

SAMSUNG

VRF

Technical Data Book

Duct for Europe
(R410A, 50/60Hz)



History

Version	Modification	Date	Remark
Ver. 1.0	Release Duct TDB for Europe	21.03.02	-
Ver. 1.1	Modified some errors regarding the drain pump	21.07.20	-
Ver. 1.2	Modified the summary page	21.11.16	-
Ver. 1.3	Modified the Specification page	23.04.20	-

Nomenclature

Indoor Units

Model Names

AM	036	A	N	L	D	K	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	VRF
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(2) Capacity

x 1/10 kW (3 digits)

(3) Version

M	2017
A	2021

(4) Product Type

N	Indoor Unit(NASA)
X	Outdoor Unit(NASA)

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
4	4Way Cassette S
N	4Way Cassette S(600x600)
L	LSP Duct
M	MSP Duct
H	HSP Duct
T	Neo Forte
Q	Neo Forte(EEV)
C	Ceiling
J	Console
F	Floor Standing
K	ERV Plus
B	Hydro Unit

(6) Feature

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Rating Voltage

E	220~240V, 50Hz, 1Ø
K	220~240V, 50/60Hz, 1Ø
G	380~415V, 50Hz, 3Ø

(8) Mode

B	Heat Pump(R134a)
H	Heat Pump(R410A)

Features & Benefits

Simple set up, automatically even cooling

Smart pressure control

Enjoy maximum comfort and efficiency with minimum effort. The Smart Pressure Control automatically optimizes the air volume and pressure and minimizes noise, ensuring consistent cooling and heating in any situation. The external static pressure (ESP) can also be adjusted using a remote control



Slim & Compact Design (199mm Height)

Enhance the look and feel of almost any space. Being 199mm high and 700mm* wide, its slim and compact design is highly elegant, so it can be discretely concealed in many locations. It also makes installation, maintenance and repair quick and easy, so it's ideal for a wide range of businesses.



* Based on the AM017~071ANLDKH/EU model.
The width of other models may vary.

Flexible installation in more locations (Optional High Lift-Up Drain Pump)



Enjoy a greater choice of installation locations and maintain it conveniently. An optional High Lift-Up Drain Pump lifts condensed water up to 750mm, compared with the previous limit of 700mm. And you can check, repair or install a new drain pump by simply removing the right-side panel.

Line-up

Duct

Indoor unit

	Capacity (kW)										
	1.7	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	12.8	14.0
Image											

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1. Specification

Model Name				AM017ANLDKH/EU	AM022ANLDKH/EU	AM028ANLDKH/EU
Power Supply			Φ, #, V, Hz	1,220~240,50/60	1,220~240,50/60	1,220~240,50/60
Performance	Capacity	Cooling	kW	1.7	2.2	2.8
			Btu/h	5,800	7,500	9,600
		Heating	kW	1.9	2.5	3.2
			Btu/h	6,500	8,500	10,900
Power	Power Input	Cooling	W	28.0	30.0	34.0
		Heating		28.0	30.0	36.0
	Current Input	Cooling	A	0.2	0.3	0.3
		Heating		0.2	0.3	0.3
	Current	MCA	A	0.35	0.38	0.45
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2
	Air Flow Rate	H/M/L	m³/min	5.45 / 4.45 / 3.8	6 / 4.9 / 3.8	7.05 / 5.15 / 4.35
			l/s	91 / 74 / 63	100 / 82 / 63	118 / 86 / 73
	External Pressure	Min/Std/Max	mmAq	0 / 1 / 3	0 / 1 / 3	0 / 1 / 3
			Pa	0 / 9.81 / 29.42	0 / 9.81 / 29.42	0 / 9.81 / 29.42
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	69 x 1	69 x 1	69 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe		Φ,inch	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)
Wiring connections	Communication (Min.)		mm²	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	25 / 22 / 19	26 / 23 / 19	28 / 24 / 19
	Sound Power Level	Cooling		40	42	44
External Dimension	Net Weight		kg	14.9	14.9	14.9
	Shipping Weight		kg	18.2	18.2	18.2
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	949 x 280 x 544	949 x 280 x 544
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	MDP-Z075SZED	MDP-Z075SZED	MDP-Z075SZED
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Pre-filter included	Pre-filter included	Pre-filter included

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant piping length 7.5m, Level differences 0m
 - 2) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - 3) Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level, - Reference power : 1pW, - Measured according to ISO 3741
 - 5) Select wire size based on the value of MCA

1. Specification

Model Name				AM036ANLDKH/EU	AM045ANLDKH/EU	AM056ANLDKH/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	3.6	4.5	5.6
			Btu/h	12,300	15,400	19,100
		Heating	kW	4.0	5.0	6.3
			Btu/h	13,600	17,100	21,500
Power	Power Input	Cooling	W	40.0	51.0	73.0
		Heating		42.0	46.0	68.0
	Current Input	Cooling	A	0.3	0.5	0.6
		Heating		0.4	0.4	0.6
	Current	MCA	A	0.53	0.64	0.92
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2
	Air Flow Rate	H/M/L	m³/min	8.2 / 6.5 / 4.9	12.5 / 10 / 7.5	15.5 / 12.5 / 9.5
			l/s	137 / 108 / 82	208 / 167 / 125	258 / 208 / 158
	External Pressure	Min/Std/Max	mmAq	0 / 1 / 3	0 / 2 / 4	0 / 2 / 4
			Pa	0 / 9.81 / 29.42	0 / 19.61 / 39.23	0 / 19.61 / 39.23
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	69 x 1	84 x 1	84 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe		Φ,inch	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)
Wiring connections	Communication (Min.)		mm²	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	31 / 26 / 20	32 / 28 / 25	34 / 30 / 26
	Sound Power Level	Cooling		46	47	49
External Dimension	Net Weight		kg	15.3	18.8	18.8
	Shipping Weight		kg	18.6	21.8	21.8
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	900 x 199 x 440	900 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	1,151 x 280 x 544	1,151 x 280 x 544
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	MDP-Z075SZED	MDP-Z075SZED	MDP-Z075SZED
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Pre-filter included	Pre-filter included	Pre-filter included

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant piping length 75m, Level differences 0m
 - 2) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - 3) Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level, - Reference power : 1pW, - Measured according to ISO 3741
 - 5) Select wire size based on the value of MCA

1. Specification

Model Name				AM071ANLDKH/EU	AM090ANLDKH/EU	AM112ANLDKH/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	7.1	9.00	11.20
			Btu/h	24,200	30,700	38,200
		Heating	kW	8.0	10.00	12.50
			Btu/h	27,300	34,100	42,700
Power	Power Input	Cooling	W	82.0	170.0	170.0
		Heating		77.0	170.0	170.0
	Current Input	Cooling	A	0.7	1.0	1.0
		Heating		0.7	1.0	1.0
	Current	MCA	A	1.04	1.38	1.38
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3	3
	Air Flow Rate	H/M/L	m³/min	18 / 14.5 / 11	29 / 27 / 25	31 / 29 / 27
			l/s	300 / 242 / 183	483 / 450 / 417	520 / 483 / 450
	External Pressure	Min/Std/Max	mmAq	0 / 2 / 4	0 / 3 / 6	0 / 3 / 6
			Pa	0 / 19.61 / 39.23	0 / 29.42 / 58.84	0 / 29.42 / 58.84
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	84 x 1	183 x 1	183 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)
Wiring connections	Communication (Min.)		mm²	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	34 / 30 / 27	37 / 36 / 34	37 / 36 / 34
	Sound Power Level	Cooling		49	66	66
External Dimension	Net Weight		kg	22.0	40.0	40.0
	Shipping Weight		kg	25.6	47.0	47.0
	Net Dimensions (W×H×D)		mm	1100 x 199 x 440	1300 x 295 x 690	1300 x 295 x 690
	Shipping Dimensions (W×H×D)		mm	1,351 x 280 x 544	1575 x 370 x 835	1575 x 370 x 835
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	MDP-Z075SZED	MDP-E075SEE3D	MDP-E075SEE3D
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Pre-filter included	Pre-filter included	Pre-filter included

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant piping length 7.5m, Level differences 0m
 - 2) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - 3) Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level, - Reference power : 1pW, - Measured according to ISO 3741
 - 5) Select wire size based on the value of MCA

1. Specification

Model Name				AM128ANLDKH/EU	AM140ANLDKH/EU	AM090MNLDKH/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	12.80	14.00	9.00
			Btu/h	43,700	47,800	30,700
		Heating	kW	13.80	16.00	10.00
			Btu/h	47,100	54,600	34,100
Power	Power Input	Cooling	W	200.0	220.0	170.0
		Heating		200.0	220.0	170.0
	Current Input	Cooling	A	1.3	1.4	1.0
		Heating		1.3	1.4	1.0
	Current	MCA	A	1.75	1.92	1.38
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3	3
	Air Flow Rate	H/M/L	m³/min	34 / 32 / 30	36 / 34 / 32	29 / 27 / 25
			l/s	567 / 533 / 500	600 / 567 / 533	483 / 450 / 417
	External Pressure	Min/Std/Max	mmAq	0 / 3 / 6	0 / 3 / 6	0 / 3 / 6
			Pa	0 / 29.42 / 58.84	0 / 29.42 / 58.84	0 / 29.42 / 58.84
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	183 x 1	183 x 1	183 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 25,ID 20)	VP25 (OD 32,ID 25)	VP25 (OD 25,ID 20)
Wiring connections	Communication (Min.)		mm²	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	37 / 36 / 34	39 / 38 / 36	37 / 36 / 34
	Sound Power Level	Cooling		66	68	66
External Dimension	Net Weight		kg	41.5	41.5	40.5
	Shipping Weight		kg	48.5	48.5	48.0
	Net Dimensions (W×H×D)		mm	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
	Shipping Dimensions (W×H×D)		mm	1575 x 370 x 835	1575 x 370 x 835	1575 x 370 x 835
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	MDP-E075SEE3D	MDP-E075SEE3D	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Pre-filter included	Pre-filter included	Pre-filter included

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant piping length 75m, Level differences 0m
 - 2) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - 3) Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level, - Reference power : 1pW, - Measured according to ISO 3741
 - 5) Select wire size based on the value of MCA

1. Specification

Model Name				AM112MNLDKH/EU	AM128MNLDKH/EU	AM140MNLDKH/EU
Power Supply			Φ, #, V, Hz	1,220~240,50/60	1,220~240,50/60	1,220~240,50/60
Performance	Capacity	Cooling	kW	11.20	12.80	14.00
			Btu/h	38,200	43,700	47,800
		Heating	kW	12.50	13.80	16.00
			Btu/h	42,700	47,100	54,600
Power	Power Input	Cooling	W	170.0	200.0	220.0
		Heating		170.0	200.0	220.0
	Current Input	Cooling	A	1.0	1.3	1.4
		Heating		1.0	1.3	1.4
	Current	MCA	A	1.38	1.75	1.92
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3	3
	Air Flow Rate	H/M/L	m³/min	31 / 29 / 27	34 / 32 / 30	36 / 34 / 32
			l/s	520 / 483 / 450	567 / 533 / 500	600 / 567 / 533
	External Pressure	Min/Std/Max	mmAq	0 / 3 / 6	0 / 3 / 6	0 / 3 / 6
			Pa	0 / 29.42 / 58.84	0 / 29.42 / 58.84	0 / 29.42 / 58.84
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	183 x 1	183 x 1	183 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 25,ID 20)	VP25 (OD 25,ID 20)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		mm²	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	37 / 36 / 34	37 / 36 / 34	39 / 38 / 36
	Sound Power Level	Cooling		66	66	68
External Dimension	Net Weight		kg	40.5	42.0	42.0
	Shipping Weight		kg	48.0	49.5	49.5
	Net Dimensions (W×H×D)		mm	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
	Shipping Dimensions (W×H×D)		mm	1575 x 370 x 835	1575 x 370 x 835	1575 x 370 x 835
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	Built in	Built in	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Pre-filter included	Pre-filter included	Pre-filter included

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant piping length 7.5m, Level differences 0m
 - 2) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - 3) Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level, - Reference power : 1pW, - Measured according to ISO 3741
 - 5) Select wire size based on the value of MCA

2. Summary Table

Duct

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity [kW]			Airflow [CMM]	Sound Pressure [dBA]	Sound Power [dBA]	Static Pressure (Min/Std/Max) [mmAq]
		Cooling	Sensible	Heating				
AM017ANLDKH/EU	High	1.7	1.2	1.9	5.45	25	40	0 / 1 / 3
	Mid	1.4	1.0	1.7	4.45	22	-	
	Low	1.2	0.8	1.6	3.8	19	-	
AM022ANLDKH/EU	High	2.2	1.5	2.5	6	26	42	0 / 1 / 3
	Mid	1.8	1.2	2.3	4.9	23	-	
	Low	1.4	1.0	2.0	3.8	19	-	
AM028ANLDKH/EU	High	2.8	1.9	3.2	7.05	28	44	0 / 1 / 3
	Mid	2.1	1.4	2.7	5.15	24	-	
	Low	1.8	1.2	2.5	4.35	19	-	
AM036ANLDKH/EU	High	3.6	2.6	4.0	8.2	31	46	0 / 1 / 3
	Mid	2.9	2.1	3.6	6.5	26	-	
	Low	2.2	1.6	3.1	4.9	20	-	
AM045ANLDKH/EU	High	4.5	3.3	5.0	12.5	32	47	0 / 2 / 4
	Mid	3.7	2.7	4.5	10	28	-	
	Low	2.8	2.1	3.9	7.5	25	-	
AM056ANLDKH/EU	High	5.6	4.2	6.3	15.5	34	49	0 / 2 / 4
	Mid	4.6	3.5	5.7	12.5	30	-	
	Low	3.5	2.6	4.9	9.5	26	-	
AM071ANLDKH/EU	High	7.1	5.4	8.0	18	34	49	0 / 2 / 4
	Mid	5.9	4.5	7.2	14.5	30	-	
	Low	4.5	3.4	6.3	11	27	-	
AM090ANLDKH/EU	High	9.0	7.1	10.0	29	37	66	0 / 3 / 6
	Mid	8.5	6.7	9.6	27	36	-	
	Low	7.9	6.2	9.3	25	34	-	
AM112ANLDKH/EU	High	11.2	8.6	12.5	32	37	66	0 / 3 / 6
	Mid	10.1	7.8	11.8	28.5	36	-	
	Low	9.0	6.9	11.0	25	34	-	
AM128ANLDKH/EU	High	12.8	9.9	13.8	34.5	37	66	0 / 3 / 6
	Mid	11.7	9.0	13.1	31	36	-	
	Low	10.3	8.0	12.2	27	34	-	
AM140ANLDKH/EU	High	14.0	10.8	16.0	36	39	68	0 / 3 / 6
	Mid	13.3	10.3	15.5	34	38	-	
	Low	12.6	9.7	15.1	32	36	-	
AM090MNLDKH/EU	High	9.0	7.1	10.0	29	37	66	0 / 3 / 6
	Mid	8.5	6.7	9.6	27	36	-	
	Low	7.9	6.2	9.3	25	34	-	
AM112MNLDKH/EU	High	11.2	8.6	12.5	32	37	66	0 / 3 / 6
	Mid	10.1	7.8	11.8	28.5	36	-	
	Low	9.0	6.9	11.0	25	34	-	
AM128MNLDKH/EU	High	12.8	9.9	13.8	34.5	37	66	0 / 3 / 6
	Mid	11.7	9.0	13.1	31	36	-	
	Low	10.3	8.0	12.2	27	34	-	
AM140MNLDKH/EU	High	14.0	10.8	16.0	36	39	68	0 / 3 / 6
	Mid	13.3	10.3	15.5	34	38	-	
	Low	12.6	9.7	15.1	32	36	-	

2. Summary Table

Duct

Electrical Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM017ANLDKH/EU	1,2,220~240,50/60	28	0.23	0.35	15	0.28
AM022ANLDKH/EU		30	0.25	0.38	15	0.30
AM028ANLDKH/EU		34	0.28	0.45	15	0.36
AM036ANLDKH/EU		40	0.33	0.53	15	0.42
AM045ANLDKH/EU		51	0.45	0.64	15	0.52
AM056ANLDKH/EU		73	0.62	0.92	15	0.74
AM071ANLDKH/EU		82	0.69	1.04	15	0.83
AM090ANLDKH/EU		170	0.96	1.38	15	1.10
AM112ANLDKH/EU		170	0.96	1.38	15	1.10
AM128ANLDKH/EU		200	1.28	1.75	15	1.40
AM140ANLDKH/EU		220	1.43	1.92	15	1.54
AM090MNLDKH/EU		170	0.96	1.38	15	1.10
AM112MNLDKH/EU		170	0.96	1.38	15	1.10
AM128MNLDKH/EU		200	1.28	1.75	15	1.40
AM140MNLDKH/EU		220	1.43	1.92	15	1.54

NOTE

- MCA : Minimum circuit amperes
- MFA: Maximum fuse amperes
- FLA: Full load amperes
- Select wire size based on the value of MCA

