

AIR CONDITIONER
Floor type

DESIGN & TECHNICAL MANUAL

INDOOR



RGG09KVCA
RGG12KVCA
RGG14KVCA

OUTDOOR



ROG09KVCA
ROG12KVCA



ROG14KVCA

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- For further details, please check with our authorized dealer.

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Part 1. INDOOR UNIT

FLOOR TYPE:

RGG09KVCA

RGG12KVCA

RGG14KVCA

1. Specifications

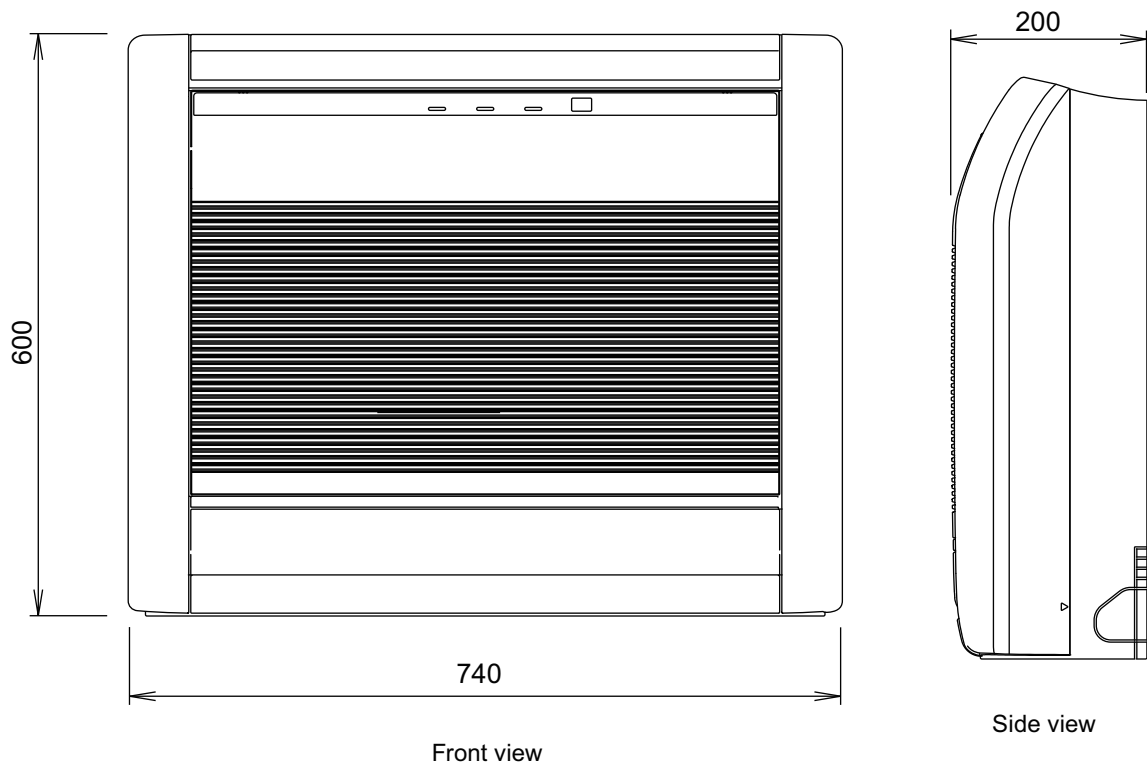
Type				Floor type			
				Inverter heat pump			
Model name				RGG09KVCA	RGG12KVCA	RGG14KVCA	
Power supply				230 V ~ 50 Hz			
Available voltage range				198—264 V			
Capacity	Cooling	Rated	kW	2.50	3.50	4.20	
			Btu/h	8,500	11,900	14,300	
		Min.—Max.	kW	0.9—3.5	0.9—4.0	0.9—5.2	
	Btu/h		3,100—11,900	3,100—13,700	3,100—17,700		
	Heating	Rated	kW	3.50	4.50	5.20	
			Btu/h	11,900	15,400	17,700	
Min.—Max.		kW	0.9—5.1	0.9—5.3	0.9—6.3		
	Btu/h	3,100—17,400	3,100—18,100	3,100—21,500			
Input power	Cooling	Rated	kW	0.53	0.88	1.06	
				Max.	1.29	1.29	2.11
	Heating	Rated		0.81	1.22	1.41	
				Max.	1.64	1.64	1.98
Current	Cooling	Rated	A	2.9	4.3	4.7	
	Heating			4.1	5.7	6.2	
EER	Cooling			4.70	4.00	3.95	
COP	Heating			4.30	3.70	3.70	
Power factor	Cooling			79.5	88.5	98.1	
	Heating			85.9	93.1	98.9	
Moisture removal			L/h (pints/h)	1.3 (2.3)	1.8 (3.2)	2.1 (3.7)	
Maximum operating current *1		Cooling	A	7	7	11	
		Heating		8.5	8.5	12	
Fan	Airflow rate	Cooling	m ³ /h	HIGH	570	570	650
				MED	460	460	520
				LOW	360	360	400
				QUIET	270	270	270
		Heating		HIGH	600	600	650
				MED	480	480	520
				LOW	370	370	390
				QUIET	270	270	270
	Type × Q'ty		Cross flow fan × 2				
	Motor output		W				
		16 × 2					
Sound pressure level *2	Cooling	dB (A)	HIGH	40	40	44	
			MED	35	35	38	
			LOW	29	29	31	
			QUIET	22	22	22	
	Heating		HIGH	41	41	43	
			MED	35	35	37	
			LOW	29	29	29	
			QUIET	22	22	22	
Heat exchanger type	Dimensions (H × W × D)		mm	378 × 550 × 26.6			
	Fin pitch			1.2			
	Rows × Stages			2 × 18			
	Pipe type			Copper tube			
	Fin type			Aluminium			
Enclosure	Material		Polystyrene				
	Color		White				
Dimensions (H × W × D)	Net		mm	600 × 740 × 200			
	Gross			700 × 820 × 310			
Weight	Net		kg	14			
	Gross			18			
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø 1/4)			
		Gas		Ø 9.52 (Ø 3/8)			
	Method			Flare			
Drain hose	Material		PP + LLDPE				
	Size		mm				
Operation range	Cooling			°C			
				18 to 32			
	Heating			%RH			
		80 or less					
				°C			
				30 or less			
Remote controller type				Wireless (Wired, Mobile app*3 [FGLair™] [option])			
NOTES:							
<ul style="list-style-type: none"> • Specifications are based on the following conditions: <ul style="list-style-type: none"> – Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB. – Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB. – Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.) • Protective function might work when using it outside the operation range. • *1: Maximum current is maximum value when operated within the operation range. • *2: Sound pressure level: <ul style="list-style-type: none"> – Measured values in manufacturer's anechoic chamber. – Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here. • *3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual. 							

Model name			RGG09KVCA	RGG12KVCA	RGG14KVCA
Energy efficiency class	Cooling		A+++	A++	A++
	Heating (Average)		A+	A+	A+
Pdesign	Cooling	kW	2.5 (35 °C)	3.5 (35 °C)	4.2 (35 °C)
	Heating (Average)		2.6 (-10 °C)	3.5 (-10 °C)	4.2 (-10 °C)
SEER	Cooling	kWh/kWh	8.50	8.20	8.10
SCOP	Heating (Average)		4.30	4.10	4.00
Annual energy consumption	QCE	kWh/a	103	149	181
	QHE (Average)		845	1,192	1,466
Sound power level	Cooling	High	dB (A)	53	57
	Heating			54	56

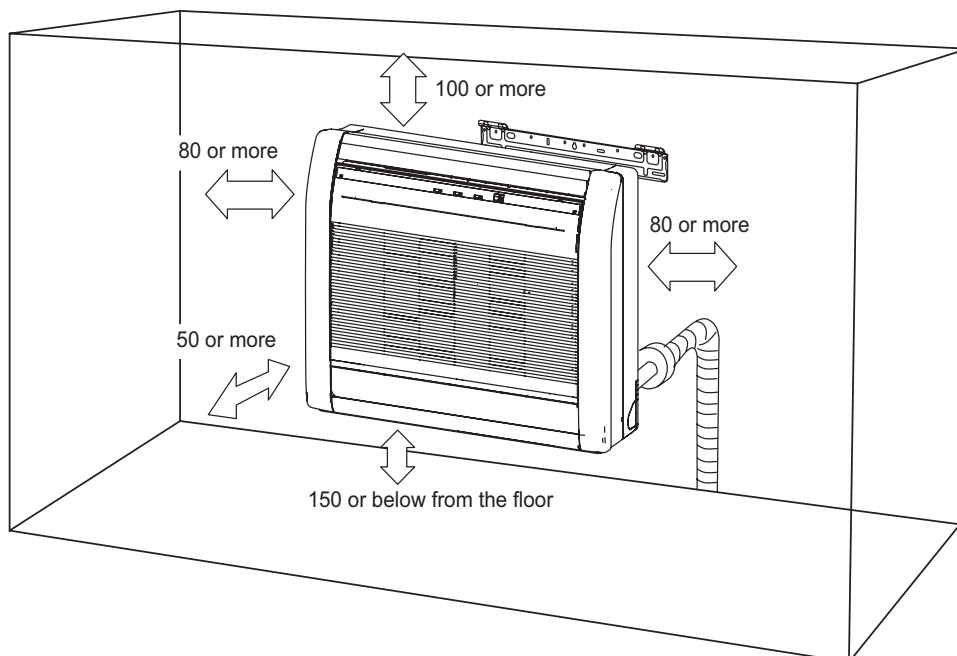
2. Dimensions

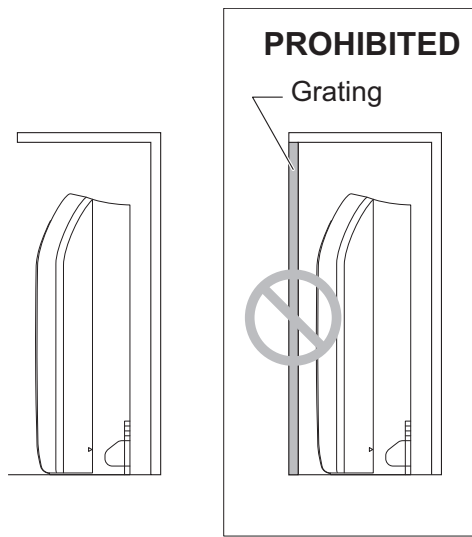
2-1. Models: RGG09KVCA, RGG12KVCA, and RGG14KVCA

