SAMSUNG

VRF

Technical Data Book

Duct S for Europe (R410A, 50/60Hz)

Model : AM***ANMPKH/EU, AM***ANHPKH/EU

History

Version	Modification	Date	Remark
Ver. 1.0	Release Duct S TDB for Europe	20.10.23	-
Ver. 2.0	Updated new line up (5 models)	21.03.02	-
Ver. 2.1	Updated the filter information in specification	21.11.16	-

Nomenclature

Indoor Units

Model Names

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

(1) Classification

AM	VRF

(2) Capacity

x 1/10 kW (3 digits)

(3) Version

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

Duct S

Overview

Samsung Ducted Type air conditioning units are a smart solution for low-maintenance, consistent cooling and heating performance in any environment. Their compact, slim frame blends seamlessly into ceilings, enhancing the beauty of the interior space and affording users more flexible installation options. Offering a comprehensive lineup, Samsung Ducted Type air conditioning units offer just the right solution for every need--from the office or shop to the restaurant kitchen.

Experience performance and convenient comfort for any weather condition

Samsung Duct S delivers unparalleled cooling and heating and flexible management with customizable comfort settings in any climate—all year round. Plus, it boasts a slim, compact size and multiple access points for easy setup exactly where needed.

Smart pressure control

Samsung Ducted Type units feature a smart pressure control system. This system adjusts the fan speed based on the external static pressure (ESP), delivering consistent cooling and heating power, regardless of the surrounding environment.

Convenient installation

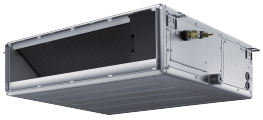
The lift-up drain pump lifts condensed water up to 29.5 inch, compared to a limit of 27.6 inch on conventional models, for flexible and convenient installation.

The Duct S indoor air conditioning unit delivers smooth, consistent operation and convenience with features such as:

- Efficient operation. Stage the desired atmosphere with energy-efficient performance and customized airflow.
- Smart management. Cool spaces efficiently and manage the air conditioning unit even while away, with features designed for efficiency and control.
- Easy, flexible setup. Install and maintain even multiple units with a compact and easily accessible design.

Line-up

Indoor unit

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

Contents

1. Specification

Model Name				AM022ANMPKH/EU	AM028ANMPKH/EU	AM036ANMPKH/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	2.2	2.8	3.6
			Btu/h	7,500	9,600	12,300
		Heating	kW	2.5	3.2	4.0
			Btu/h	8,500	10,900	13,600
Power	Power Input	Cooling	W	42.0	42.0	45.0
		Heating		42.0	42.0	45.0
	Current Input	Cooling	A	0.4	0.4	0.4
		Heating		0.4	0.4	0.4
	Current	MCA	A	0.67	0.67	0.81
		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	10.5 / 9 / 7	10.5 / 9 / 7	12 / 9.5 / 7.5
			l/s	175 / 150 / 117	175 / 150 / 117	208 / 158 / 125
	External Pressure	Min/Std/Max	mmAq	0 / 2.5 / 15	0 / 2.5 / 15	0 / 2.5 / 15
			Pa	0 / 24.52 / 147.1	0 / 24.52 / 147.1	0 / 24.52 / 147.1
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	153 x 1	153 x 1	153 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.)		㎟	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)	28 / 26 / 24	28 / 26 / 24	30 / 27 / 24
	Sound Power Level	Cooling		50	51	53
External Dimension	Net Weight		kg	27.9	27.9	27.5
	Shipping Weight		kg	32.0	32.0	31.0
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1064 x 320 x 784	1064 x 320 x 784
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	Pre-Filter	Pre-Filter

- 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				AM045ANMPKH/EU	AM056ANMPKH/EU	AM071ANMPKH/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	4.5	5.6	7.1
			Btu/h	15,400	19,100	24,200
		Heating	kW	5.0	6.3	8.0
			Btu/h	17,100	21,500	27,300
Power	Power Input	Cooling	W	55.0	70.0	110.0
		Heating		55.0	70.0	110.0
	Current Input	Cooling	A	0.5	0.6	1.0
		Heating		0.5	0.6	1.0
	Current	MCA	A	0.89	1.08	1.48
		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	14 / 11 / 8	16 / 13.5 / 9	21 / 18 / 13
			l/s	233 / 183 / 133	267 / 225 / 150	350 / 300 / 217
	External Pressure	Min/Std/Max	mmAq	0 / 3 / 15	0 / 3 / 15	0 / 3 / 15
			Pa	0 / 29.42 / 147.1	0 / 29.42 / 147.1	0 / 29.42 / 147.1
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	153 x 1	153 x 1	153 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2)	12.7 (1/2)	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.)		㎟	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 / 28 / 25	32 / 29 / 25	36 / 32 / 27
	Sound Power Level	Cooling		54	57	60
External Dimension	Net Weight		kg	27.5	27.5	27.5
	Shipping Weight		kg	31.0	31.0	31.0
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1064 x 320 x 784	1064 x 320 x 784
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	Pre-Filter	Pre-Filter