Duct

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB) 14(°C,WB)		23(°C,DB) 16(°C,WB)		26(°C,DB) 18(°C,WB)		27(°C,DB) 19(°C,WB)		28(°C,DB) 20(°C,WB)		30(°C,DB) 22(°C,WB)		32(°C,DB) 24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
017	-5	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	-4	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	-2	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	0	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	2	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	4	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	6	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	8	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	10	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	12	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	14	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.4	2.0	1.2
	16	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	18	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	20	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	21	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	23	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	25	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	27	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	29	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	31	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	33	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	35	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	37	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
	39	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	1.9	1.2
	42	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	1.9	1.2
44	1.2	1.0	1.4	1.2	1.5	1.3	1.6	1.2	1.7	1.2	1.8	1.2	1.8	1.1	
46	1.2	1.0	1.4	1.2	1.5	1.2	1.6	1.2	1.7	1.2	1.7	1.2	1.7	1.1	
48	1.2	1.0	1.4	1.2	1.5	1.2	1.5	1.2	1.6	1.2	1.7	1.2	1.7	1.1	
50	1.2	1.0	1.4	1.2	1.4	1.2	1.4	1.2	1.6	1.2	1.6	1.2	1.6	1.1	
022	-5	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	-4	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	-2	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	0	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	2	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	4	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	6	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	8	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	10	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	12	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	14	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.5	1.7	2.6	1.5
	16	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	18	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	20	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	21	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	23	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	25	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	27	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	29	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	31	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	33	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	35	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	37	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.6	1.5
	39	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.5	1.4
	42	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6	2.4	1.4
44	1.5	1.2	1.8	1.4	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.3	
46	1.5	1.2	1.8	1.4	2.0	1.5	2.0	1.5	2.1	1.5	2.2	1.5	2.3	1.3	
48	1.5	1.2	1.8	1.4	2.0	1.5	2.0	1.4	2.1	1.5	2.1	1.4	2.2	1.2	
50	1.5	1.2	1.8	1.4	2.0	1.5	2.0	1.4	2.0	1.4	2.1	1.4	2.2	1.2	
028	-5	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	-4	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	-2	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	2	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	4	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	6	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	8	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	10	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.4	2.0
	12	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	14	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	16	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	18	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	20	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	21	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	23	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	25	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	27	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	29	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	31	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	33	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	35	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	37	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.9
	39	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	3.0	1.9	3.2	1.8
	42	1.9	1.6	2.3	1.8	2.6	1.9	2.8	2.0	2.9	2.0	2.9	1.9	3.1	1.8
44	1.9	1.6	2.3	1.8	2.5	1.8	2.7	1.9	2.8	1.9	2.8	1.8	3.0	1.7	
46	1.9	1.6	2.3	1.8	2.5	1.8	2.6	1.8	2.7	1.9	2.7	1.7	2.9	1.6	
48	1.9	1.6	2.2	1.8	2.4	1.8	2.5	1.8	2.6	1.8	2.7	1.7	2.8	1.6	
50	1.9	1.6	2.2	1.8	2.4	1.8	2.5	1.8	2.6	1.8	2.6	1.7	2.7	1.6	

3. Capacity Table

Duct

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB) 14(°C,WB)		23(°C,DB) 16(°C,WB)		26(°C,DB) 18(°C,WB)		27(°C,DB) 19(°C,WB)		28(°C,DB) 20(°C,WB)		30(°C,DB) 22(°C,WB)		32(°C,DB) 24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
036	-5	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	-4	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	-2	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	0	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	2	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	4	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	6	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	8	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	10	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	12	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	14	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	16	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.3	2.5
	18	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	20	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	21	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	23	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	25	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	27	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	29	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	31	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	33	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	35	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	4.0	2.6	4.2	2.4
	37	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.9	2.5	4.2	2.4
	39	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.9	2.5	4.1	2.3
	42	2.5	2.0	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	4.0	2.2
045	44	2.5	2.0	2.9	2.3	3.3	2.4	3.4	2.5	3.6	2.5	3.7	2.4	3.9	2.2
	46	2.5	2.0	2.9	2.3	3.2	2.4	3.3	2.4	3.4	2.4	3.6	2.3	3.8	2.1
	48	2.5	2.0	2.8	2.2	3.2	2.3	3.2	2.3	3.4	2.4	3.5	2.2	3.6	2.0
	50	2.5	2.0	2.8	2.2	3.1	2.2	3.2	2.3	3.4	2.4	3.5	2.2	3.6	2.0
	-5	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	-4	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	-2	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	0	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	2	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	4	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	6	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	8	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	10	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	12	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	14	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.4	3.3
	16	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	18	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	20	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	21	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	23	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	25	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	27	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	29	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	31	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	33	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	35	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.7	3.2	5.0	3.2	5.3	3.0
	37	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.6	3.1	4.9	3.1	5.2	3.0
	39	3.1	2.6	3.7	3.0	4.2	3.1	4.5	3.2	4.6	3.1	4.9	3.1	5.1	2.9
	42	3.1	2.6	3.7	3.0	4.2	3.1	4.4	3.1	4.5	3.0	4.6	2.9	4.8	2.8
056	44	3.1	2.6	3.7	3.0	4.0	3.0	4.3	3.0	4.3	2.9	4.4	2.8	4.5	2.7
	46	3.1	2.6	3.7	3.0	4.0	3.0	4.3	3.0	4.3	2.9	4.4	2.8	4.5	2.7
	48	3.1	2.6	3.7	3.0	4.0	3.0	4.3	3.0	4.3	2.9	4.4	2.8	4.5	2.7
	50	3.1	2.6	3.6	2.9	4.0	3.0	4.3	3.0	4.3	2.9	4.3	2.7	4.4	2.6
	-5	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	-4	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	-2	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	0	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	2	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	4	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	6	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	8	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	10	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	12	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.3	4.3	6.7	4.1
	14	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.7	4.1
	16	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	18	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	20	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	21	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	23	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	25	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	27	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	29	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	31	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	33	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	35	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.2	4.2	6.6	4.0
	37	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.1	4.1	6.5	3.9
	39	3.9	3.3	4.6	3.8	5.3	4.0	5.6	4.2	5.8	4.2	6.1	4.1	6.4	3.8
	42	3.9	3.3	4.6	3.8	5.3	4.0	5.4	4.1	5.6	4.1	5.8	4.0	6.0	3.6
	44	3.9	3.3	4.6	3.8	5.0	3.9	5.3	4.0	5.4	4.0	5.5	3.9	5.6	3.4
	46	3.9	3.3	4.6	3.8	5.0	3.9	5.3	4.0	5.4	4.0	5.5	3.9	5.6	3.4
	48	3.9	3.3	4.6	3.8	5.0	3.9	5.3	4.0	5.4	4.0	5.5	3.9	5.6	3.4
	50	3.9	3.3	4.5	3.7	5.0	3.9	5.3	4.0	5.4	4.0	5.4	3.8	5.5	3.4

3. Capacity Table

Duct

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB) 14(°C,WB)		23(°C,DB) 16(°C,WB)		26(°C,DB) 18(°C,WB)		27(°C,DB) 19(°C,WB)		28(°C,DB) 20(°C,WB)		30(°C,DB) 22(°C,WB)		32(°C,DB) 24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
071	-5	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	-4	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	-2	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	0	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	2	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	4	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	6	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	8	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	10	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	8.0	5.7	8.5	5.4
	12	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	14	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.5	5.4
	16	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	18	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	20	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	21	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	23	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	25	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	27	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	29	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	31	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	33	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	35	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.4	5.6	7.9	5.6	8.4	5.3
	37	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.8	5.5	8.2	5.1
	39	4.9	4.3	5.8	5.0	6.7	5.2	7.1	5.4	7.3	5.5	7.7	5.4	8.1	5.1
	42	4.9	4.3	5.8	5.0	6.7	5.2	6.9	5.3	7.0	5.4	7.3	5.3	7.6	4.9
090	44	4.9	4.3	5.8	5.0	6.3	5.0	6.7	5.2	6.8	5.3	7.0	5.2	7.1	4.7
	46	4.9	4.3	5.8	5.0	6.3	5.0	6.7	5.2	6.8	5.3	7.0	5.2	7.1	4.7
	48	4.9	4.3	5.8	5.0	6.3	5.0	6.7	5.2	6.8	5.3	7.0	5.2	7.0	4.6
	50	4.9	4.3	5.7	4.9	6.3	5.0	6.7	5.2	6.8	5.3	6.9	5.1	7.0	4.6
	-5	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	-4	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	-2	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	0	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	2	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	4	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	6	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	8	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	10	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	12	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.4	7.3	10.1	7.3	10.8	7.3
	14	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.7	7.1
	16	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.7	7.1
	18	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	20	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	21	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	23	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	25	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	27	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	29	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	31	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	33	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	35	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	10.0	7.2	10.6	7.0
	37	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.3	7.2	9.9	7.1	10.4	6.9
	39	6.2	5.7	7.3	6.5	8.4	6.9	9.0	7.1	9.2	7.1	9.7	7.0	10.2	6.8
112	42	6.2	5.7	7.3	6.5	8.3	6.8	8.9	7.0	9.1	7.0	9.5	6.9	9.9	6.6
	44	6.2	5.7	7.3	6.5	8.1	6.7	8.6	6.8	8.8	6.8	9.2	6.6	9.6	6.4
	46	6.2	5.7	7.2	6.4	8.0	6.6	8.3	6.6	8.6	6.6	8.9	6.4	9.3	6.2
	48	6.1	5.6	7.1	6.3	7.8	6.4	8.1	6.4	8.4	6.5	8.6	6.2	9.0	6.0
	50	6.1	5.6	7.1	6.3	7.8	6.4	8.1	6.4	8.4	6.5	8.5	6.1	8.9	5.9
	-5	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	-4	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	-2	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	0	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	2	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	4	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	6	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	8	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	10	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	12	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	14	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.4	8.6
	16	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.3	8.5
	18	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.5	8.9	13.3	8.5
	20	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	21	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	23	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	25	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	27	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	29	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	31	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	33	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.8	13.2	8.5
	35	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.7	13.2	8.5
	37	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.4	8.9	13.2	8.5
	39	7.7	6.8	9.1	7.7	10.5	8.2	11.2	8.6	11.6	8.8	12.3	8.8	13.0	8.4
	42	7.7	6.8	9.1	7.7	10.4	8.1	11.1	8.5	11.5	8.7	12.1	8.6	12.7	8.2
	44	7.7	6.8	9.1	7.7	10.1	7.9	10.7	8.2	11.1	8.4	11.6	8.3	12.2	7.9
	46	7.7	6.8	9.0	7.6	10.0	7.8	10.4	8.0	10.8	8.2	11.2	8.0	11.9	7.7
	48	7.6	6.7	8.9	7.5	9.8	7.7	10.1	7.7	10.6	8.0	10.9	7.8	11.5	7.4
	50	7.6	6.7	8.9	7.5	9.8	7.7	10.1	7.7	10.6	8.0	10.9	7.8	11.4	7.3

3. Capacity Table

Duct

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
128	-5	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	-4	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	-2	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	0	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	2	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	4	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	6	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	8	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	10	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.4	9.9
	12	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.3	9.8
	14	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.3	10.0	15.3	9.8
	16	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.2	9.8
	18	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	20	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	21	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	23	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	25	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	27	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	29	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	31	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	33	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	35	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.3	9.9	14.2	9.9	15.1	9.7
	37	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.2	9.9	14.0	9.8	14.9	9.6
	39	8.8	7.8	10.4	8.9	12.0	9.5	12.8	9.9	13.1	9.8	13.8	9.6	14.5	9.4
	42	8.8	7.8	10.4	8.9	11.9	9.4	12.6	9.8	12.9	9.7	13.6	9.4	14.1	9.2
140	44	8.8	7.8	10.4	8.9	11.6	9.2	12.2	9.5	12.6	9.4	13.0	9.1	13.6	8.8
	46	8.8	7.8	10.3	8.8	11.4	9.0	11.8	9.2	12.2	9.1	12.6	8.8	13.3	8.6
	48	8.7	7.7	10.2	8.7	11.2	8.9	11.5	8.9	12.0	8.9	12.2	8.5	12.8	8.3
	50	8.7	7.7	10.2	8.7	11.2	8.9	11.5	8.8	11.9	8.8	12.1	8.4	12.7	8.2
	-5	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	-4	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	-2	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	0	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	2	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	4	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	6	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	8	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	10	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.6	10.9	15.7	11.0	16.8	10.9
	12	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.6	10.9	16.7	10.8
	14	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.6	10.9	16.7	10.8
	16	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.6	10.9	16.6	10.7
	18	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.6	10.7
	20	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	21	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	23	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	25	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	27	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	29	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	31	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	33	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	35	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.5	10.8	16.5	10.6
	37	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.5	10.8	15.4	10.7	16.3	10.5
	39	9.7	8.6	11.4	9.7	13.1	10.5	14.0	10.8	14.4	10.7	15.1	10.5	15.9	10.3
	42	9.7	8.6	11.4	9.7	13.0	10.4	13.8	10.7	14.2	10.6	14.8	10.3	15.5	10.0
	44	9.7	8.6	11.4	9.7	12.7	10.1	13.4	10.3	13.8	10.3	14.2	9.9	15.0	9.7
	46	9.7	8.6	11.3	9.6	12.4	10.0	12.9	10.0	13.4	10.0	13.8	9.6	14.6	9.4
	48	9.6	8.5	11.1	9.5	12.2	9.8	12.6	9.7	13.1	9.8	13.4	9.3	14.1	9.1
	50	9.6	8.5	11.1	9.5	12.2	9.8	12.6	9.7	13.1	9.8	13.3	9.2	14.0	9.0



The performance table shows the average value of each conditions.

3. Capacity Table

Duct

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature						
			14(°C,DB)	16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)	27(°C,DB)
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
017	-25	-25.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	-22	-22.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	-19.8	-20.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
	-18.8	-19.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	-16.7	-17.0	1.3	1.2	1.2	1.2	1.2	1.2	1.2
	-14.7	-15.0	1.4	1.3	1.2	1.2	1.2	1.2	1.2
	-12.6	-13.0	1.5	1.4	1.4	1.4	1.4	1.3	1.3
	-10.5	-11.0	1.6	1.5	1.5	1.4	1.4	1.4	1.4
	-9.5	-10.0	1.7	1.6	1.5	1.5	1.4	1.4	1.4
	-8.5	-9.1	1.7	1.7	1.6	1.6	1.5	1.5	1.5
	-7.0	-7.6	1.8	1.8	1.7	1.7	1.5	1.5	1.5
	-5.0	-5.6	1.9	1.8	1.8	1.8	1.7	1.7	1.5
	-3.0	-3.7	2.0	1.9	1.9	1.8	1.8	1.7	1.6
	0.0	-0.7	2.1	2.0	1.9	1.9	1.8	1.7	1.6
	3.0	2.2	2.2	2.0	2.0	1.9	1.8	1.7	1.6
	5.0	4.1	2.3	2.1	2.0	1.9	1.8	1.7	1.6
	7.0	6.0	2.3	2.1	2.0	1.9	1.8	1.7	1.6
	9.0	7.9	2.3	2.3	2.0	1.9	1.8	1.7	1.6
	11.0	9.8	2.4	2.3	2.0	1.9	1.8	1.7	1.6
	13.0	11.8	2.4	2.3	2.0	1.9	1.8	1.7	1.6
	15.0	13.7	2.4	2.3	2.0	1.9	1.8	1.7	1.6
	18.0	16.6	2.4	2.3	2.0	1.9	1.8	1.7	1.6
022	-25	-25.1	1.5	1.4	1.4	1.4	1.4	1.4	1.4
	-22	-22.2	1.5	1.5	1.5	1.5	1.5	1.5	1.4
	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.7	1.6	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.8	1.7	1.6	1.6	1.6	1.6	1.6
	-12.6	-13.0	2.0	1.8	1.8	1.8	1.8	1.7	1.7
	-10.5	-11.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9
	-9.5	-10.0	2.2	2.1	2.0	2.0	1.9	1.9	1.9
	-8.5	-9.1	2.3	2.2	2.1	2.1	2.0	2.0	1.9
	-7.0	-7.6	2.4	2.3	2.2	2.2	2.0	2.0	2.0
	-5.0	-5.6	2.5	2.4	2.3	2.3	2.2	2.2	2.1
	-3.0	-3.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1
	0.0	-0.7	2.8	2.6	2.5	2.5	2.3	2.2	2.1
	3.0	2.2	2.9	2.7	2.6	2.5	2.3	2.2	2.2
	5.0	4.1	3.0	2.8	2.7	2.5	2.3	2.2	2.2
	7.0	6.0	3.0	2.8	2.7	2.5	2.3	2.2	2.2
	9.0	7.9	3.1	3.0	2.7	2.5	2.3	2.2	2.2
	11.0	9.8	3.2	3.0	2.7	2.5	2.3	2.2	2.2
	13.0	11.8	3.2	3.0	2.7	2.5	2.3	2.2	2.2
	15.0	13.7	3.2	3.0	2.7	2.5	2.3	2.2	2.2
	18.0	16.6	3.2	3.1	2.8	2.5	2.3	2.2	2.2
028	-25	-25.1	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	-22	-22.2	1.8	1.8	1.8	1.8	1.8	1.8	1.7
	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8
	-16.7	-17.0	2.0	2.0	2.0	2.0	2.0	1.9	1.9
	-14.7	-15.0	2.1	2.1	2.1	2.0	2.0	1.9	1.9
	-12.6	-13.0	2.2	2.2	2.2	2.2	2.1	2.1	2.1
	-10.5	-11.0	2.3	2.3	2.3	2.3	2.3	2.2	2.2
	-9.5	-10.0	2.4	2.3	2.3	2.3	2.3	2.2	2.2
	-8.5	-9.1	2.4	2.4	2.4	2.4	2.4	2.3	2.2
	-7.0	-7.6	2.5	2.5	2.4	2.4	2.4	2.3	2.3
	-5.0	-5.6	2.7	2.6	2.6	2.5	2.5	2.4	2.3
	-3.0	-3.7	2.8	2.8	2.7	2.7	2.6	2.5	2.4
	0.0	-0.7	3.0	2.9	2.8	2.8	2.7	2.6	2.5
	3.0	2.2	3.1	3.0	3.0	2.9	2.8	2.7	2.6
	5.0	4.1	3.3	3.2	3.1	3.1	2.9	2.7	2.6
	7.0	6.0	3.3	3.3	3.2	3.2	3.0	2.7	2.6
	9.0	7.9	3.4	3.4	3.3	3.2	3.0	2.7	2.6
	11.0	9.8	3.5	3.5	3.3	3.2	3.0	2.7	2.6
	13.0	11.8	3.6	3.6	3.4	3.2	3.0	2.7	2.7
	15.0	13.7	3.7	3.7	3.4	3.2	3.0	2.7	2.7
	18.0	16.6	3.9	3.8	3.5	3.3	3.1	2.7	2.7
	20.0	18.5	3.9	3.8	3.6	3.3	3.2	2.7	2.7
	22.0	20.4	4.0	3.9	3.7	3.4	3.2	2.8	2.7
	24.0	22.4	4.0	3.9	3.7	3.4	3.3	2.8	2.7

