	1,089	942
	MED	m3/h	—	—	—	—	1,600	1,400	—	—
		l/s	—	—	—	—	444	389	—	—
		CFM	—	—	—	—	942	824	—	—
	LOW	m3/h	—	—	1,340	1,180	—	—	—	—
		l/s	—	—	372	328	—	—	—	—
		CFM	—	—	789	695	—	—	—	—
	QUIET	m3/h	1,090	960	—	—	—	—	—	—
		l/s	303	267	—	—	—	—	—	—
		CFM	642	565	—	—	—	—	—	—

Q-h Characteristic curve

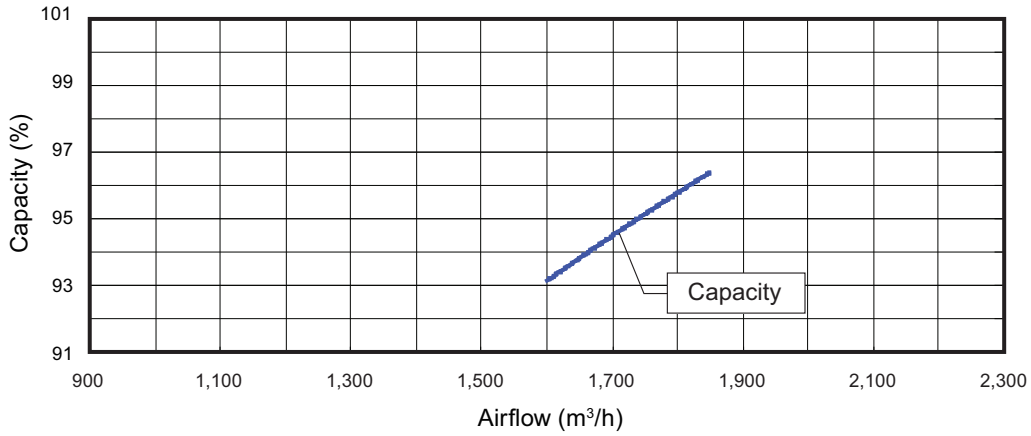


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

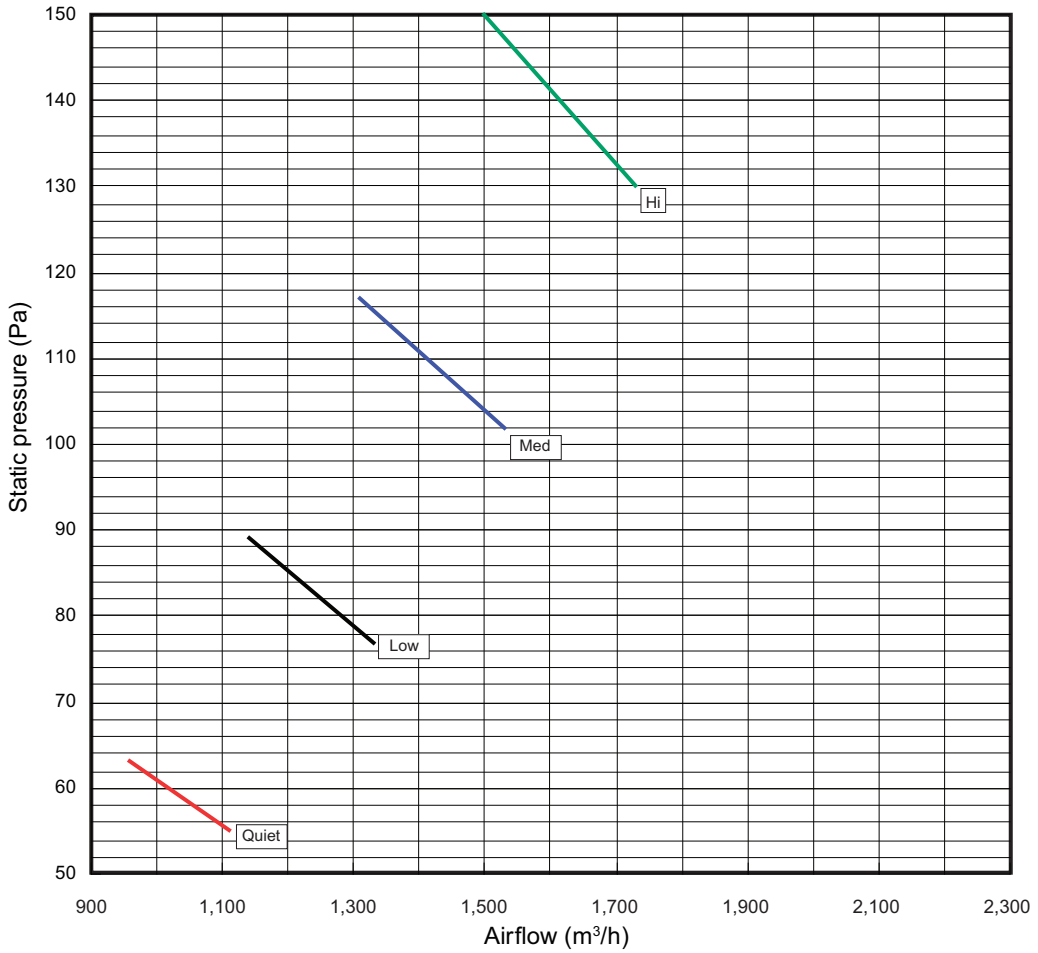


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG36KMLA (Static pressure mode 3)

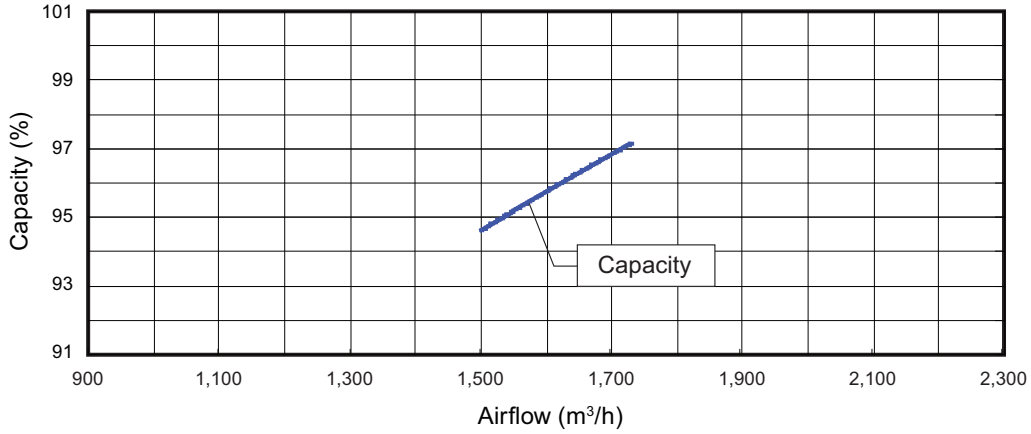
			Static pressure (Pa)							
			55	**63**	**77**	**89**	**102**	**117**	**130**	**150**
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,730	1,500
		l/s	—	—	—	—	—	—	481	417
		CFM	—	—	—	—	—	—	1,018	883
	MED	m3/h	—	—	—	—	1,530	1,310	—	—
		l/s	—	—	—	—	425	364	—	—
		CFM	—	—	—	—	901	771	—	—
	LOW	m3/h	—	—	1,330	1,140	—	—	—	—
		l/s	—	—	369	317	—	—	—	—
		CFM	—	—	783	671	—	—	—	—
	QUIET	m3/h	1,110	960	—	—	—	—	—	—
		l/s	308	267	—	—	—	—	—	—
		CFM	653	565	—	—	—	—	—	—

Q-h Characteristic curve

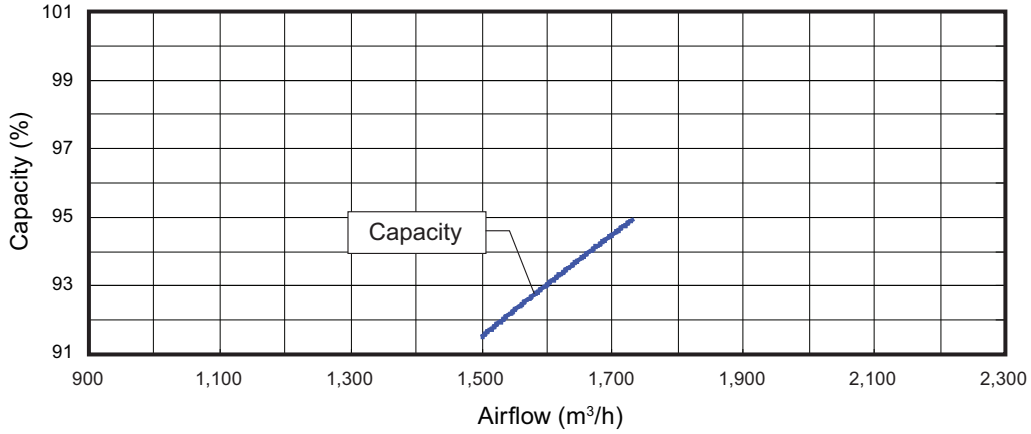


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

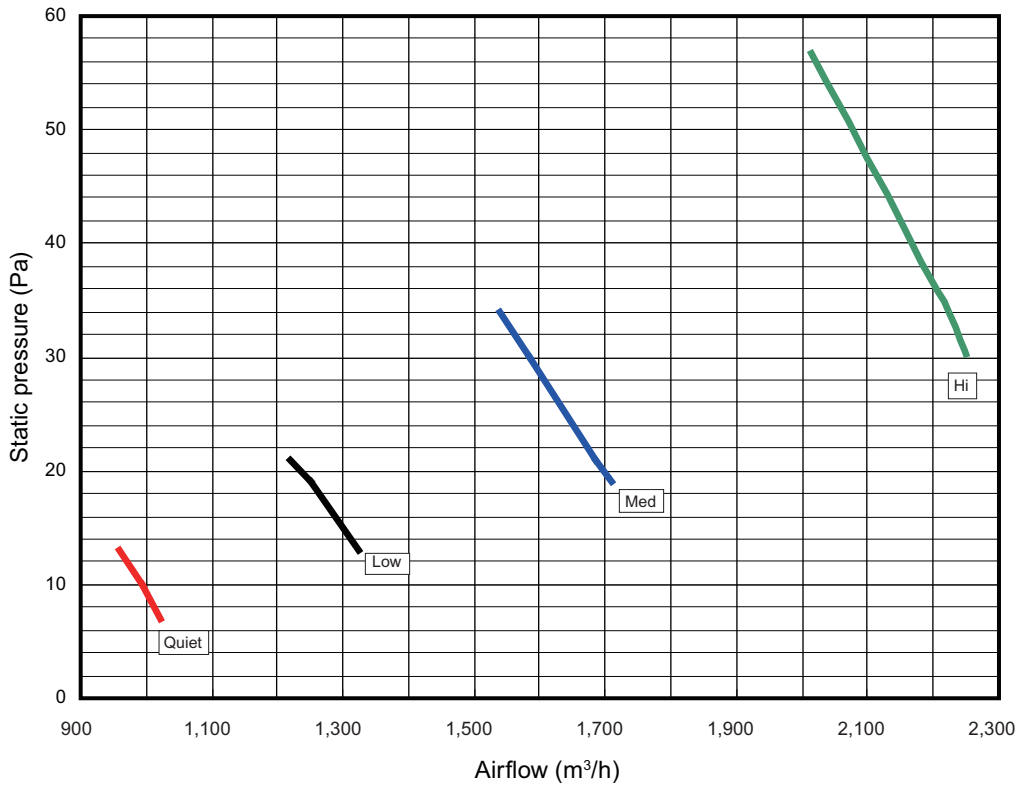


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG45KMLA (Normal mode)

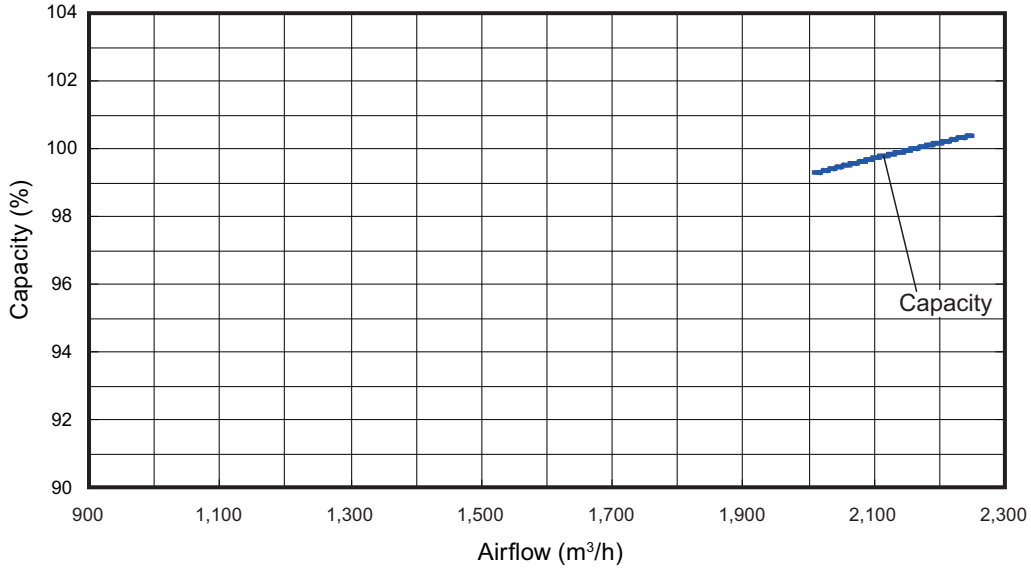
			Static pressure (Pa)							
			7	10	13	19	21	30	34	57
Fan speed	HIGH	m3/h	—	—	—	—	—	2,250	2,223	2,010
		l/s	—	—	—	—	—	625	618	558
		CFM	—	—	—	—	—	1,324	1,308	1,183
	MED	m3/h	—	—	—	1,710	1,685	1,585	1,540	—
		l/s	—	—	—	475	468	440	428	—
		CFM	—	—	—	1,006	992	933	906	—
	LOW	m3/h	—	—	1,325	1,250	1,220	—	—	—
		l/s	—	—	368	347	339	—	—	—
		CFM	—	—	780	736	718	—	—	—
	QUIET	m3/h	1,020	995	960	—	—	—	—	—
		l/s	283	276	267	—	—	—	—	—
		CFM	600	586	565	—	—	—	—	—

Q-h Characteristic curve

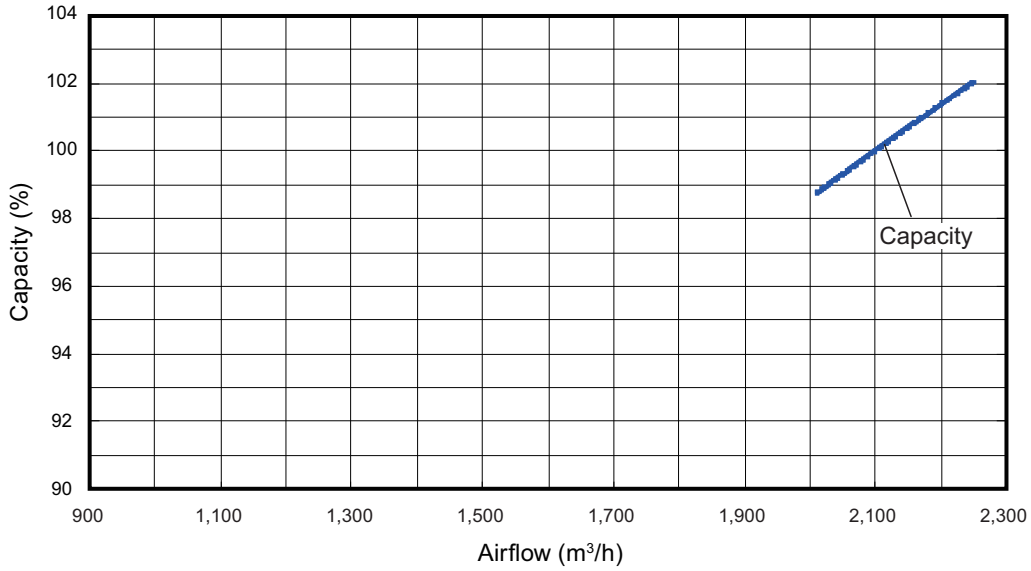


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

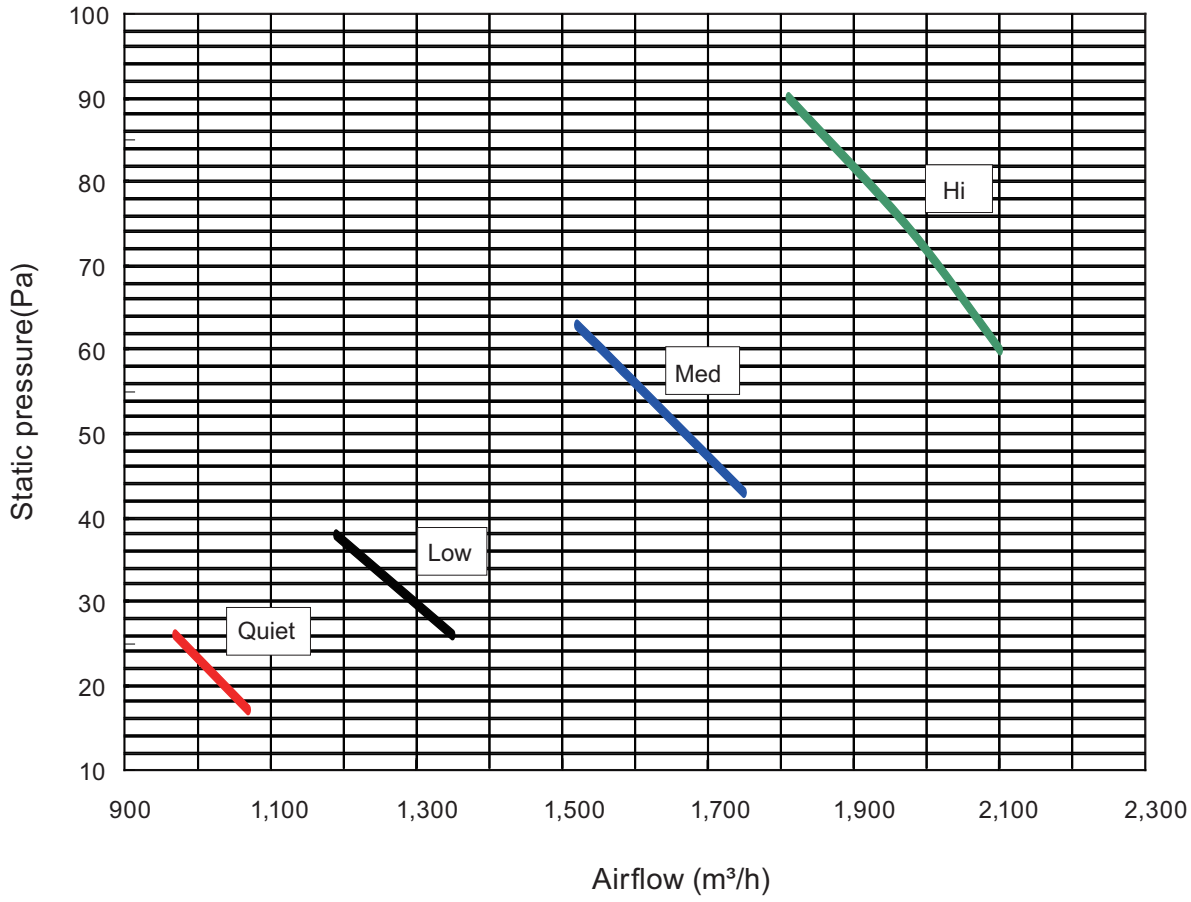


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG45KMLA (Static pressure mode 1)