Unit: mm



■ Installation space





⚠ WARNING

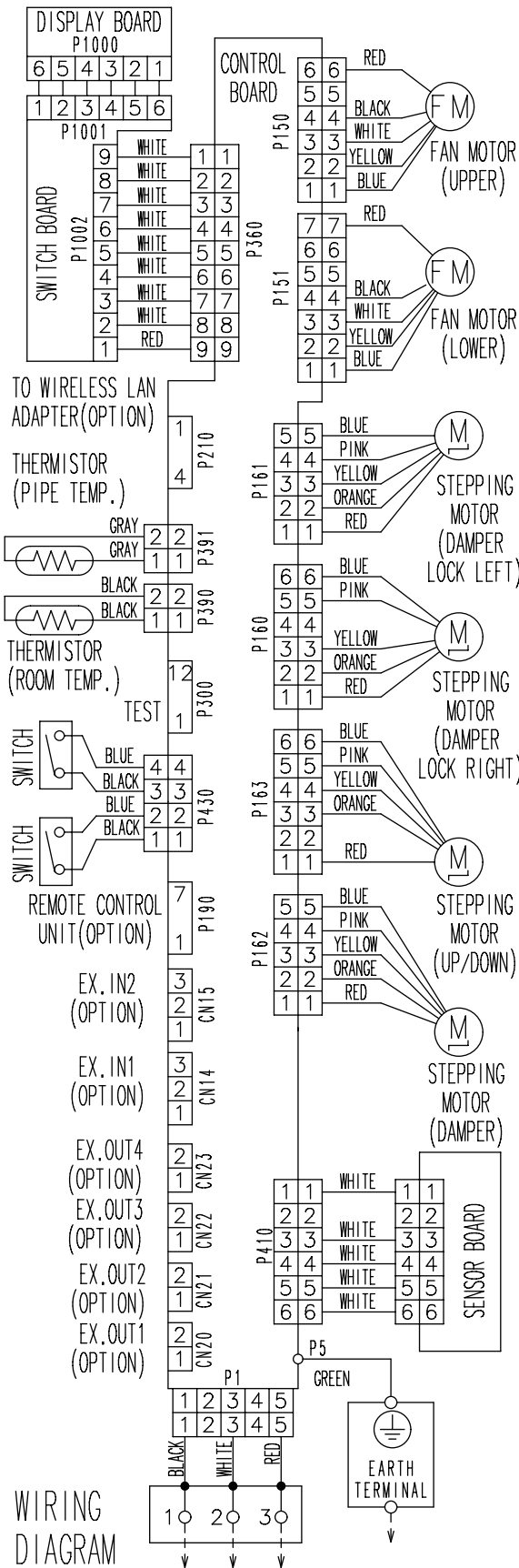
- The appliance shall be installed, operated and stored in a room with a floor area larger than X m².

Amount of refrigerant charge M (kg)	Minimum room area X (m ²)
$M \leq 1.22$	-
$1.22 < M \leq 1.23$	12.99
$1.23 < M \leq 1.50$	19.31
$1.50 < M \leq 1.75$	26.28
$1.75 < M \leq 2.0$	34.33
$2.0 < M \leq 2.5$	53.63
$2.5 < M \leq 3.0$	77.23
$3.0 < M \leq 3.5$	105.12
$3.5 < M \leq 4.0$	137.29

(IEC 60335-2-40)

3. Wiring diagrams

3-1. Models: RGG09KVCA, RGG12KVCA, and RGG14KVCA



4-2. Heating capacity

■ Model: RGG09KVCA

AFR	m ³ /h	600
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			Indoor temperature											
			16		18		20		22		24			
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP		
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW			
	-15	-16	3.22	1.31	3.12	1.34	3.03	1.36	2.94	1.39	2.85	1.42		
	-10	-11	3.86	1.36	3.75	1.39	3.64	1.42	3.54	1.45	3.43	1.48		
	-5	-7	4.40	1.41	4.27	1.44	4.15	1.47	4.03	1.50	3.90	1.53		
	0	-2	4.77	1.45	4.63	1.48	4.50	1.51	4.36	1.54	4.23	1.57		
	5	3	5.21	1.49	5.06	1.52	4.91	1.55	4.77	1.59	4.62	1.62		
	7	6	5.41	1.51	5.25	1.54	5.10	1.57	4.95	1.60	4.79	1.64		
	10	8	5.57	1.43	5.41	1.46	5.26	1.49	5.10	1.52	4.94	1.55		
	15	10	5.39	1.20	5.24	1.22	5.09	1.25	4.93	1.27	4.78	1.30		
	20	15	5.34	1.08	5.19	1.10	5.04	1.13	4.89	1.15	4.74	1.17		
24	18	5.53	1.09	5.38	1.11	5.22	1.14	5.06	1.16	4.91	1.18			

■ Model: RGG12KVCA

AFR	m ³ /h	600
-----	-------------------	-----

			Indoor temperature											
			16		18		20		22		24			
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP		
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW			
	-15	-16	3.34	1.36	3.25	1.39	3.15	1.42	3.06	1.44	2.96	1.47		
	-10	-11	4.01	1.42	3.90	1.45	3.79	1.48	3.67	1.51	3.56	1.54		
	-5	-7	4.57	1.47	4.44	1.50	4.31	1.53	4.18	1.56	4.05	1.59		
	0	-2	4.95	1.51	4.81	1.54	4.67	1.57	4.53	1.60	4.39	1.63		
	5	3	5.41	1.55	5.26	1.58	5.11	1.62	4.95	1.65	4.80	1.68		
	7	6	5.62	1.57	5.46	1.60	5.30	1.64	5.14	1.67	4.98	1.70		
	10	8	5.79	1.49	5.63	1.52	5.46	1.55	5.30	1.58	5.14	1.61		
	15	10	5.60	1.24	5.44	1.27	5.29	1.30	5.13	1.32	4.97	1.35		
	20	15	5.55	1.12	5.39	1.15	5.24	1.17	5.08	1.19	4.92	1.22		
24	18	5.75	1.13	5.59	1.16	5.43	1.18	5.26	1.20	5.10	1.23			

■ Model: RGG14KVCA

AFR	m ³ /h	650
-----	-------------------	-----

			Indoor temperature											
			16		18		20		22		24			
			TC	IP	TC	IP	TC	IP	TC	IP	TC	IP		
Outdoor temperature	°CDB	°CWB	kW		kW		kW		kW		kW			
	-15	-16	5.55	2.43	5.40	2.48	5.24	2.53	5.08	2.58	4.92	2.63		
	-10	-11	6.03	2.49	5.86	2.54	5.69	2.59	5.52	2.64	5.35	2.70		
	-5	-7	6.47	2.48	6.28	2.53	6.10	2.58	5.92	2.64	5.73	2.69		
	0	-2	6.84	2.37	6.65	2.42	6.46	2.47	6.26	2.52	6.07	2.57		
	5	3	6.81	2.03	6.61	2.08	6.42	2.12	6.23	2.16	6.03	2.20		
	7	6	6.68	1.84	6.49	1.88	6.30	1.92	6.11	1.95	5.92	1.99		
	10	8	6.64	1.67	6.45	1.70	6.26	1.74	6.07	1.77	5.89	1.81		
	15	10	6.89	1.68	6.69	1.71	6.50	1.75	6.30	1.78	6.11	1.82		
	20	15	6.83	1.46	6.64	1.49	6.44	1.52	6.25	1.55	6.06	1.58		
24	18	6.78	1.28	6.59	1.31	6.40	1.33	6.21	1.36	6.01	1.39			