3. Capacity Table

Duct

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature						
			14(°C,DB)	16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)	27(°C,DB)
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
036	-25	-25.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
	-22	-22.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1
	-19.8	-20.0	2.4	2.4	2.4	2.3	2.3	2.3	2.2
	-18.8	-19.0	2.5	2.5	2.4	2.3	2.3	2.3	2.2
	-16.7	-17.0	2.6	2.6	2.5	2.4	2.4	2.3	2.3
	-14.7	-15.0	2.7	2.7	2.6	2.5	2.5	2.4	2.4
	-12.6	-13.0	2.8	2.8	2.7	2.7	2.6	2.6	2.5
	-10.5	-11.0	3.0	2.9	2.9	2.9	2.8	2.8	2.5
	-9.5	-10.0	3.0	2.9	2.9	2.9	2.8	2.8	2.6
	-8.5	-9.1	3.1	3.0	3.0	3.0	2.9	2.9	2.6
	-7.0	-7.6	3.2	3.1	3.1	3.0	3.0	2.9	2.7
	-5.0	-5.6	3.4	3.3	3.2	3.2	3.1	3.0	2.7
	-3.0	-3.7	3.5	3.4	3.4	3.3	3.2	3.1	2.8
	0.0	-0.7	3.8	3.6	3.6	3.5	3.4	3.2	2.9
	3.0	2.2	3.9	3.8	3.7	3.7	3.5	3.4	3.0
	5.0	4.1	4.0	3.9	3.9	3.8	3.6	3.4	3.1
	7.0	6.0	4.1	4.1	4.1	4.0	3.7	3.4	3.1
	9.0	7.9	4.2	4.2	4.1	4.0	3.7	3.4	3.1
	11.0	9.8	4.4	4.4	4.2	4.0	3.7	3.4	3.2
045	-25	-25.1	2.7	2.7	2.6	2.6	2.6	2.6	2.6
	-22	-22.2	2.8	2.7	2.7	2.7	2.7	2.7	2.6
	-19.8	-20.0	3.1	3.1	3.1	2.9	2.9	2.9	2.7
	-18.8	-19.0	3.2	3.2	3.1	3.0	3.0	2.9	2.7
	-16.7	-17.0	3.2	3.2	3.2	3.1	3.0	3.0	2.8
	-14.7	-15.0	3.3	3.3	3.3	3.2	3.1	3.0	2.9
	-12.6	-13.0	3.5	3.5	3.4	3.4	3.3	3.2	3.1
	-10.5	-11.0	3.7	3.7	3.6	3.6	3.5	3.5	3.2
	-9.5	-10.0	3.8	3.7	3.7	3.7	3.6	3.5	3.2
	-8.5	-9.1	3.9	3.8	3.9	3.8	3.7	3.6	3.3
	-7.0	-7.6	4.0	3.9	3.8	3.8	3.7	3.6	3.3
	-5.0	-5.6	4.2	4.1	4.0	4.0	3.9	3.7	3.4
	-3.0	-3.7	4.4	4.3	4.2	4.2	4.0	3.9	3.5
	0.0	-0.7	4.6	4.5	4.4	4.4	4.2	4.0	3.6
	3.0	2.2	4.7	4.7	4.7	4.6	4.4	4.2	3.7
	5.0	4.1	5.0	4.9	4.9	4.8	4.5	4.2	3.7
	7.0	6.0	5.2	5.1	5.1	5.0	4.6	4.2	3.7
	9.0	7.9	5.4	5.3	5.2	5.0	4.6	4.2	3.7
	11.0	9.8	5.6	5.5	5.2	5.0	4.6	4.2	3.7
056	-25	-25.1	3.5	3.5	3.4	3.4	3.4	3.3	3.3
	-22	-22.2	3.5	3.5	3.5	3.5	3.5	3.5	3.3
	-19.8	-20.0	3.9	3.9	3.8	3.8	3.7	3.7	3.5
	-18.8	-19.0	4.0	4.0	4.0	3.9	3.8	3.8	3.5
	-16.7	-17.0	4.0	4.0	4.0	3.9	3.8	3.8	3.6
	-14.7	-15.0	4.2	4.2	4.1	4.0	3.9	3.8	3.7
	-12.6	-13.0	4.4	4.4	4.3	4.2	4.2	4.1	3.9
	-10.5	-11.0	4.6	4.6	4.6	4.5	4.4	4.4	4.0
	-9.5	-10.0	4.8	4.7	4.7	4.7	4.5	4.4	4.0
	-8.5	-9.1	4.9	4.8	4.8	4.8	4.7	4.5	4.0
	-7.0	-7.6	5.1	4.9	4.8	4.8	4.7	4.5	4.1
	-5.0	-5.6	5.3	5.2	5.1	5.0	4.9	4.7	4.2
	-3.0	-3.7	5.5	5.4	5.3	5.3	5.1	4.9	4.4
	0.0	-0.7	5.9	5.7	5.6	5.5	5.3	5.0	4.5
	3.0	2.2	6.2	5.9	5.9	5.8	5.6	5.3	4.7
	5.0	4.1	6.4	6.2	6.1	6.0	5.7	5.3	4.7
	7.0	6.0	6.7	6.5	6.4	6.3	5.8	5.3	4.7
	9.0	7.9	6.9	6.7	6.5	6.3	5.8	5.3	4.8
	11.0	9.8	7.1	6.9	6.6	6.3	5.8	5.3	4.8
	13.0	11.8	7.3	7.1	6.7	6.3	5.8	5.3	4.8

3. Capacity Table

Duct

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature						
			14(°C,DB)	16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)	27(°C,DB)
	DB	WB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
071	-25	-25.1	4.7	4.7	4.6	4.6	4.5	4.5	4.4
	-22	-22.2	4.8	4.7	4.7	4.7	4.6	4.6	4.5
	-19.8	-20.0	4.9	4.9	4.9	4.8	4.7	4.7	4.6
	-18.8	-19.0	5.0	5.0	5.0	4.9	4.8	4.8	4.7
	-16.7	-17.0	5.1	5.1	5.0	4.9	4.8	4.8	4.7
	-14.7	-15.0	5.3	5.3	5.2	5.1	4.9	4.8	4.8
	-12.6	-13.0	5.6	5.6	5.5	5.4	5.3	5.2	5.1
	-10.5	-11.0	5.9	5.9	5.8	5.7	5.6	5.6	5.4
	-9.5	-10.0	6.1	6.0	5.9	5.8	5.7	5.6	5.4
	-8.5	-9.1	6.3	6.1	6.0	5.9	5.8	5.7	5.5
	-7.0	-7.6	6.5	6.2	6.1	6.0	5.9	5.8	5.6
	-5.0	-5.6	6.8	6.5	6.5	6.4	6.2	6.0	5.6
	-3.0	-3.7	7.1	6.9	6.8	6.7	6.4	6.2	5.9
	0.0	-0.7	7.3	7.2	7.1	7.0	6.7	6.8	6.4
	3.0	2.2	7.6	7.6	7.5	7.3	7.1	6.8	6.4
	5.0	4.1	8.0	7.9	7.8	7.7	7.2	6.8	6.4
	7.0	6.0	8.3	8.2	8.1	8.0	7.4	6.8	6.4
	9.0	7.9	8.7	8.5	8.2	8.0	7.4	6.8	6.4
	11.0	9.8	9.0	8.7	8.4	8.0	7.4	6.8	6.4
	13.0	11.8	9.1	9.0	8.5	8.0	7.4	6.8	6.4
090	-25	-25.1	5.6	5.6	5.6	5.6	5.6	5.6	5.5
	-22	-22.2	5.8	5.8	5.8	5.7	5.7	5.6	5.6
	-19.8	-20.0	6.0	6.0	6.0	5.9	5.8	5.8	5.7
	-18.8	-19.0	6.1	6.1	6.1	6.0	5.9	5.8	5.7
	-16.7	-17.0	6.4	6.4	6.3	6.1	6.0	5.9	5.7
	-14.7	-15.0	6.7	6.7	6.5	6.3	6.2	6.1	5.9
	-12.6	-13.0	6.9	6.9	6.8	6.6	6.5	6.4	6.2
	-10.5	-11.0	7.3	7.2	7.1	7.0	6.9	6.9	6.6
	-9.5	-10.0	7.5	7.4	7.3	7.2	7.1	7.0	6.7
	-8.5	-9.1	7.7	7.6	7.5	7.4	7.2	7.1	6.8
	-7.0	-7.6	8.0	7.8	7.7	7.6	7.4	7.2	6.9
	-5.0	-5.6	8.3	8.2	8.1	8.0	7.7	7.5	7.1
	-3.0	-3.7	8.6	8.6	8.5	8.4	8.1	7.7	7.3
	0.0	-0.7	9.2	9.0	8.9	8.8	8.4	8.0	7.6
	3.0	2.2	9.5	9.4	9.3	9.2	8.8	8.4	7.9
	5.0	4.1	10.1	9.9	9.7	9.6	9.0	8.4	8.0
	7.0	6.0	10.3	10.3	10.1	10.0	9.2	8.4	8.1
	9.0	7.9	10.6	10.6	10.3	10.0	9.2	8.4	8.1
	11.0	9.8	11.0	10.9	10.5	10.0	9.2	8.4	8.1
112	-25	-25.1	7.2	7.2	7.1	7.1	7.1	7.1	7.1
	-22	-22.2	7.3	7.3	7.2	7.2	7.2	7.2	7.2
	-19.8	-20.0	7.4	7.4	7.4	7.3	7.3	7.3	7.2
	-18.8	-19.0	7.6	7.6	7.6	7.4	7.4	7.3	7.2
	-16.7	-17.0	8.1	8.1	7.8	7.6	7.5	7.4	7.2
	-14.7	-15.0	8.4	8.4	8.2	8.0	7.8	7.6	7.4
	-12.6	-13.0	8.7	8.7	8.5	8.3	8.1	8.0	7.6
	-10.5	-11.0	9.2	9.1	8.9	8.8	8.7	8.6	7.9
	-9.5	-10.0	9.4	9.3	9.1	9.0	8.9	8.8	8.1
	-8.5	-9.1	9.6	9.5	9.3	9.2	9.0	8.9	8.2
	-7.0	-7.6	9.9	9.7	9.6	9.4	9.2	9.0	8.4
	-5.0	-5.6	10.4	10.2	10.1	9.9	9.6	9.3	8.7
	-3.0	-3.7	10.9	10.7	10.6	10.5	10.1	9.7	9.1
	0.0	-0.7	11.5	11.3	11.1	11.1	10.5	10.0	9.4
	3.0	2.2	11.9	11.8	11.6	11.5	11.0	10.6	9.6
	5.0	4.1	12.6	12.3	12.2	12.0	11.3	10.6	9.7
	7.0	6.0	13.1	12.9	12.7	12.5	11.5	10.6	9.7
	9.0	7.9	13.5	13.3	12.9	12.5	11.5	10.6	9.7
	11.0	9.8	14.0	13.7	13.1	12.5	11.5	10.6	9.7
	13.0	11.8	14.2	14.0	13.3	12.5	11.5	10.6	9.7
	15.0	13.7	14.5	14.4	13.5	12.5	11.5	10.6	9.7
	18.0	16.6	14.6	14.4	13.5	12.5	11.6	10.6	9.8
	20.0	18.5	14.6	14.5	13.6	12.6	11.6	10.7	9.8
	22.0	20.4	14.7	14.5	13.6	12.6	11.7	10.7	9.8
	24.0	22.4	14.8	14.6	13.7	12.7	11.7	10.8	9.9

3. Capacity Table

Duct

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature						
			14(°C,DB)	16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)	27(°C,DB)
	DB	WB	TC	TC	TC	TC	TC	TC	TC
128	-25	-25.1	7.8	7.8	7.8	7.7	7.7	7.7	7.6
	-22	-22.2	8.0	7.9	7.9	7.9	7.9	7.8	7.6
	-19.8	-20.0	8.1	8.1	8.1	8.0	8.0	8.0	7.7
	-18.8	-19.0	8.3	8.3	8.3	8.2	8.1	8.0	7.7
	-16.7	-17.0	8.8	8.8	8.6	8.4	8.3	8.1	7.8
	-14.7	-15.0	9.3	9.3	9.1	8.8	8.6	8.3	8.0
	-12.6	-13.0	9.6	9.6	9.4	9.2	9.0	8.8	8.3
	-10.5	-11.0	10.1	10.0	9.9	9.8	9.6	9.4	8.8
	-9.5	-10.0	10.4	10.2	10.1	10.0	9.8	9.7	9.4
	-8.5	-9.1	10.7	10.4	10.3	10.2	10.0	9.8	9.6
	-7.0	-7.6	11.0	10.7	10.6	10.4	10.2	10.0	9.8
	-5.0	-5.6	11.6	11.3	11.1	11.0	10.7	10.3	10.0
	-3.0	-3.7	12.2	11.9	11.7	11.5	11.1	10.7	10.3
	0.0	-0.7	12.9	12.4	12.3	12.1	11.6	11.0	10.6
	3.0	2.2	13.5	13.0	12.9	12.7	12.2	11.7	11.1
	5.0	4.1	14.0	13.6	13.4	13.2	12.4	11.7	11.1
	7.0	6.0	14.5	14.2	14.0	13.8	12.7	11.7	11.2
	9.0	7.9	14.9	14.6	14.2	13.8	12.7	11.7	11.2
	11.0	9.8	15.3	15.1	14.4	13.8	12.7	11.7	11.2
	13.0	11.8	15.7	15.5	14.7	13.8	12.7	11.7	11.2
	15.0	13.7	16.3	15.9	14.9	13.8	12.7	11.7	11.3
	18.0	16.6	16.3	16.0	14.9	13.8	12.7	11.7	11.3
	20.0	18.5	16.4	16.1	15.0	13.8	12.7	11.7	11.3
	22.0	20.4	16.4	16.2	15.1	13.9	12.7	11.8	11.4
	24.0	22.4	16.5	16.3	15.1	13.9	12.8	11.8	11.4
140	-25	-25.1	9.2	9.2	9.2	9.2	9.1	9.1	9.0
	-22	-22.2	9.4	9.4	9.4	9.3	9.3	9.2	9.2
	-19.8	-20.0	9.5	9.5	9.5	9.4	9.4	9.3	9.2
	-18.8	-19.0	9.7	9.7	9.7	9.5	9.5	9.3	9.2
	-16.7	-17.0	10.3	10.2	10.0	9.7	9.6	9.4	9.3
	-14.7	-15.0	10.8	10.8	10.5	10.2	9.9	9.6	9.4
	-12.6	-13.0	11.2	11.1	10.9	10.7	10.4	10.1	9.7
	-10.5	-11.0	11.7	11.6	11.5	11.3	11.1	10.9	10.5
	-9.5	-10.0	12.1	11.8	11.7	11.5	11.4	11.2	10.8
	-8.5	-9.1	12.2	12.1	11.9	11.8	11.6	11.3	10.9
	-7.0	-7.6	12.5	12.4	12.2	12.1	11.8	11.5	11.1
	-5.0	-5.6	13.2	13.1	12.9	12.7	12.3	12.0	11.6
	-3.0	-3.7	14.1	13.8	13.6	13.4	12.9	12.4	12.0
	0.0	-0.7	14.6	14.4	14.2	14.0	13.4	12.8	12.3
	3.0	2.2	15.3	15.1	14.9	14.7	14.1	13.5	12.9
	5.0	4.1	16.1	15.8	15.6	15.3	14.4	13.5	12.9
	7.0	6.0	16.7	16.5	16.2	16.0	14.8	13.5	12.9
	9.0	7.9	17.2	17.0	16.5	16.0	14.8	13.5	12.9
	11.0	9.8	17.8	17.5	16.7	16.0	14.8	13.5	12.9
	13.0	11.8	18.2	18.0	17.0	16.0	14.8	13.5	12.9
	15.0	13.7	18.8	18.5	17.2	16.0	14.8	13.5	12.9
	18.0	16.6	18.8	18.6	17.2	16.0	14.9	13.6	13.0
	20.0	18.5	18.9	18.6	17.4	16.1	14.9	13.6	13.0
	22.0	20.4	19.0	18.7	17.4	16.2	15.0	13.7	13.0
	24.0	22.4	19.1	18.7	17.5	16.2	15.0	13.7	13.1

NOTE

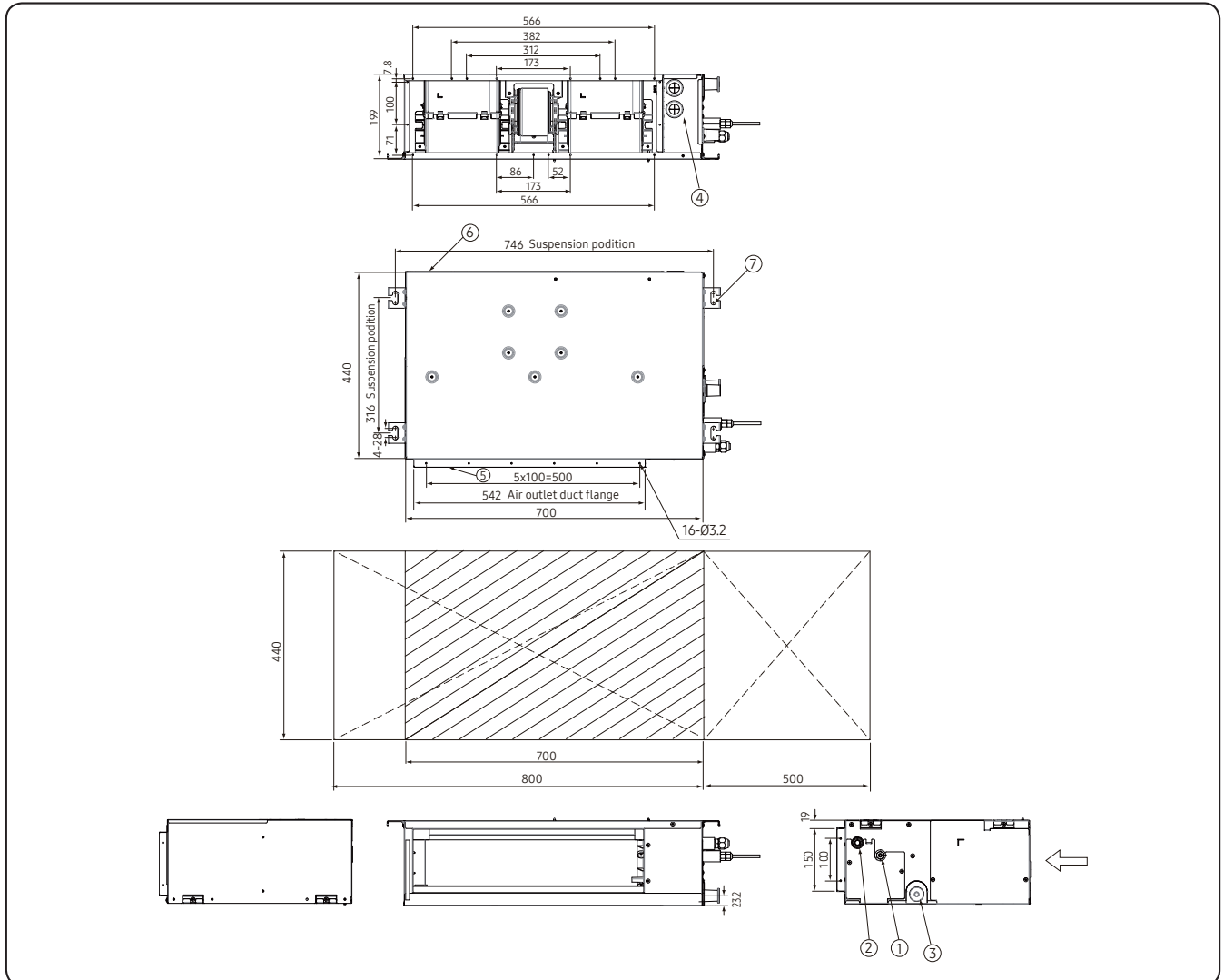
The performance table shows the average value of each conditions.