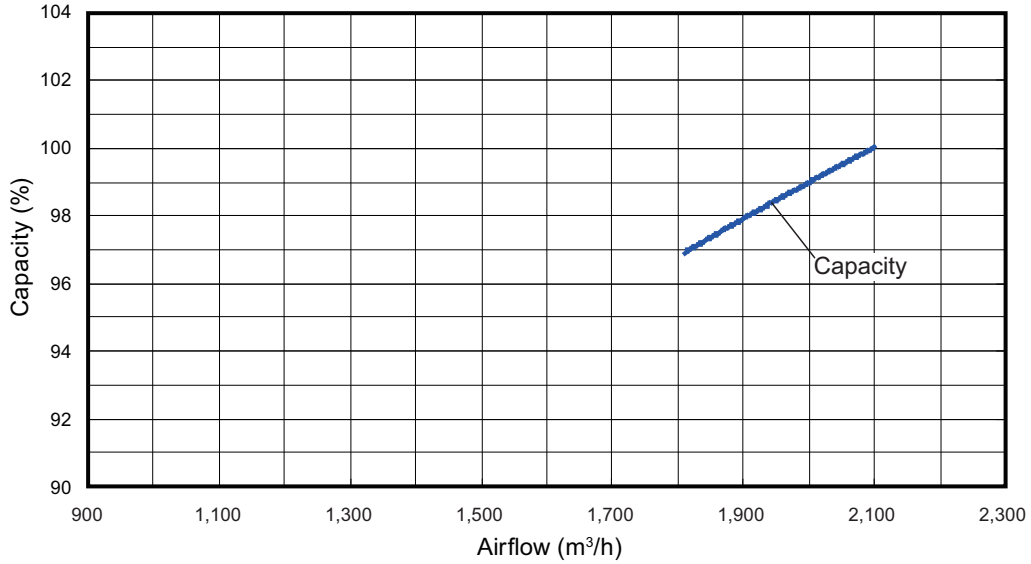
			Static pressure (Pa)							
			17	**26**	**38**	**43**	**60**	**63**	**75**	**90**
Fan speed	HIGH	m3/h	—	—	—	—	2,100	2,075	1,970	1,810
		l/s	—	—	—	—	583	576	547	503
		CFM	—	—	—	—	1,236	1,221	1,159	1,065
	MED	m3/h	—	—	—	1,750	1,555	1,520	—	—
		l/s	—	—	—	486	432	422	—	—
		CFM	—	—	—	1,030	915	895	—	—
	LOW	m3/h	—	1,350	1,190	—	—	—	—	—
		l/s	—	375	331	—	—	—	—	—
		CFM	—	795	700	—	—	—	—	—
	QUIET	m3/h	1,070	970	—	—	—	—	—	—
		l/s	297	269	—	—	—	—	—	—
		CFM	630	571	—	—	—	—	—	—

Q-h Characteristic curve

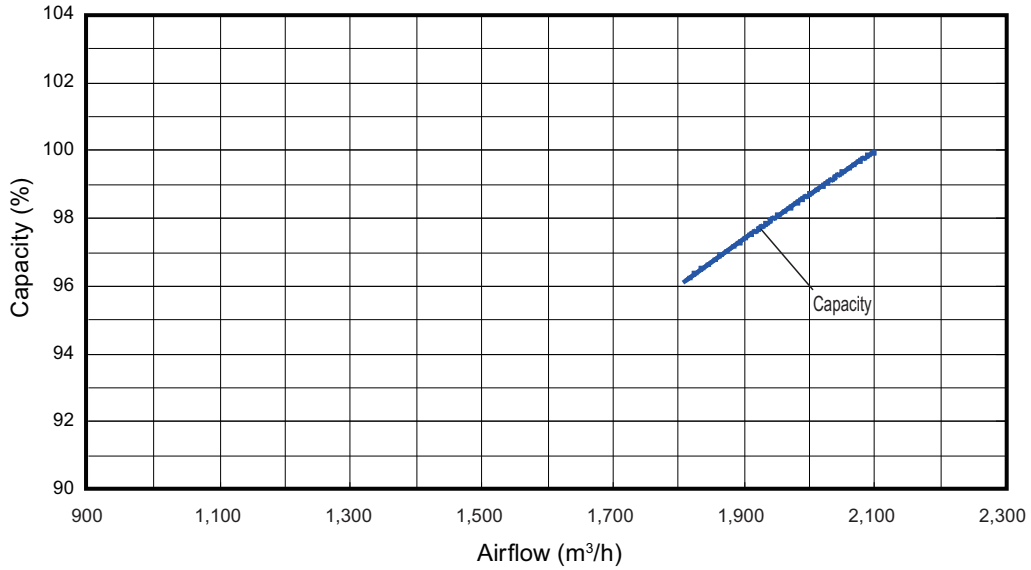


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

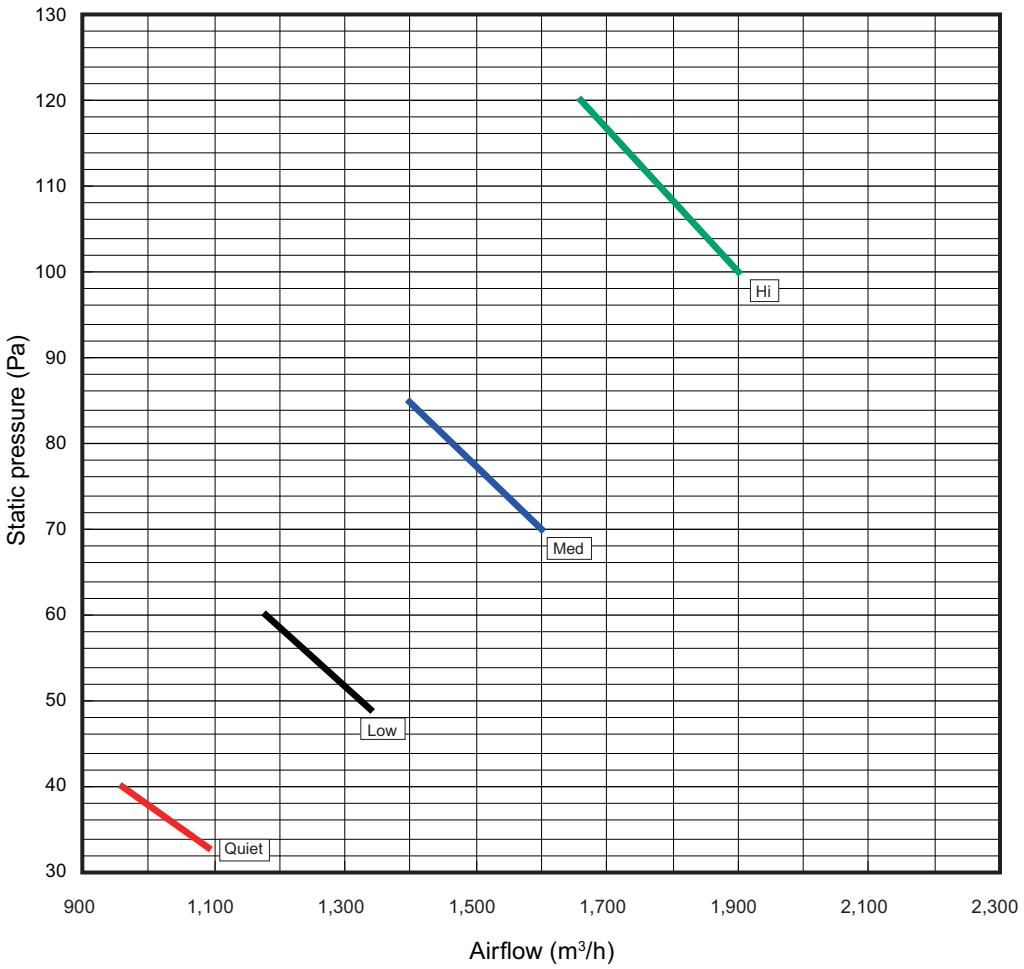


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG45KMLA (Static pressure mode 2)

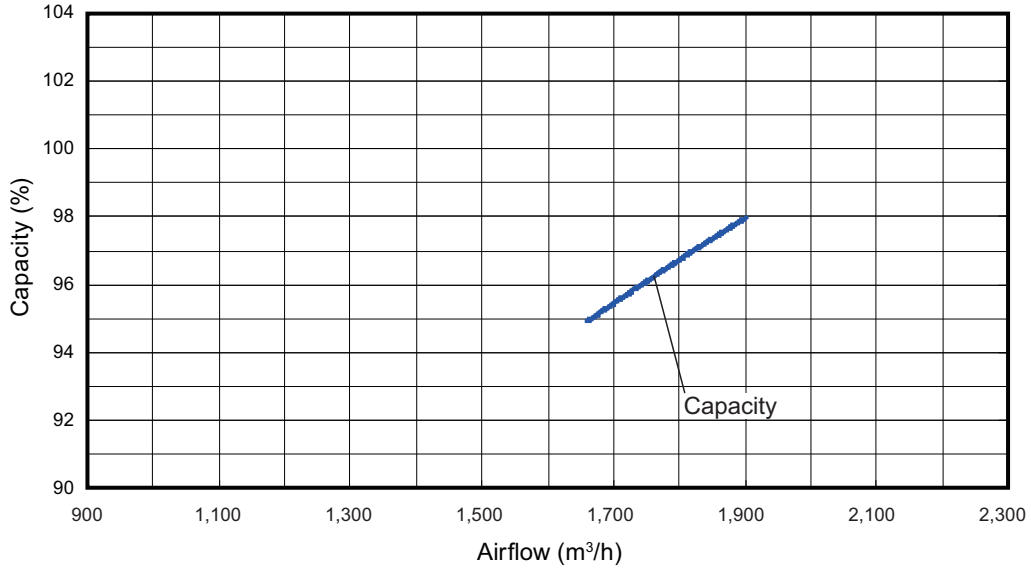
			Static pressure (Pa)							
			33	40	49	60	70	85	100	120
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,900	1,660
		l/s	—	—	—	—	—	—	528	461
		CFM	—	—	—	—	—	—	1,118	977
	MED	m3/h	—	—	—	—	1,600	1,400	—	—
		l/s	—	—	—	—	444	389	—	—
		CFM	—	—	—	—	942	824	—	—
	LOW	m3/h	—	—	1,340	1,180	—	—	—	—
		l/s	—	—	372	328	—	—	—	—
		CFM	—	—	789	695	—	—	—	—
	QUIET	m3/h	1,090	960	—	—	—	—	—	—
		l/s	303	267	—	—	—	—	—	—
		CFM	642	565	—	—	—	—	—	—

Q-h Characteristic curve

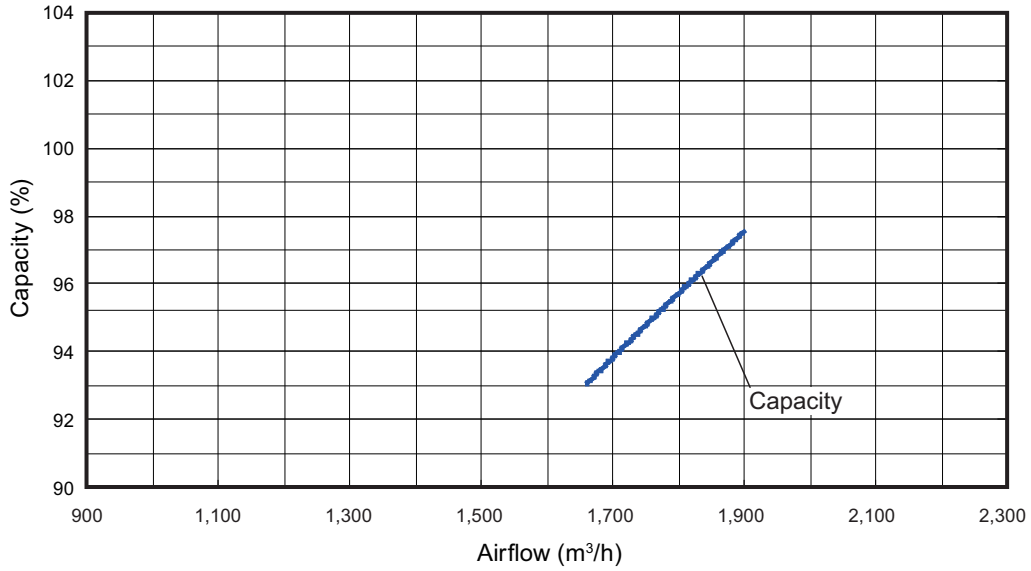


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**

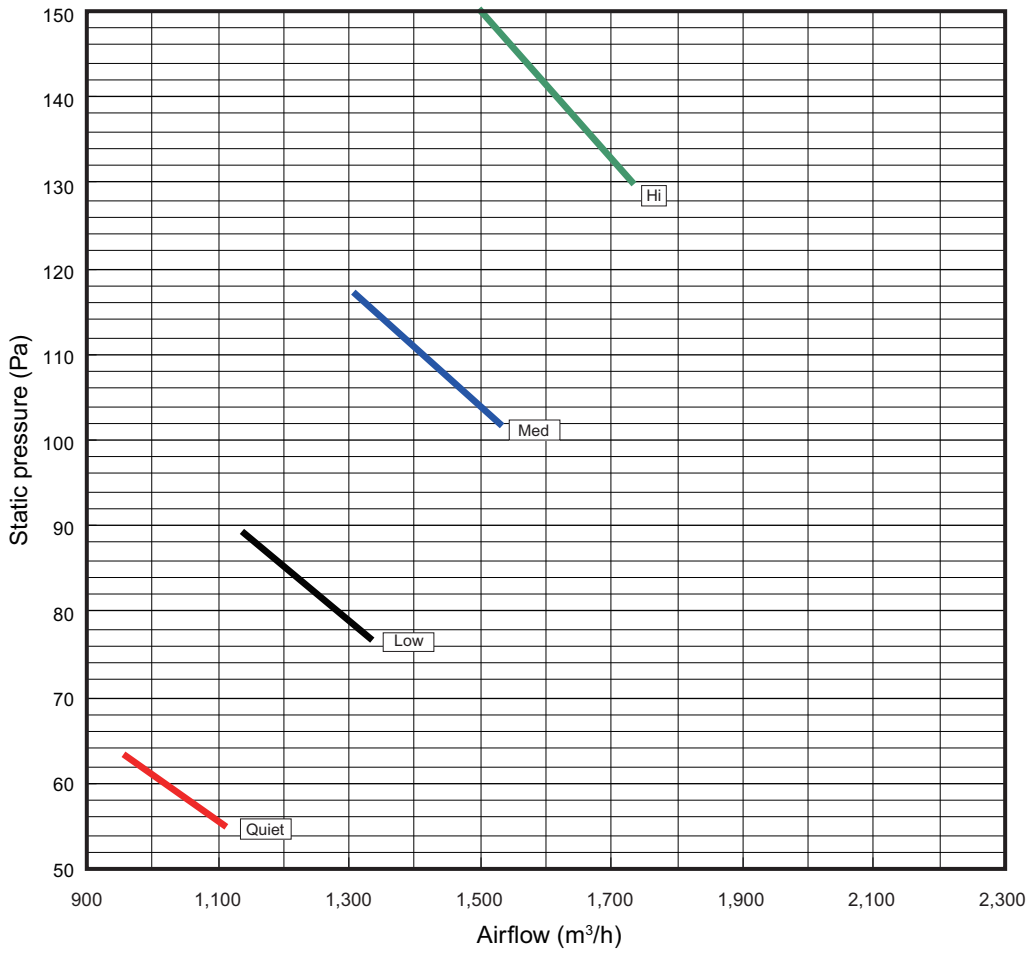


DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG45KMLA (Static pressure mode 3)

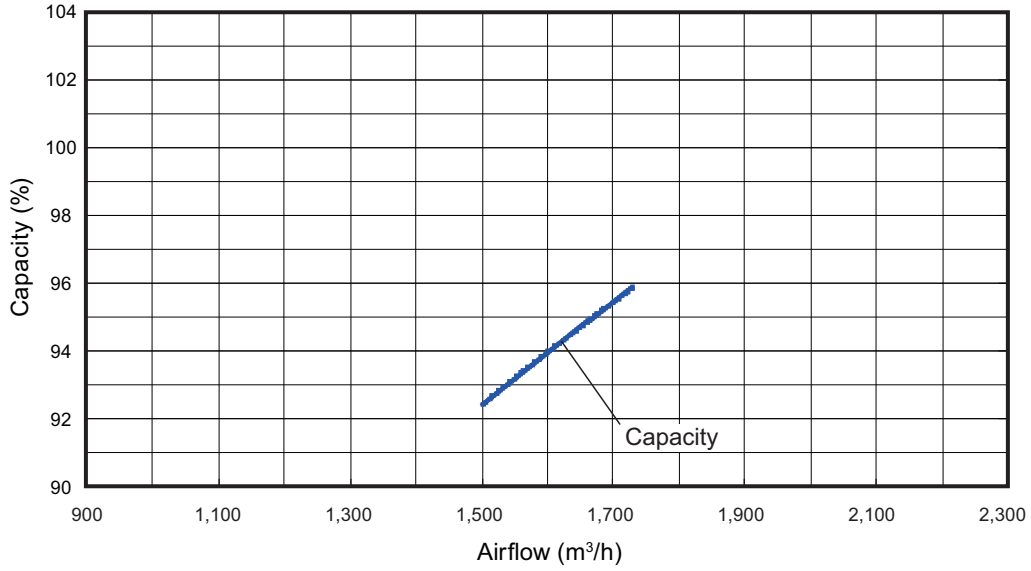
			Static pressure (Pa)							
			55	**63**	**77**	**89**	**102**	**117**	**130**	**150**
Fan speed	HIGH	m3/h	—	—	—	—	—	—	1,730	1,500
		l/s	—	—	—	—	—	—	481	417
		CFM	—	—	—	—	—	—	1,018	883
	MED	m3/h	—	—	—	—	1,530	1,310	—	—
		l/s	—	—	—	—	425	364	—	—
		CFM	—	—	—	—	901	771	—	—
	LOW	m3/h	—	—	1,330	1,140	—	—	—	—
		l/s	—	—	369	317	—	—	—	—
		CFM	—	—	783	671	—	—	—	—
	QUIET	m3/h	1,110	960	—	—	—	—	—	—
		l/s	308	267	—	—	—	—	—	—
		CFM	653	565	—	—	—	—	—	—

Q-h Characteristic curve

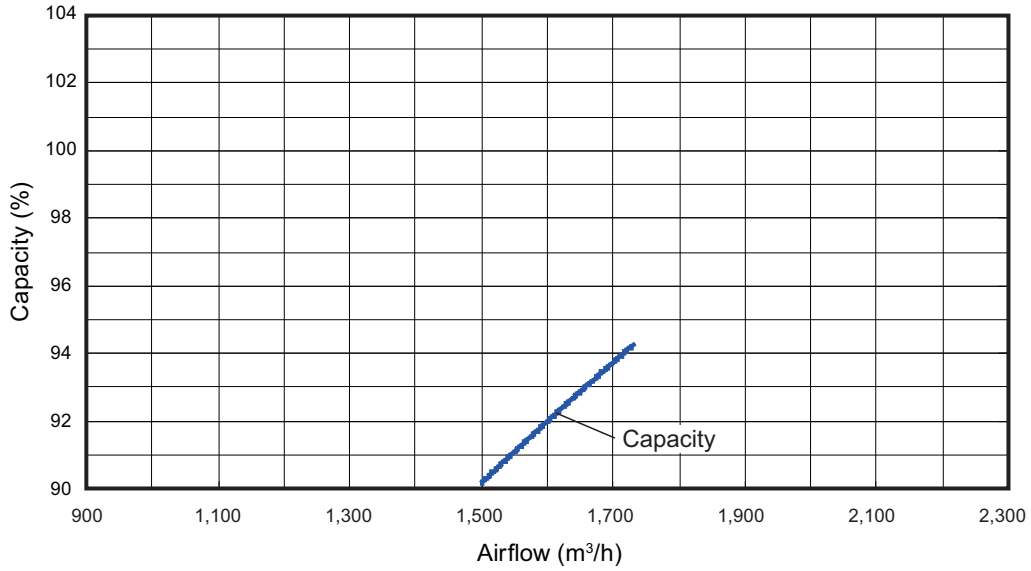


DUCT TYPE
ARXG24-45KMLA

- **Cooling**



- **Heating**



DUCT TYPE
ARXG24-45KMLA

5-2. Airflow

Conversion factor:

- 1 m^3/h = 0.2778 l/s = 0.5886 CFM
- 3.6 m^3/h = 1 l/s
- 1.699 m^3/h = 1 CFM

■ Model: ARXG24KMLA

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	1,100
	l/s	306
	CFM	647
MED	m^3/h	910
	l/s	253
	CFM	536
LOW	m^3/h	750
	l/s	208
	CFM	441
QUIET	m^3/h	580
	l/s	161
	CFM	341

● Heating

Fan speed	Airflow	
HIGH	m^3/h	1,100
	l/s	306
	CFM	647
MED	m^3/h	910
	l/s	253
	CFM	536
LOW	m^3/h	750
	l/s	208
	CFM	441
QUIET	m^3/h	580
	l/s	161
	CFM	341

DUCT TYPE
ARXG24-45KMLA

■ Models: ARXG30KMLA and ARXG36KMLA

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	1,900
	l/s	528
	CFM	1,118
MED	m^3/h	1,620
	l/s	450
	CFM	954
LOW	m^3/h	1,270
	l/s	353
	CFM	748
QUIET	m^3/h	980
	l/s	272
	CFM	577

● Heating

Fan speed	Airflow	
HIGH	m^3/h	2,100
	l/s	583
	CFM	1,236
MED	m^3/h	1,620
	l/s	450
	CFM	954
LOW	m^3/h	1,270
	l/s	353
	CFM	748
QUIET	m^3/h	980
	l/s	272
	CFM	577

DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG45KMLA

● Cooling

Fan speed	Airflow	
HIGH	m^3/h	2,100
	l/s	583
	CFM	1,236
MED	m^3/h	1,750
	l/s	486
	CFM	1,030
LOW	m^3/h	1,350
	l/s	375
	CFM	795
QUIET	m^3/h	1,070
	l/s	297
	CFM	630

● Heating

Fan speed	Airflow	
HIGH	m^3/h	2,100
	l/s	583
	CFM	1,236
MED	m^3/h	1,750
	l/s	486
	CFM	1,030
LOW	m^3/h	1,350
	l/s	375
	CFM	795
QUIET	m^3/h	1,070
	l/s	297
	CFM	630

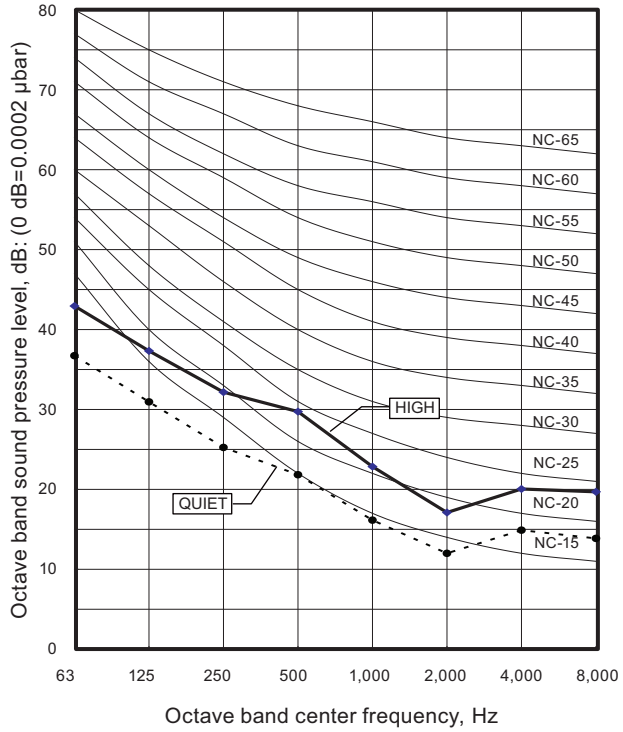
DUCT TYPE
ARXG24-45KMLA

6. Operation noise (sound pressure)

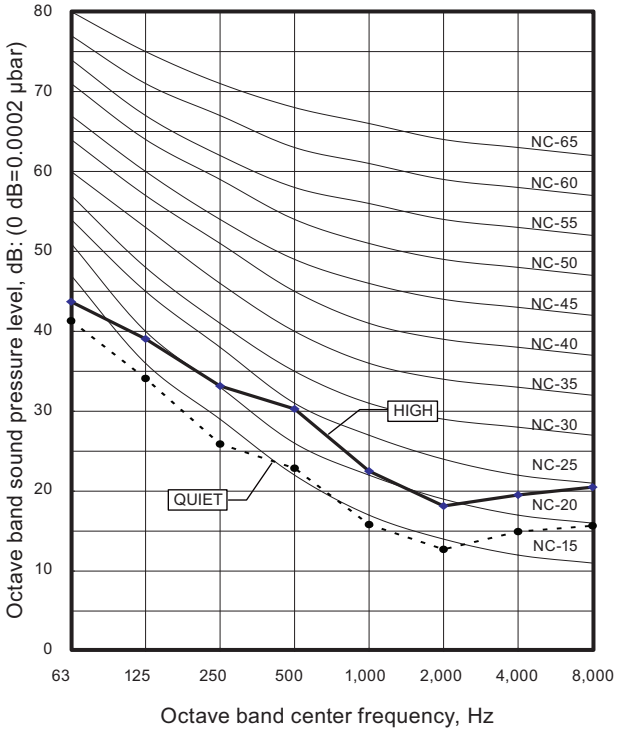
6-1. Noise level curve

■ Model: ARXG24KMLA

● Cooling

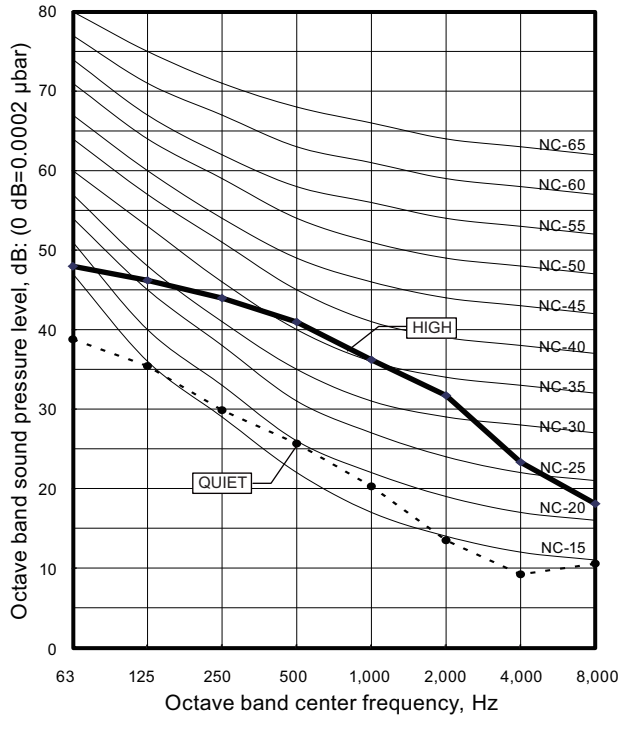


● Heating

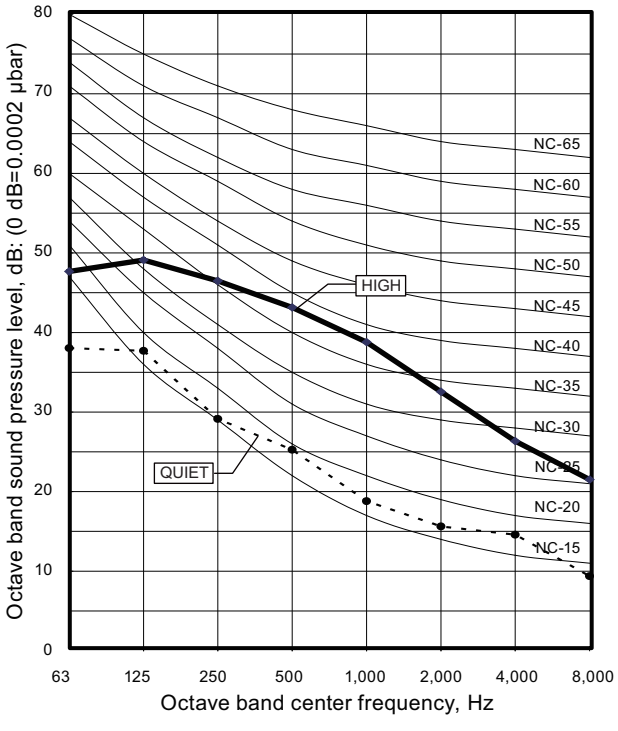


■ Model: ARXG30KMLA

● Cooling



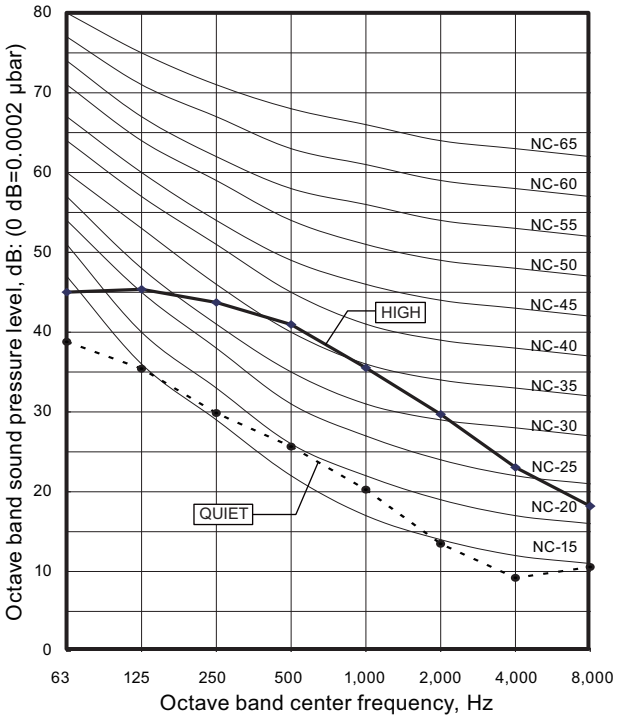
● Heating



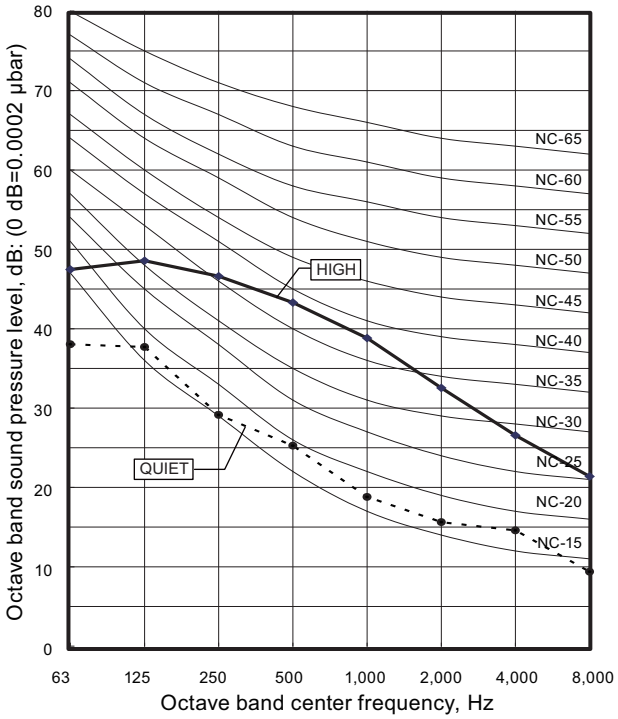
DUCT TYPE
ARXG24-45KMLA

■ Model: ARXG36KMLA

● Cooling

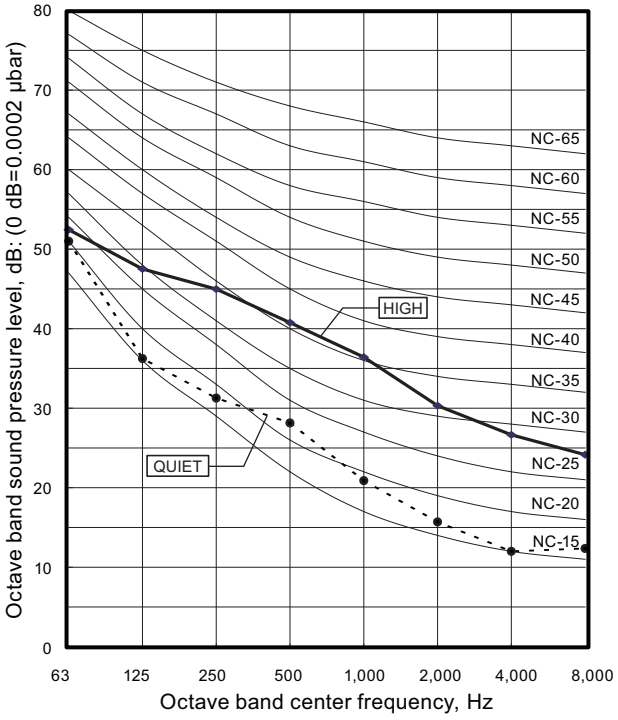


● Heating

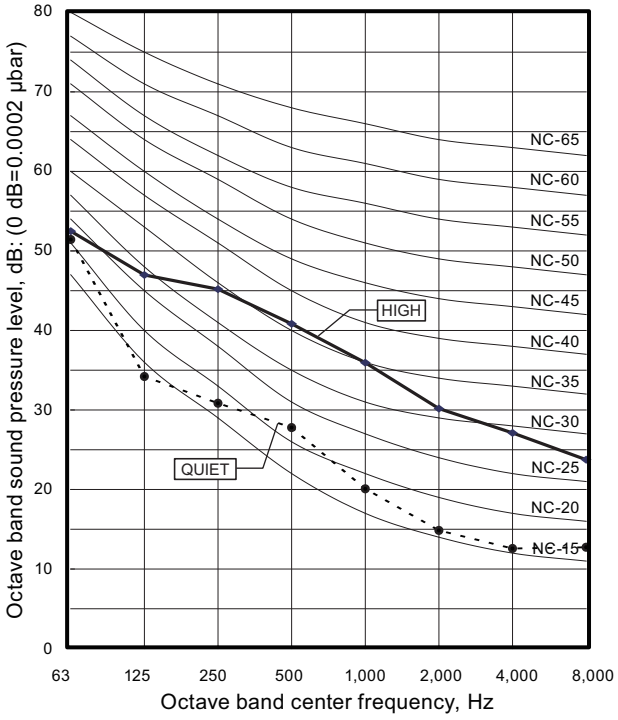


■ Model: ARXG45KMLA

● Cooling

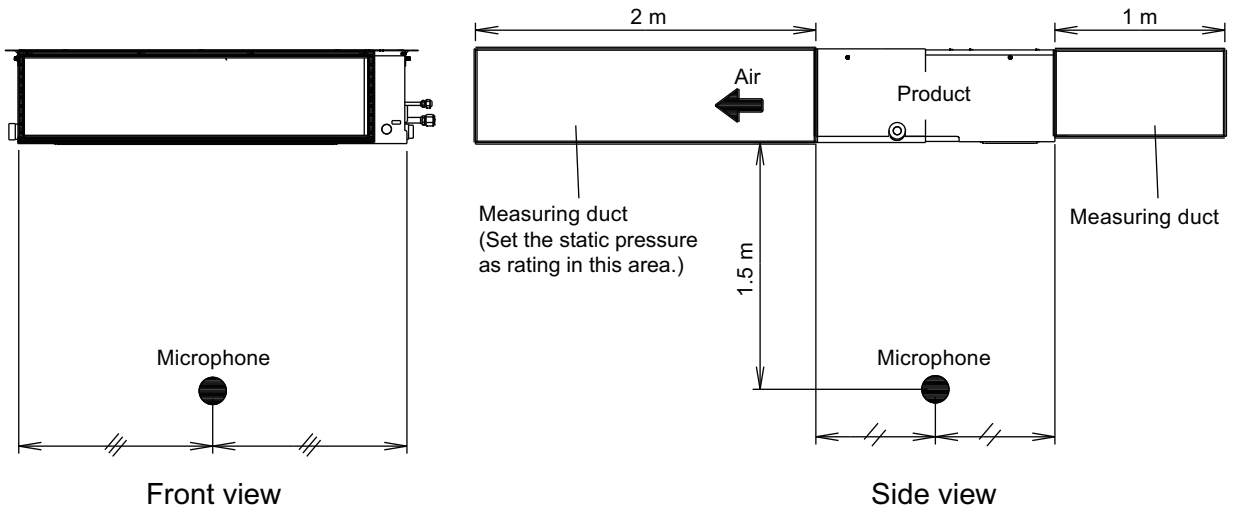


● Heating



DUCT TYPE
ARXG24-45KMLA

6-2. Sound level check point



Front view

Side view

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

DUCT TYPE
ARXG24-45KMLA

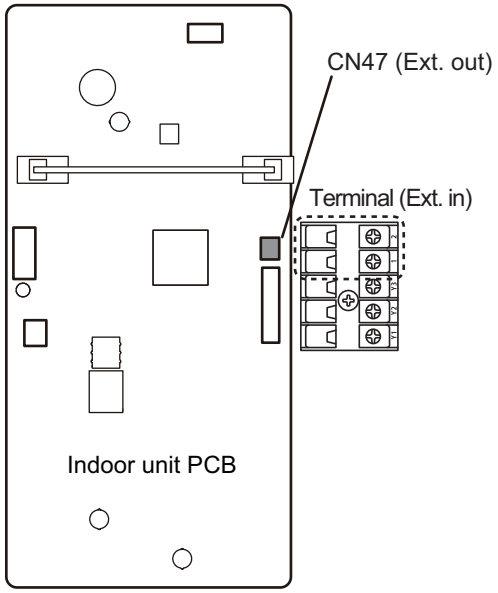
7. Safety devices

Type of protection	Protection form		Model	
			AOYG24KATA	AOYG30KATA AOYG36KATA AOYG45KATA
Circuit protection	Current fuse (PCB*)		250 V, 5 A	
Fan motor protection	Thermal protection program	Activate	135 ±15 °C Fan motor stop	115 ±15 °C Fan motor stop
		Reset	115 ±15 °C Fan motor restart	70 °C Fan motor restart

*: Printed Circuit Board

DUCT TYPE
ARXG24-45KMLA

8. External input and output

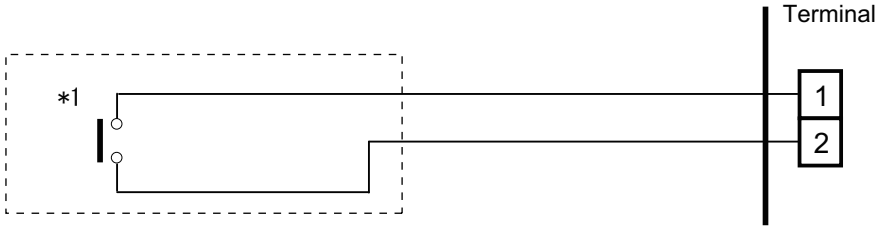


External input and output		Connector	Input select	Input signal	External Connect Kit (Optional part)
External input	Operation/Stop Forced stop	Terminal	Dry contact	Edge	—
External output	Operation status	CN47	—	—	UTY-XWZXZG
	Error status				
	Indoor unit fan operation status				
	External heater output				

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 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.