- 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				AM090ANMPKH/EU	AM112ANMPKH/EU	AM128ANMPKH/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	9.0	11.2	12.8
			Btu/h	30,700	38,200	43,700
		Heating	kW	10.0	12.5	13.8
			Btu/h	34,100	42,700	47,100
Power	Power Input	Cooling	W	135.0	130.0	160.0
		Heating		135.0	130.0	160.0
	Current Input	Cooling	A	1.2	1.2	1.4
		Heating		1.2	1.2	1.4
	Current	MCA	A	1.78	1.97	2.17
		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	m^3/min	27 / 22 / 16	30 / 25 / 18	36 / 30 / 23
			l/s	450 / 367 / 267	500 / 417 / 300	600 / 500 / 383
	External Pressure	Min/Std/Max	mmAq	0 / 4 / 15	0 / 5.2 / 15	0 / 5.2 / 15
			Pa	0 / 39.23 / 147.1	0 / 50.99 / 147.1	0 / 50.99 / 147.1
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	153 x 1	244 x 1	244 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.)		㎟	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 / 33 / 29	36 / 33 / 30	37 / 34 / 31
	Sound Power Level	Cooling		61	61	62
External Dimension	Net Weight		kg	35.0	39.5	39.5
	Shipping Weight		kg	39.5	45.5	45.5
	Net Dimensions (W×H×D)		mm	1200 x 250 x 700	1300 x 300 x 700	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1429 x 320 x 779	1529 x 370 x 779	1529 x 370 x 779
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	Pre-Filter	Pre-Filter

- 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				AM140ANMPKH/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	14.0
			Btu/h	47,800
		Heating	kW	16.0
			Btu/h	54,600
Power	Power Input	Cooling	W	210.0
		Heating		210.0
	Current Input	Cooling	A	1.7
		Heating		1.7
	Current	MCA	A	2.38
		MFA		15
Heat exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	hydrophilic
Fan	Type		-	Sirocco Fan
	Quantity		EA	3
	Air Flow Rate	H/M/L	m^3/min	40 / 34 / 24
			l/s	667 / 567 / 400
	External Pressure	Min/Std/Max	mmAq	0 / 5.2 / 15
			Pa	0 / 50.99 / 147.1
Fan Motor	Type		-	BLDC
	Output x n		W	244 x 1
Piping Connections	Liquid Pipe		Type	Flare connection
			Φ, mm (inch)	9.52 (3/8)
	Gas Pipe		Type	Flare connection
			Φ, mm (inch)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 25,ID 20)
Wiring connections	Communication (Min.)		㎟	0.75
			-	F1, F2
Refrigerant	Type		-	R410A
	Control Method		-	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	39 / 36 / 33
	Sound Power Level	Cooling		64
External Dimension	Net Weight		kg	39.5
	Shipping Weight		kg	45.5
	Net Dimensions (W×H×D)		mm	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1529 x 370 x 779
Casing	Material		-	Steel
Additional Accessories	Drain pump	External Model	-	-
		Internal Model	-	Built in
		Max. lifting	mm / Liter/h	750 / 24
	Air Filter		-	Pre-Filter

- 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				AM056ANHPKH/EU	AM071ANHPKH/EU	AM090ANHPKH/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	5.6	7.1	9.0
			Btu/h	19,100	24,200	30,700
		Heating	kW	6.3	8.0	10.0
			Btu/h	21,500	27,300	34,100
Power	Power Input	Cooling	W	70.0	120.0	145.0
		Heating		70.0	120.0	145.0
	Current Input	Cooling	A	0.7	1.0	1.2
		Heating		0.7	1.0	1.2
	Current	MCA	A	1.37	1.62	2.05
		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 / 16 / 14	22 / 19 / 16	29 / 25 / 22
			l/s	300 / 267 / 233	367 / 317 / 267	483 / 417 / 367
	External Pressure	Min/Std/Max	mmAq	0 / 3 / 20	0 / 3 / 20	0 / 3 / 20
			Pa	0 / 29.42 / 196.13	0 / 29.42 / 196.13	0 / 29.42 / 196.13
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	153 x 1	153 x 1	244 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, mm (inch)	12.7 (1/2)	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.)		㎟	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 / 28 / 25	32 / 29 / 26	34 / 31 / 28
	Sound Power Level	Cooling		58	58	60
External Dimension	Net Weight		kg	35.4	35.4	35.4
	Shipping Weight		kg	40.5	40.5	40.5
	Net Dimensions (W×H×D)		mm	1200 x 250 x 700	1200 x 250 x 700	1200 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1429 x 320 x 779	1429 x 320 x 779	1429 x 320 x 779
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	Pre-Filter	Pre-Filter

- 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				AM112ANHPKH/EU	AM128ANHPKH/EU	AM140ANHPKH/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	11.2	12.8	14.0
			Btu/h	38,200	43,700	47,800
		Heating	kW	12.5	13.8	16.0
			Btu/h	42,700	47,100	54,600
Power	Power Input	Cooling	W	130.0	185.0	220.0
		Heating		130.0	185.0	220.0
	Current Input	Cooling	A	1.2	1.3	1.5
		Heating		1.2	1.3	1.5
	Current	MCA	A	2.41	2.96	3.23
		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	32 / 26 / 20	37 / 30 / 22	41 / 34 / 25
			l/s	533 / 433 / 333	617 / 500 / 367	683 / 567 / 417
	External Pressure	Min/Std/Max	mmAq	3 / 6.2 / 20	3 / 6.2 / 20	3 / 6.2 / 20
			Pa	29.42 / 60.8 / 196.13	29.42 / 60.8 / 196.13	29.42 / 60.8 / 196.13
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	350 x 1	350 x 1	350 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.)		㎟	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)	36 / 33 / 30	39 / 36 / 33	42 / 38 / 34
	Sound Power Level	Cooling		61	64	65
External Dimension	Net Weight		kg	44.5	44.5	44.5
	Shipping Weight		kg	50.5	50.5	50.5
	Net Dimensions (W×H×D)		mm	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1529 x 370 x 779	1529 x 370 x 779	1529 x 370 x 779
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	Pre-Filter	Pre-Filter