4. Dimensional Drawing

Duct

AM017ANLDKH/EU, AM022ANLDKH/EU, AM028ANLDKH/EU, AM036ANLDKH/EU

(Unit: mm)



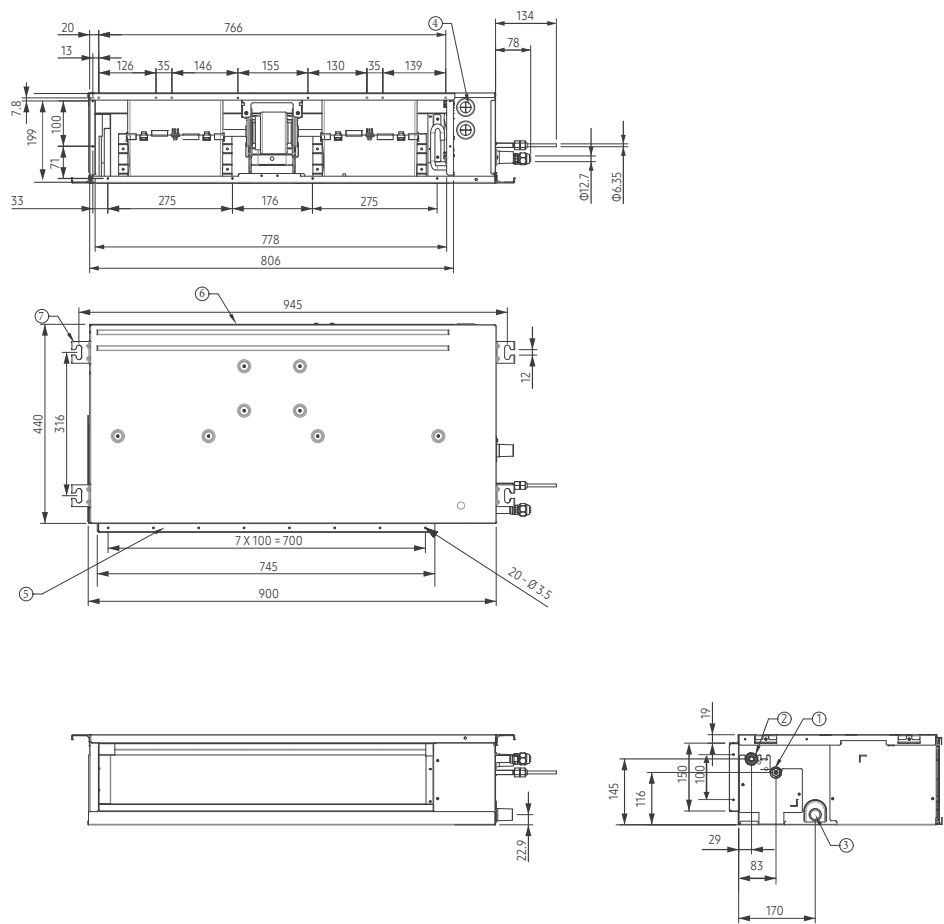
NO	Name	Description
1	Liquid pipe connection	ø6.35
2	Gas pipe connection	ø12.70
3	Drain pipe connection without drain pump	VP25 (OD ø32,ID ø25)
4	Power supply/Communication connection	-
5	Air discharge grille flange	-
6	Return air side	-
7	Hook	ø9.52 or M10

4. Dimensional Drawing

Duct

AM045ANLDKH/EU, AM056ANLDKH/EU

(Unit: mm)



No	Name	Description
1	Gas pipe connection	Ø6.35 [1/4"] Flare Connection
2	Liquid pipe connection	Φ12.70 [1/2"] Flare Connection
3	Drain pipe connection	VP25 (OD 32, ID 25)
4	Conduit for power supply & Communication wiring	-
5	Air outlet duct flange	-
6	Return Air side	-
7	Suspension bolts connection	-

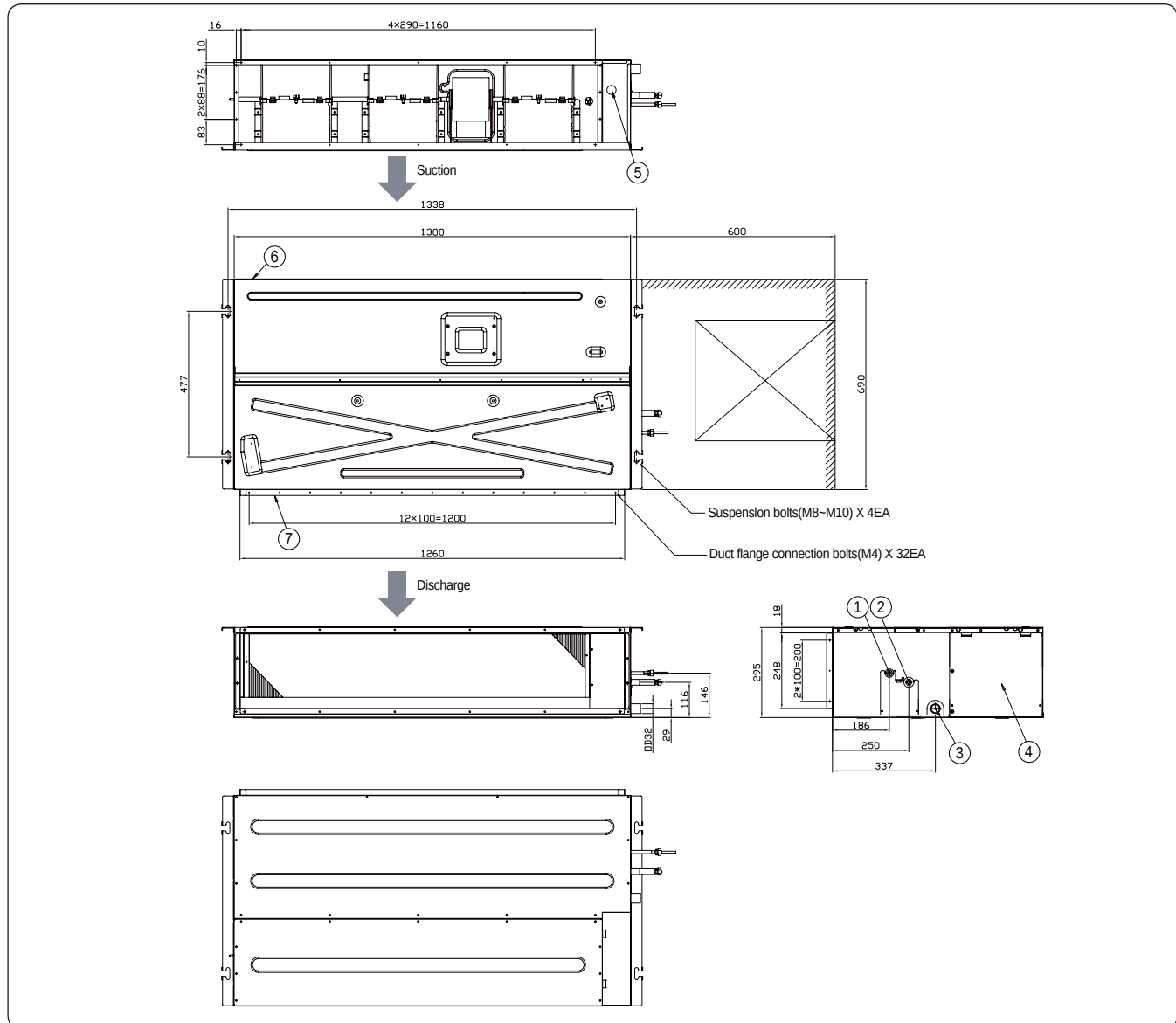
NO	Name	Description
1	Liquid pipe connection	Φ9.52(3/8")
2	Gas pipe connection	Φ15.88(5/8")
3	Drain pipe connection (Without drain pump)	OD: Φ32, ID: Φ25
4	Power supply / Communication connection	-
5	Air discharge grille flange	-
6	Return Air Side	-
7	Hook	3/8"

4. Dimensional Drawing

Duct

AM090ANLDKH/EU, AM112ANLDKH/EU, AM128ANLDKH/EU, AM140ANLDKH/EU

(Unit: mm)



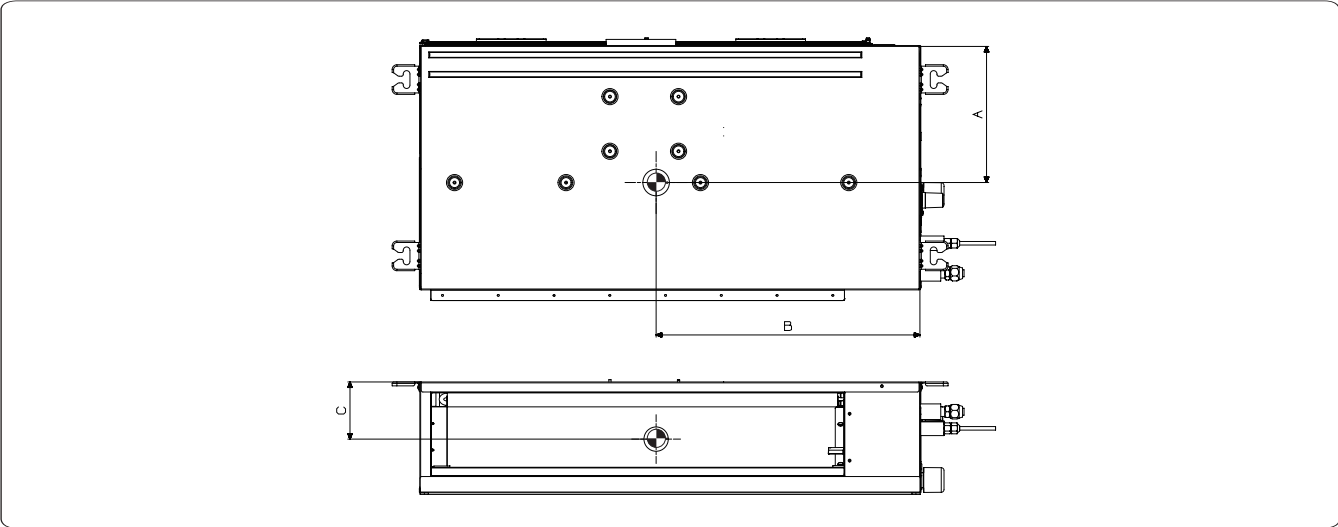
No.	Name	Description
①	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
②	Refrigerant Gas Pipe	Ø15.88 [5/8"] Flare Connection
③	Drain pipe connection without drain pump	VP25 (OD 32, ID 25)
④	Control unit	-
⑤	Conduit for power supply & communication wiring	-
⑥	Return air side	-
⑦	Air outlet duct flange	-

(Unit: mm)

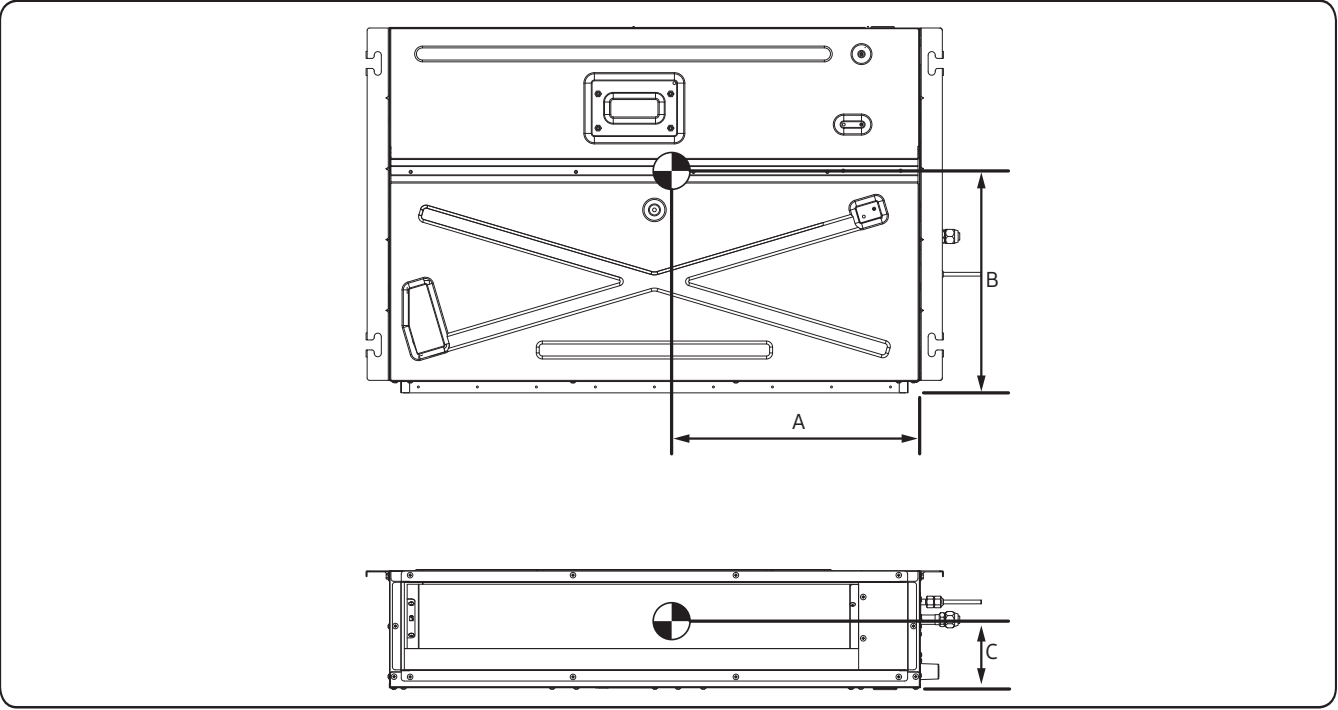
5. Center of Gravity

Duct

(Unit: mm)



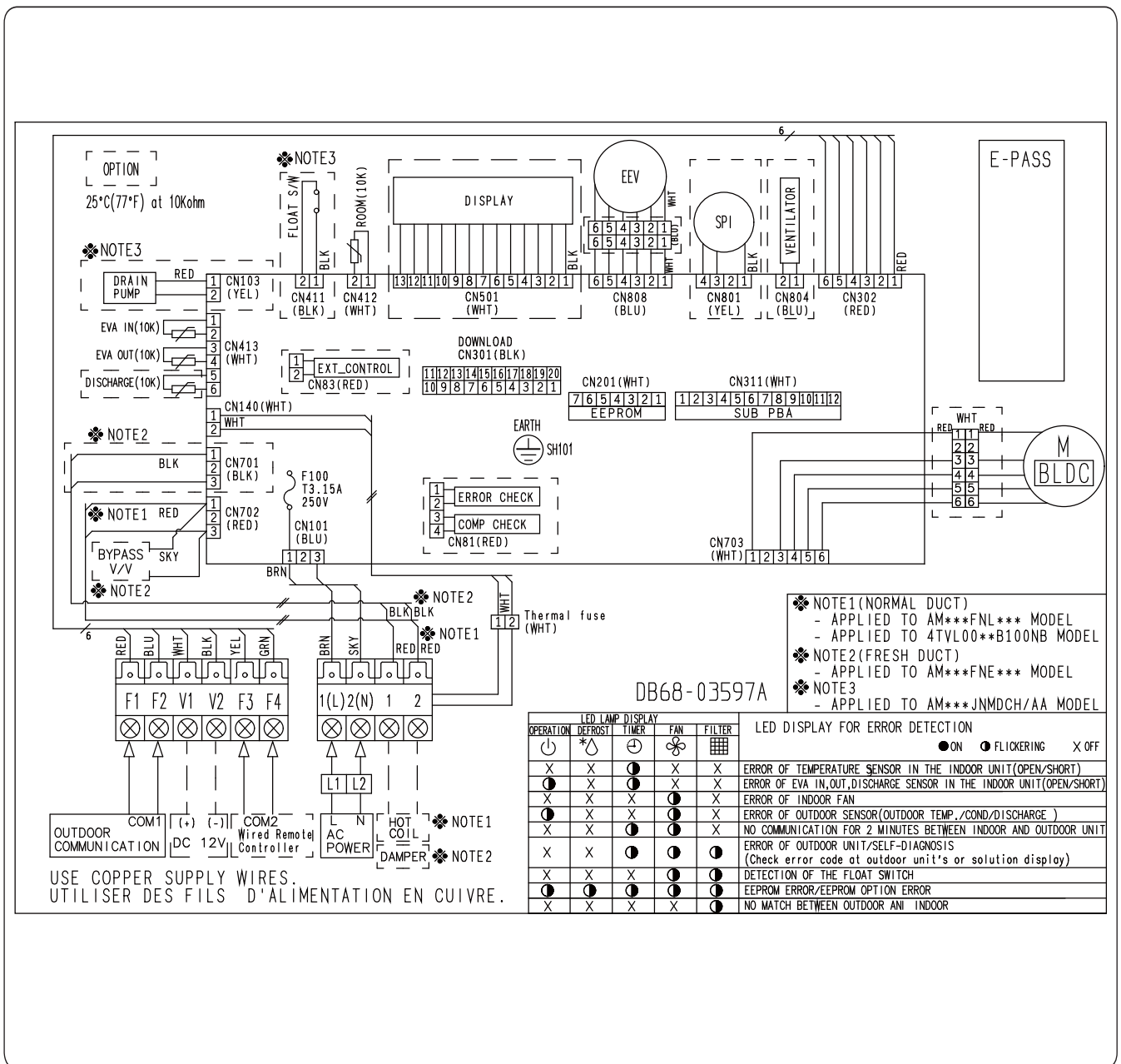
Model	A	B	C
1.7kW/2.2kW/2.8kW/3.6kW	230	356	100
4.5kW/5.6kW	233	436	100
7.1kW	240	540	100