DUCT TYPE
ARXG24-45KMLA

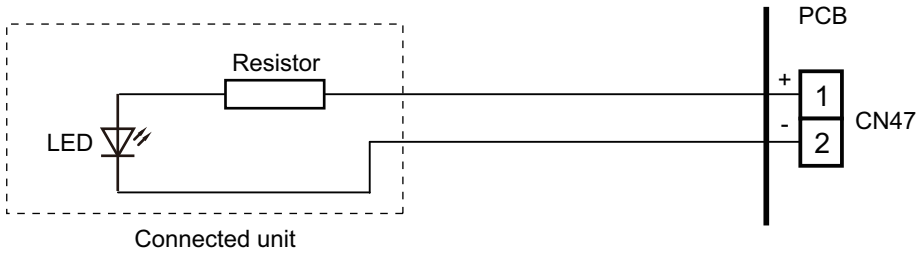
8-2. External output

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

- A twisted pair cable (22AWG) should be used. Maximum length of cable is 25 m.
- Output voltage: High DC 12 V ± 2 V, Low 0 V.
- Permissible current: 50 mA
- For details, refer to "Combination of external input and output" on page 52.

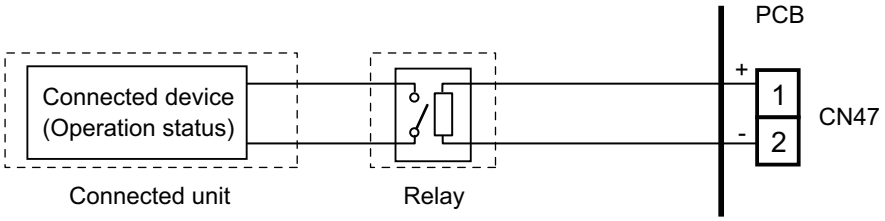
● When indicator, etc. are connected directly

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"



DUCT TYPE
ARXG24-45KMLA

8-3. Combination of external input and output

By combining the function setting of the indoor unit, you can select various combinations of functions.

Combination examples of external input and output are as follows:

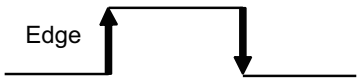
Mode	Function setting	External input	External output
		Terminal	CN47
0	60—00	Operation/Stop	
1—8	60—01 to 60—08	(Setting prohibited)	
9	60—09	Operation/Stop	Error status
10	60—10	Operation/Stop	Indoor unit fan operation status
11	60—11	Operation/Stop	External heater output

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

- 00: Operation/Stop mode 1 (Remote controller enabled)
- 01: (Setting prohibited)
- 02: Forced stop
- 03: Operation/Stop mode 2 (Remote controller disabled)

■ Input signal type

- Indoor unit
  Input signal type is only "Edge".



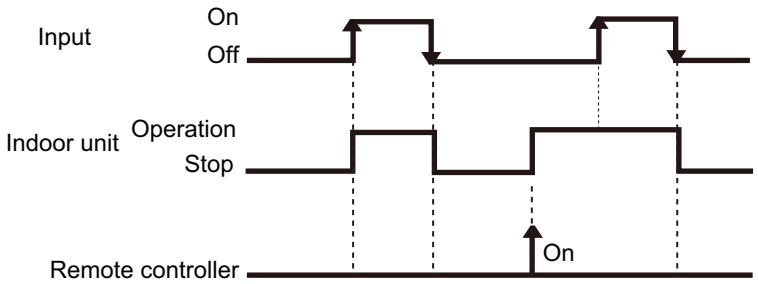
DUCT TYPE
ARXG24-45KMLA

8-4. Details of control output function

■ Control input function

- **When function setting is "Operation/Stop" mode 1**

Function setting	External input	Input signal	Command
46—00	Terminal	Off → On	Operation
		On → Off	Stop

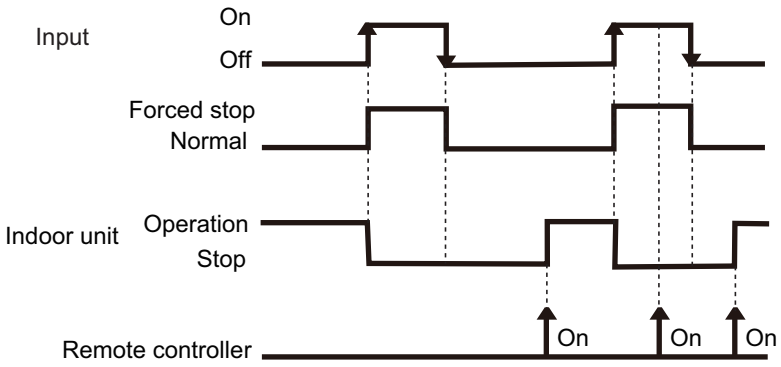


NOTES:

- 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**

Function setting	External input	Input signal	Command
46—02	Terminal	Off → On	Forced stop
		On → Off	Normal



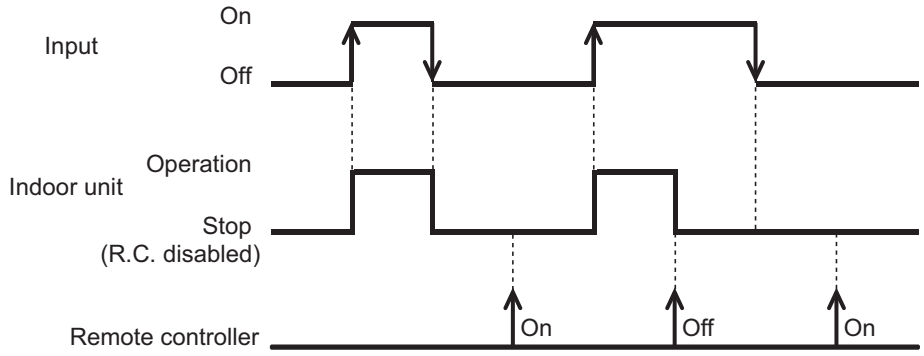
NOTES:

- 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.

DUCT TYPE
ARXG24-45KMLA

- **When function setting is "Operation/Stop" mode 2**

Function setting	External input	Input signal	Command
46—03	Terminal	Off → On	Operation
		On → Off	Stop (Remote controller disabled)

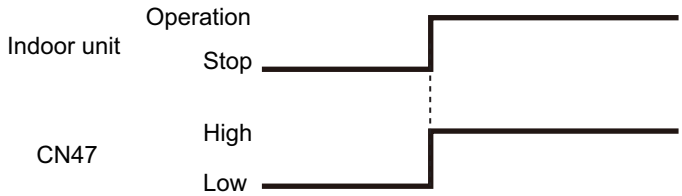


NOTE: When "Operation/Stop" mode 2 function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.

■ Control output function

Function setting	External output	Output signal	Command
60—00	CN47	Low → High	Operation
		High → Low	Stop

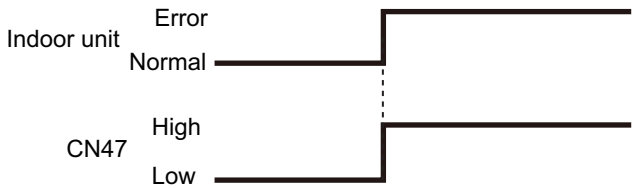
The output is low when the unit is stopped.



■ Error status

Function setting	External output	Output signal	Command
60—09	CN47	Low → High	Error
		High → Low	Normal

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

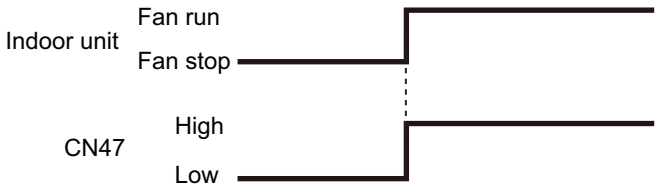


DUCT TYPE
ARXG24-45KMLA

■ Indoor unit fan operation status

Function setting	External output	Output signal	Command
60—10	CN47	Low → High	Fan run
		High → Low	Fan stop

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



■ External heater output

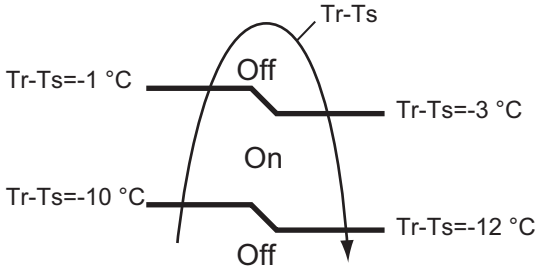
Function setting	External output	Output signal	Command
60—11	CN47	Low → High	Heater on
		High → Low	Heater off

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

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

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

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



The output also turns off in defrost operation.

DUCT TYPE
ARXG24-45KMLA

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

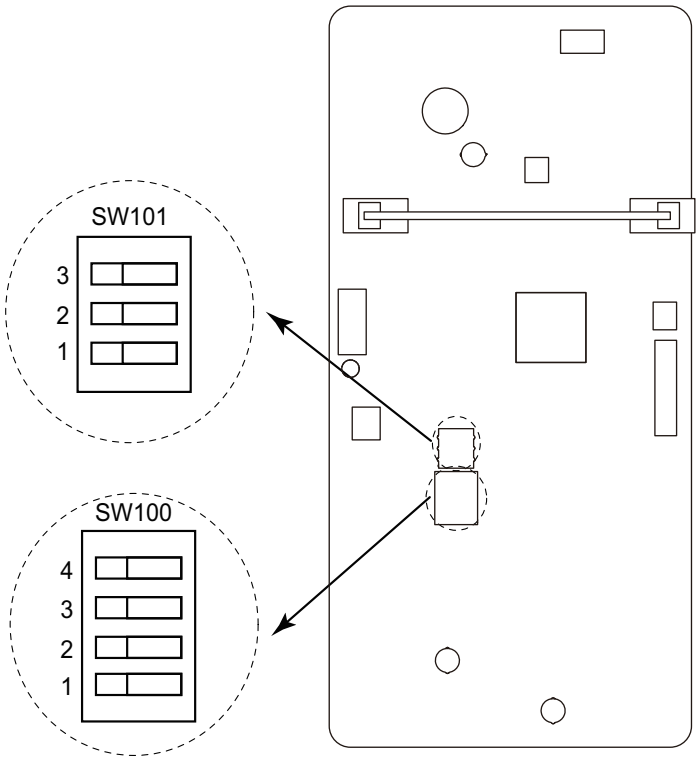
By using some components on the PCB, you can change the function settings.

Related components on the PCB and the applicable settings:

Component			Setting content
DIP switch	SW100	1	Remote controller address setting
		2	
		3	
		4	
	SW101	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.

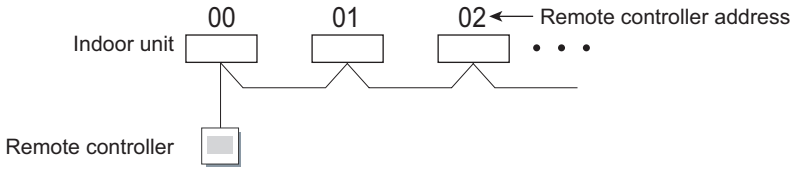


DUCT TYPE
ARXG24-45KMLA

■ DIP switch setting

- **SW100: Remote controller address setting**
  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.
  The slide switches are normally set to make the unit number 00.

Remote controller address	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	



- **SW101-Switch 1: Setting change prohibited**

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

- **SW101-Switch 3: Fan delay setting**
  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	♦

DUCT TYPE
ARXG24-45KMLA

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)	21	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)	44	Remote controller custom code
8)	46	External input control
9)	48	Room temperature sensor switching (Aux.)
10)	49	Indoor unit fan control for energy saving for cooling
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
21	00	Normal	♦
	01	High static pressure 1	
	02	High static pressure 2	
	03	High static pressure 3	

DUCT TYPE
ARXG24-45KMLA

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		

DUCT TYPE
ARXG24-45KMLA

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.

DUCT TYPE
ARXG24-45KMLA

7) Remote controller custom code

(Only for wireless remote controller)

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

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

8) External input control

“Operation/Stop” mode or “Forced stop” mode can be selected.

Function number	Setting value	Setting description	Factory setting
46	00	Operation/Stop mode 1 (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.

DUCT TYPE
ARXG24-45KMLA

11) Switching functions for external output terminal

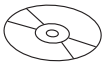
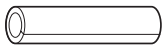
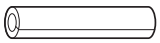
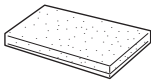
Functions of the external output terminal can be switched. For details, refer to “External input and output”.

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	

DUCT TYPE
ARXG24-45KMLA

10. Accessories

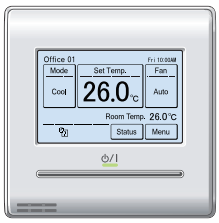
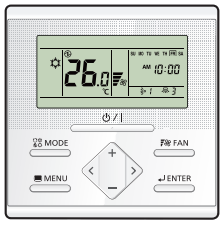
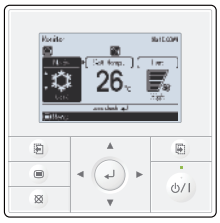
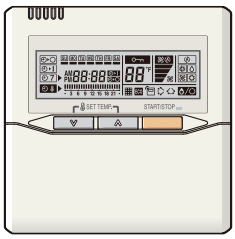
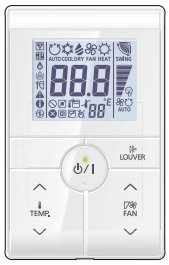
10-1. Models: ARXG24KMLA, ARXG30KMLA, ARXG36KMLA, and ARXG45KMLA

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Cable tie (medium)		1
Operation manual (CD-ROM)		1	Cable tie (small)		1
Installation manual		1	Coupler heat insulation (large)		1
Hanger		4	Coupler heat insulation (small)		1
Drain hose insulation		1	M10 nut A (with flange)		4
Cable tie (large)		1	M10 nut B (with spring lock washer)		4

DUCT TYPE
ARXG24-45KMLA

11. Optional parts

11-1. 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
	Wired Remote Controller	UTY-RVNYM	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-RNNYM	Room temperature can be controlled by detecting the temperature accurately with thermo sensor. Wire type: Polar 3-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
	Simple Remote Controller	UTY-RSNYM	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Polar 3-wire

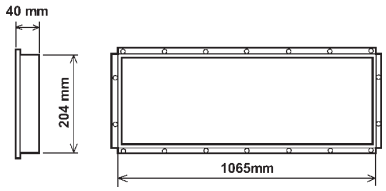
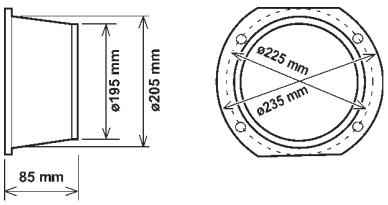
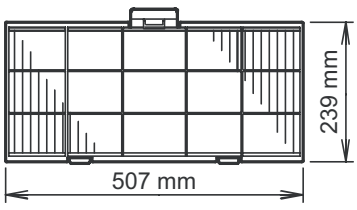
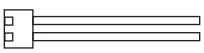
DUCT TYPE
ARXG24-45KMLA

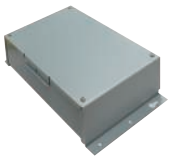
Exterior	Part name	Model name	Summary
	IR Receiver Kit with Wireless Remote Controller	UTY-LBTYM	Unit control is performed by Wireless Remote Controller

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.

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.
	Square Flange	UTD-SF045T	Both the Square Flange and the Round Flange can be selected.
	Round Flange	UTD-RF204	Round Flange is used when the fresh-air duct is installed.
	Long-life Filter	UTD-LF25NA	Long-life Filter can be mounted to the indoor unit.
	Drain Pump Unit	UTZ-PX1NBA	Optional drain lift up mechanism allows more flexible installation.
	External Connect Kit	UTY-XWZXZG	Use to connect with various peripheral devices and air conditioner PCB. For control output port.

Exterior	Part name	Model name	Summary
	WLAN Adapter	UTY-TFSXZ1	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.
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network.
	KNX Convertor	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network.
	Network Converter	UTY-VTGX	This converter is required when connecting single split system to VRF network system.
	Network Converter (AC power supply)	UTY-VTGXV	This converter is required when connecting single split system to VRF network system.
	External Switch Controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches.

NOTE: Combined use of following optional parts and WLAN Adapter (UTY-TFSXZ1) is not allowed.

- Modbus Converter
- KNX Convertor

DUCT TYPE
ARXG24-45KMLA

Part 2. OUTDOOR UNIT

SINGLE TYPE:

AOYG24KATA
AOYG30KATA
AOYG36KATA
AOYG45KATA

1. Specifications

Type				Inverter heat pump
Model name				**AOYG24KATA**
Power supply				230 V ~ 50 Hz
Power supply intake				Outdoor unit
Available voltage range				198—264 V
Starting current			A	9.7
Fan	Airflow rate	Cooling	m^3/h	2,885
		Heating		2,350
	Type × Qty			Propeller × 1
	Motor output		W	49
Sound pressure level *1		Cooling	dB (A)	54
		Heating		55
Sound power level		Cooling	dB (A)	66
		Heating		67
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 588 × 881 × 18.19 Main2: 588 × 851 × 18.19
		Fin pitch		Main1: 1.3 Main2: 1.3
		Rows × Stages		Main1: 1 × 28 Main2: 1 × 28
		Pipe type		Copper
		Fin	Type (Material)	Aluminum
			Surface treatment	PC fin
Compressor	Type × Qty			DC Twin rotary × 1
	Motor output		W	1,060
Refrigerant		Type (Global warming potential)		R32 (675)
		Factory charge	g	1,250
Refrigerant oil		Type		RmM68AF
		Amount	cm^3	400
Enclosure		Material		Steel sheet
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0
Dimensions (H × W × D)	Net		mm	632 × 799 × 290
	Gross			692 × 940 × 375
Weight	Net		kg	38
	Gross			42
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø 1/4)
		Gas		Ø 12.70 (Ø 1/2)
	Method			Flare
	Pre-charge length		m	20
	Max. length			25
	Max. height difference			20
Operation range		Cooling	°C	-10 to 46
		Heating		-15 to 24
Drain hose		Material		Polypropylene
		Size	mm	Ø13.0 (I. D.), Ø16.0 to Ø16.8 (O. D.)

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 20 °CDB/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
  - 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.

OUTDOOR UNIT
AOYG24-45KATA

Type				Inverter heat pump	
Model name				**AOYG30KATA**	**AOYG36KATA**
Power supply				230 V ~ 50 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—264 V	
Starting current			A	12.3	13.8
Fan	Airflow rate	Cooling	m^3/h	3,750	
		Heating		3,750	
	Type × Qty			Propeller × 1	
	Motor output		W	100	
Sound pressure level *1		Cooling	dB (A)	53	55
		Heating		55	
Sound power level		Cooling	dB (A)	68	70
		Heating		69	70
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 756 × 905 × 18.19 Main2: 756 × 905 × 18.19	
		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 × Qty			DC Twin rotary × 1	
	Motor output		W	1,500	
Refrigerant		Type (Global warming potential)		R32 (675)	
		Factory charge	g	1,900	
Refrigerant oil		Type		FW68D	
		Amount	cm^3	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	52	
	Gross			61	
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (Ø 3/8)	
		Gas		Ø 15.88 (Ø 5/8)	
	Method			Flare	
	Pre-charge length		m	30	
	Max. length			30	
	Max. height difference			30	
Operation range		Cooling	°C	-10 to 46	
		Heating		-15 to 24	
Drain hose		Material		Low-density polyethylene	
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (O. D.)	

NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.
  - Pipe length: 5.0 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
  - 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.