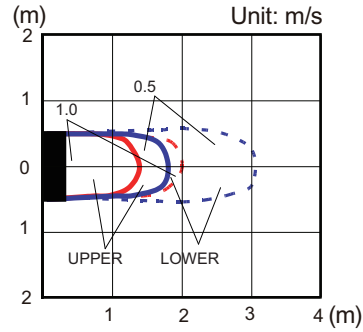
5. Fan performance

5-1. Air velocity distributions

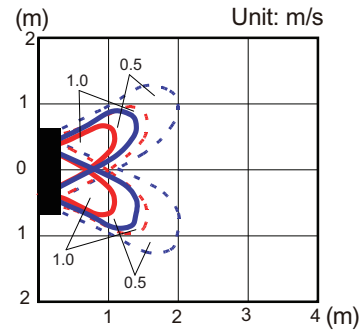
■ Models: RGG09KVCA, RGG12KVCA, and RGG14KVCA

Measuring conditions	Fan speed	Operation mode	Fan select
		HIGH	FAN

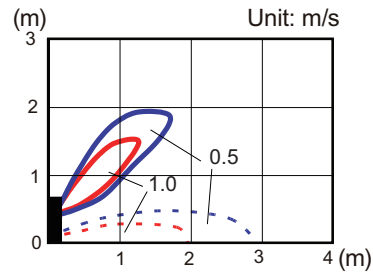
Top view
 Vertical airflow direction louver: Up
 Horizontal airflow direction louver: Center



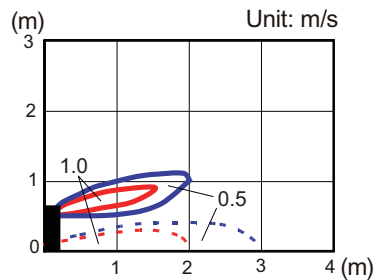
Top view
 Vertical airflow direction louver: Up
 Horizontal airflow direction louver: Left & Right



Side view
 Vertical airflow direction louver: Up
 Horizontal airflow direction louver: Center



Side view
 Vertical airflow direction louver: Down
 Horizontal airflow direction louver: Center



5-2. Airflow

■ Models: RGG09KVCA and RGG12KVCA

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	570
	l/s	158
	CFM	335
MED	m ³ /h	460
	l/s	128
	CFM	271
LOW	m ³ /h	360
	l/s	100
	CFM	212
QUIET	m ³ /h	270
	l/s	75
	CFM	159

● Heating

Fan speed	Airflow	
HIGH	m ³ /h	600
	l/s	167
	CFM	353
MED	m ³ /h	480
	l/s	133
	CFM	282
LOW	m ³ /h	370
	l/s	103
	CFM	218
QUIET	m ³ /h	270
	l/s	75
	CFM	159

■ Model: RGG14KVCA

● Cooling

Fan speed	Airflow	
HIGH	m ³ /h	650
	l/s	181
	CFM	383
MED	m ³ /h	520
	l/s	144
	CFM	306
LOW	m ³ /h	400
	l/s	111
	CFM	235
QUIET	m ³ /h	270
	l/s	75
	CFM	159

● Heating

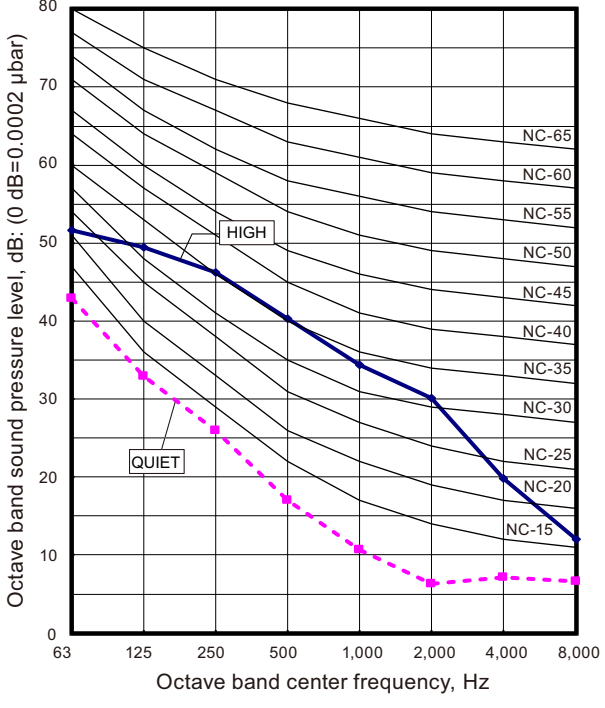
Fan speed	Airflow	
HIGH	m ³ /h	650
	l/s	181
	CFM	383
MED	m ³ /h	520
	l/s	144
	CFM	306
LOW	m ³ /h	390
	l/s	108
	CFM	230
QUIET	m ³ /h	270
	l/s	75
	CFM	159