Model	A	B	C
9.0kW / 11.2kW / 12.8kW / 14.0kW	640	273	102

6. Electrical Wiring Diagram

AM017ANLDKH/EU, AM022ANLDKH/EU, AM028ANLDKH/EU, AM036ANLDKH/EU
AM090*NLDKH/EU, AM112*NLDKH/EU, AM128*NLDKH/EU, AM140*NLDKH/EU



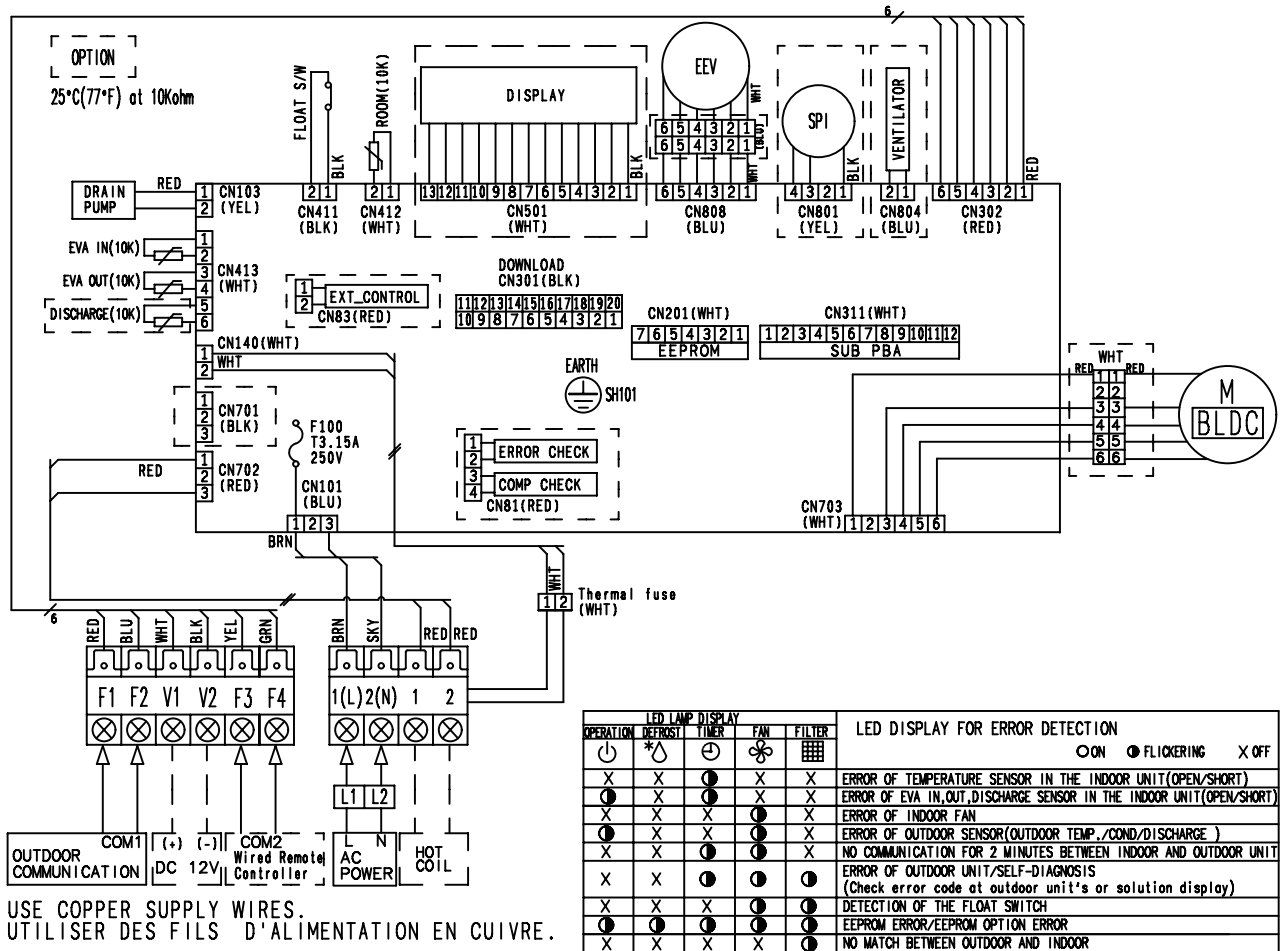
M-BLDC	Motor for Indoor Fan	EVA-IN(10K)	Thermistor - IDU heat exchanger In	DISCHARGE(10K)	Thermistor - Indoor Discharge Air
EEV	Electronic Expansion Valve	EVA-OUT(10K)	Thermistor - IDU heat exchanger Out	SPI	S-Plasma ion

NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏏ Protective earth(screw), □ : connector, $\frac{1}{2}$: The wire quantity

6. Electrical Wiring Diagram

AM045ANLDKH/EU, AM056ANLDKH/EU, AM071ANLDKH/EU



F100	FUSE	EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor EVA IN(10K)
M[BLDC]	Motor (IDU fan)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)
Thermal Fuse	Terminal Block Thermal Fuse	ROOM(10K)	Thermistor ROOM(10K)	DISCHARGE(10K)	Thermistor DISCHARGE(10K)

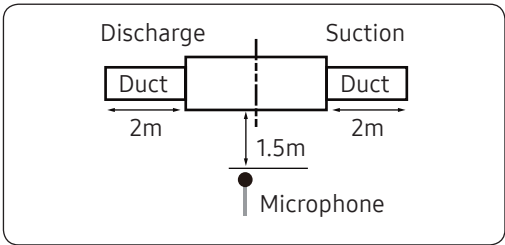
NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⊥ Protective earth(screw), □ : connector, $\swarrow$: The wire quantity

7. Sound Data

Duct

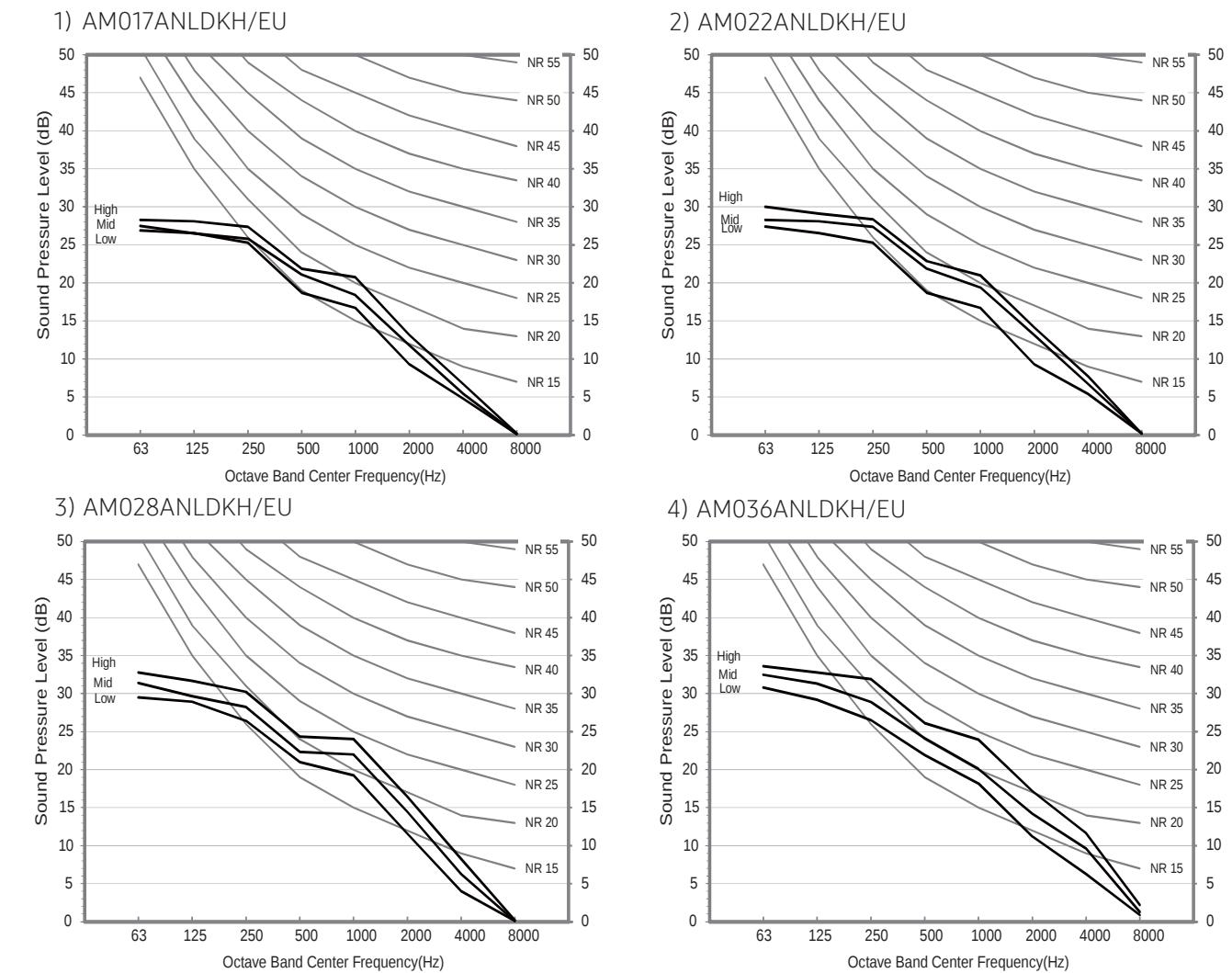
Sound pressure level



Unit: dB(A)

MODEL	High	Mid	Low
AM017ANLDKH/EU	25	22	19
AM022ANLDKH/EU	26	23	19
AM028ANLDKH/EU	28	24	19
AM036ANLDKH/EU	31	26	20

• NR Curve



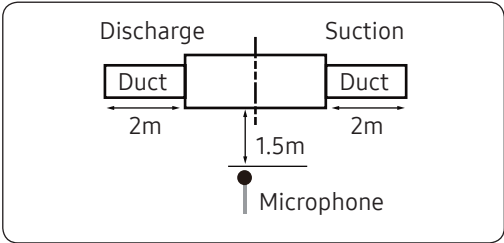
NOTE

- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Duct

Sound pressure level

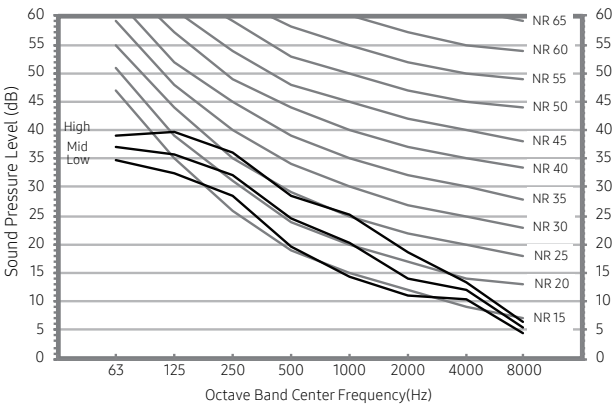


Unit: dB(A)

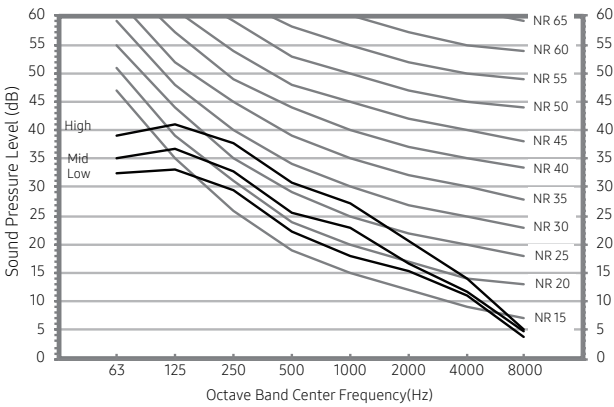
MODEL	High	Mid	Low
AM045ANLDKH/EU	32	28	25
AM056ANLDKH/EU	34	30	26
AM071ANLDKH/EU	34	30	27
AM090*ANLDKH/EU	37	36	34

• NR Curve

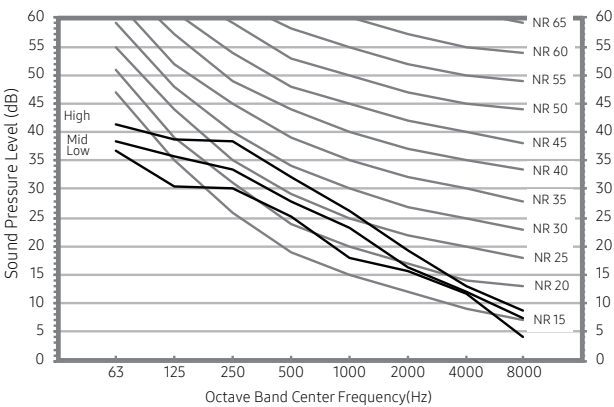
1) AM045ANLDKH/EU



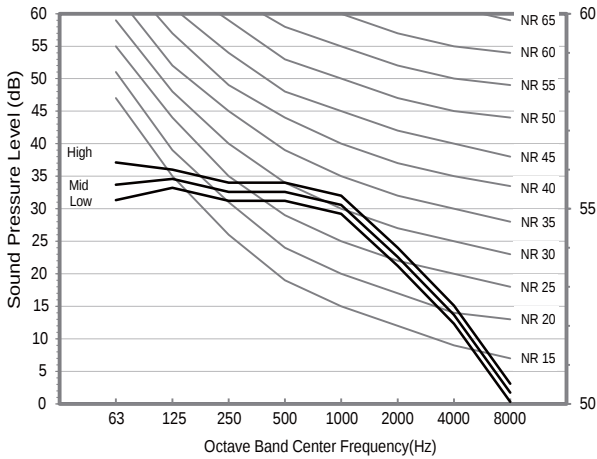
2) AM056ANLDKH/EU



3) AM071ANLDKH/EU



4) AM090ANLDKH/EU



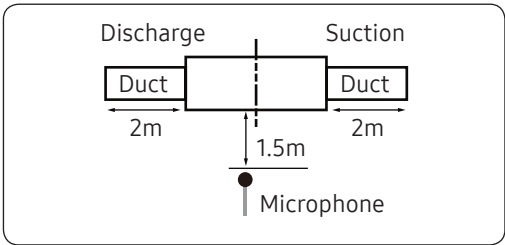
NOTE

- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Duct

Sound pressure level

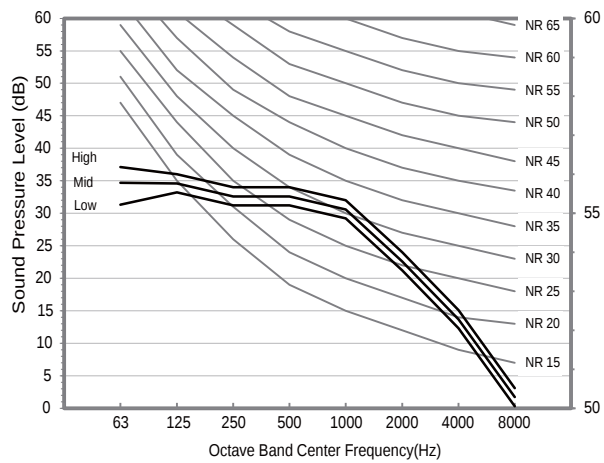


Unit: dB(A)

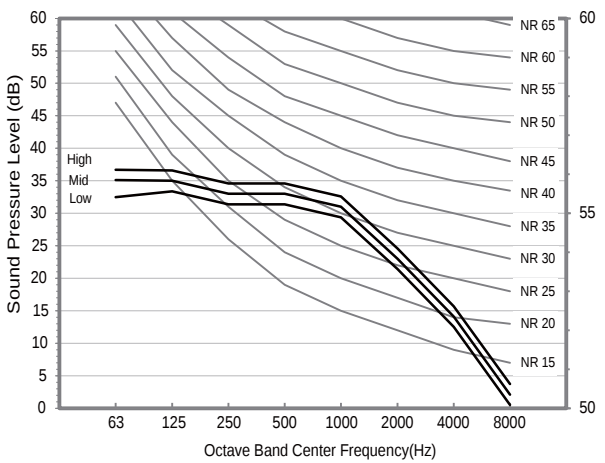
MODEL	High	Mid	Low
AM112*NLDKH/EU	37	36	34
AM128*NLDKH/EU	37	36	34
AM140*NLDKH/EU	39	38	36

• NR Curve

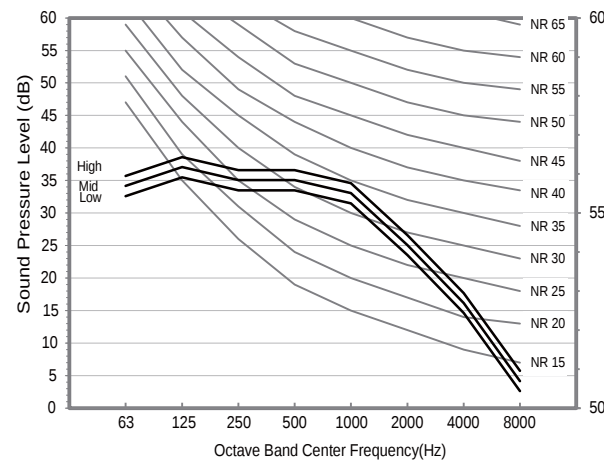
1) AM112*NLDKH/EU



2) AM128*NLDKH/EU



3) AM140*NLDKH/EU



NOTE

- Specifications may be subject to change without prior notice.
 - Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Duct