- 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 S

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				
AM022ANMPKH/EU	High	2.2	1.5	2.5	10.5	28	50	0 / 2.5 / 15
	Mid	1.9	1.3	2.3	9	26	-	
	Low	1.5	1.0	2.0	7	24	-	
AM028ANMPKH/EU	High	2.8	1.9	3.2	10.5	28	51	0 / 2.5 / 15
	Mid	2.4	1.6	3.0	9	26	-	
	Low	1.9	1.3	2.6	7	24	-	
AM036ANMPKH/EU	High	3.6	2.6	4.0	12	30	53	0 / 2.5 / 15
	Mid	2.9	2.1	3.6	9.5	27	-	
	Low	2.3	1.7	3.2	7.5	24	-	
AM045ANMPKH/EU	High	4.5	3.3	5.0	14	31	54	0 / 3 / 15
	Mid	3.6	2.6	4.4	11	28	-	
	Low	2.6	1.9	3.8	8	25	-	
AM056ANMPKH/EU	High	5.6	4.2	6.3	16	32	57	0 / 3 / 15
	Mid	4.8	3.6	5.8	13.5	29	-	
	Low	3.2	2.4	4.7	9	25	-	
AM071ANMPKH/EU	High	7.1	5.4	8.0	21	36	60	0 / 3 / 15
	Mid	6.2	4.7	7.4	18	32	-	
	Low	4.5	3.4	6.3	13	27	-	
AM090ANMPKH/EU	High	9.0	7.1	10.0	27	37	61	0 / 4 / 15
	Mid	7.5	5.9	9.0	22	33	-	
	Low	5.5	4.3	7.7	16	29	-	
AM112ANMPKH/EU	High	11.2	8.6	12.5	30	36	61	0 / 5.2 / 15
	Mid	9.5	7.3	11.4	25	33	-	
	Low	6.9	5.3	9.7	18	30	-	
AM128ANMPKH/EU	High	12.8	9.9	13.8	36	37	62	0 / 5.2 / 15
	Mid	10.9	8.4	12.6	30	34	-	
	Low	8.4	6.5	11.0	23	31	-	
AM140ANMPKH/EU	High	14.0	10.8	16.0	40	39	64	0 / 5.2 / 15
	Mid	12.1	9.3	14.8	34	36	-	
	Low	8.6	6.6	12.4	24	33	-	
AM056ANHPKH/EU	High	5.6	4.2	6.3	18	31	58	0 / 3 / 20
	Mid	5.1	3.8	5.9	16	28	-	
	Low	4.5	3.4	5.6	14	25	-	
AM071ANHPKH/EU	High	7.1	5.4	8.0	22	32	58	0 / 3 / 20
	Mid	6.2	4.7	7.4	19	29	-	
	Low	5.3	4.0	6.8	16	26	-	
AM090ANHPKH/EU	High	9.0	7.1	10.0	29	34	60	0 / 3 / 20
	Mid	7.9	6.2	9.3	25	31	-	
	Low	7.0	5.5	8.7	22	28	-	
AM112ANHPKH/EU	High	11.2	8.6	12.5	32	36	61	3 / 6.2 / 20
	Mid	9.3	7.1	11.3	26	33	-	
	Low	7.2	5.5	9.9	20	30	-	
AM128ANHPKH/EU	High	12.8	9.9	13.8	37	39	64	3 / 6.2 / 20
	Mid	10.6	8.2	12.4	30	36	-	
	Low	7.8	6.0	10.6	22	33	-	
AM140ANHPKH/EU	High	14.0	10.8	16.0	41	42	65	3 / 6.2 / 20
	Mid	11.9	9.2	14.6	34	38	-	
	Low	8.8	6.8	12.5	25	34	-	

2. Summary Table

Duct S

Electrical Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM022ANMPKH/EU	1,2,220~240,50/60	42	0.4	0.67	15	0.54
AM028ANMPKH/EU		42	0.4	0.67	15	0.54
AM036ANMPKH/EU		45	0.4	0.81	15	0.64
AM045ANMPKH/EU		55	0.5	0.89	15	0.71
AM056ANMPKH/EU		70	0.6	1.08	15	0.86
AM071ANMPKH/EU		110	1.0	1.48	15	1.19
AM090ANMPKH/EU		135	1.2	1.78	15	1.42
AM112ANMPKH/EU		130	1.2	1.97	15	1.57
AM128ANMPKH/EU		160	1.4	2.17	15	1.74
AM140ANMPKH/EU		210	1.7	2.38	15	1.90
AM056ANHPKH/EU		70	0.7	1.37	15	1.10
AM071ANHPKH/EU		120	1.0	1.62	15	1.30
AM090ANHPKH/EU		145	1.2	2.05	15	1.64
AM112ANHPKH/EU		130	1.2	2.41	15	1.93
AM128ANHPKH/EU		185	1.3	2.96	15	2.37
AM140ANHPKH/EU		220	1.5	3.23	15	2.59

NOTE

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

3. Capacity Table

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (℃,DB)	Indoor temperature													
		20(℃,DB)		23(℃,DB)		26(℃,DB)		27(℃,DB)		28(℃,DB)		30(℃,DB)		32(℃,DB)	
		14(℃,WB)		16(℃,WB)		18(℃,WB)		19(℃,WB)		20(℃,WB)		22(℃,WB)		24(℃,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
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