6. Operation noise (sound pressure)

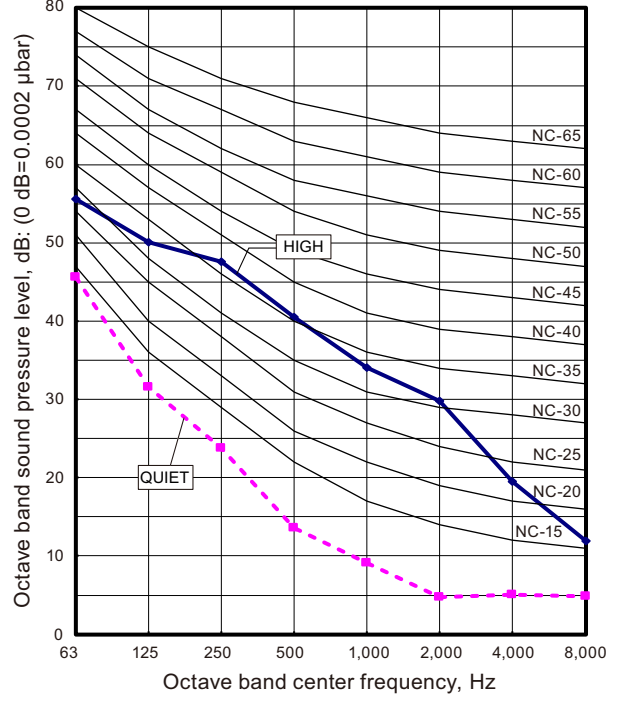
6-1. Noise level curve

Model: AGYG09KVCA

● Cooling

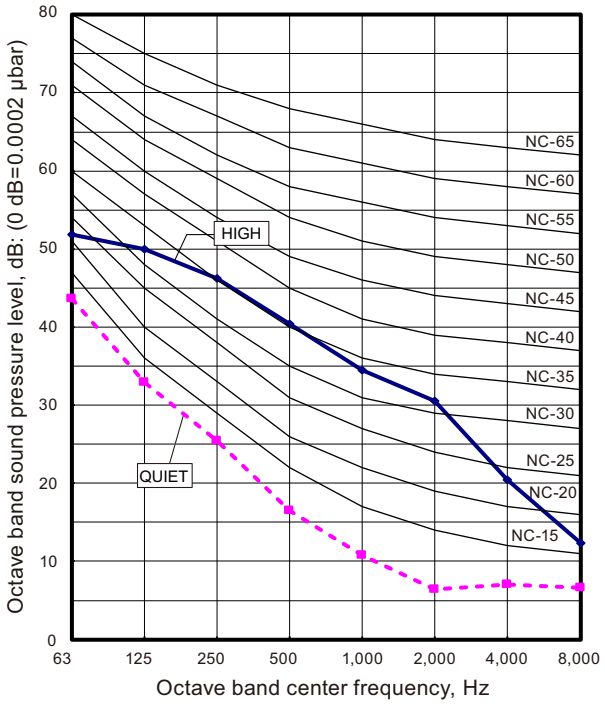


● Heating

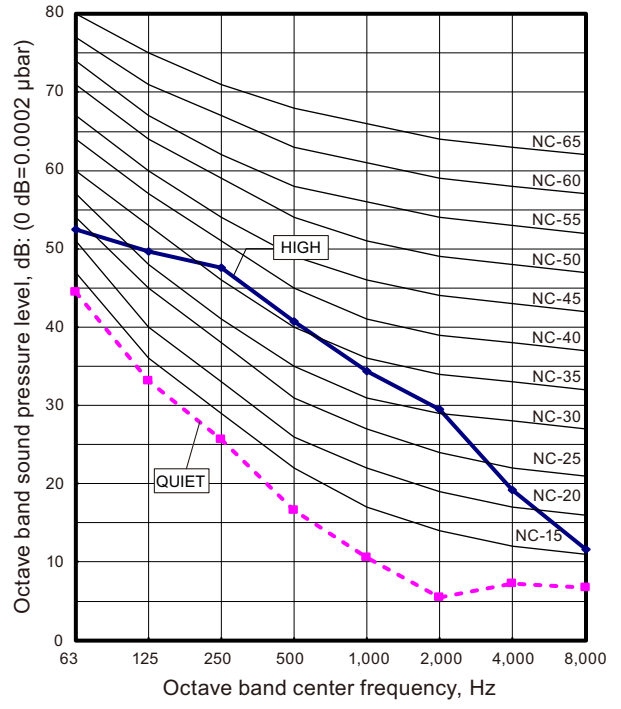


Model: AGYG12KVCA

● Cooling

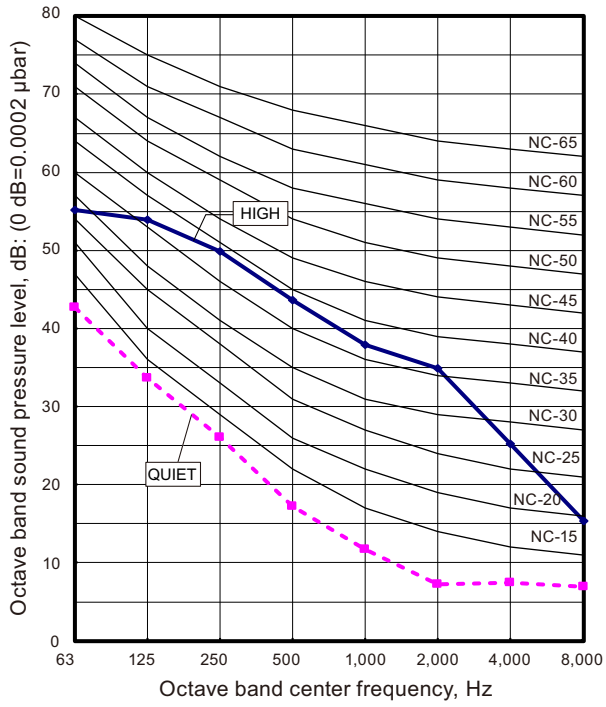


● Heating

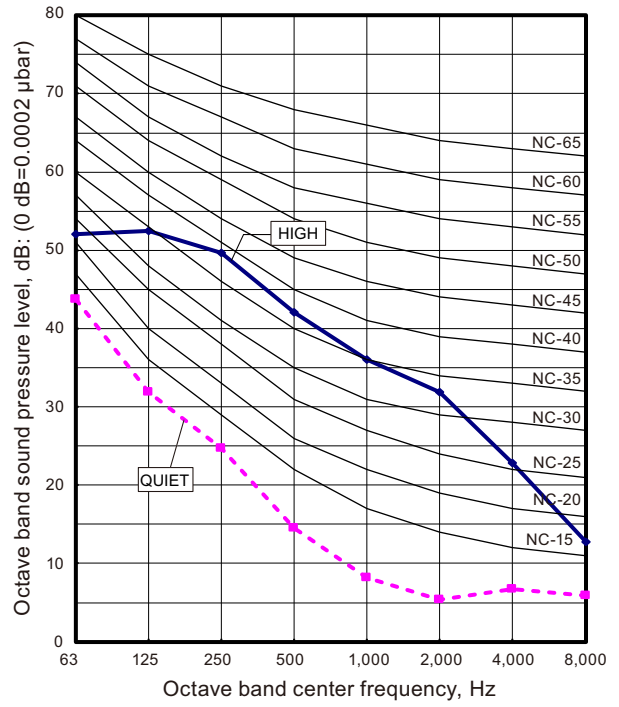


Model: AGYG14KVCA

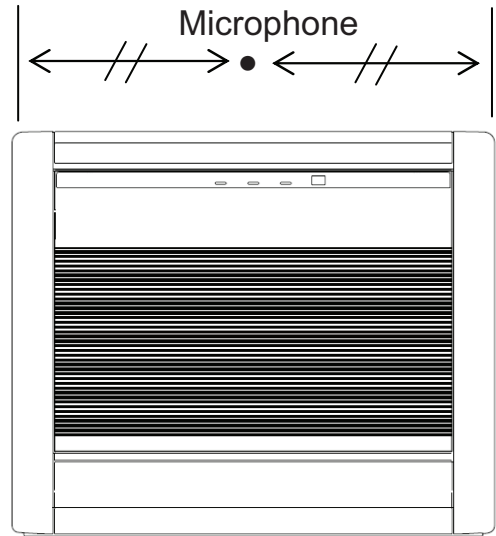
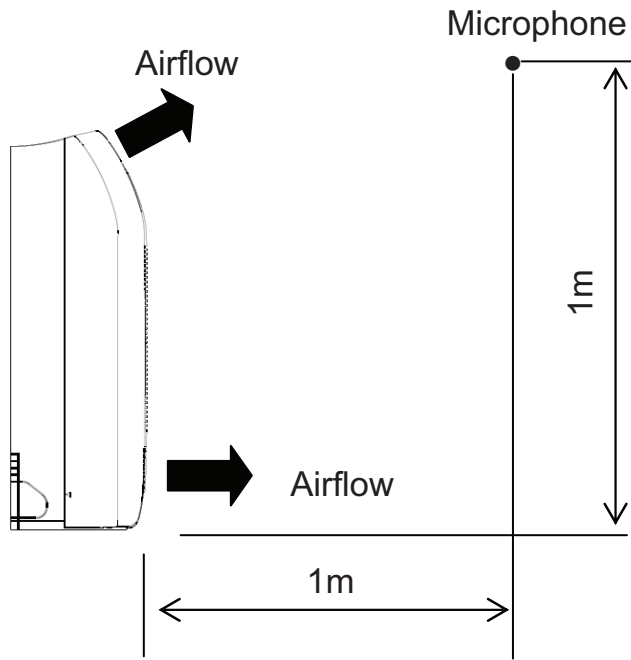
● Cooling



● Heating



6-2. sound level check point

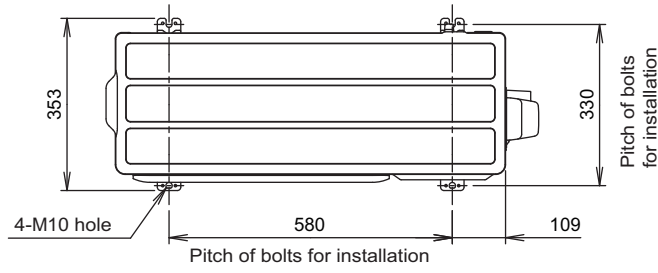


2-2. Model: AOYG14KVCA

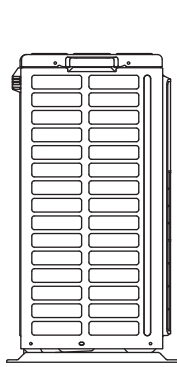
Unit: mm

OUTDOOR UNIT
AOYG09-14KVCA

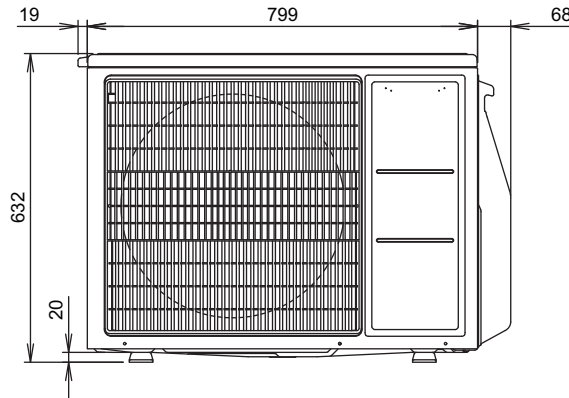
OUTDOOR UNIT
AOYG09-14KVCA



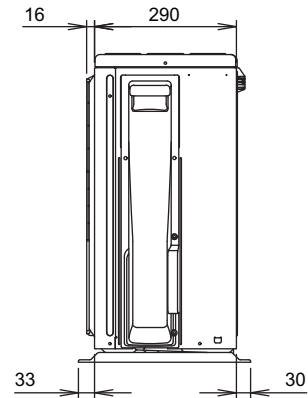
Top view



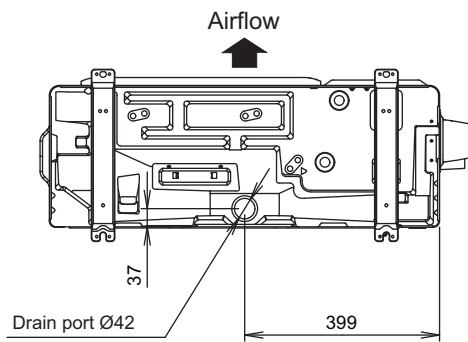
Side view



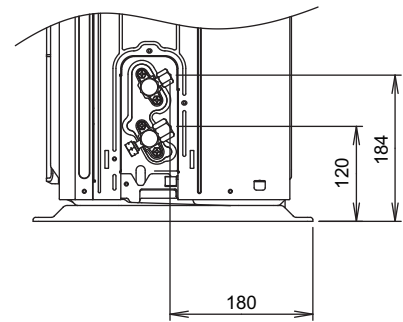
Front view



Side view



Bottom view



Side view (Valve part)

3. Installation space

3-1. Models: AOYG09KVCA, AOYG12KVCA, and AOYG14KVCA

■ Space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

Keep the space shown in the installation examples.

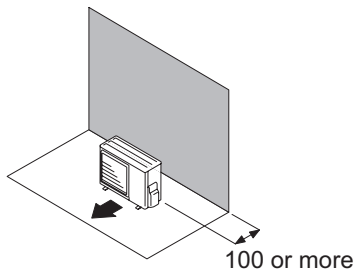
If the installation is not performed accordingly, it could cause a short circuit and result in a lack of operating performance.