Sound Power level

NOTE

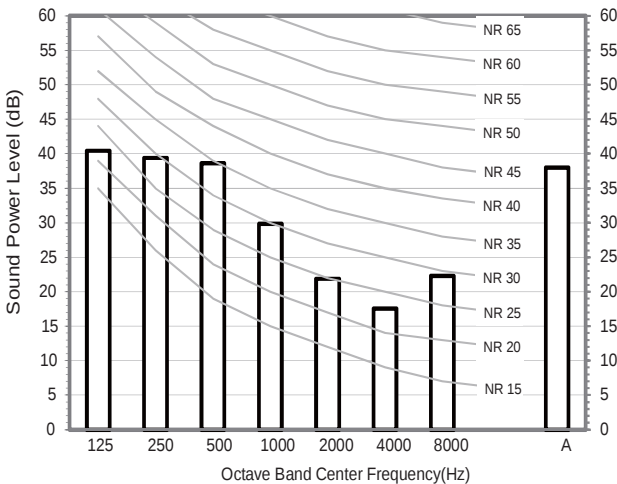
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

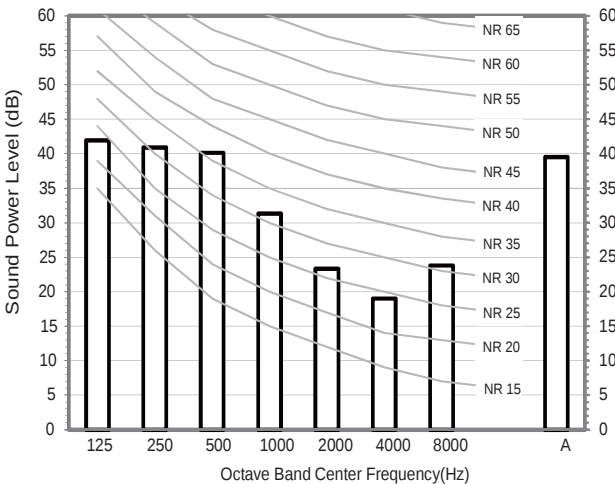
Model	Power
AM017ANLDKH/EU	40
AM022ANLDKH/EU	42
AM028ANLDKH/EU	44
AM036ANLDKH/EU	46

• NR Curve

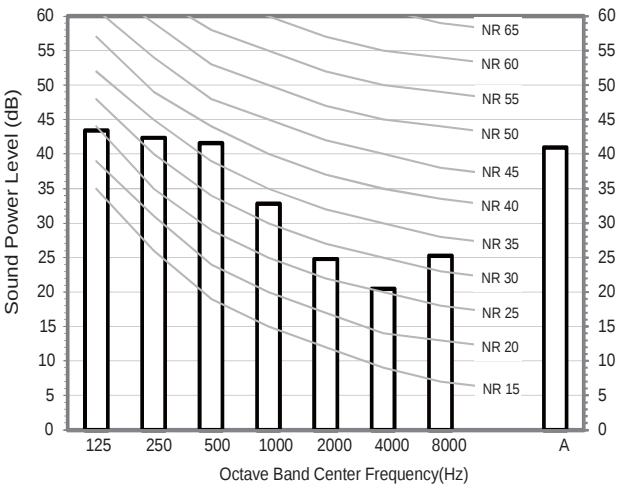
1) AM017ANLDKH/EU



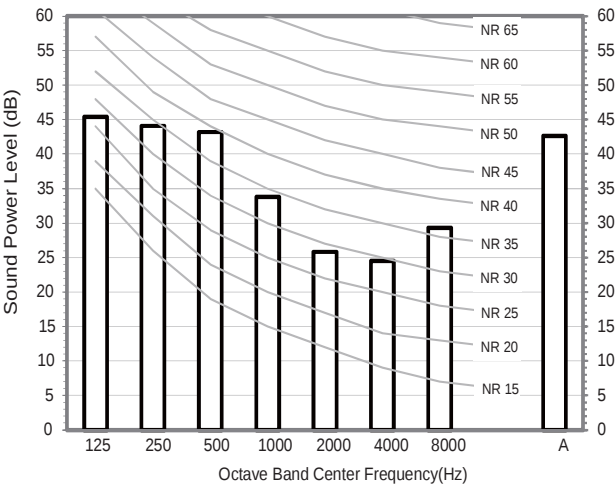
2) AM022ANLDKH/EU



3) AM028ANLDKH/EU



4) AM036ANLDKH/EU



7. Sound Data

Duct

Sound Power level

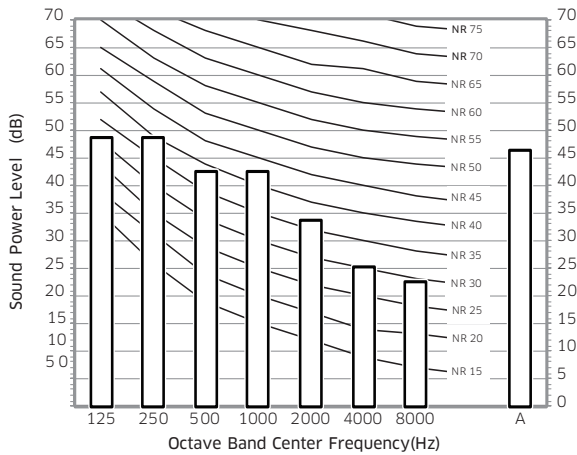
 NOTE

Unit: dB(A)

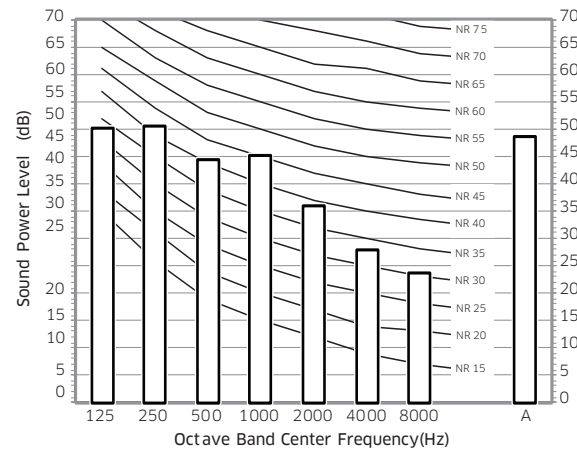
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.
- NR Curve

Model	Power
AM045ANLDKH/EU	47
AM056ANLDKH/EU	49
AM071ANLDKH/EU	49
AM090*ANLDKH/EU	66

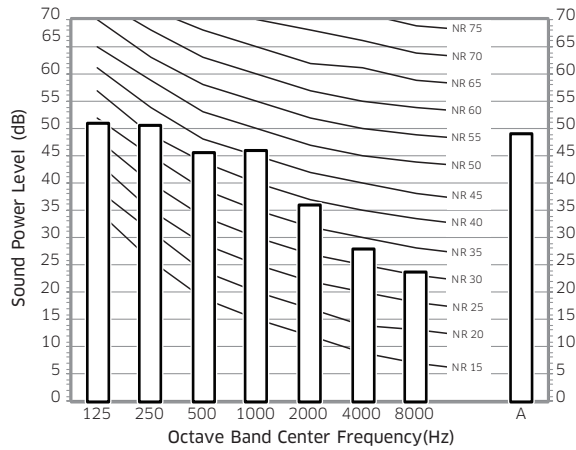
1) AM045ANLDKH/EU



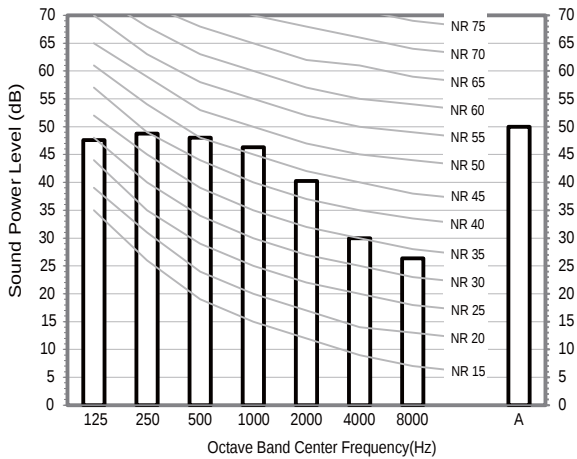
2) AM056ANLDKH/EU



3) AM071ANLDKH/EU



4) AM090ANLDKH/EU



7. Sound Data

Duct

Sound Power level

 NOTE

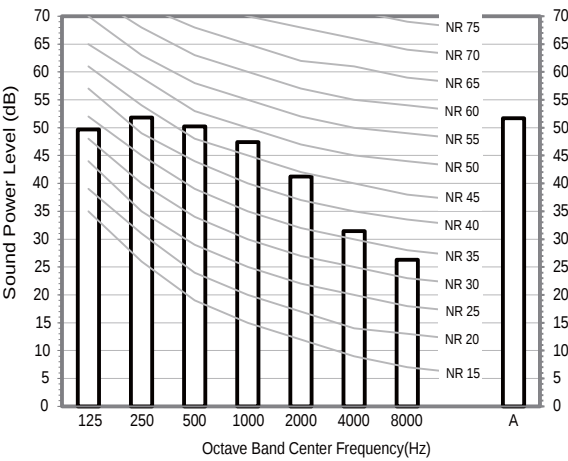
Unit: dB(A)

- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

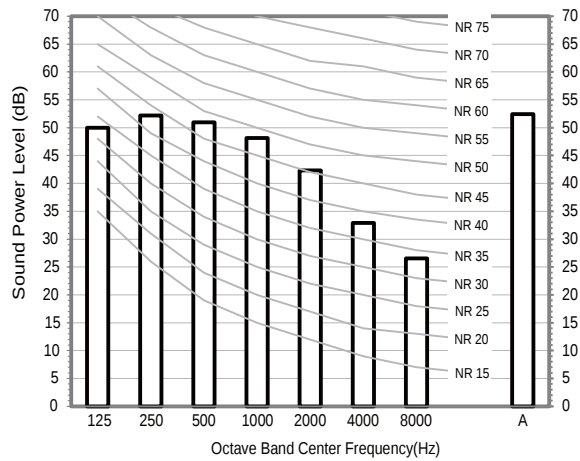
Model	Power
AM112*NLDKH/EU	66
AM128*NLDKH/EU	66
AM140*NLDKH/EU	68

• NR Curve

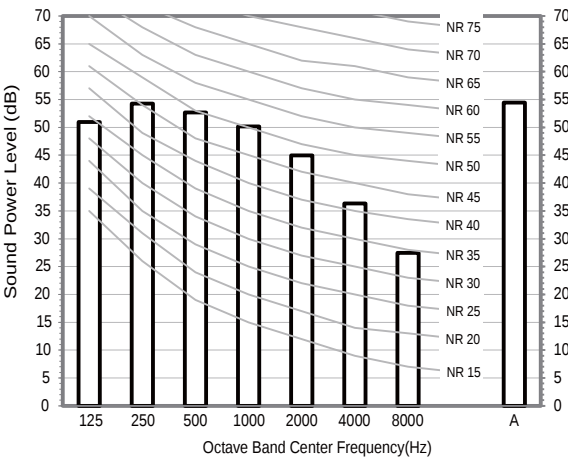
1) AM112*NLDKH/EU



2) AM128*NLDKH/EU



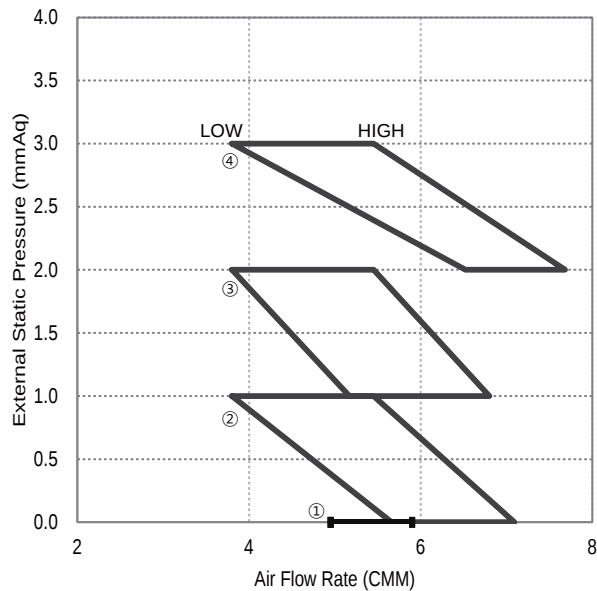
3) AM140*NLDKH/EU



8. Fan Characteristics

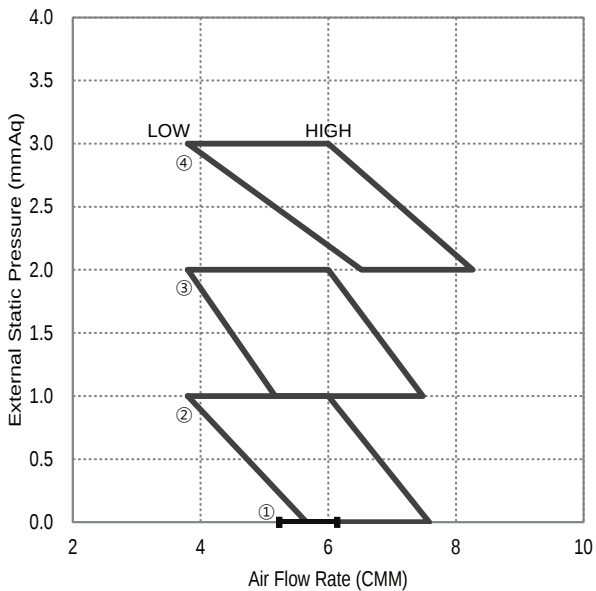
Duct

1) AM017ANLDKH/EU



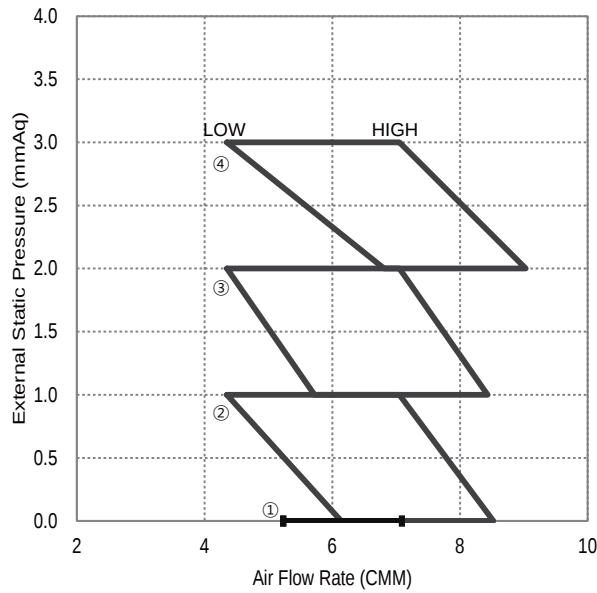
Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C9062-201212-331110
② 0 < P≤1(Default)	010054-1C90B5-201212-331110
③ 1 < P≤2	010054-1C940A-201212-331110
④ 2 < P≤3	010054-1C9584-201212-331110

2) AM022ANLDKH/EU



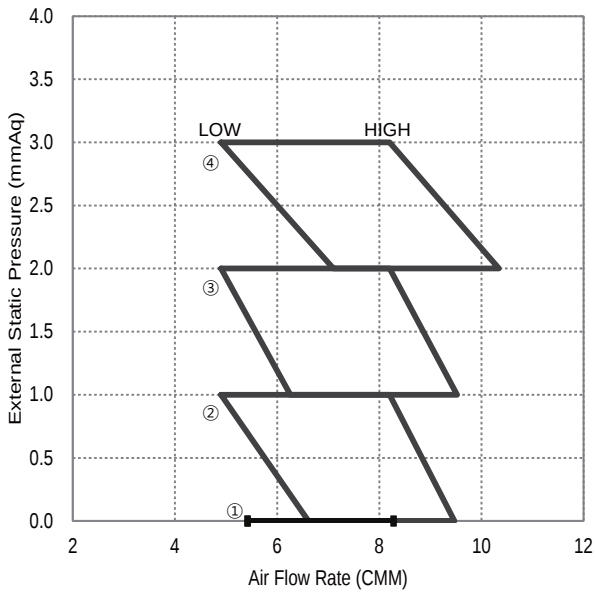
Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C9073-201616-331110
② 0 < P≤1(Default)	010054-1C90D5-201616-331110
③ 1 < P≤2	010054-1C942A-201616-331110
④ 2 < P≤3	010054-1C95A4-201616-331110

3) AM028ANLDKH/EU



Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C90B3-201C1C-331110
② 0 < P≤1(Default)	010054-1C9417-201C1C-331110
③ 1 < P≤2	010054-1C946C-201C1C-331110
④ 2 < P≤3	010054-1C95C5-201C1C-331110

4) AM036ANLDKH/EU

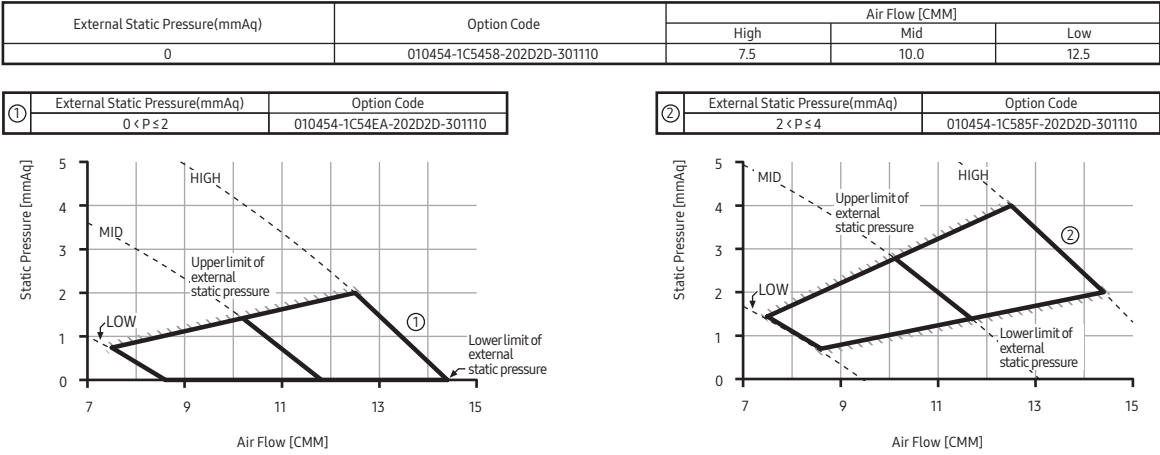


Exernal Static Pressure (mmAq)	Option code
① 0	010054-1C940A-202424-331110
② 0 < P≤1(Default)	010054-1C9459-202424-331110
③ 1 < P≤2	010054-1C94AE-202424-331110
④ 2 < P≤3	010054-1C9916-202424-331110