OUTDOOR UNIT
AOYG24-45KATA

Type				Inverter heat pump
Model name				**AOYG45KATA**
Power supply				230 V ~ 50 Hz
Power supply intake				Outdoor unit
Available voltage range				198—264 V
Starting current			A	21.3
Fan	Airflow rate	Cooling	m^3/h	4,450
		Heating		4,450
	Type × Qty			Propeller × 1
	Motor output		W	120
Sound pressure level *1		Cooling	dB (A)	58
		Heating		59
Sound power level		Cooling	dB (A)	72
		Heating		73
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 966 × 905 × 18.19 Main2: 966 × 905 × 18.19
		Fin pitch		Main1: 1.45 Main2: 1.45
		Rows × Stages		Main1: 1 × 46 Main2: 1 × 46
		Pipe type		Copper
		Fin	Type (Material)	Aluminum
			Surface treatment	Blue fin
Compressor	Type × Qty			DC Twin rotary × 1
	Motor output		W	1,830
Refrigerant		Type (Global warming potential)		R32 (675)
		Factory charge	g	2,400
Refrigerant oil		Type		RmM68AF
		Amount	cm^3	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	61
	Gross			71
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (Ø 3/8)
		Gas		Ø 15.88 (Ø 5/8)
	Method			Flare
	Pre-charge length		m	30
	Max. length			30
	Max. height difference			30
Operation range		Cooling	°C	-10 to 46
		Heating		-15 to 24
Drain hose		Material		Low-density polyethylene
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (O. D.)

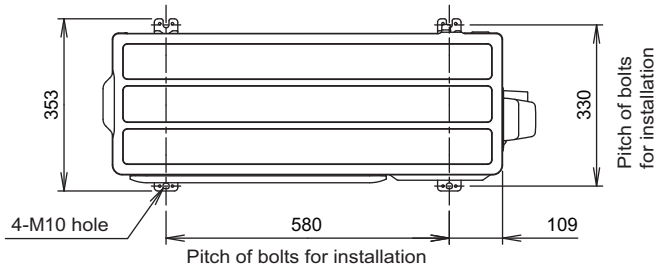
NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.
  - Pipe length: 5.0 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
  - 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.

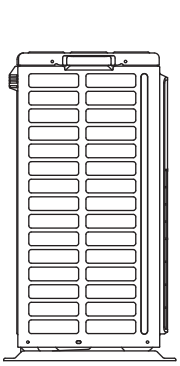
2. Dimensions

2-1. Model: AOYG24KATA

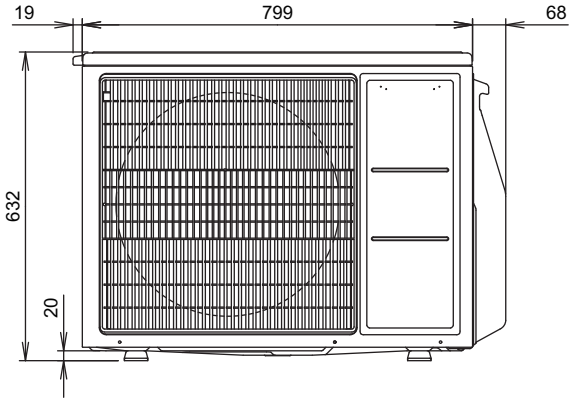
Unit: mm



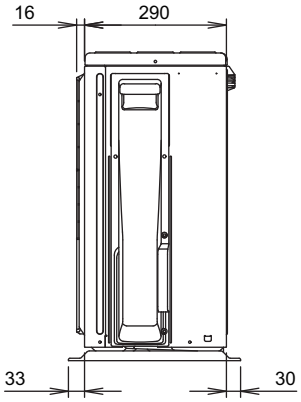
Top view



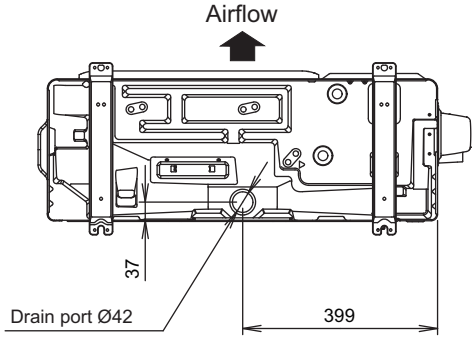
Side view



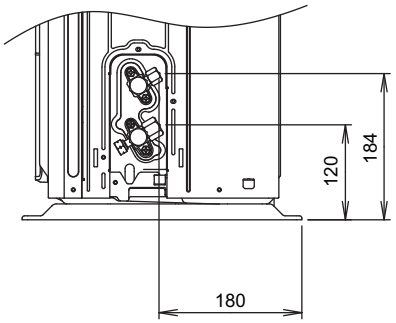
Front view



Side view



Bottom view

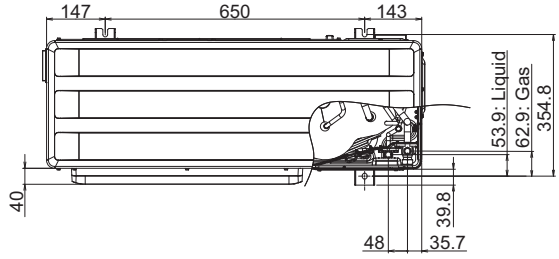


Side view (Valve part)

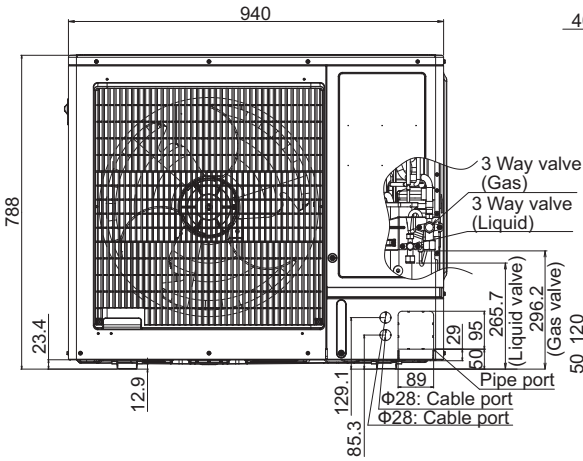
OUTDOOR UNIT
AOYG24-45KATA

2-2. Models: AOYG30KATA and AOYG36KATA

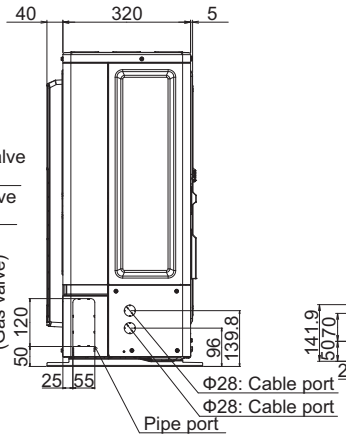
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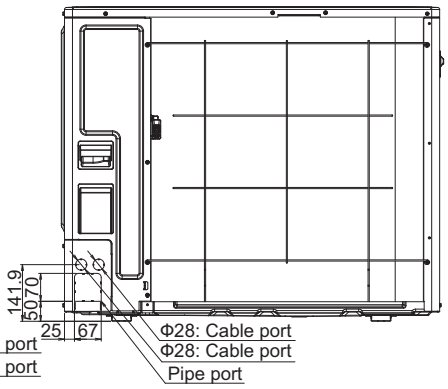
Top view



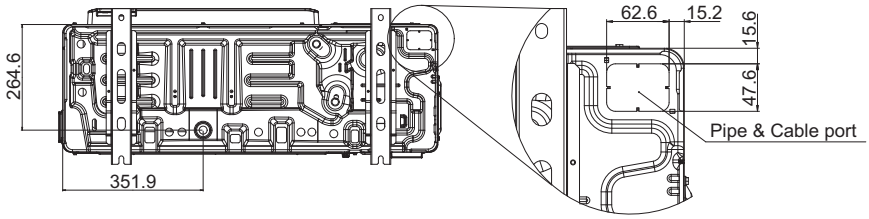
Front view



Side view



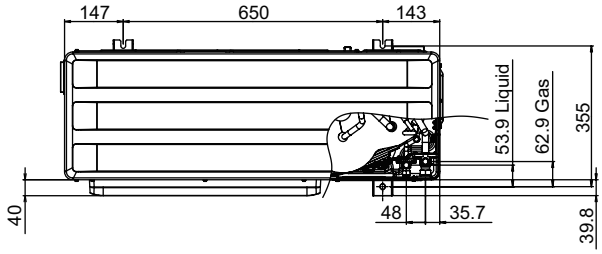
Rear view



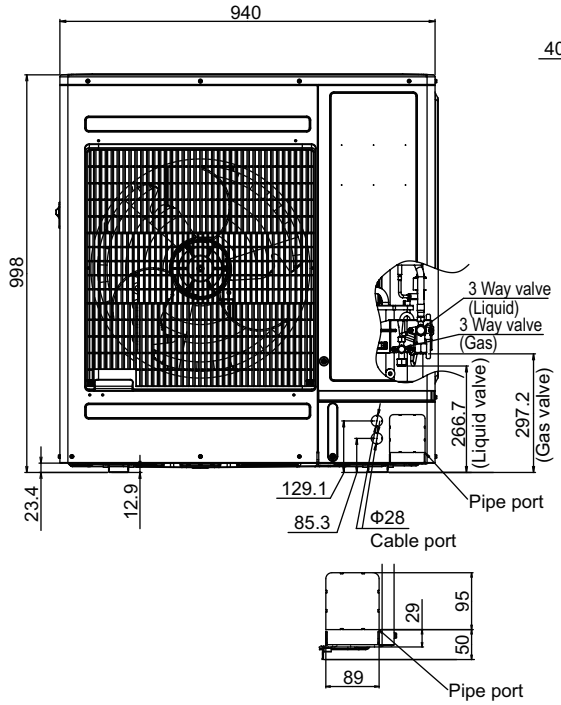
Bottom view

2-3. Model: AOYG45KATA

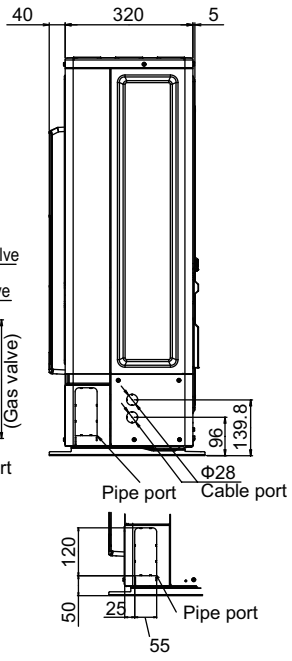
Unit: mm



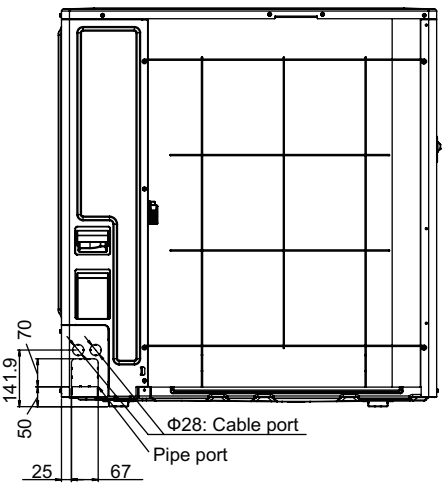
Top view



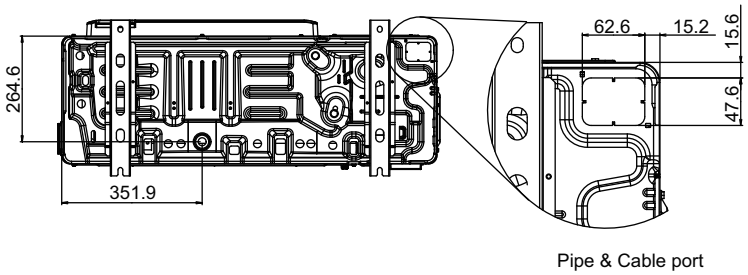
Front view



Side view



Rear view



Bottom view

OUTDOOR UNIT
AOYG24-45KATA

3. Installation space

3-1. Model: AOYG24KATA

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

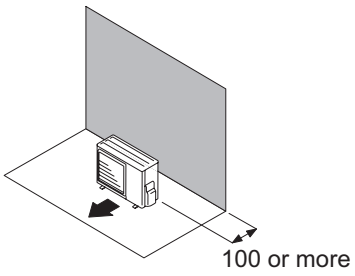
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

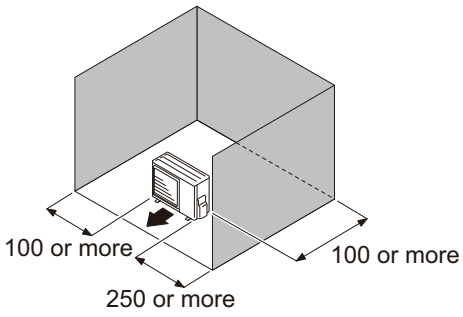
- **When the upper space is open:**

Unit: mm

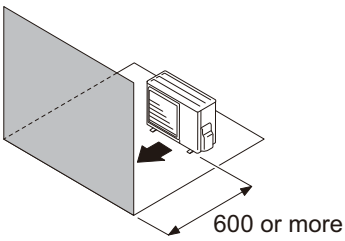
Obstacles at rear only



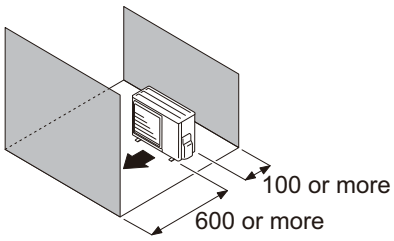
Obstacles at rear and sides



Obstacles at front



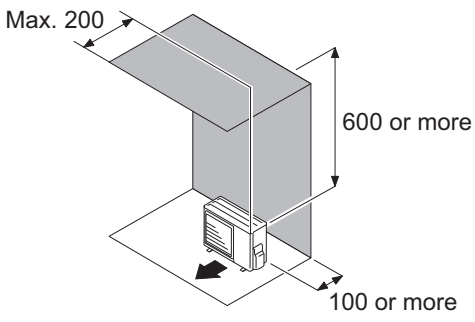
Obstacles at front and rear



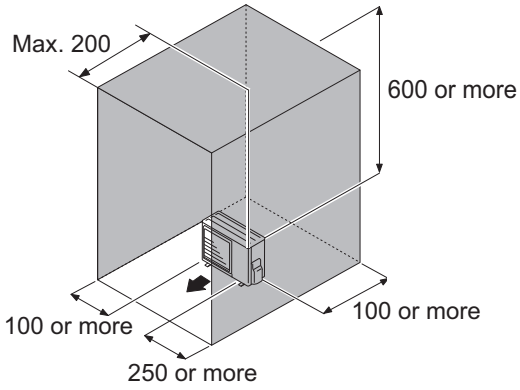
- **When an obstruction in the upper space:**

Unit: mm

Obstacles at rear and above



Obstacles at rear, sides, and above



OUTDOOR UNIT
AOYG24-45KATA

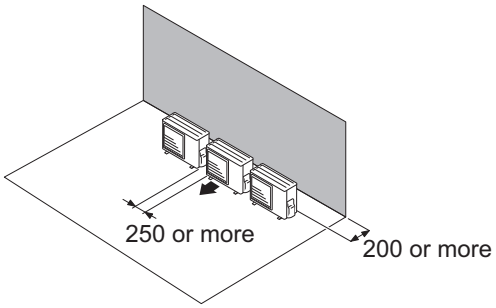
● Multiple outdoor unit installation

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

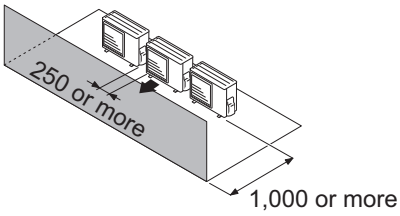
- **When the upper space is open:**

Unit: mm

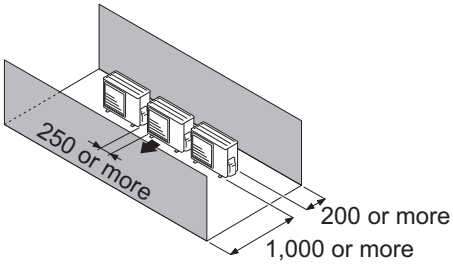
Obstacles at rear only



Obstacles at front only



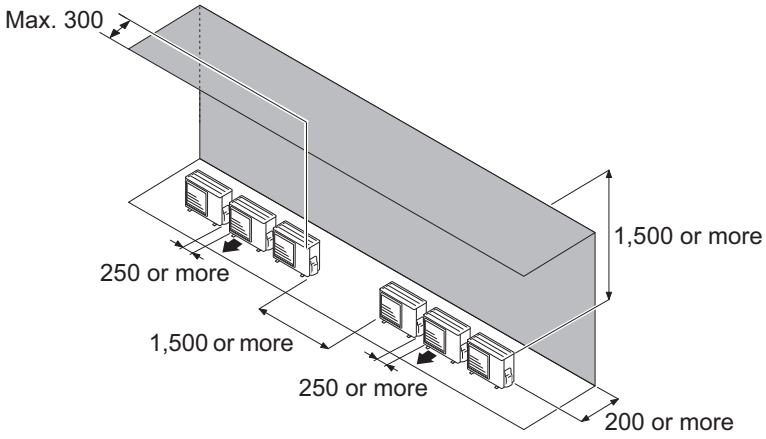
Obstacles at front and rear



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

Unit: mm

Obstacles at rear and above.

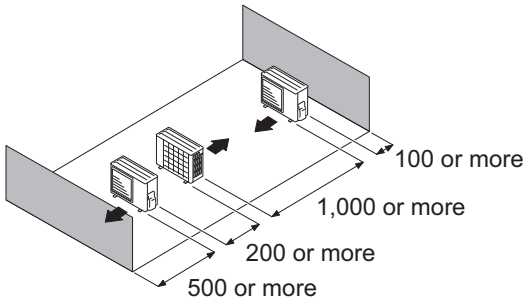


OUTDOOR UNIT
AOYG24-45KATA

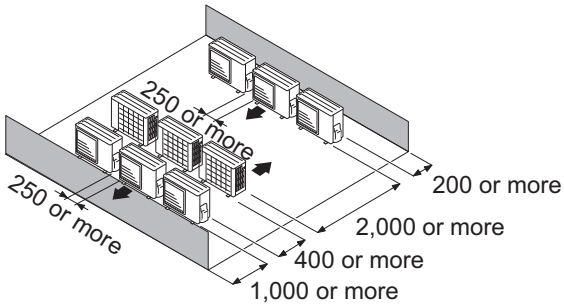
● Outdoor units installation in multi-row

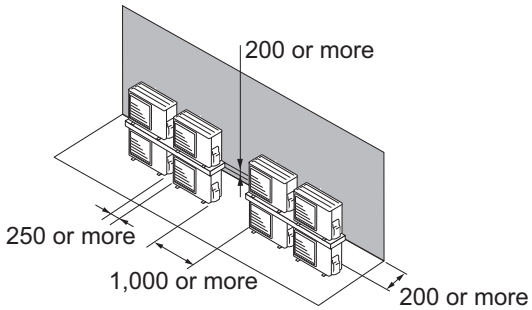
Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement



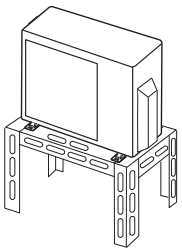


NOTES:

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

⚠ CAUTION

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



3-2. Models: AOYG30KATA, AOYG36KATA, and AOYG45KATA

OUTDOOR UNIT
AOYG24-45KATA

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

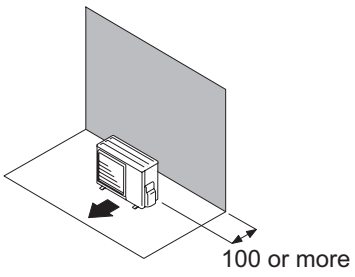
Keep the space shown in the installation examples.
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

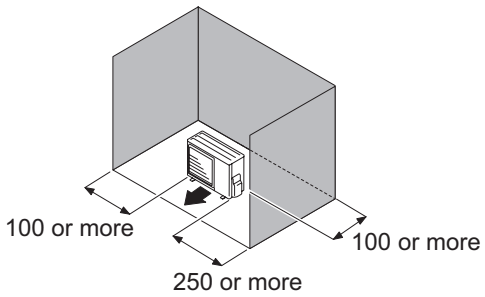
- **When the upper space is open:**

Unit: mm

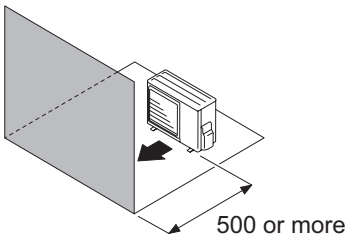
When there are obstacles at the rear only.