● Single outdoor unit installation

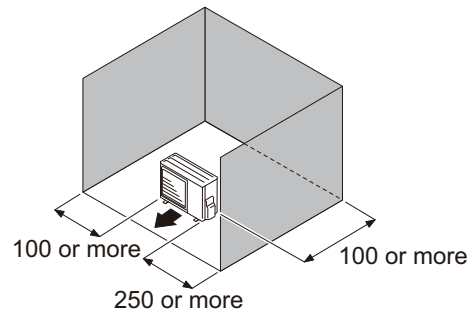
- When the upper space is open:

Unit: mm

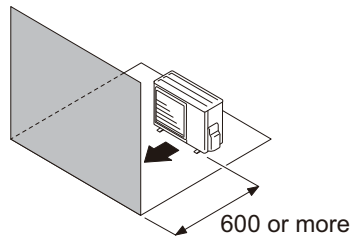
Obstacles at rear only



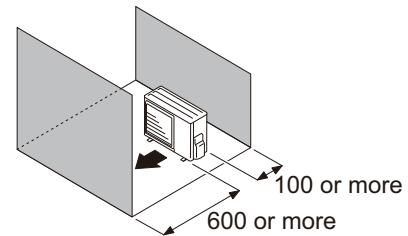
Obstacles at rear and sides



Obstacles at front



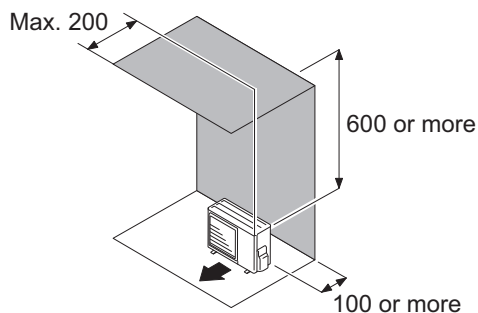
Obstacles at front and rear



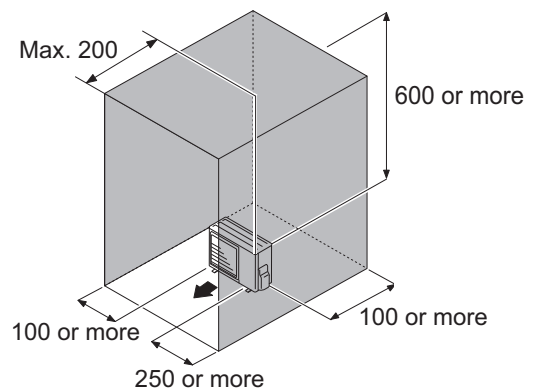
- When an obstruction in the upper space:

Unit: mm

Obstacles at rear and above



Obstacles at rear, sides, and above

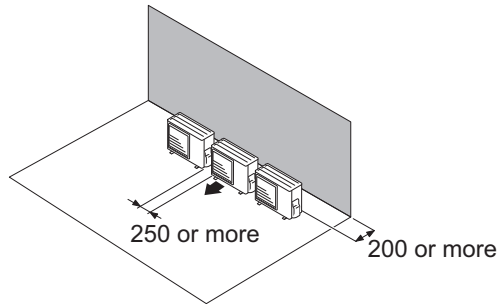


● Multiple outdoor unit installation

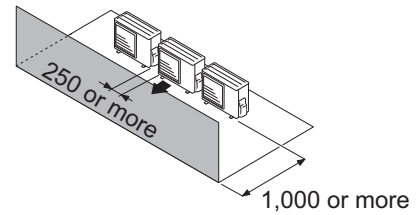
- Provide at least 250 mm of space between the outdoor units if multiple units are installed.
- When routing the piping from the side of an outdoor unit, provide space for piping.
- No more than 3 units must be installed side by side.
When 4 units or more are arranged in a line, provide the space as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

Unit: mm

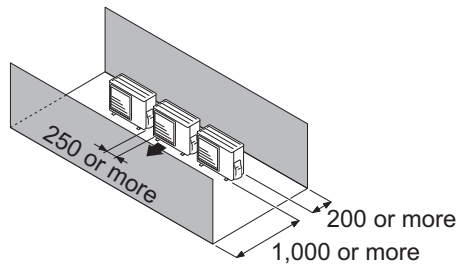
Obstacles at rear only



Obstacles at front only



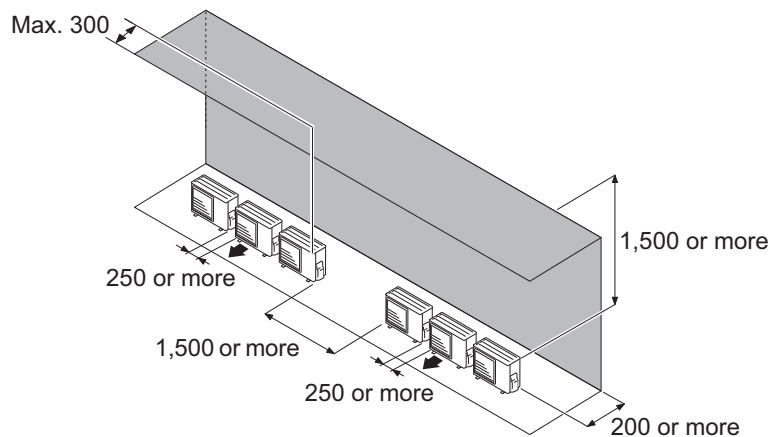
Obstacles at front and rear



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

Unit: mm

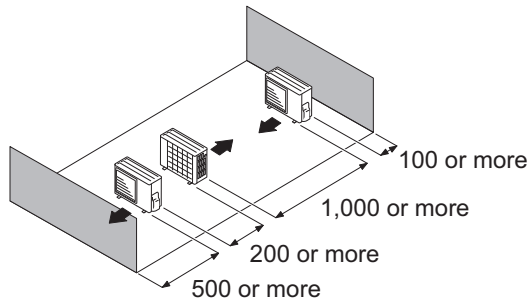
Obstacles at rear and above.



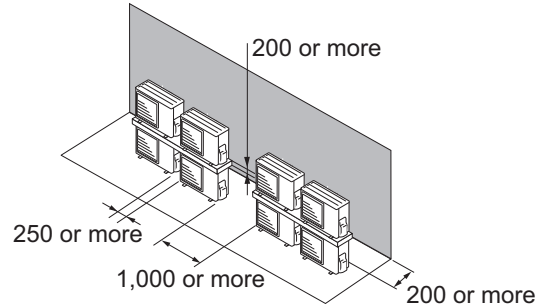
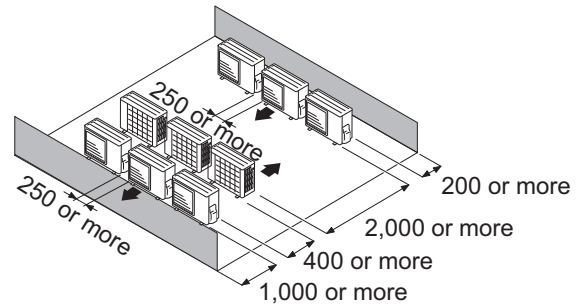
● Outdoor units installation in multi-row

Unit: mm

Single parallel unit arrangement



Multiple parallel unit arrangement

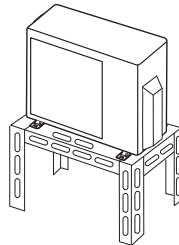


NOTES:

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

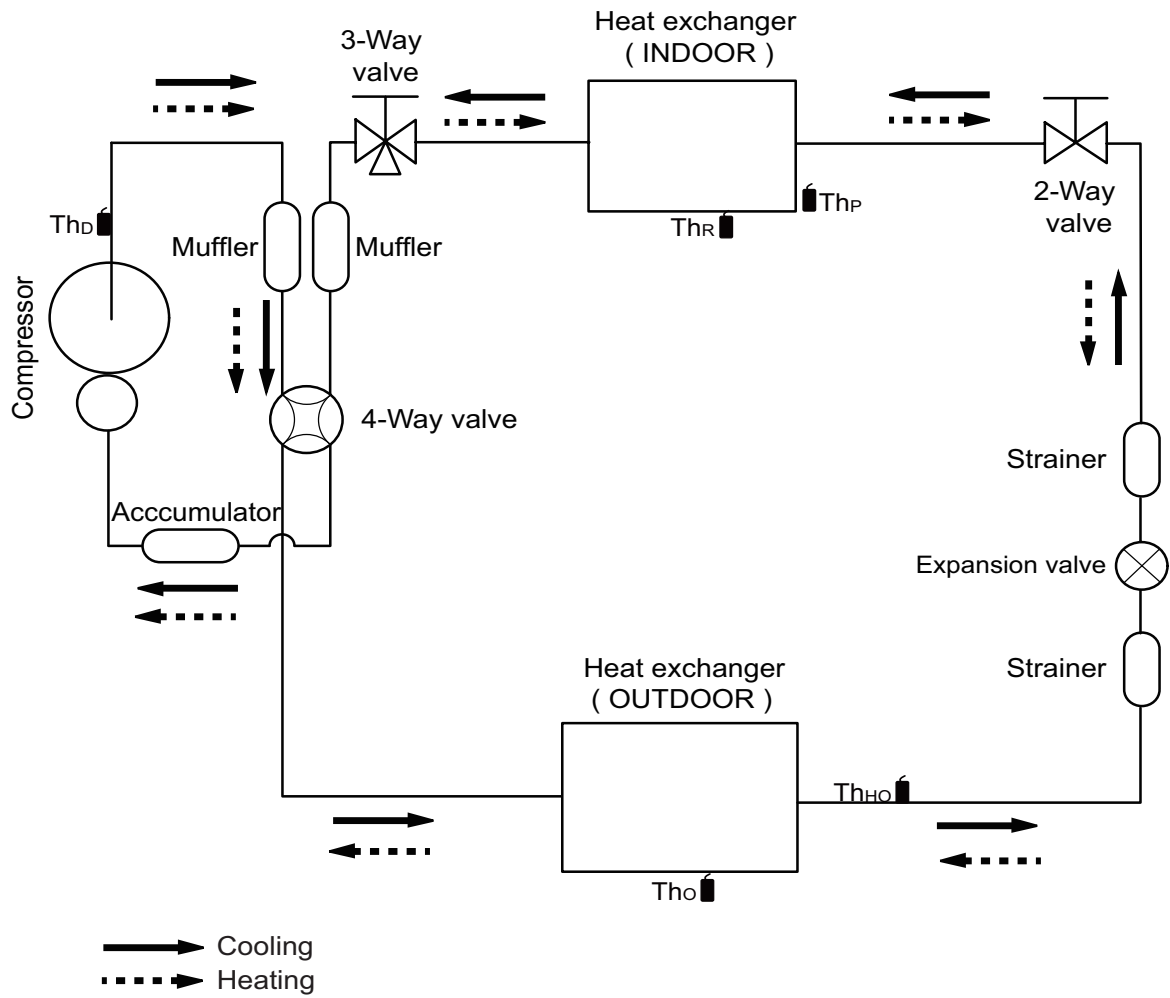
⚠ CAUTION

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



4. Refrigerant circuit

4-1. Models: AOYG09KVCA and AOYG12KVCA

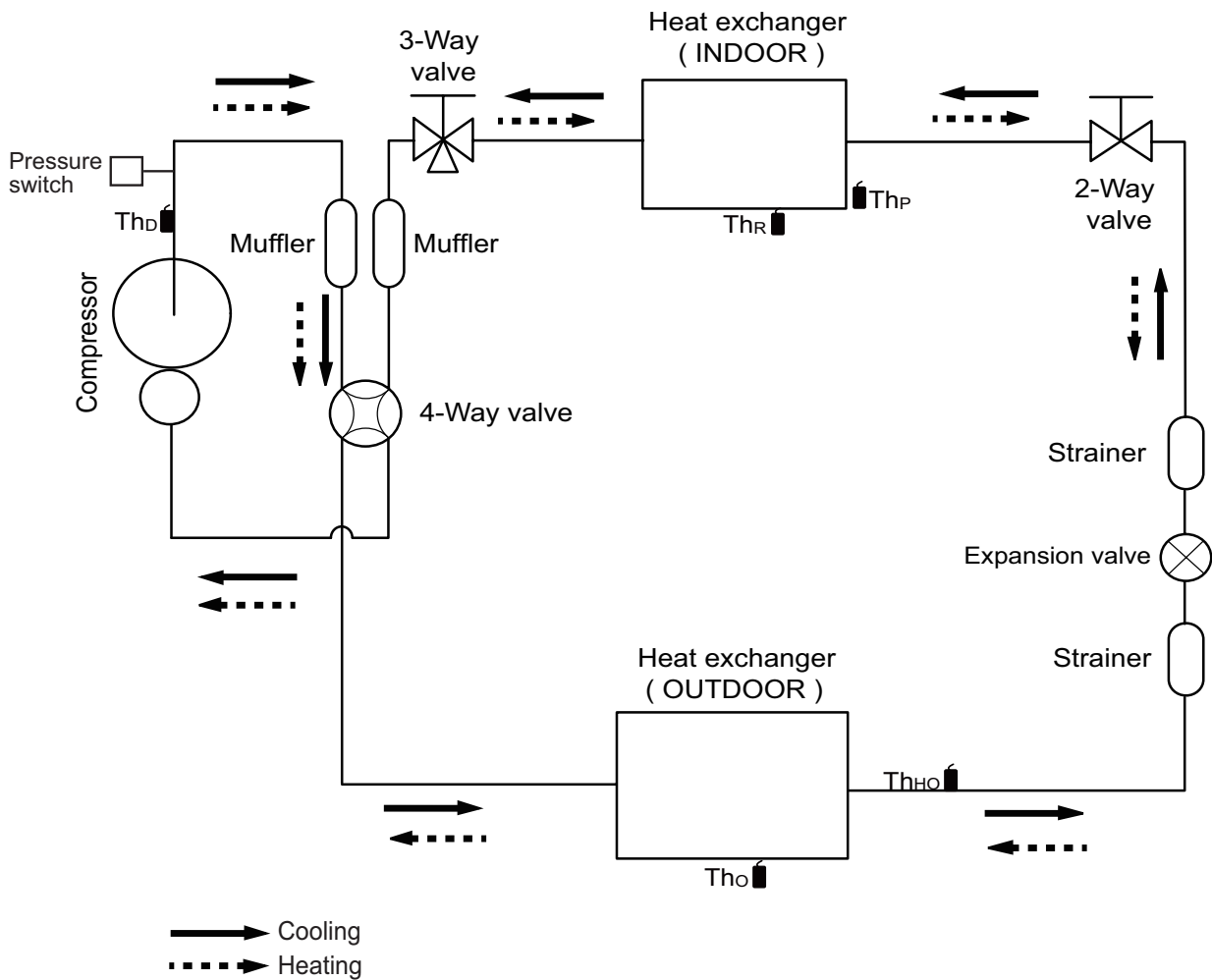


- Th_D : Thermistor (Discharge Temp.)
- Th_O : Thermistor (Outdoor Temp.)
- Th_{HO} : Thermistor (Heat Exchanger Out Temp.)
- Th_R : Thermistor (Room Temp.)
- Th_P : Thermistor (Pipe Temp.)

OUTDOOR UNIT
AOYG09-14KVCA

OUTDOOR UNIT
AOYG09-14KVCA

4-2. Model: AOYG14KVCA



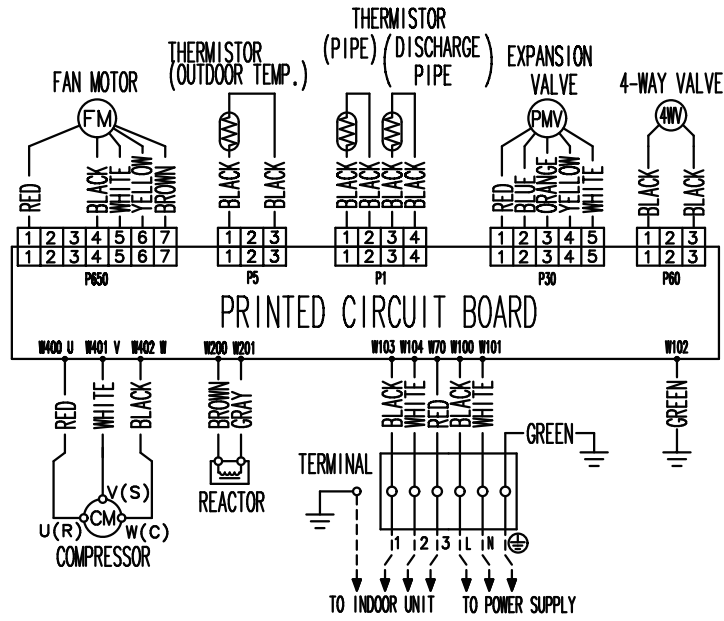
- Th_D : Thermistor (Discharge Temp.)
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- Th_{HO} : Thermistor (Heat Exchanger Out Temp.)
- Th_R : Thermistor (Room Temp.)
- Th_P : Thermistor (Pipe Temp.)