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (℃,DB)	Indoor temperature													
		20(℃,DB)		23(℃,DB)		26(℃,DB)		27(℃,DB)		28(℃,DB)		30(℃,DB)		32(℃,DB)	
		14(℃,WB)		16(℃,WB)		18(℃,WB)		19(℃,WB)		20(℃,WB)		22(℃,WB)		24(℃,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
	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	2.7	2.1	3.1	2.2	3.1	2.2	3.3	2.3	3.4	2.1	3.4	1.9
045	-5	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	-4	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	-2	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	0	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	2	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	4	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	6	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	8	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	10	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	12	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	14	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.4	3.4
	16	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	18	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	20	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	21	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	23	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	25	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	27	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	29	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	31	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	33	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	35	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.7	3.3	5.0	3.3	5.3	3.1
	37	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.6	3.2	4.9	3.2	5.2	3.1
	39	3.1	2.7	3.7	3.1	4.2	3.2	4.5	3.3	4.6	3.2	4.9	3.2	5.1	3.0
	42	3.1	2.7	3.7	3.1	4.2	3.2	4.4	3.3	4.5	3.2	4.8	3.1	5.0	2.9
	44	3.1	2.7	3.7	3.1	4.1	3.1	4.3	3.2	4.4	3.1	4.6	3.0	4.8	2.8
	46	3.1	2.7	3.7	3.1	4.0	3.0	4.2	3.1	4.3	3.0	4.5	2.9	4.7	2.7
	48	3.1	2.6	3.6	3.0	3.9	3.0	4.0	3.0	4.2	2.9	4.3	2.8	4.5	2.6
	50	3.1	2.6	3.6	2.9	3.8	2.9	3.9	2.9	4.1	2.8	4.2	2.7	4.3	2.5

3. Capacity Table

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (℃,DB)	Indoor temperature													
		20(℃,DB)		23(℃,DB)		26(℃,DB)		27(℃,DB)		28(℃,DB)		30(℃,DB)		32(℃,DB)	
		14(℃,WB)		16(℃,WB)		18(℃,WB)		19(℃,WB)		20(℃,WB)		22(℃,WB)		24(℃,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
056	-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	5.5	4.1	5.7	4.2	6.0	4.0	6.2	3.7
	44	3.9	3.3	4.6	3.8	5.1	3.9	5.3	4.0	5.6	4.0	5.8	3.9	6.0	3.6
	46	3.9	3.3	4.6	3.7	5.0	3.8	5.2	3.9	5.4	3.9	5.6	3.7	5.9	3.5
	48	3.9	3.2	4.5	3.7	5.0	3.7	5.0	3.8	5.3	3.8	5.4	3.6	5.7	3.3
	50	3.9	3.2	4.5	3.6	4.9	3.6	4.9	3.7	5.2	3.7	5.3	3.5	5.5	3.2
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	5.2
	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	7.0	5.3	7.2	5.4	7.6	5.3	7.9	5.0
	44	4.9	4.3	5.8	5.0	6.5	5.0	6.8	5.2	7.0	5.3	7.3	5.1	7.6	4.8
	46	4.9	4.3	5.7	5.0	6.4	4.9	6.6	5.0	6.8	5.1	7.0	4.9	7.4	4.7
	48	4.8	4.2	5.7	4.9	6.3	4.9	6.4	4.9	6.7	5.0	6.8	4.8	7.2	4.5
	50	4.8	4.2	5.7	4.8	6.2	4.8	6.3	4.8	6.6	4.9	6.6	4.7	7.0	4.4

3. Capacity Table

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (℃,DB)	Indoor temperature													
		20(℃,DB)		23(℃,DB)		26(℃,DB)		27(℃,DB)		28(℃,DB)		30(℃,DB)		32(℃,DB)	
		14(℃,WB)		16(℃,WB)		18(℃,WB)		19(℃,WB)		20(℃,WB)		22(℃,WB)		24(℃,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
090	-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
	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	6.2	7.7	6.3	8.0	6.3	8.3	6.4	8.4	6.0	8.7	5.8
112	-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	7.4	9.7	7.6	9.9	7.5	10.4	7.8	10.6	7.6	11.2	7.2

3. Capacity Table

Cooling

TC: Total Capacity, SHC: Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (℃,DB)	Indoor temperature													
		20(℃,DB)		23(℃,DB)		26(℃,DB)		27(℃,DB)		28(℃,DB)		30(℃,DB)		32(℃,DB)	
		14(℃,WB)		16(℃,WB)		18(℃,WB)		19(℃,WB)		20(℃,WB)		22(℃,WB)		24(℃,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
128	-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	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
	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	10.1	8.6	11.0	8.8	11.3	8.7	11.8	8.7	11.9	8.2	12.3	8.0
140	-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
	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	11.0	9.4	12.0	9.7	12.4	9.5	12.9	9.6	13.1	9.1	13.6	8.8

NOTE

The performance table shows the average value of each conditions.