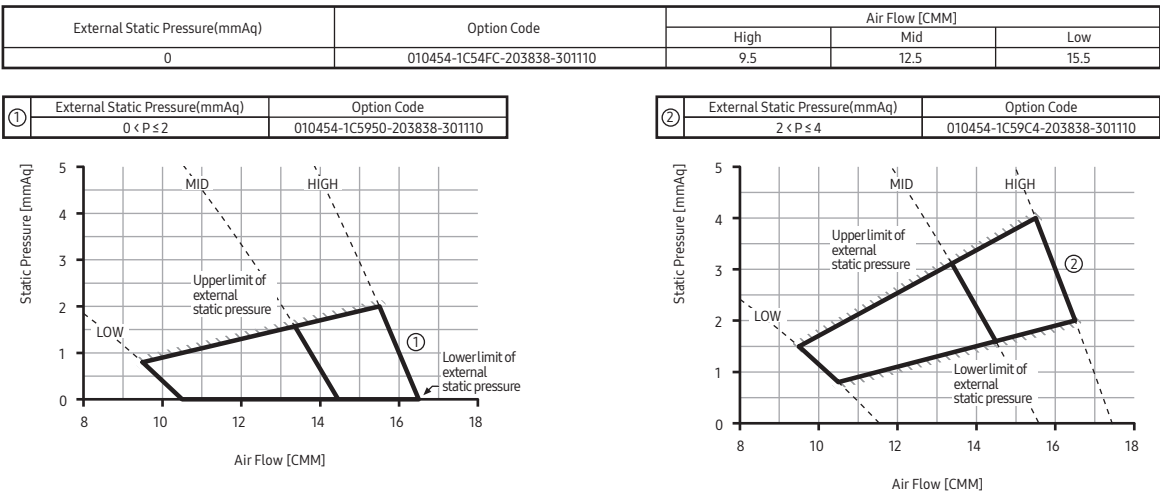
8. Fan Characteristics

Duct

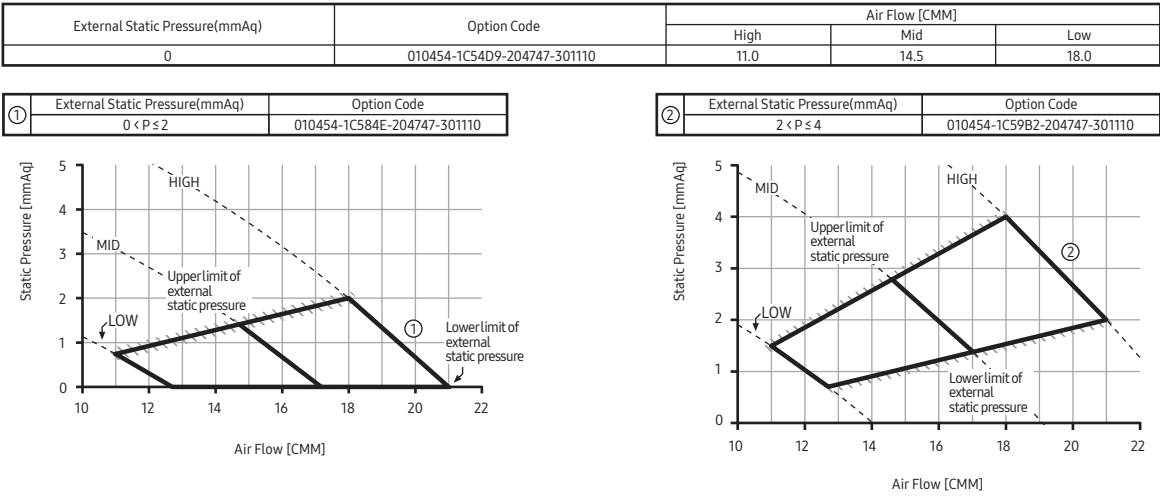
5) AM045ANLDKH/EU



6) AM056ANLDKH/EU



7) AM071ANLDKH/EU

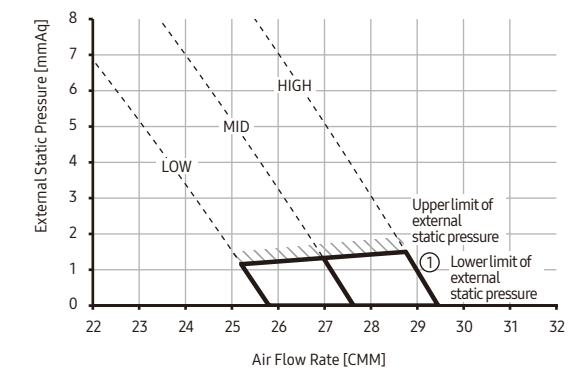


8. Fan Characteristics

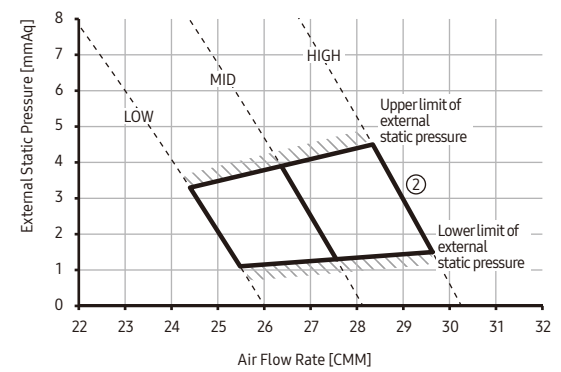
Duct

8) AM090*NLDKH/EU

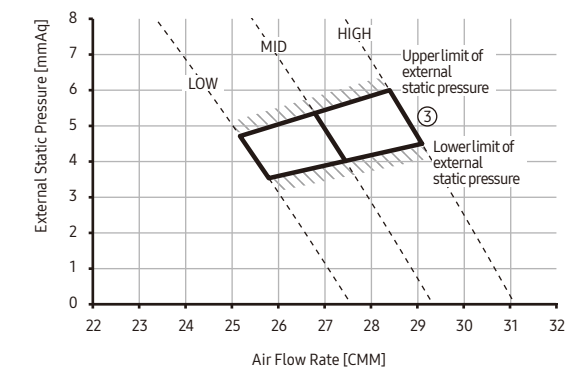
①	External Static Pressure(mmAq)	Option Code
	0 < SP≤1.5	010054-1B596C-205A5A-331110



②	External Static Pressure(mmAq)	Option Code
	1.5 < SP≤4.5	010054-1B5AD4-205A5A-331110



③	External Static Pressure(mmAq)	Option Code
	4.5 < SP≤6	010054-1B5E2A-205A5A-331110

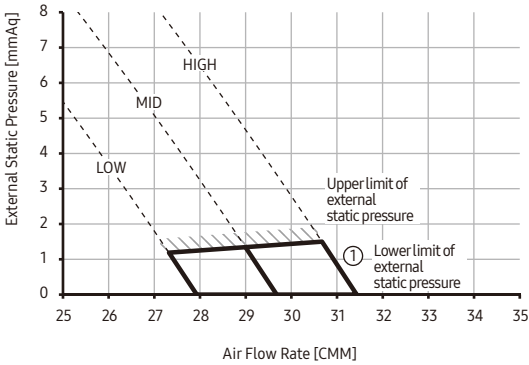


8. Fan Characteristics

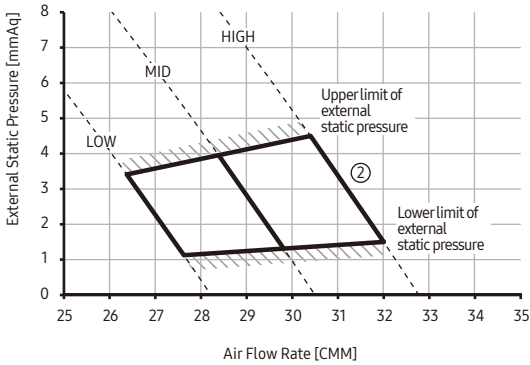
Duct

9) AM112*NLDKH/EU

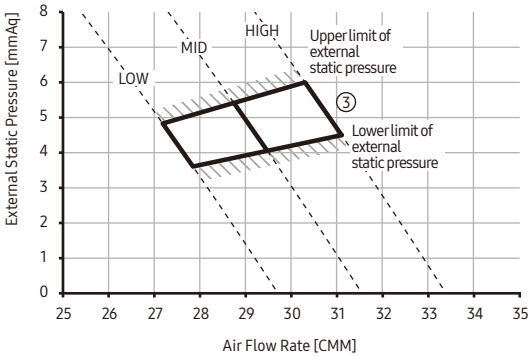
①	External Static Pressure(mmAq)	Option Code
	0 < SP≤1.5	010054-1B596C-207070-331110



②	External Static Pressure(mmAq)	Option Code
	1.5 < SP≤4.5	010054-1B5AD4-207070-331110



③	External Static Pressure(mmAq)	Option Code
	4.5 < SP≤6	010054-1B5E2A-207070-331110

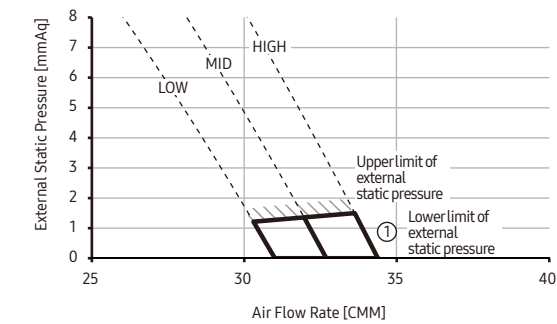


8. Fan Characteristics

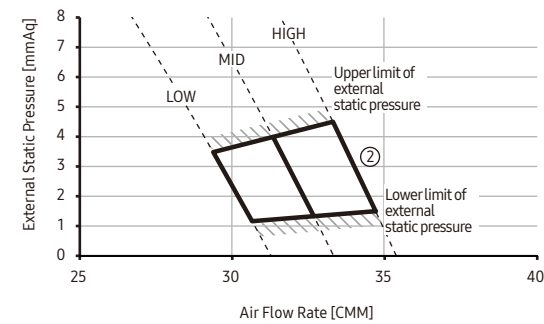
Duct

10) AM128*NLDKH/EU

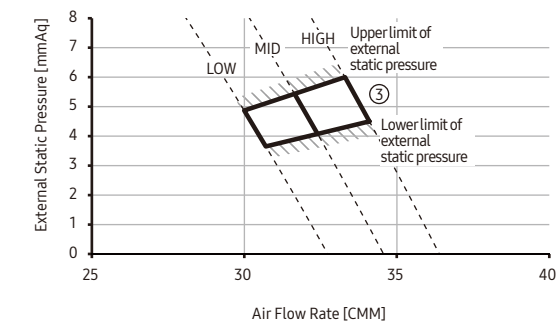
①	External Static Pressure(mmAq)	Option Code
	$0 < SP \leq 1.5$	010054-1B5AF5-208080-331110



②	External Static Pressure(mmAq)	Option Code
	$1.5 < SP \leq 4.5$	010054-1B5E4B-208080-331110



③	External Static Pressure(mmAq)	Option Code
	$4.5 < SP \leq 6$	010054-1B5E8F-208080-331110

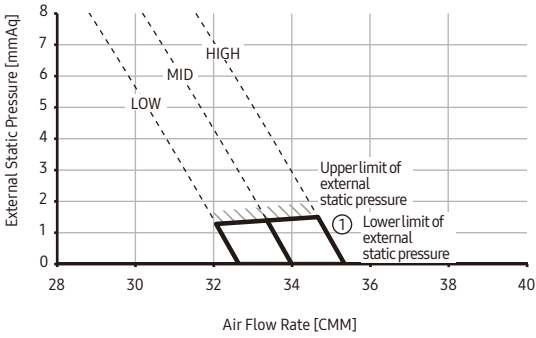


8. Fan Characteristics

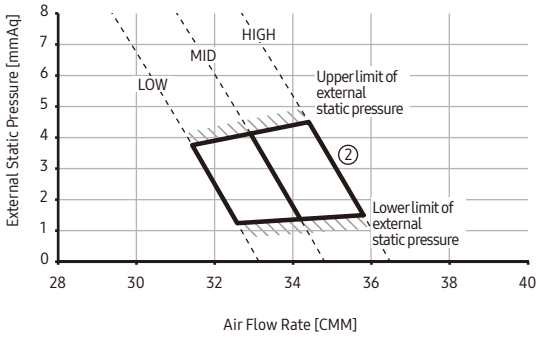
Duct

11) AM140*NLDKH/EU

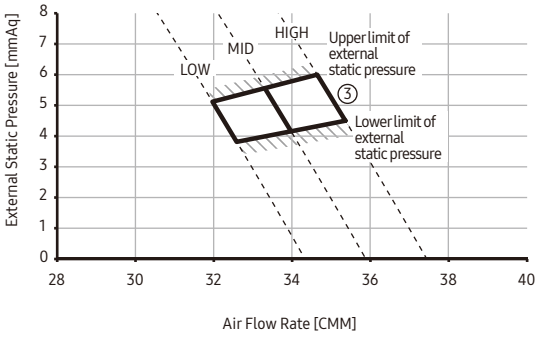
①	External Static Pressure(mmAq)	Option Code
	0 < SP ≤ 1.5	010054-1B5E34-208C8C-331110



②	External Static Pressure(mmAq)	Option Code
	1.5 < SP ≤ 4.5	010054-1B5E7F-208C8C-331110



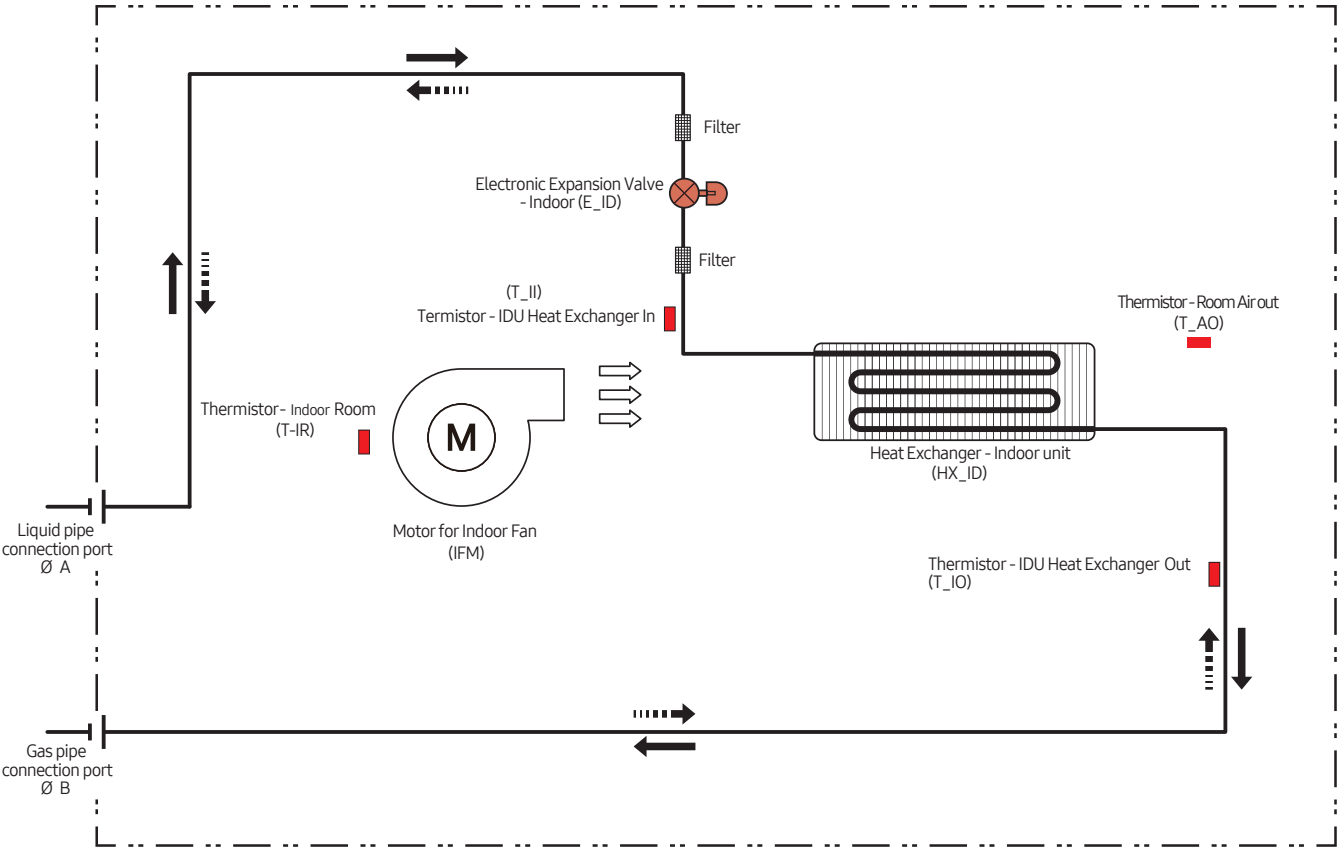
③	External Static Pressure(mmAq)	Option Code
	4.5 < SP ≤ 6	010054-1B5FC3-208C8C-331110



9. Piping Diagram

Duct

EEV included Model



Refrigerant flow	
Cooling	Heating

Unit : mm (inch)

MODEL	A	B
AM017ANLDKH/EU	6.35 (1/4)	12.7 (1/2)
AM022ANLDKH/EU		
AM028ANLDKH/EU		
AM036ANLDKH/EU		
AM045ANLDKH/EU		
AM056ANLDKH/EU	9.52 (3/8)	15.88 (5/8)
AM071ANLDKH/EU		
AM090A*LDKH/EU		
AM112A*LDKH/EU		
AM128A*LDKH/EU		
AM140A*LDKH/EU		

10. Installation

Deciding on where to install the indoor unit

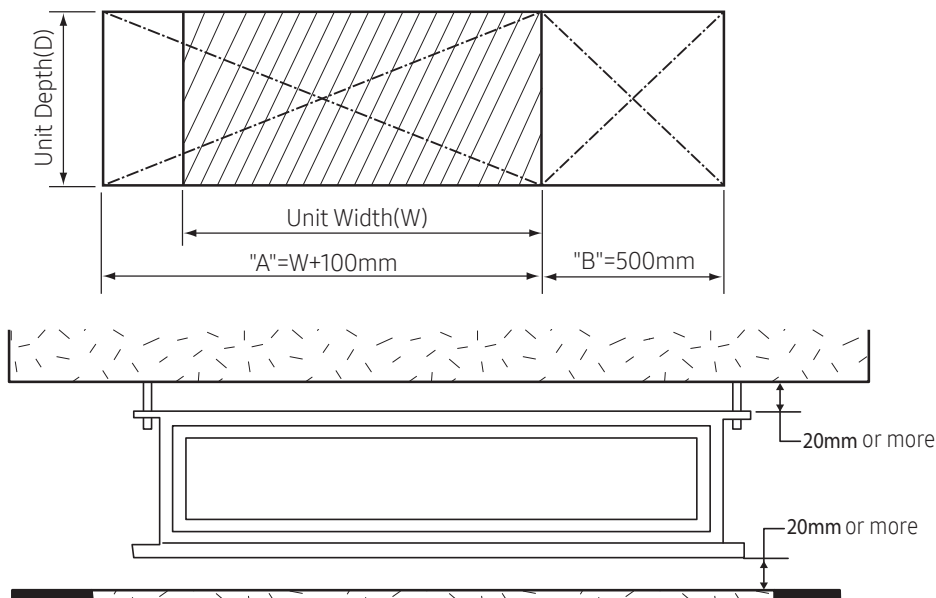
Indoor unit

- ◆ There must be no obstacles near the air inlet and outlet.
- ◆ Install the indoor unit on a ceiling that can support its weight.
- ◆ Maintain sufficient clearance around the indoor unit.
- ◆ Make sure that the water dripping from the drain hose runs away correctly and safely.
- ◆ The indoor unit must be installed in this way, that they are out of public access. (Not touchable by the users)
- ◆ After connecting a chamber, insulate the connection part between the indoor unit and the chamber with t10 or thicker insulation. Otherwise, there can be air leak or dew from the connection part.