OUTDOOR UNIT
AOYG09-14KVCA

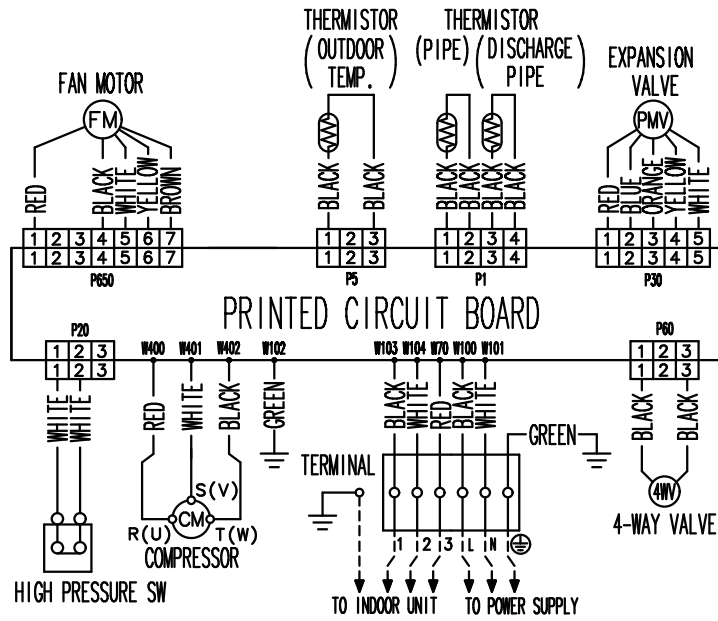
OUTDOOR UNIT
AOYG09-14KVCA

5. Wiring diagrams

5-1. Models: AOYG09KVCA and AOYG12KVCA



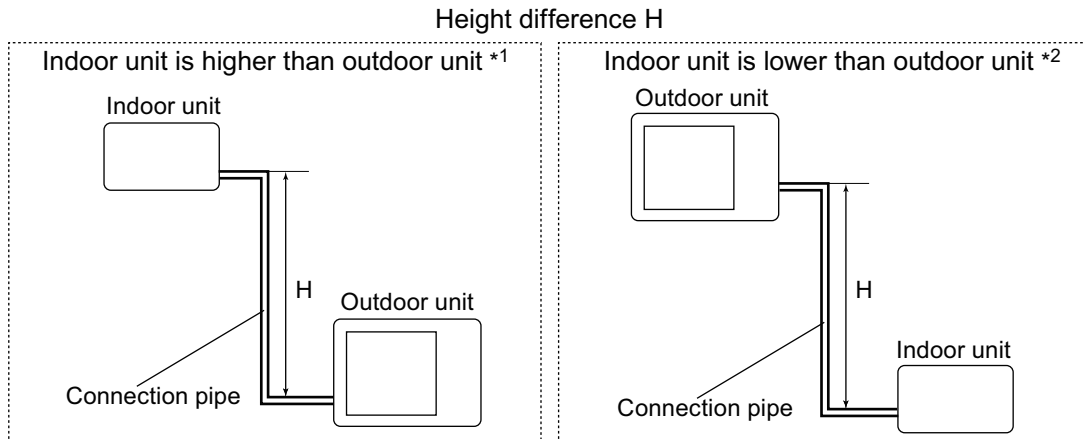
5-2. Model: AOYG14KVCA



OUTDOOR UNIT
AOYG09-14KVCA

OUTDOOR UNIT
AOYG09-14KVCA

6. Capacity compensation rate for pipe length and height difference



6-1. Models: AOYG09KVCA and AOYG12KVCA

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

COOLING			Pipe length (m)				
			5	7.5	10	15	20
Height difference H (m)	Indoor unit is higher than outdoor unit *1	15	—	—	—	0.915	0.905
		10	—	—	0.955	0.922	0.912
		7.5	—	0.974	0.959	0.926	0.916
		5	0.992	0.978	0.963	0.930	0.920
	Indoor unit is lower than outdoor unit *2	0	1.000	0.986	0.971	0.937	0.927
		-5	1.000	0.986	0.971	0.937	0.927
		-7.5	—	0.986	0.971	0.937	0.927
		-10	—	—	0.971	0.937	0.927
		-15	—	—	—	0.937	0.927

HEATING			Pipe length (m)				
			5	7.5	10	15	20
Height difference H (m)	Indoor unit is higher than outdoor unit *1	15	—	—	—	0.863	0.846
		10	—	—	0.944	0.863	0.846
		7.5	—	0.978	0.944	0.863	0.846
		5	1.000	0.978	0.944	0.863	0.846
	Indoor unit is lower than outdoor unit *2	0	1.000	0.978	0.944	0.863	0.846
		-5	0.995	0.973	0.939	0.858	0.842
		-7.5	—	0.971	0.937	0.856	0.840
		-10	—	—	0.934	0.854	0.838
		-15	—	—	—	0.794	0.778

6-2. Model: AOYG14KVCA

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

COOLING			Pipe length (m)				
			5	7.5	10	15	20
Height difference H (m)	Indoor unit is higher than outdoor unit *1	15	—	—	—	0.950	0.946
		10	—	—	0.976	0.958	0.954
		7.5	—	0.984	0.980	0.962	0.958
		5	0.992	0.988	0.984	0.966	0.962
	Indoor unit is lower than outdoor unit *2	0	1.000	0.996	0.992	0.974	0.969
		-5	1.000	0.996	0.992	0.974	0.969
		-7.5	—	0.996	0.992	0.974	0.969
		-10	—	—	0.992	0.974	0.969
		-15	—	—	—	0.974	0.969

HEATING			Pipe length (m)				
			5	7.5	10	15	20
Height difference H (m)	Indoor unit is higher than outdoor unit *1	15	—	—	—	0.853	0.824
		10	—	—	0.943	0.853	0.824
		7.5	—	0.982	0.943	0.853	0.824
		5	1.000	0.982	0.943	0.853	0.824
	Indoor unit is lower than outdoor unit *2	0	1.000	0.982	0.943	0.853	0.824
		-5	0.995	0.977	0.938	0.848	0.820
		-7.5	—	0.975	0.936	0.846	0.818
		-10	—	—	0.933	0.844	0.816
		-15	—	—	—	0.785	0.758

7. Additional charge calculation

7-1. Models: AOYG09KVCA and AOYG12KVCA

Refrigerant type		R32		
Refrigerant amount	g	850		
Refrigerant charge				
Total pipe length	m	15 or less	20 (Max.)	20 g/m
Additional charge	g	0	100	

7-2. Model: AOYG14KVCA

Refrigerant type		R32		
Refrigerant amount	g	940		
Refrigerant charge				
Total pipe length	m	15 or less	20 (Max.)	20 g/m
Additional charge	g	0	100	