3. Capacity Table

Heating

TC: Total Capacity

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

3. Capacity Table

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
036	-25	-25.1	2.2	2.2	2.2	2.1	2.1	2.1	2.1
	-22	-22.2	2.3	2.3	2.3	2.2	2.2	2.2	2.2
	-19.8	-20.0	2.4	2.4	2.4	2.3	2.3	2.3	2.3
	-18.8	-19.0	2.6	2.5	2.4	2.3	2.3	2.3	2.2
	-16.7	-17.0	2.7	2.6	2.5	2.4	2.4	2.3	2.2
	-14.7	-15.0	2.8	2.7	2.6	2.5	2.5	2.4	2.3
	-12.6	-13.0	2.9	2.8	2.7	2.7	2.6	2.6	2.5
	-10.5	-11.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8
	-9.5	-10.0	2.9	2.9	2.9	2.9	2.8	2.8	2.8
	-8.5	-9.1	3.0	3.0	3.0	3.0	2.9	2.9	2.9
	-7.0	-7.6	3.2	3.1	3.1	3.0	3.0	2.9	2.8
	-5.0	-5.6	3.4	3.3	3.2	3.2	3.1	3.0	2.9
	-3.0	-3.7	3.5	3.4	3.4	3.3	3.2	3.1	3.0
	0.0	-0.7	3.7	3.6	3.6	3.5	3.4	3.2	3.1
	3.0	2.2	3.9	3.8	3.7	3.7	3.5	3.4	3.3
	5.0	4.1	4.0	3.9	3.9	3.8	3.6	3.4	3.2
	7.0	6.0	4.3	4.1	4.1	4.0	3.7	3.4	3.2
	9.0	7.9	4.4	4.2	4.1	4.0	3.7	3.4	3.2
	11.0	9.8	4.7	4.4	4.2	4.0	3.7	3.4	3.1
	13.0	11.8	4.9	4.5	4.2	4.0	3.7	3.4	3.1
	15.0	13.7	5.0	4.6	4.3	4.0	3.7	3.4	3.1
	18.0	16.6	5.0	4.6	4.3	4.0	3.7	3.4	3.1
	20.0	18.5	5.0	4.6	4.3	4.0	3.7	3.4	3.1
	22.0	20.4	5.0	4.6	4.3	4.0	3.7	3.4	3.1
	24.0	22.4	5.0	4.6	4.3	4.0	3.7	3.4	3.1
045	-25	-25.1	2.9	2.9	2.8	2.7	2.7	2.7	2.7
	-22	-22.2	3.1	3.0	3.0	2.8	2.8	2.8	2.7
	-19.8	-20.0	3.2	3.1	3.1	2.9	2.9	2.9	2.8
	-18.8	-19.0	3.2	3.1	3.1	3.0	2.9	2.9	2.8
	-16.7	-17.0	3.3	3.2	3.2	3.1	3.0	3.0	2.9
	-14.7	-15.0	3.4	3.3	3.3	3.2	3.1	3.0	2.9
	-12.6	-13.0	3.6	3.5	3.4	3.4	3.3	3.2	3.1
	-10.5	-11.0	3.8	3.7	3.6	3.6	3.5	3.4	3.3
	-9.5	-10.0	3.8	3.7	3.6	3.6	3.5	3.5	3.4
	-8.5	-9.1	3.9	3.8	3.7	3.7	3.6	3.6	3.5
	-7.0	-7.6	4.0	3.9	3.8	3.8	3.7	3.6	3.5
	-5.0	-5.6	4.2	4.1	4.0	4.0	3.9	3.7	3.6
	-3.0	-3.7	4.4	4.3	4.2	4.2	4.0	3.9	3.8
	0.0	-0.7	4.6	4.5	4.4	4.4	4.2	4.0	3.8
	3.0	2.2	4.8	4.7	4.7	4.6	4.4	4.2	4.0
	5.0	4.1	5.1	4.9	4.9	4.8	4.5	4.2	4.0
	7.0	6.0	5.4	5.1	5.1	5.0	4.6	4.2	3.9
	9.0	7.9	5.6	5.3	5.2	5.0	4.6	4.2	3.9
	11.0	9.8	5.9	5.5	5.2	5.0	4.6	4.2	3.8
	13.0	11.8	6.1	5.6	5.3	5.0	4.6	4.2	3.8
	15.0	13.7	6.4	5.8	5.4	5.0	4.6	4.2	3.8
	18.0	16.6	6.4	5.8	5.4	5.0	4.6	4.2	3.8
	20.0	18.5	6.4	5.8	5.4	5.0	4.6	4.2	3.8
	22.0	20.4	6.4	5.8	5.4	5.0	4.6	4.2	3.8
	24.0	22.4	6.4	5.8	5.4	5.0	4.6	4.2	3.8