Space requirements for installation & service

Construction Standard for Inspection Hole

- 1) In case, the ceiling is tex tile, Inspection hole dose not need.
- 2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiling.
 - a. Height is more than **0.5m** : Only "B" [Inspection for PBA] is applied.
 - b. Height is less than **0.5m** : Both "A"&"B" are applied.
 - c. "A"&"B" are inspection holes .

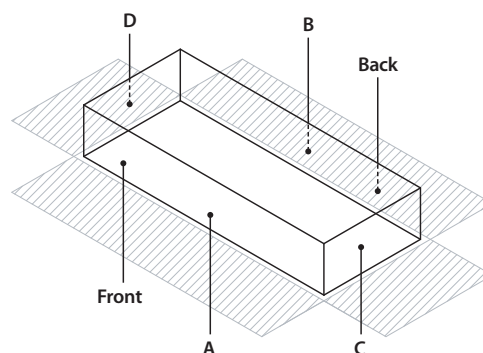


- You must have 20mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user. When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- It is possible to install the unit at an height of between 2.2~2.5m from the ground, if the unit has a duct with a well defined lenght (300mm or more), to avoid fan motor blower contact.
- If you install the cassette or duct type indoor unit on the ceiling with humidity over 80%, you must apply extra 10mm of polyethylene foam or other insulation with similar material on the body of the indoor unit.

10. Installation

Insulation Guide

- ◆ Insulate the end of the pipe and some curved area by using separate insulator.
- ◆ Insulate the discharge and suction part at the same time when you insulate connection duct.
- ◆ If the humidity is over 80%, it is required to add 10mm polyethylene foam or other similar insulation to the indoor unit when installing belt or pipe type indoor unit on the ceiling.



Thickness: more than 10mm

Unit: mm

Indoor Unit		A	B	C	D	Front/Back
AM022ANMPKH AM028ANMPKH AM036ANMPKH AM045ANMPKH AM056ANMPKH AM071ANMPKH	850X700X250	850X250	850X250	700x250	700x250	Insulate the front and back side in proper size at the same time when insulating the suction duct and discharge duct.
AM090ANMPKH AM056ANHPKH AM071ANHPKH AM090ANHPKH	1200x700x250	1200x250	1200x250	700x250	700x250	
AM112ANMPKH AM128ANMPKH AM140ANMPKH AM112ANHPKH AM128ANHPKH AM140ANHPKH	1300x700x300	1300x300	1300x300	700x300	700x300	

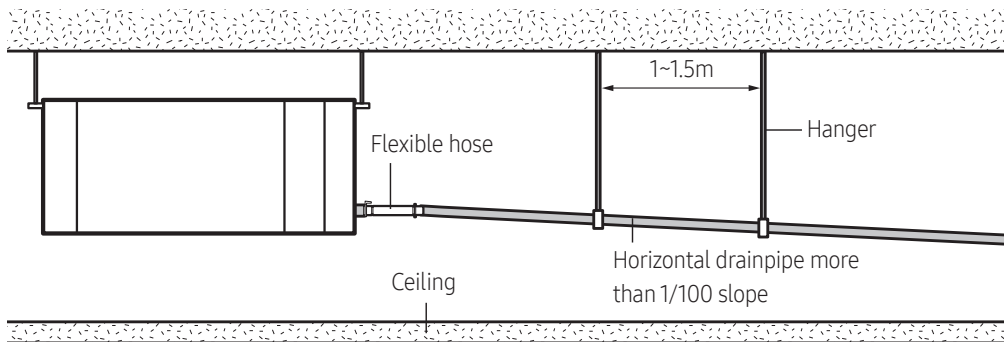
10. Installation

Drainpipe and drain hose installation

Drainpipe Connection

Without the drain pump

1. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
2. Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.
3. Do not install the drainpipe to upward position. It may cause water flow back to the unit.



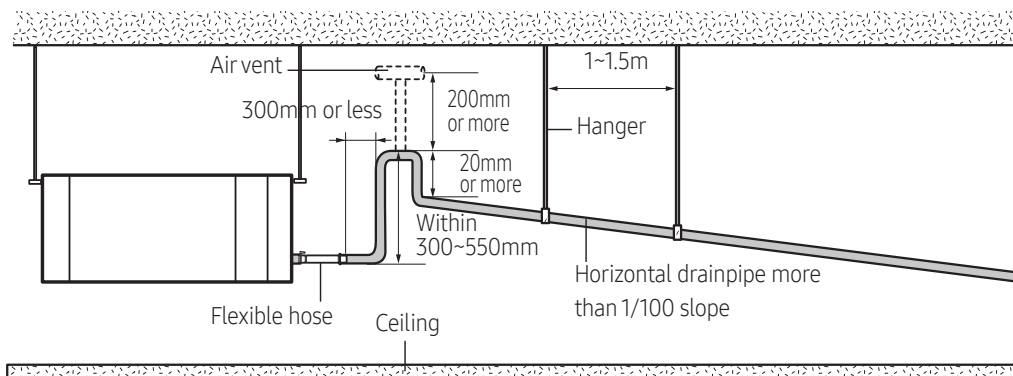
With the drain pump

1. The drain pipe should be installed within 300mm to 550mm from the flexible hose and then lift down 20mm or more.
2. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
3. Install the air vent in the horizontal drainpipe to prevent water flow back to the indoor unit.



• You may not need to install it if there were proper slope in the horizontal drainpipe.

4. The flexible hose should not be installed upward position, it may cause water flow back to the indoor unit.

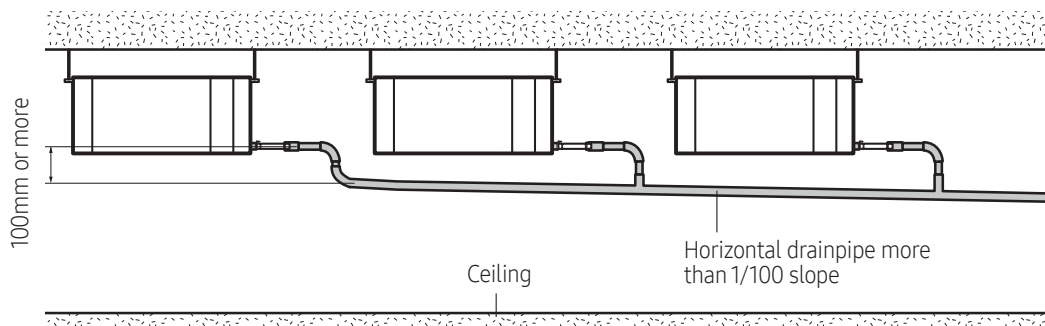


10. Installation

Centralized Drainage

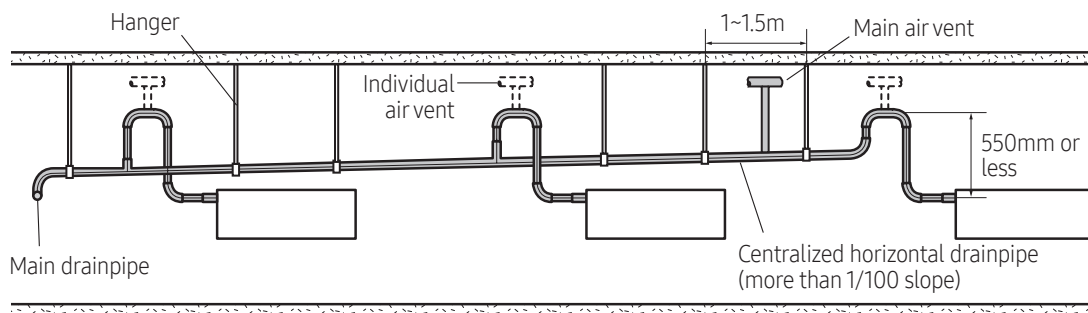
Without the drain pump

1. Install horizontal drainpipe with a slope of 1/100 or more and fix it by hanger space of 1.0~1.5m.
2. Install U-trap at the end of the drainpipe to prevent a nasty smell to reach the indoor unit.



With the drain pump

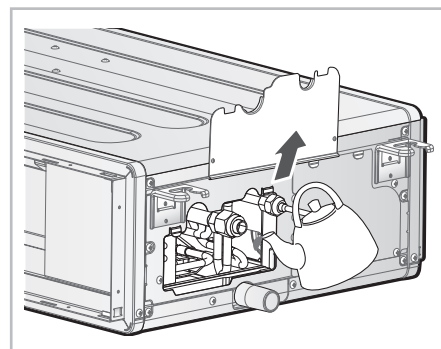
1. Install main air vent at the front of the farthest indoor unit from the main drain when installed indoor units are more than 3.
2. You may need to install individual air vent to prevent water flow back at the top of each indoor unit drainpipe.



Testing the drainage

Prepare a little water about 2 liter.

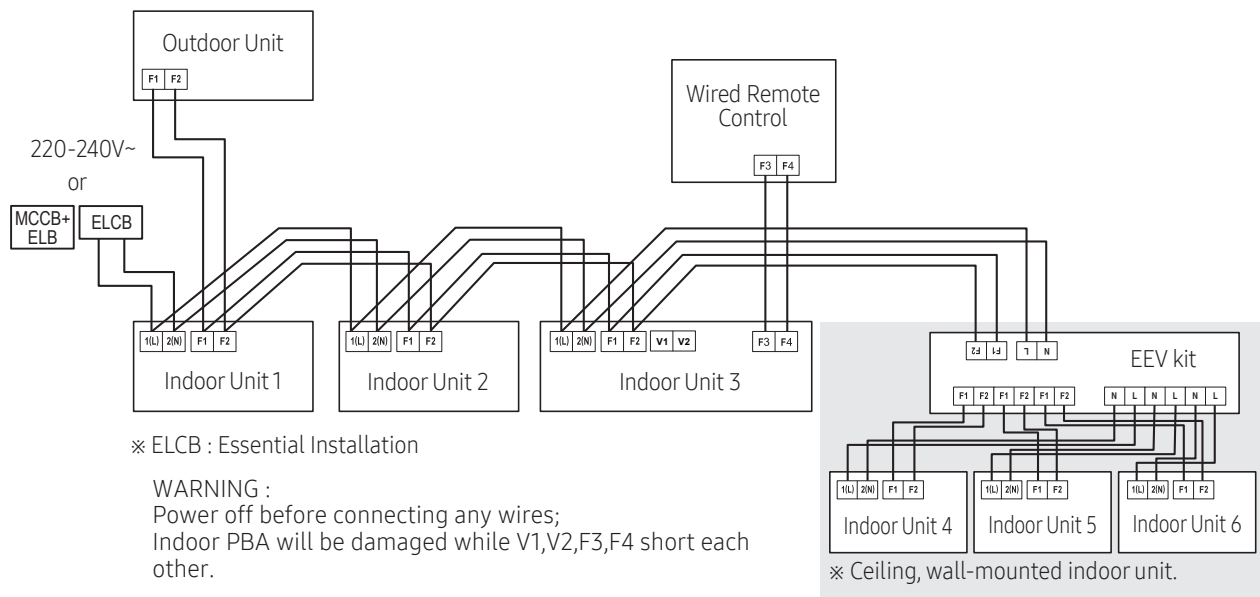
1. Pour water into the base pan in the indoor unit as shown in figure.
2. Confirm that the water flows out through the drain hose.



10. Installation

Power and communication cable connection

1. Before wiring work, you must turn off all power source.
2. Indoor unit power should be supplied through the breaker(ELCB or MCCB+ELB) separated by the outdoor power.
ELCB:Earth Leakage Circuit Breaker
MCCB:Molded Case Circuit Breaker
ELB:Earth Leakage Breaker
3. The power cable should be used only copper wires.
4. Connect the power cable{1(L), 2(N)} among the units within maximum length and communication cable(F1, F2) each.
5. Connect F3, F4(for communication) when installing the wired remote control.



10. Installation

Wiring Work

Specification of electronic wire

Power supply	MCCB	ELB or ELCB	Power cable	Earth cable	Communication cable
Max : 242V Min : 198V	X A	X A, 30mmA 0.1 s	2.5mm ²	2.5mm ²	0.75~1.5mm ²

- ◆ Decide the capacity of ELCB(or MCCB+ELB) by below formula.
- ◆ Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 57 / CENELEC: H05RN-F or IEC:60245 IEC 66 / CENELEC: H07RN-F)

$$\text{The capacity of ELCB(or MCCB+ELB) X [A] = 1.25 X 1.1 X } \sum A_i$$

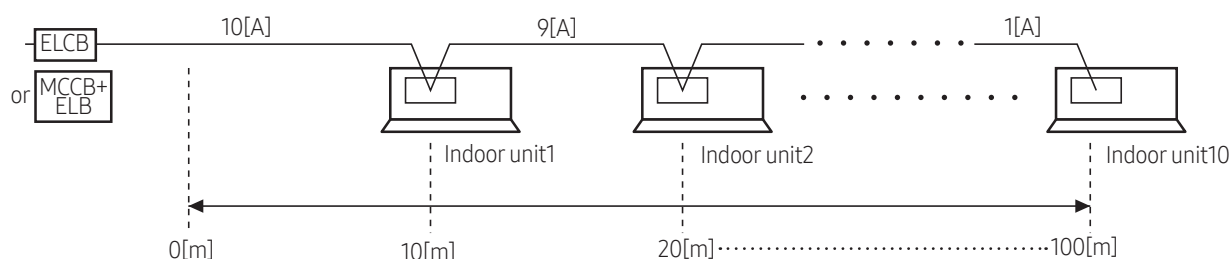
- ※ X : The capacity of ELCB(or MCCB+ELB).
- ※ $\sum A_i$: Sum of Rating currents of each indoor unit.
- ※ Refer to each installation manual about the rating current of indoor unit.
- ◆ Decide the power cable specification and maximum length within 10% power drop among indoor units.

$$\sum_{k=1}^n \left(\frac{\text{Coef} \times 35.6 \times L_k \times i_k}{1000 \times A_k} \right) < 10\% \text{ of input voltage [V]}$$

- ※ coef: 1.55
- ※ Lk: Distance among each indoor unit[m], Ak: Power cable specification[mm²]
- ik: Running current of each unit[A]

Example of Installation

- Total power cable length L = 100(m), Running current of each units 1[A]
- Total 10 indoor units were installed



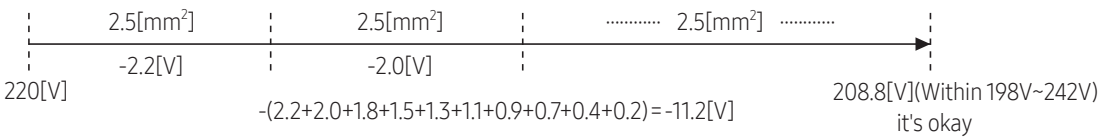
- ◆ Apply following equation.

$$\sum \left(\frac{\text{Coef} \times 35.6 \times L_k \times i_k}{1000 \times A_k} \right) < 10\% \text{ of input voltage [V]}$$

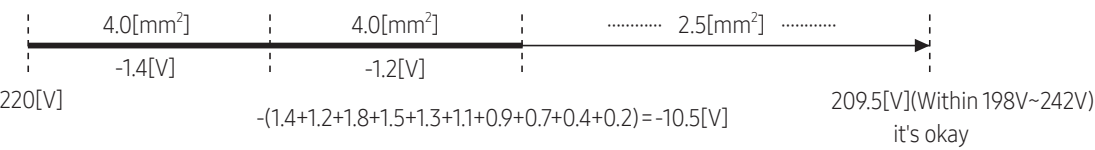
10. Installation

※ Calculation

- Installing with 1 sort wire.



- Installing with 2 different sort wire.



※ Rating current

Unit	Model	Rating current	Unit	Model	Rating current
AM*ANMPKH*	*022*	0.40A	AM*ANHPKH*	*056*	0.70A
	028	0.40A		*071*	1.00A
	036	0.40A		*090*	1.20A
	045	0.50A		*112*	1.20A
	056	0.60A		*128*	1.30A
	071	1.00A		*140*	1.50A
	090	1.20A			
	112	1.20A			
	128	1.40A			
	140	1.70A			



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