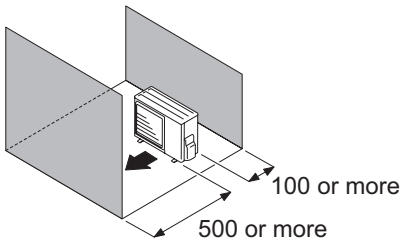
When there are obstacles at the rear and sides.



When there are obstacles at the front only.



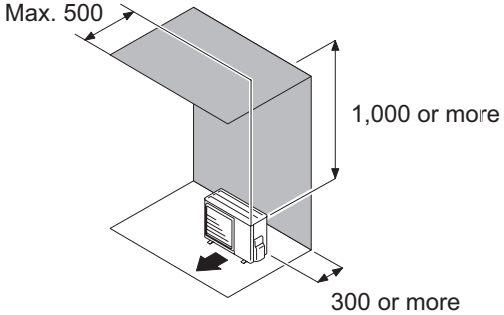
When there are obstacles at the front and rear.



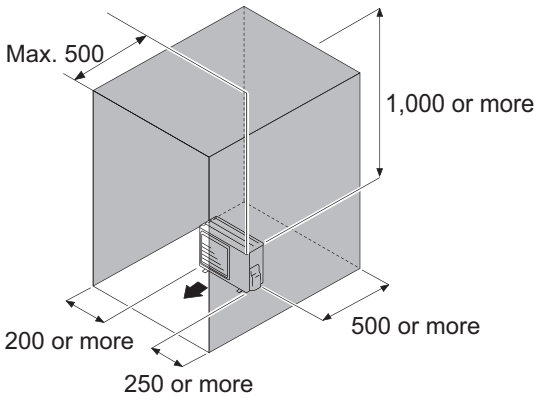
- **When an obstruction in the upper space:**

Unit: mm

When there are obstacles at the rear and above.



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



OUTDOOR UNIT
AOYG24-45KATA

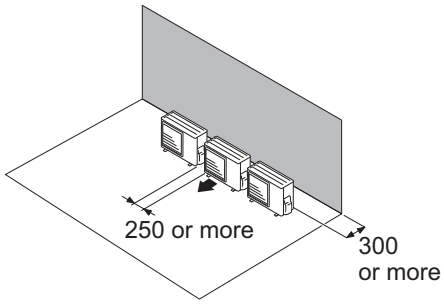
● Multiple outdoor unit installation

- 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:**".

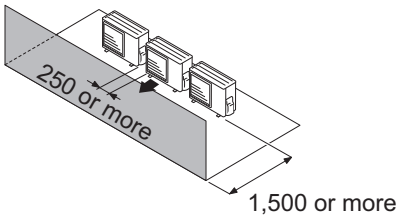
- **When the upper space is open:**

Unit: mm

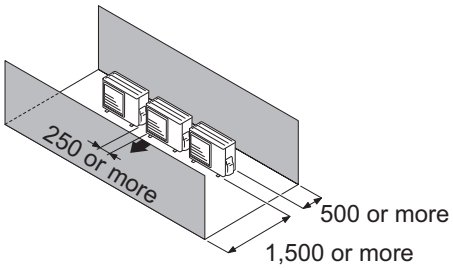
When there are obstacles at the rear only.



When there are obstacles at the front only.



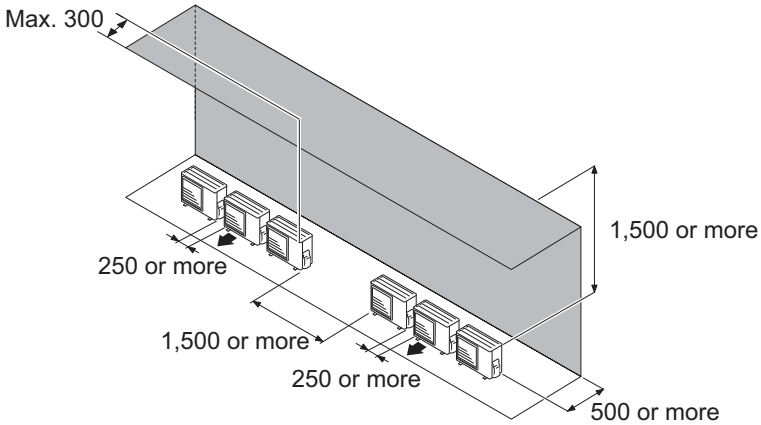
When there are obstacles at the front and rear.



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

Unit: mm

When there are obstacles at the rear and above.

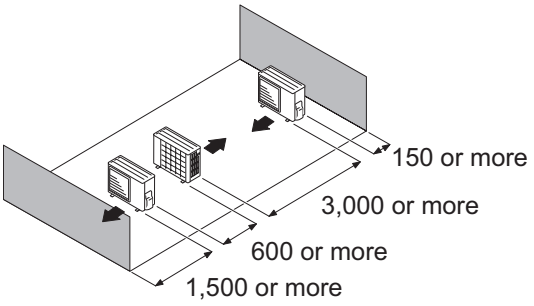


OUTDOOR UNIT
AOYG24-45KATA

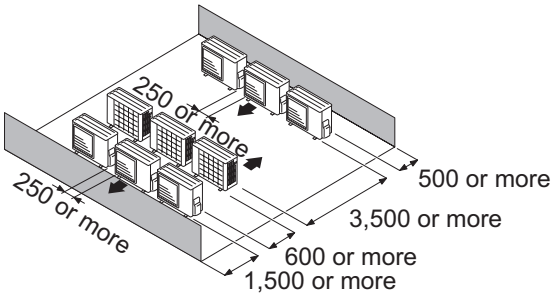
● Outdoor unit installation in multi-row

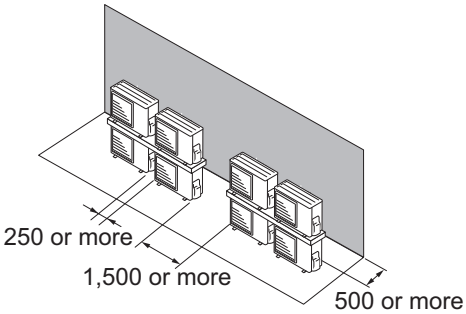
Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement



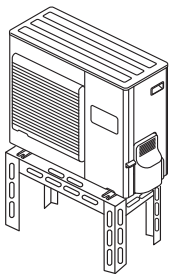


NOTES:

- 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.

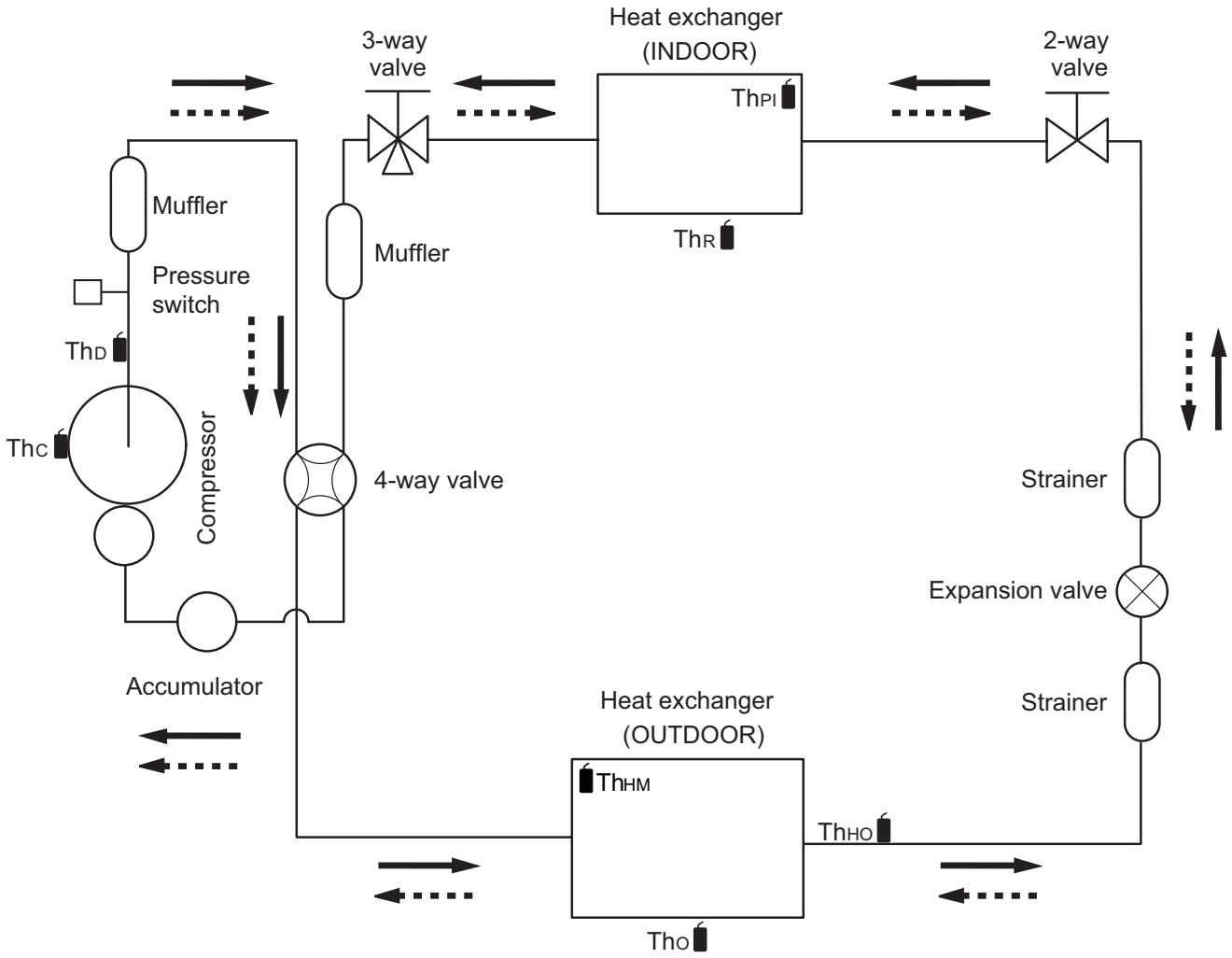
⚠ CAUTION

- 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.



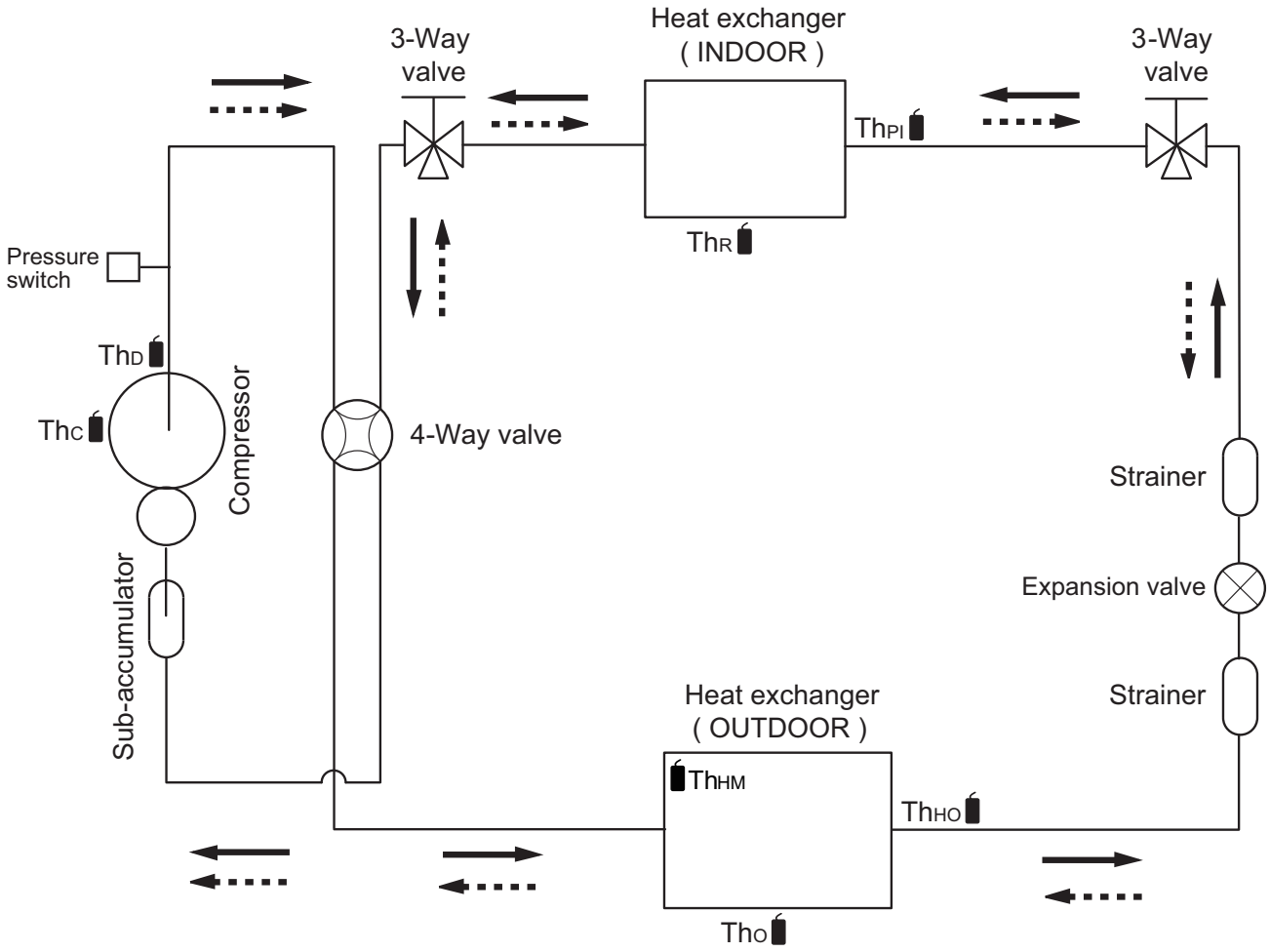
4. Refrigerant circuit

4-1. Model: AOYG24KATA



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: AOYG30KATA, AOYG36KATA, and AOYG45KATA