3. Capacity Table

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
056	-25	-25.1	3.7	3.6	3.5	3.5	3.4	3.4	3.3
	-22	-22.2	3.9	3.8	3.7	3.7	3.6	3.6	3.5
	-19.8	-20.0	4.0	3.9	3.8	3.8	3.7	3.7	3.6
	-18.8	-19.0	4.0	3.9	3.9	3.8	3.7	3.7	3.6
	-16.7	-17.0	4.1	4.0	4.0	3.9	3.8	3.8	3.7
	-14.7	-15.0	4.3	4.2	4.1	4.0	3.9	3.8	3.7
	-12.6	-13.0	4.5	4.4	4.3	4.2	4.1	4.0	3.9
	-10.5	-11.0	4.7	4.6	4.5	4.4	4.4	4.3	4.2
	-9.5	-10.0	4.8	4.7	4.6	4.6	4.5	4.4	4.3
	-8.5	-9.1	4.9	4.8	4.7	4.7	4.6	4.5	4.4
	-7.0	-7.6	5.0	4.9	4.8	4.8	4.7	4.5	4.4
	-5.0	-5.6	5.3	5.2	5.1	5.0	4.9	4.7	4.5
	-3.0	-3.7	5.5	5.4	5.3	5.3	5.1	4.9	4.7
	0.0	-0.7	5.9	5.7	5.6	5.5	5.3	5.0	4.8
	3.0	2.2	6.1	5.9	5.9	5.8	5.6	5.3	5.1
	5.0	4.1	6.5	6.2	6.1	6.0	5.7	5.3	5.0
	7.0	6.0	6.9	6.5	6.4	6.3	5.8	5.3	4.9
	9.0	7.9	7.1	6.7	6.5	6.3	5.8	5.3	4.9
	11.0	9.8	7.4	6.9	6.6	6.3	5.8	5.3	4.8
	13.0	11.8	7.7	7.1	6.7	6.3	5.8	5.3	4.8
	15.0	13.7	8.0	7.3	6.8	6.3	5.8	5.3	4.8
	18.0	16.6	8.0	7.3	6.8	6.3	5.8	5.3	4.8
	20.0	18.5	8.0	7.3	6.8	6.3	5.8	5.3	4.8
	22.0	20.4	8.0	7.3	6.8	6.3	5.8	5.3	4.8
	24.0	22.4	8.0	7.3	6.8	6.3	5.8	5.3	4.8
071	-25	-25.1	4.6	4.5	4.5	4.4	4.3	4.3	4.2
	-22	-22.2	4.8	4.7	4.7	4.6	4.5	4.5	4.4
	-19.8	-20.0	5.0	4.9	4.9	4.8	4.7	4.7	4.6
	-18.8	-19.0	5.1	5.0	4.9	4.8	4.7	4.7	4.6
	-16.7	-17.0	5.2	5.1	5.0	4.9	4.8	4.8	4.7
	-14.7	-15.0	5.4	5.3	5.2	5.1	4.9	4.8	4.6
	-12.6	-13.0	5.6	5.5	5.4	5.3	5.2	5.1	5.0
	-10.5	-11.0	5.9	5.8	5.7	5.6	5.5	5.5	5.4
	-9.5	-10.0	6.1	6.0	5.9	5.8	5.7	5.6	5.5
	-8.5	-9.1	6.2	6.1	6.0	5.9	5.8	5.7	5.6
	-7.0	-7.6	6.3	6.2	6.1	6.0	5.9	5.8	5.7
	-5.0	-5.6	6.6	6.5	6.5	6.4	6.2	6.0	5.8
	-3.0	-3.7	7.1	6.9	6.8	6.7	6.4	6.2	6.0
	0.0	-0.7	7.4	7.2	7.1	7.0	6.7	6.4	6.1
	3.0	2.2	7.8	7.6	7.5	7.3	7.1	6.8	6.5
	5.0	4.1	8.2	7.9	7.8	7.7	7.2	6.8	6.4
	7.0	6.0	8.6	8.2	8.1	8.0	7.4	6.8	6.4
	9.0	7.9	9.0	8.5	8.2	8.0	7.4	6.8	6.3
	11.0	9.8	9.3	8.7	8.4	8.0	7.4	6.8	6.2
	13.0	11.8	9.7	9.0	8.5	8.0	7.4	6.8	6.2
	15.0	13.7	10.0	9.2	8.6	8.0	7.4	6.8	6.1
	18.0	16.6	10.0	9.2	8.6	8.0	7.4	6.8	6.1
	20.0	18.5	10.0	9.2	8.6	8.0	7.4	6.8	6.1
	22.0	20.4	10.0	9.2	8.6	8.0	7.4	6.8	6.1
	24.0	22.4	10.0	9.2	8.6	8.0	7.4	6.8	6.1