8. Airflow

8-1. Model: AOYG09KVCA

● Cooling

m ³ /h	1,530
l/s	425
CFM	901

● Heating

m ³ /h	1,510
l/s	419
CFM	889

8-2. Model: AOYG12KVCA

● Cooling

m ³ /h	1,530
l/s	425
CFM	901

● Heating

m ³ /h	1,510
l/s	419
CFM	889

8-3. Model: AOYG14KVCA

● Cooling

m ³ /h	2,210
l/s	614
CFM	1,301

● Heating

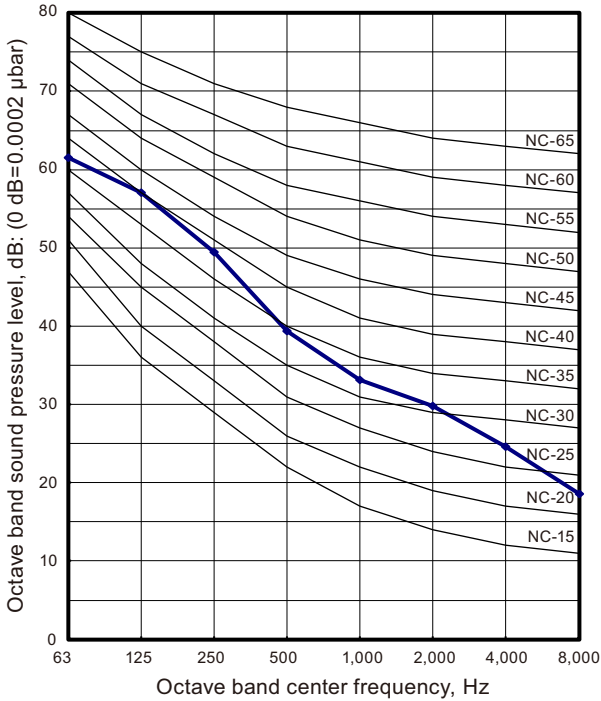
m ³ /h	2,100
l/s	583
CFM	1,236

9. Operation noise (sound pressure)

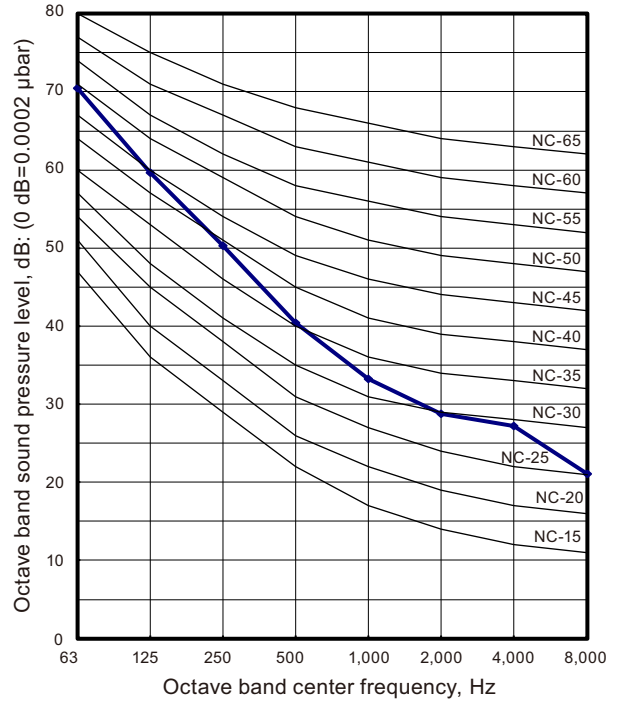
9-1. Noise level curve

Model: AOYG09KVCA

Cooling

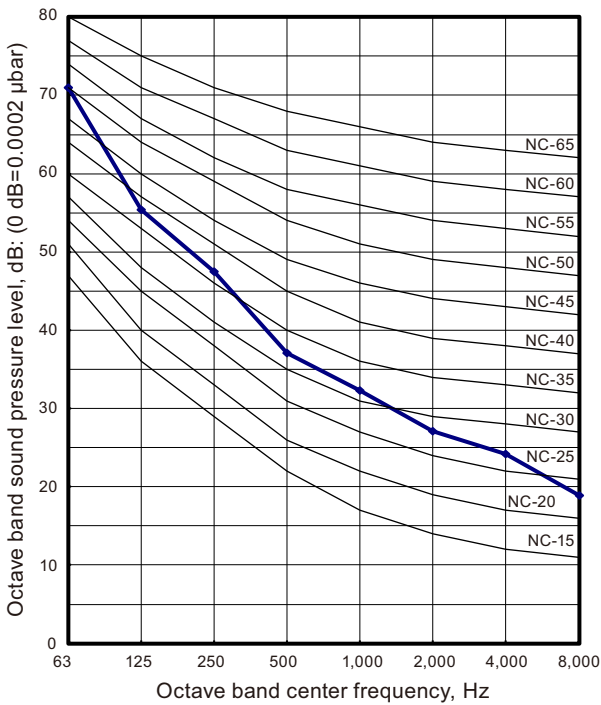


Heating

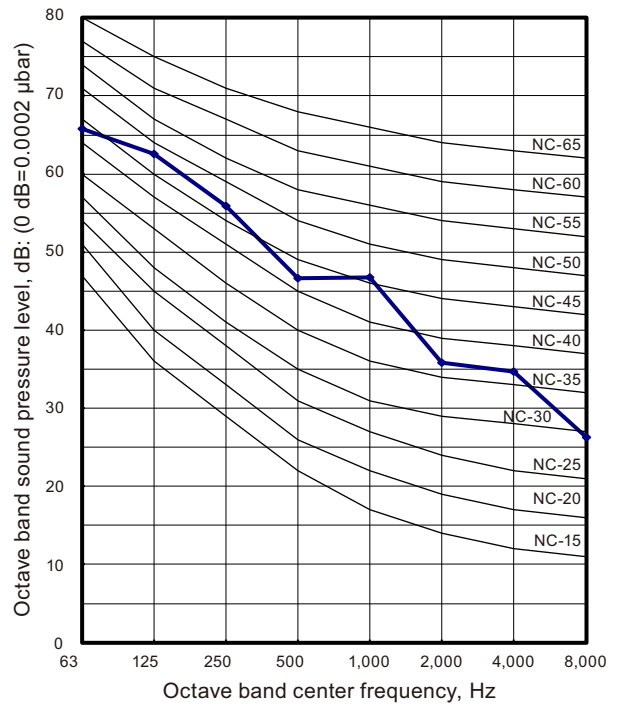


Model: AOYG12KVCA

Cooling



Heating

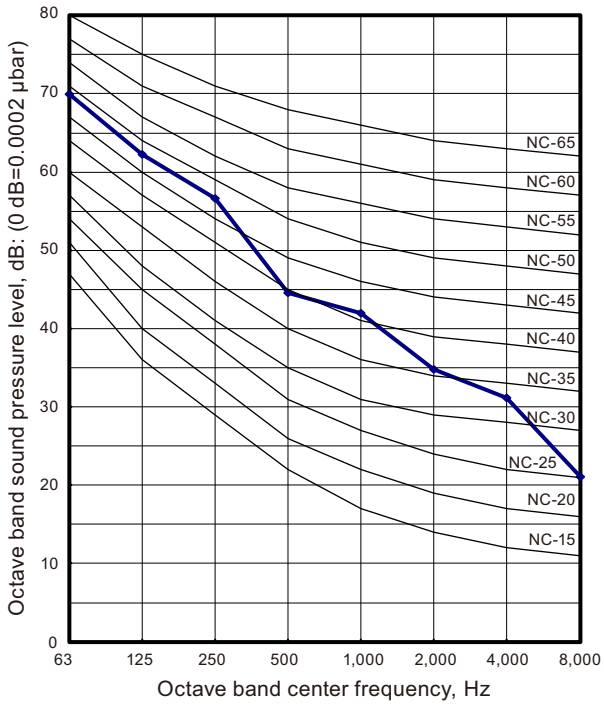


Model: AOYG14KVCA

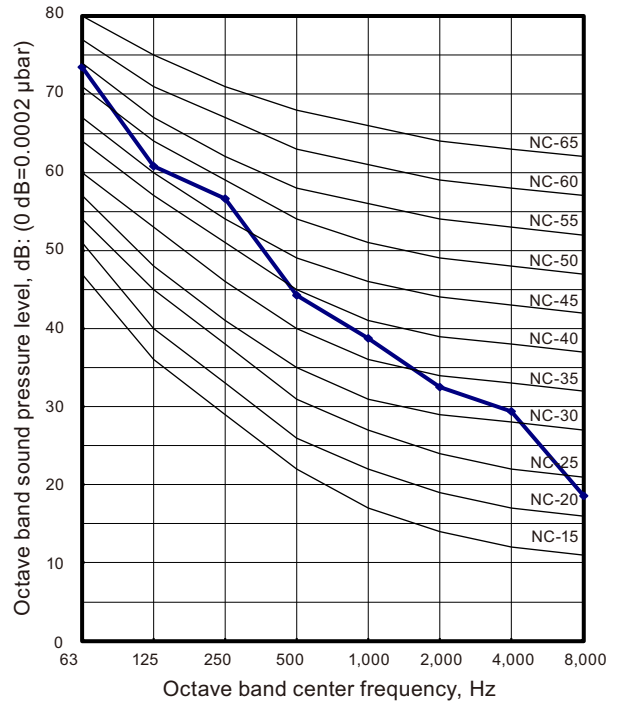
OUTDOOR UNIT
AOYG09-14KVCA

OUTDOOR UNIT
AOYG09-14KVCA

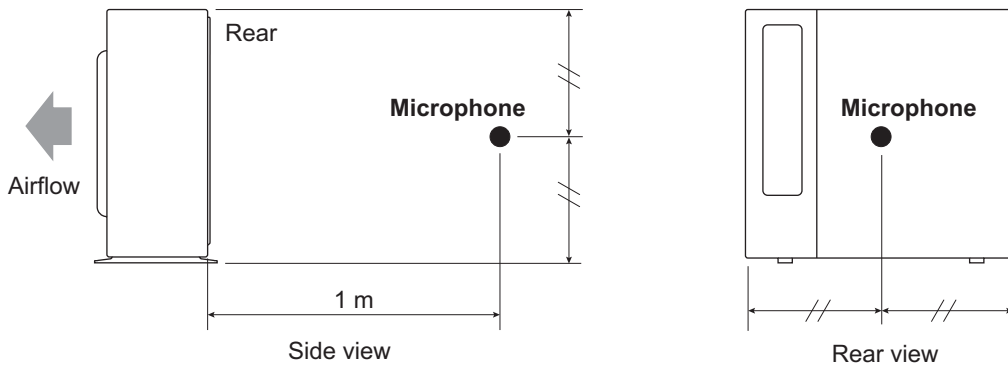
● Cooling



● Heating



9-2. Sound level check point



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

10. Electrical characteristics

Model name			AOYG09KVCA	AOYG12KVCA	AOYG14KVCA	
Power supply	Voltage	V	230			
	Frequency	Hz	50			
Max operating current *1		A	8.5	8.5	12	
Starting current		A	4.1	5.7	6.2	
Wiring spec. *2	Circuit breaker current		A	10	10	16
	Power cable		mm ²	1.5		
	Connection cable *3	Cross-sectional area	mm ²	1.5		
		Limited wiring length	m	21		

*1: Maximum operating current is the total current of the indoor unit and the outdoor unit.

*2: Selected sample based on Japan Electrotechnical Standards and Codes Committee E0005. As the regulations of wire size and circuit breaker differ in each country or region, select appropriate devices complied to the regional standard.

*3: Limit voltage drop to less than 2%. If voltage drop is 2% or more, increase cable conductor size.



11. Safety devices

Type of protection	Protection form		Model		
			AOYG09KVCA	AOYG12KVCA	AOYG14KVCA
Circuit protection	Current fuse (PCB*)		250 V, 20 A		250 V, 25 A
			250 V, 5 A		250 V, 5 A
			250 V, 3.15 A		250 V, 3.15 A
Fan motor protection	Thermal protection program	Activate	100±15 °C Fan motor stop		125±10 °C Fan motor stop
		Reset	95±10 °C Fan motor restart		120±10 °C Fan motor restart
Compressor protection	Thermal protection program (Discharge temp.)	Activate	110 °C Compressor stop		
		Reset	After 7 minutes Compressor restart		

*PCB: Printed Circuit Board

12. Accessories

12-1. Models: AOYG09KVCA, AOYG12KVCA, and AOYG14KVCA

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Installation manual		1	Drain pipe		1