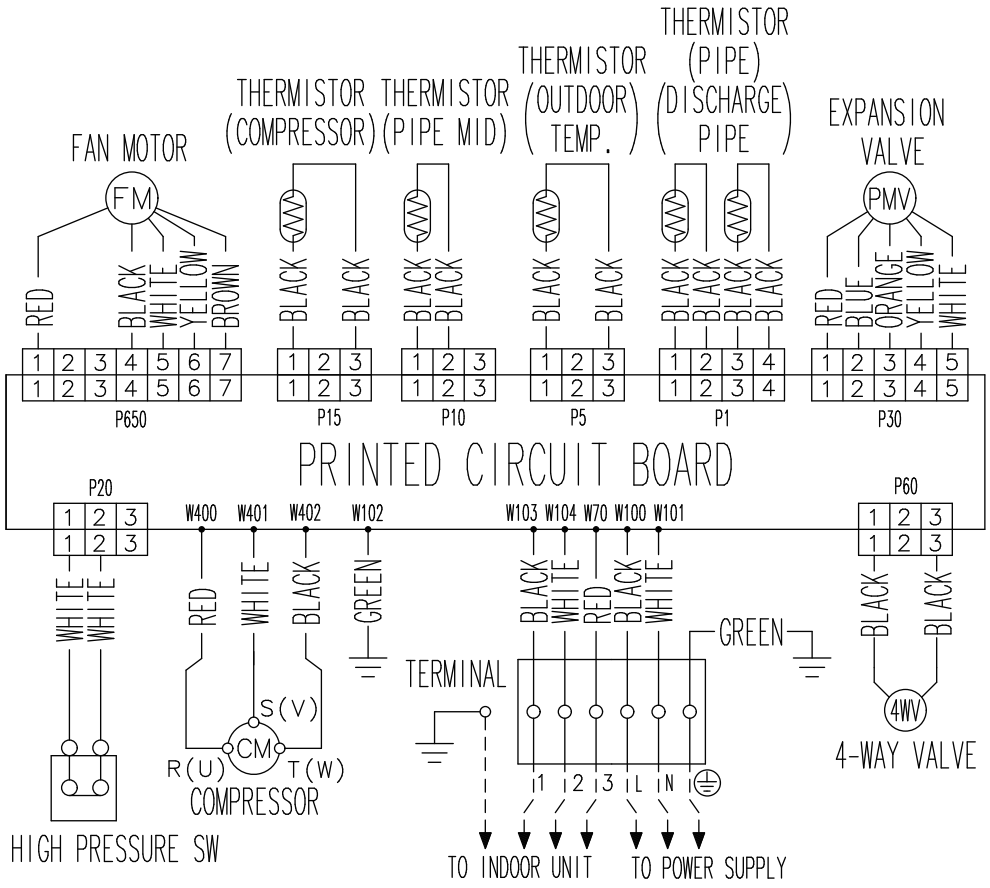
: Cooling
: Heating

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

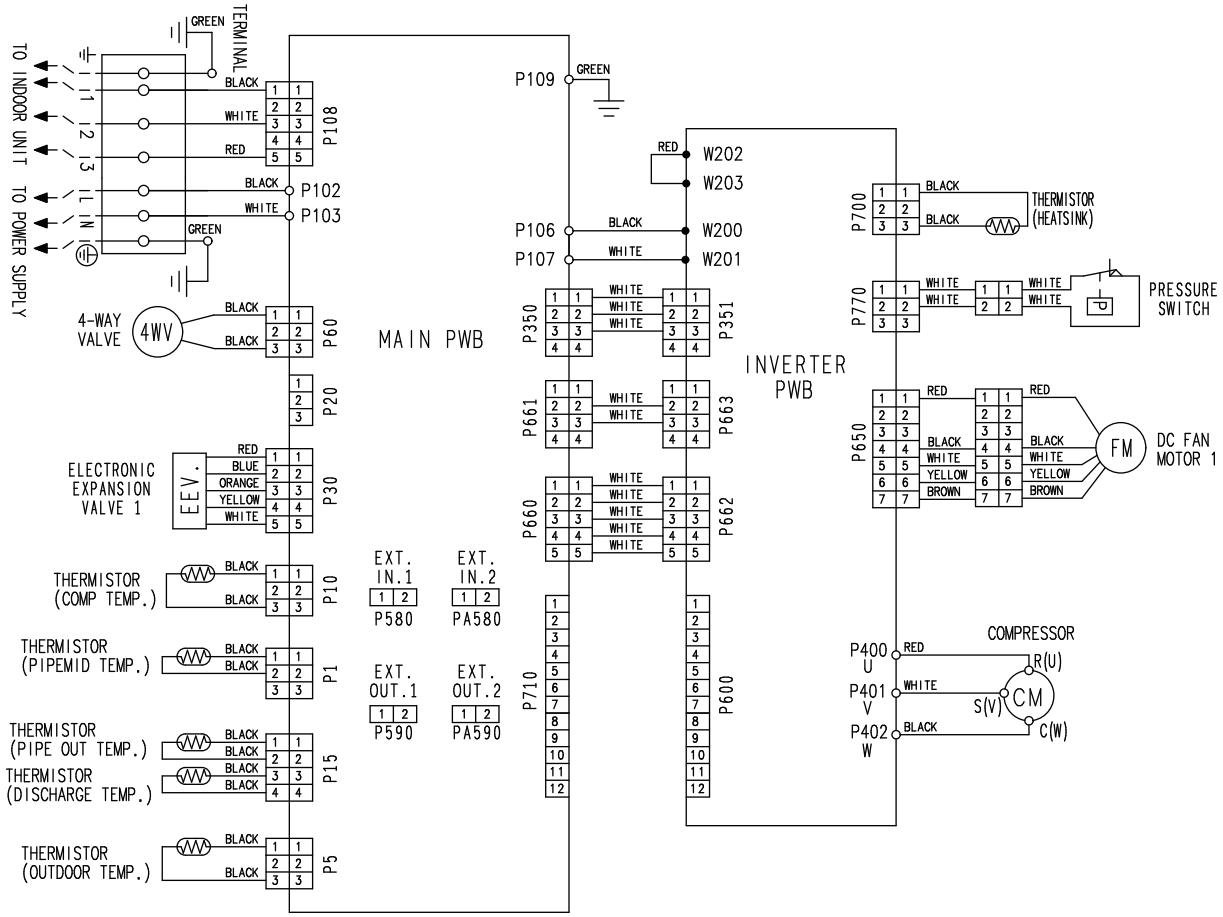
OUTDOOR UNIT
AOYG24-45KATA

5. Wiring diagrams

5-1. Model: AOYG24KATA



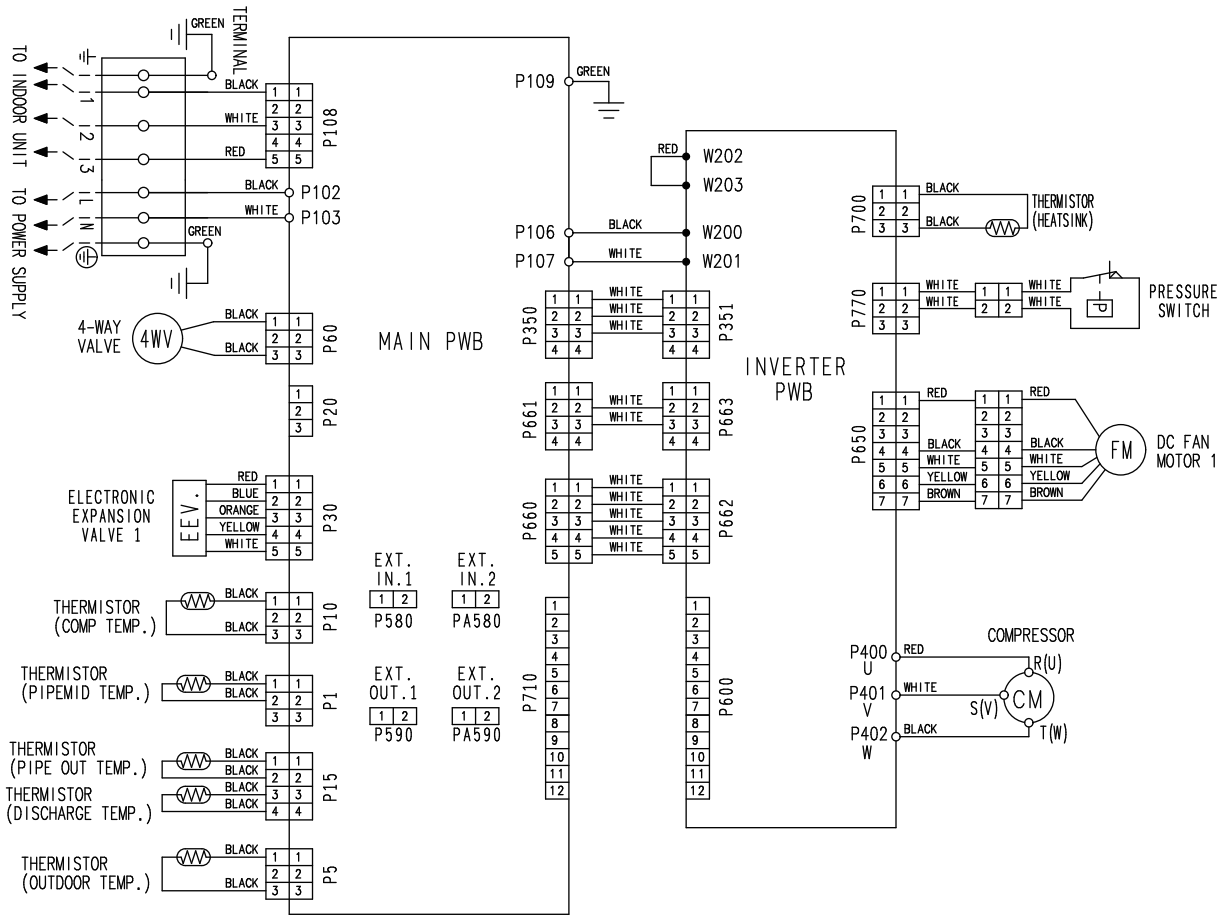
5-2. Models: AOYG30KATA and AOYG36KATA



OUTDOOR UNIT
AOYG24-45KATA

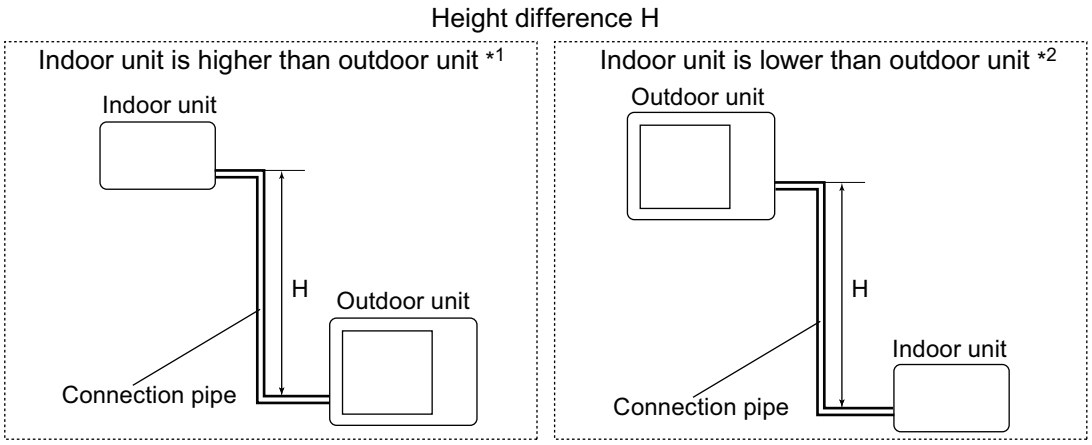
5-3. Model: AOYG45KATA

OUTDOOR UNIT
AOYG24-45KATA



OUTDOOR UNIT
AOYG24-45KATA

6. Capacity compensation rate for pipe length and height difference



6-1. Model: AOYG24KATA

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

COOLING			Pipe length (m)					
			5	7.5	10	15	20	25
Height difference H (m)	Indoor unit is higher than outdoor unit *1	20	—	—	—	—	0.909	0.909
		15	—	—	—	0.953	0.950	0.947
		10	—	—	0.983	0.968	0.966	0.962
		7.5	—	0.988	0.987	0.972	0.970	0.966
		5	0.992	0.992	0.991	0.976	0.974	0.970
		0	1.000	1.000	0.999	0.984	0.982	0.978
	Indoor unit is lower than outdoor unit *2	-5	1.000	1.000	0.999	0.984	0.982	0.978
		-7.5	—	1.000	0.999	0.984	0.982	0.978
		-10	—	—	0.999	0.984	0.982	0.978
		-15	—	—	—	0.984	0.982	0.978
		-20	—	—	—	—	0.982	0.978

HEATING			Pipe length (m)					
			5	7.5	10	15	20	25
Height difference H (m)	Indoor unit is higher than outdoor unit *1	20	—	—	—	—	0.894	0.867
		15	—	—	—	0.920	0.894	0.867
		10	—	—	0.982	0.920	0.894	0.867
		7.5	—	1.000	0.982	0.920	0.894	0.867
		5	1.000	1.000	0.982	0.920	0.894	0.867
		0	1.000	1.000	0.982	0.920	0.894	0.867
	Indoor unit is lower than outdoor unit *2	-5	0.995	0.995	0.977	0.916	0.889	0.862
		-7.5	—	0.993	0.975	0.913	0.887	0.860
		-10	—	—	0.972	0.911	0.885	0.858
		-15	—	—	—	0.902	0.876	0.849
		-20	—	—	—	—	0.851	0.821

OUTDOOR UNIT
AOYG24-45KATA

6-2. Model: AOYG30KATA

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

COOLING			Pipe length (m)				
			5	7.5	10	20	30
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.926
		20	—	—	—	0.953	0.942
		10	—	—	0.979	0.968	0.958
		7.5	—	0.988	0.983	0.972	0.961
		5	0.992	0.992	0.987	0.976	0.965
		0	1.000	1.000	0.995	0.984	0.973
	Indoor unit is lower than outdoor unit *2	-5	1.000	1.000	0.995	0.984	0.973
		-7.5	—	1.000	0.995	0.984	0.973
		-10	—	—	0.995	0.984	0.973
		-20	—	—	—	0.984	0.973
		-30	—	—	—	—	0.973

HEATING			Pipe length (m)				
			5	7.5	10	20	30
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.931
		20	—	—	—	0.954	0.931
		10	—	—	0.990	0.954	0.931
		7.5	—	1.000	0.990	0.954	0.931
		5	1.000	1.000	0.990	0.954	0.931
		0	1.000	1.000	0.990	0.954	0.931
	Indoor unit is lower than outdoor unit *2	-5	0.995	0.995	0.986	0.949	0.926
		-7.5	—	0.993	0.983	0.946	0.924
		-10	—	—	0.981	0.944	0.921
		-20	—	—	—	0.935	0.912
		-30	—	—	—	—	0.903

6-3. Model: AOYG36KATA

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

COOLING			Pipe length (m)				
			5	7.5	10	20	30
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.902
		20	—	—	—	0.938	0.917
		10	—	—	0.973	0.953	0.933
		7.5	—	0.988	0.977	0.957	0.936
		5	0.992	0.992	0.981	0.961	0.940
		0	1.000	1.000	0.989	0.968	0.947
	Indoor unit is lower than outdoor unit *2	-5	1.000	1.000	0.989	0.968	0.947
		-7.5	—	1.000	0.989	0.968	0.947
		-10	—	—	0.989	0.968	0.947
		-20	—	—	—	0.968	0.947
		-30	—	—	—	—	0.947

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

6-4. Model: AOYG45KATA

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

COOLING			Pipe length (m)				
			5	7.5	10	20	30
Height difference H (m)	Indoor unit is higher than outdoor unit *1	30	—	—	—	—	0.900
		20	—	—	—	0.937	0.915
		10	—	—	0.973	0.952	0.931
		7.5	—	0.988	0.977	0.956	0.934
		5	0.992	0.992	0.981	0.960	0.938
		0	1.000	1.000	0.989	0.967	0.945
	Indoor unit is lower than outdoor unit *2	-5	1.000	1.000	0.989	0.967	0.945
		-7.5	—	1.000	0.989	0.967	0.945
		-10	—	—	0.989	0.967	0.945
		-20	—	—	—	0.967	0.945
		-30	—	—	—	—	0.945

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

OUTDOOR UNIT
AOYG24-45KATA

7. Additional charge calculation

7-1. Model: AOYG24KATA

Refrigerant type		R32
Refrigerant amount	g	1,250

■ Refrigerant charge

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

7-2. Models: AOYG30KATA and AOYG36KATA

Refrigerant type		R32
Refrigerant amount	g	1,900

■ Refrigerant charge

Total pipe length	m	30 (Max.)	0 g/m
Additional charge	g	0	

NOTE: There is no additional refrigerant charge in this model. (Chargeless system)

7-3. Model: AOYG45KATA

Refrigerant type		R32
Refrigerant amount	g	2,400

■ Refrigerant charge

Total pipe length	m	30 (Max.)	0 g/m
Additional charge	g	0	

NOTE: There is no additional refrigerant charge in this model. (Chargeless system)

OUTDOOR UNIT
AOYG24-45KATA

8. Airflow

8-1. Model: AOYG24KATA

● Cooling

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

● Heating

m^3/h	2,350
l/s	653
CFM	1,383

8-2. Models: AOYG30KATA and AOYG36KATA

● 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: AOYG45KATA

● 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

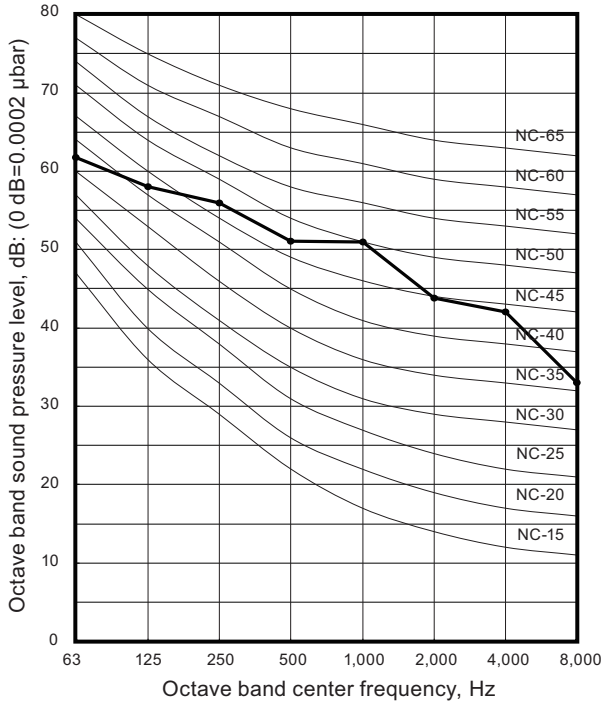
OUTDOOR UNIT
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9. Operation noise (sound pressure)