3. Capacity Table

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
090	-25	-25.1	5.6	5.6	5.5	5.4	5.3	5.3	5.3
	-22	-22.2	5.9	5.8	5.8	5.7	5.6	5.6	5.5
	-19.8	-20.0	6.1	6.0	6.0	5.9	5.8	5.8	5.7
	-18.8	-19.0	6.2	6.1	6.1	6.0	5.9	5.8	5.7
	-16.7	-17.0	6.5	6.4	6.3	6.1	6.0	5.9	5.7
	-14.7	-15.0	6.9	6.7	6.5	6.3	6.2	6.1	5.9
	-12.6	-13.0	7.0	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	6.8
	-9.5	-10.0	7.5	7.4	7.3	7.2	7.1	7.0	6.9
	-8.5	-9.1	7.7	7.6	7.5	7.4	7.2	7.1	6.9
	-7.0	-7.6	8.0	7.8	7.7	7.6	7.4	7.2	7.0
	-5.0	-5.6	8.4	8.2	8.1	8.0	7.7	7.5	7.3
	-3.0	-3.7	8.9	8.6	8.5	8.4	8.1	7.7	7.4
	0.0	-0.7	9.3	9.0	8.9	8.8	8.4	8.0	7.7
	3.0	2.2	9.7	9.4	9.3	9.2	8.8	8.4	8.1
	5.0	4.1	10.3	9.9	9.7	9.6	9.0	8.4	7.9
	7.0	6.0	10.9	10.3	10.1	10.0	9.2	8.4	7.8
	9.0	7.9	11.3	10.6	10.3	10.0	9.2	8.4	7.7
	11.0	9.8	11.7	10.9	10.5	10.0	9.2	8.4	7.7
	13.0	11.8	12.1	11.2	10.6	10.0	9.2	8.4	7.6
	15.0	13.7	12.7	11.6	10.8	10.0	9.2	8.4	7.5
	18.0	16.6	12.7	11.6	10.8	10.0	9.2	8.4	7.5
	20.0	18.5	12.7	11.6	10.8	10.0	9.2	8.4	7.5
	22.0	20.4	12.7	11.6	10.8	10.0	9.2	8.4	7.5
	24.0	22.4	12.7	11.6	10.8	10.0	9.2	8.4	7.5
112	-25	-25.1	6.8	6.8	6.8	6.7	6.7	6.7	6.7
	-22	-22.2	7.2	7.2	7.1	7.1	7.1	7.1	7.1
	-19.8	-20.0	7.4	7.4	7.4	7.3	7.3	7.3	7.3
	-18.8	-19.0	7.7	7.6	7.6	7.4	7.4	7.3	7.2
	-16.7	-17.0	8.3	8.1	7.8	7.6	7.5	7.4	7.2
	-14.7	-15.0	8.6	8.4	8.2	8.0	7.8	7.6	7.3
	-12.6	-13.0	8.9	8.7	8.5	8.3	8.1	8.0	7.8
	-10.5	-11.0	9.2	9.1	8.9	8.8	8.7	8.6	8.4
	-9.5	-10.0	9.4	9.3	9.1	9.0	8.9	8.8	8.6
	-8.5	-9.1	9.7	9.5	9.3	9.2	9.0	8.9	8.7
	-7.0	-7.6	9.9	9.7	9.6	9.4	9.2	9.0	8.8
	-5.0	-5.6	10.4	10.2	10.1	9.9	9.6	9.3	9.0
	-3.0	-3.7	11.0	10.7	10.6	10.5	10.1	9.7	9.4
	0.0	-0.7	11.7	11.3	11.1	11.1	10.5	10.0	9.6
	3.0	2.2	12.1	11.8	11.6	11.5	11.0	10.6	10.2
	5.0	4.1	12.8	12.3	12.2	12.0	11.3	10.6	10.1
	7.0	6.0	13.6	12.9	12.7	12.5	11.5	10.6	9.9
	9.0	7.9	14.1	13.3	12.9	12.5	11.5	10.6	9.8
	11.0	9.8	14.7	13.7	13.1	12.5	11.5	10.6	9.7
	13.0	11.8	15.1	14.0	13.3	12.5	11.5	10.6	9.6
	15.0	13.7	15.7	14.4	13.5	12.5	11.5	10.6	9.6
	18.0	16.6	15.7	14.4	13.5	12.5	11.5	10.6	9.6
	20.0	18.5	15.7	14.4	13.5	12.5	11.5	10.6	9.6
	22.0	20.4	15.7	14.4	13.5	12.5	11.5	10.6	9.6
	24.0	22.4	15.7	14.4	13.5	12.5	11.5	10.6	9.6

3. Capacity Table

Heating

TC: Total Capacity

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
128	-25	-25.1	7.5	7.5	7.4	7.4	7.3	7.3	7.3
	-22	-22.2	7.8	7.8	7.8	7.7	7.7	7.7	7.7
	-19.8	-20.0	8.1	8.1	8.1	8.0	8.0	8.0	8.0
	-18.8	-19.0	8.4	8.3	8.3	8.2	8.1	8.0	7.9
	-16.7	-17.0	9.0	8.8	8.6	8.4	8.3	8.1	7.9
	-14.7	-15.0	9.6	9.3	9.1	8.8	8.6	8.3	8.0
	-12.6	-13.0	9.8	9.6	9.4	9.2	9.0	8.8	8.5
	-10.5	-11.0	10.2	10.0	9.9	9.8	9.6	9.4	9.2
	-9.5	-10.0	10.3	10.2	10.1	10.0	9.8	9.7	9.5
	-8.5	-9.1	10.6	10.4	10.3	10.2	10.0	9.8	9.6
	-7.0	-7.6	10.9	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	12.8	12.4	12.3	12.1	11.6	11.0	10.5
	3.0	2.2	13.4	13.0	12.9	12.7	12.2	11.7	11.3
	5.0	4.1	14.2	13.6	13.4	13.2	12.4	11.7	11.1
	7.0	6.0	15.0	14.2	14.0	13.8	12.7	11.7	10.9
	9.0	7.9	15.5	14.6	14.2	13.8	12.7	11.7	10.8
	11.0	9.8	16.2	15.1	14.4	13.8	12.7	11.7	10.7
	13.0	11.8	16.8	15.5	14.7	13.8	12.7	11.7	10.6
	15.0	13.7	17.3	15.9	14.9	13.8	12.7	11.7	10.5
	18.0	16.6	17.3	15.9	14.9	13.8	12.7	11.7	10.5
	20.0	18.5	17.3	15.9	14.9	13.8	12.7	11.7	10.5
	22.0	20.4	17.3	15.9	14.9	13.8	12.7	11.7	10.5
	24.0	22.4	17.3	15.9	14.9	13.8	12.7	11.7	10.5
140	-25	-25.1	8.7	8.7	8.6	8.6	8.6	8.5	8.5
	-22	-22.2	9.2	9.2	9.2	9.1	9.1	9.0	9.0
	-19.8	-20.0	9.6	9.5	9.5	9.4	9.4	9.3	9.2
	-18.8	-19.0	9.8	9.7	9.7	9.5	9.5	9.3	9.2
	-16.7	-17.0	10.4	10.2	10.0	9.7	9.6	9.4	9.1
	-14.7	-15.0	11.1	10.8	10.5	10.2	9.9	9.6	9.2
	-12.6	-13.0	11.4	11.1	10.9	10.7	10.4	10.1	9.8
	-10.5	-11.0	11.8	11.6	11.5	11.3	11.1	10.9	10.7
	-9.5	-10.0	12.0	11.8	11.7	11.5	11.4	11.2	11.0
	-8.5	-9.1	12.3	12.1	11.9	11.8	11.6	11.3	11.0
	-7.0	-7.6	12.6	12.4	12.2	12.1	11.8	11.5	11.2
	-5.0	-5.6	13.4	13.1	12.9	12.7	12.3	12.0	11.6
	-3.0	-3.7	14.2	13.8	13.6	13.4	12.9	12.4	11.9
	0.0	-0.7	14.9	14.4	14.2	14.0	13.4	12.8	12.3
	3.0	2.2	15.5	15.1	14.9	14.7	14.1	13.5	13.0
	5.0	4.1	16.5	15.8	15.6	15.3	14.4	13.5	12.8
	7.0	6.0	17.4	16.5	16.2	16.0	14.8	13.5	12.6
	9.0	7.9	18.1	17.0	16.5	16.0	14.8	13.5	12.5
	11.0	9.8	18.8	17.5	16.7	16.0	14.8	13.5	12.3
	13.0	11.8	19.5	18.0	17.0	16.0	14.8	13.5	12.2
	15.0	13.7	20.2	18.5	17.2	16.0	14.8	13.5	12.1
	18.0	16.6	20.2	18.5	17.2	16.0	14.8	13.5	12.1
	20.0	18.5	20.2	18.5	17.2	16.0	14.8	13.5	12.1
	22.0	20.4	20.2	18.5	17.2	16.0	14.8	13.5	12.1
	24.0	22.4	20.2	18.5	17.2	16.0	14.8	13.5	12.1