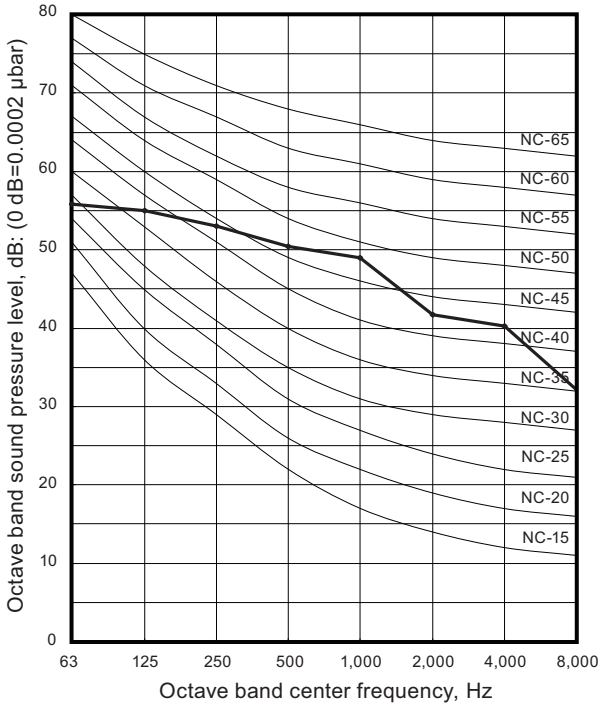
9-1. Noise level curve

■ Model: AOYG24KATA

● Cooling

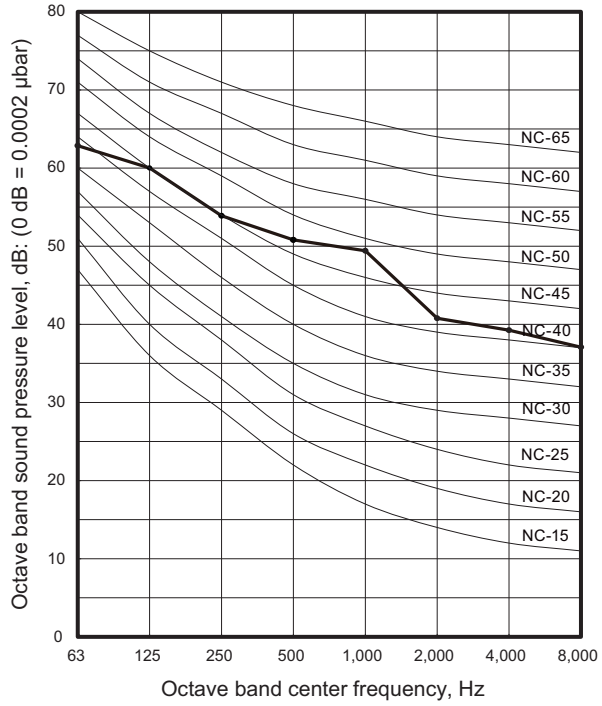


● Heating

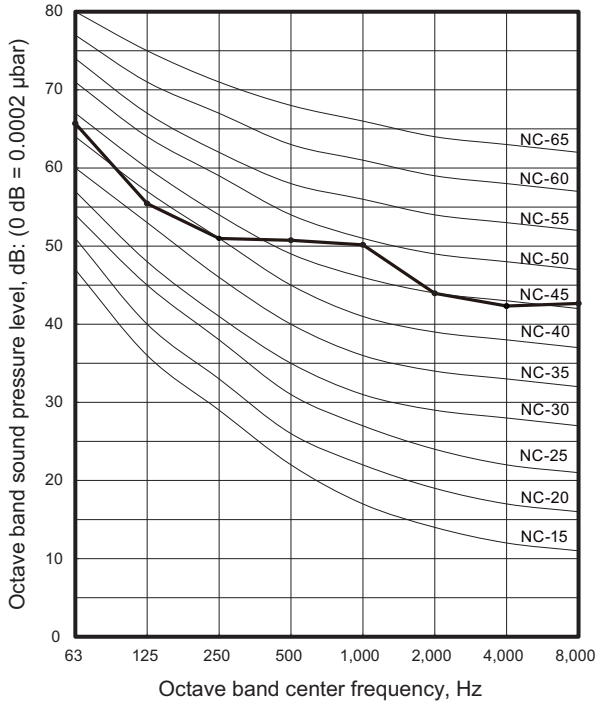


■ Model: AOYG30KATA

● Cooling



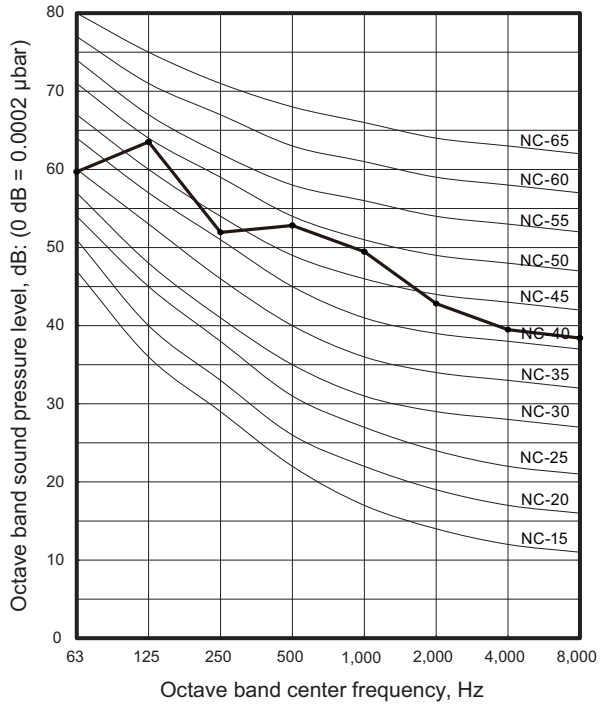
● Heating



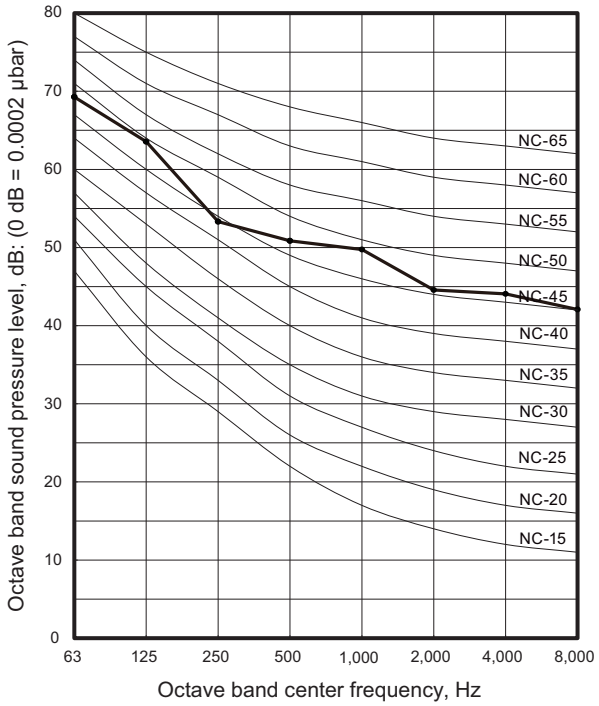
OUTDOOR UNIT
AOYG24-45KATA

■ Model: AOYG36KATA

● Cooling

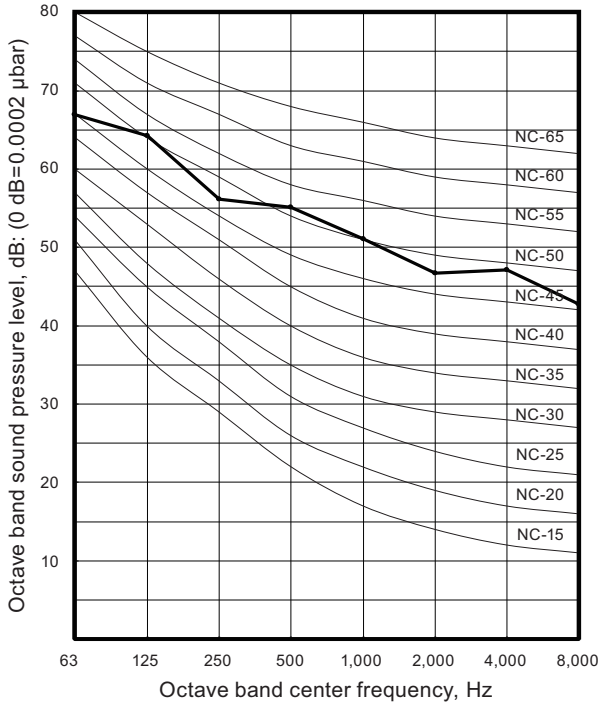


● Heating

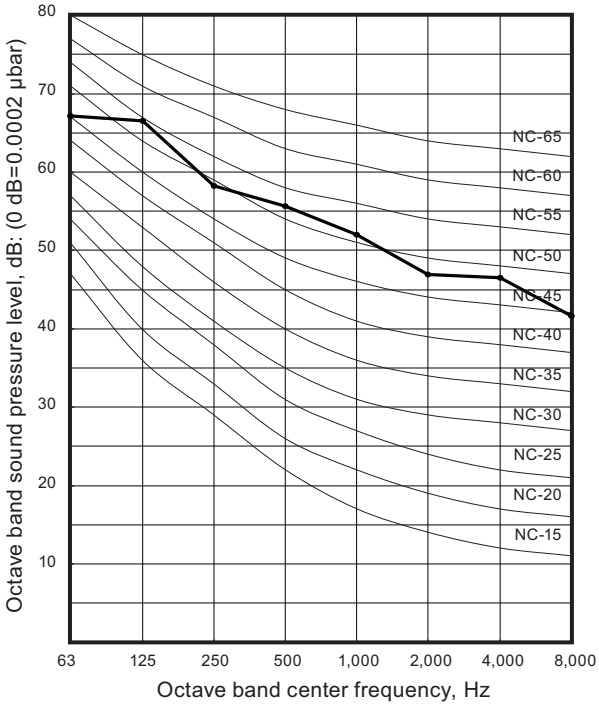


■ Model: AOYG45KATA

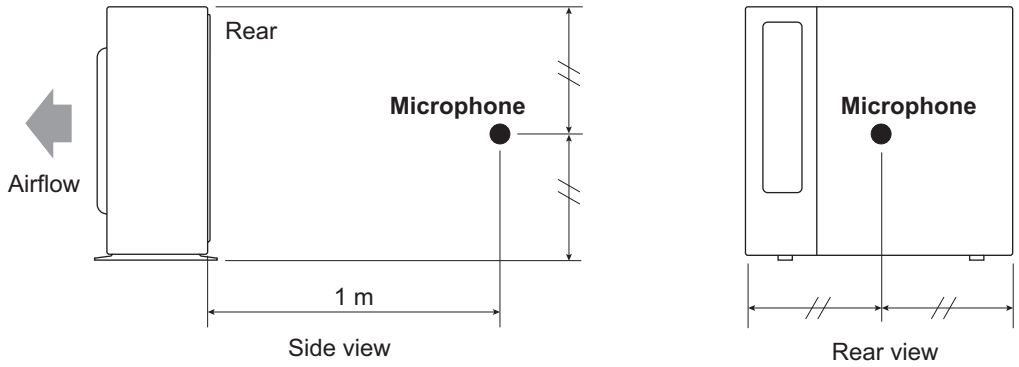
● Cooling



● Heating



9-2. Sound level check point



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

OUTDOOR UNIT
AOYG24-45KATA

10. Electrical characteristics

Model name				AOYG24KATA
Power supply	Voltage		V	230 ~
	Frequency		Hz	50
Max operating current *1			A	12.6
Starting current			A	9.7
Wiring spec. *2	Circuit breaker current		A	20
	Power cable		mm^2	1.5
	Connection cable *3	Cross-sectional area	mm^2	1.5
		Limited wiring length	m	26

Model name				AOYG30KATA	AOYG36KATA
Power supply	Voltage		V	230 ~	
	Frequency		Hz	50	
Max operating current *1			A	22.5	
Starting current			A	12.3	13.8
Wiring spec. *2	Circuit breaker current		A	25	
	Power cable		mm^2	4.0	
	Connection cable *3	Cross-sectional area	mm^2	1.5	
		Limited wiring length	m	31	

Model name				AOYG45KATA
Power supply	Voltage		V	230 ~
	Frequency		Hz	50
Max operating current *1			A	28.1
Starting current			A	21.3
Wiring spec. *2	Circuit breaker current		A	32
	Power cable		mm^2	4.0
	Connection cable *3	Cross-sectional area	mm^2	1.5
		Limited wiring length	m	31

*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.

OUTDOOR UNIT
AOYG24-45KATA

11. Safety devices

Type of protection	Protection form		Model
			AOYG24KATA
Circuit protection	Current fuse (Main PCB)		250 V, 25 A 250 V, 5 A 250 V, 3.15 A
Fan motor protection	Thermal protection program	Activate	125 ±10 °C Fan motor stop
		Reset	120 ±10°C Fan motor restart
Compressor protection	Thermal protection program (Discharge temp.)	Activate	110 °C Compressor stop
		Reset	After 7 minutes Compressor restart
	Thermal protection program (Compressor temp.)	Activate	108 °C Compressor stop
		Reset	After 3 minutes, and 80 °C or less Compressor restart
	Thermal protection program (Outdoor temp.) (Only in COOL or 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

Type of protection	Protection form		Model
			AOYG30KATA AOYG36KATA
Circuit protection	Current fuse (Main PCB)		250 V, 30 A 250 V, 3.15 A 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.) (Only in COOL or 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

OUTDOOR UNIT
AOYG24-45KATA

Type of protection	Protection form		Model
			AOYG45KATA
Circuit protection	Current fuse (Main PCB)		250 V, 30 A or 35.5 A 250 V, 3.15 A 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.) (Only in COOL or 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

OUTDOOR UNIT
AOYG24-45KATA

12. External input and output (30-45 models)

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.

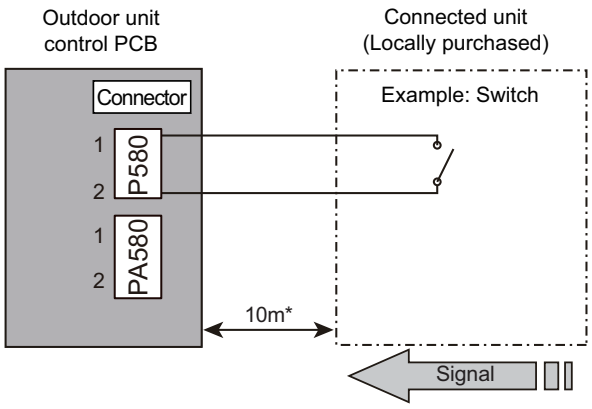
■ Low noise mode

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

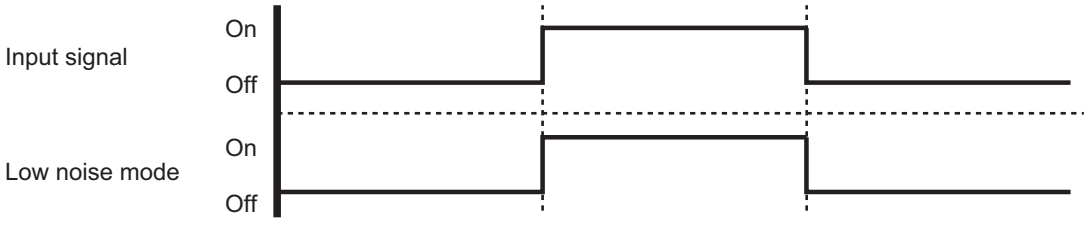
The air conditioner is set to the “Low noise mode” when closing the contact input of a commercial timer or on/off switch to a connector on the control PCB of the outdoor unit.

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

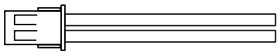
- **Circuit diagram example**



- 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 103 (under “Local setting procedure”.)



- **Optional part**

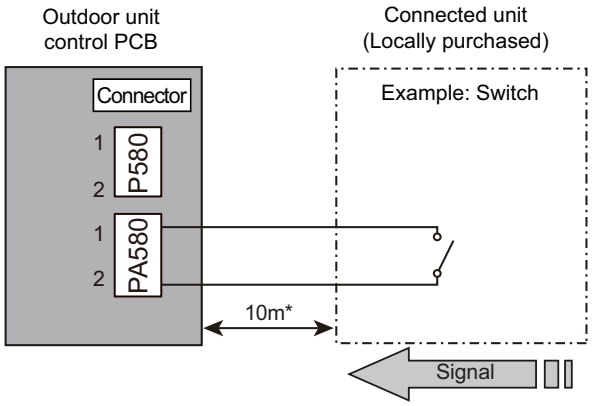
Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External input wire 

OUTDOOR UNIT
AOYG24-45KATA

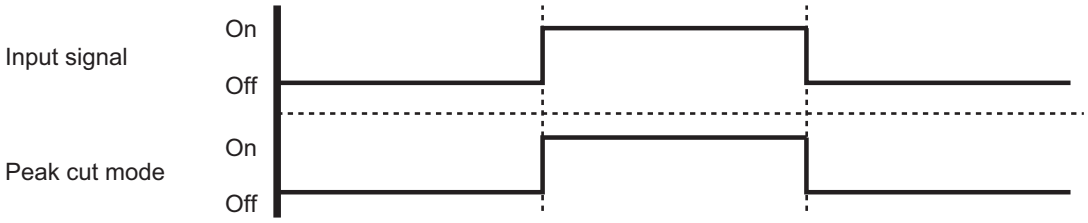
■ Peak cut mode

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.

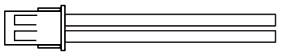
- **Circuit diagram example**



- 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 104 (under “Local setting procedure”.)



- **Optional part**

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

OUTDOOR UNIT
AOYG24-45KATA

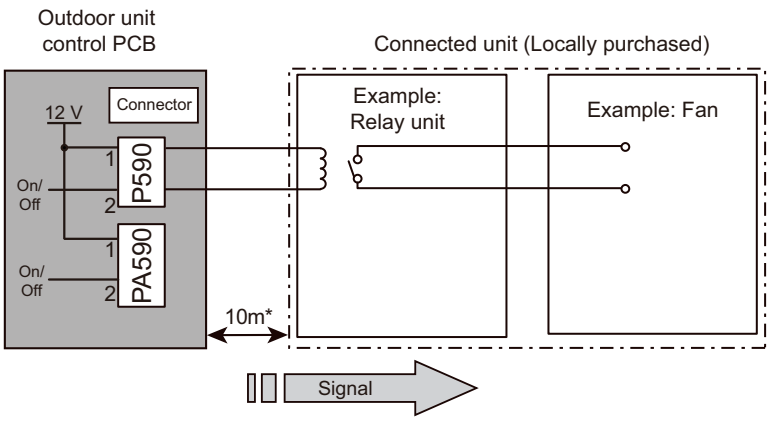
12-2. External output

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.

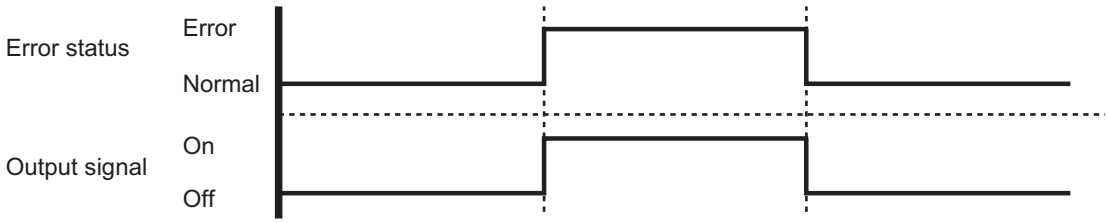
■ Error status output

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

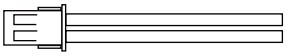
- **Circuit diagram example**



- 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**

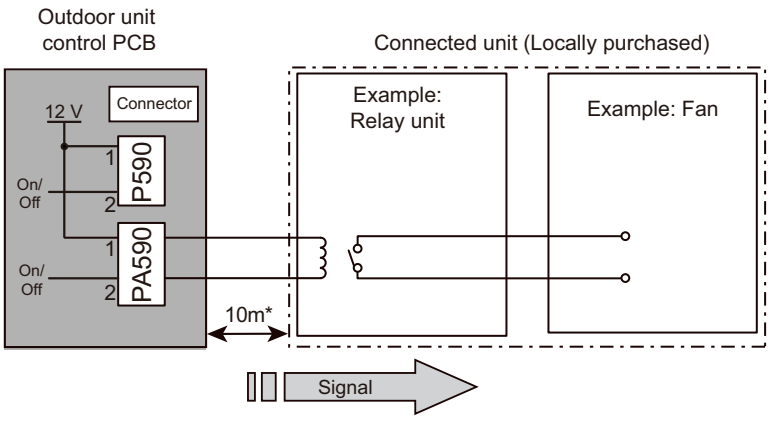
Part name	Model name	Exterior
External Connect Kit	UTY-XWZXZ3	External output wire 

OUTDOOR UNIT
AOYG24-45KATA

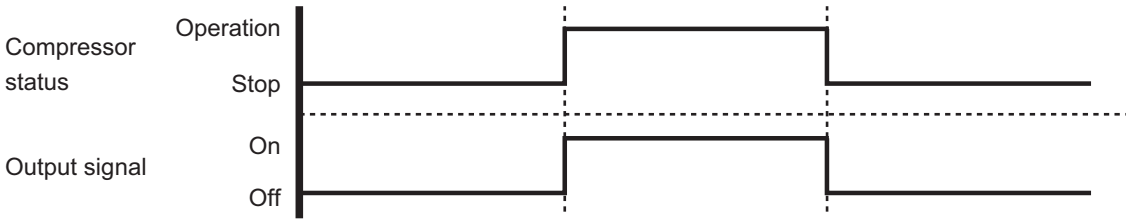
■ Compressor status output

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

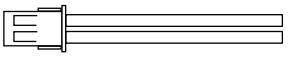
- **Circuit diagram example**



- 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 

OUTDOOR UNIT
AOYG24-45KATA

13. Function settings (30-45 models)

Perform appropriate function setting locally according to the installation environment.

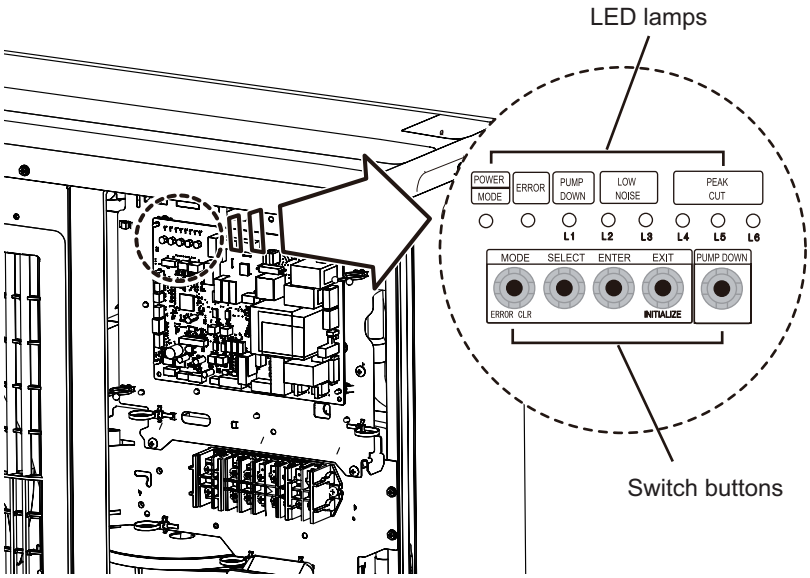
NOTE: Incorrect settings can cause a product malfunction.

⚠ 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.

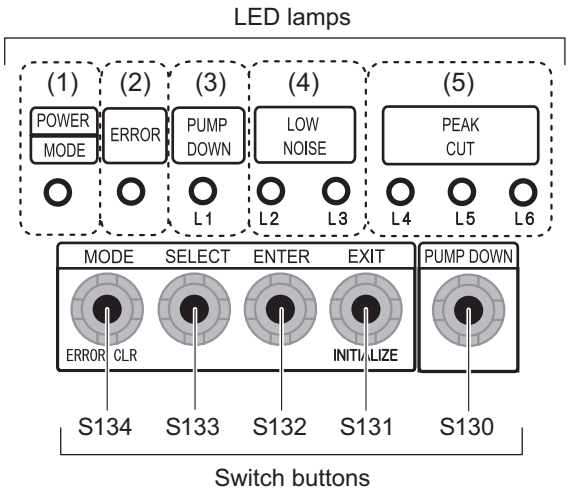
13-1. Control PCB and switch buttons location

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



OUTDOOR UNIT
AOYG24-45KATA

■ 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.

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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)	LOW NOISE (L3)	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (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 (L2)	LOW NOISE (L3)
LOW NOISE MODE	○	Blink

4. Press the ENTER switch button (S132).

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

Sign “ ● ”: Lights on

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

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

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

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (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.

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■ 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)	LOW NOISE (L3)	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (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 (L2)	LOW NOISE (L3)
PEAK CUT MOD E	Blink	○

4. Press the ENTER switch button (S132).

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

Sign “ ● ”: Lights on

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

	PEAK CUT (L4)	PEAK CUT (L5)	PEAK CUT (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)	PEAK CUT (L5)	PEAK CUT (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

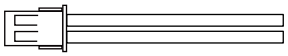
14-1. Model: AOYG24KATA

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

14-2. Models: AOYG30KATA, AOYG36KATA, and AOYG45KATA

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. (For 30-45 models)

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