NOTE

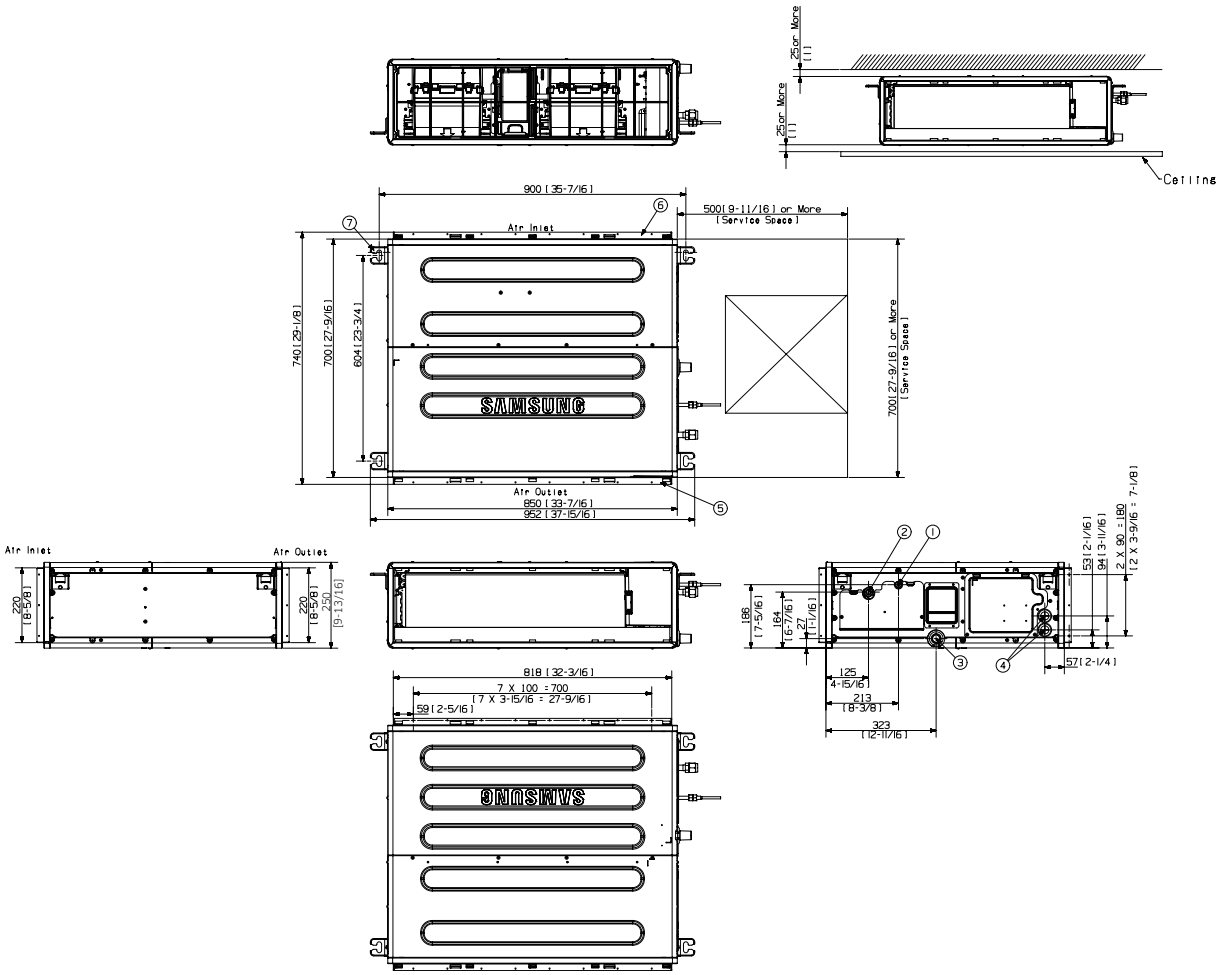
The performance table shows the average value of each conditions.

4. Dimensional Drawing

Duct S

AM022ANMPKH/EU, AM028ANMPKH/EU, AM036ANMPKH/EU, AM045ANMPKH/EU, AM056ANMPKH/EU, AM071ANMPKH/EU

(Unit: mm)

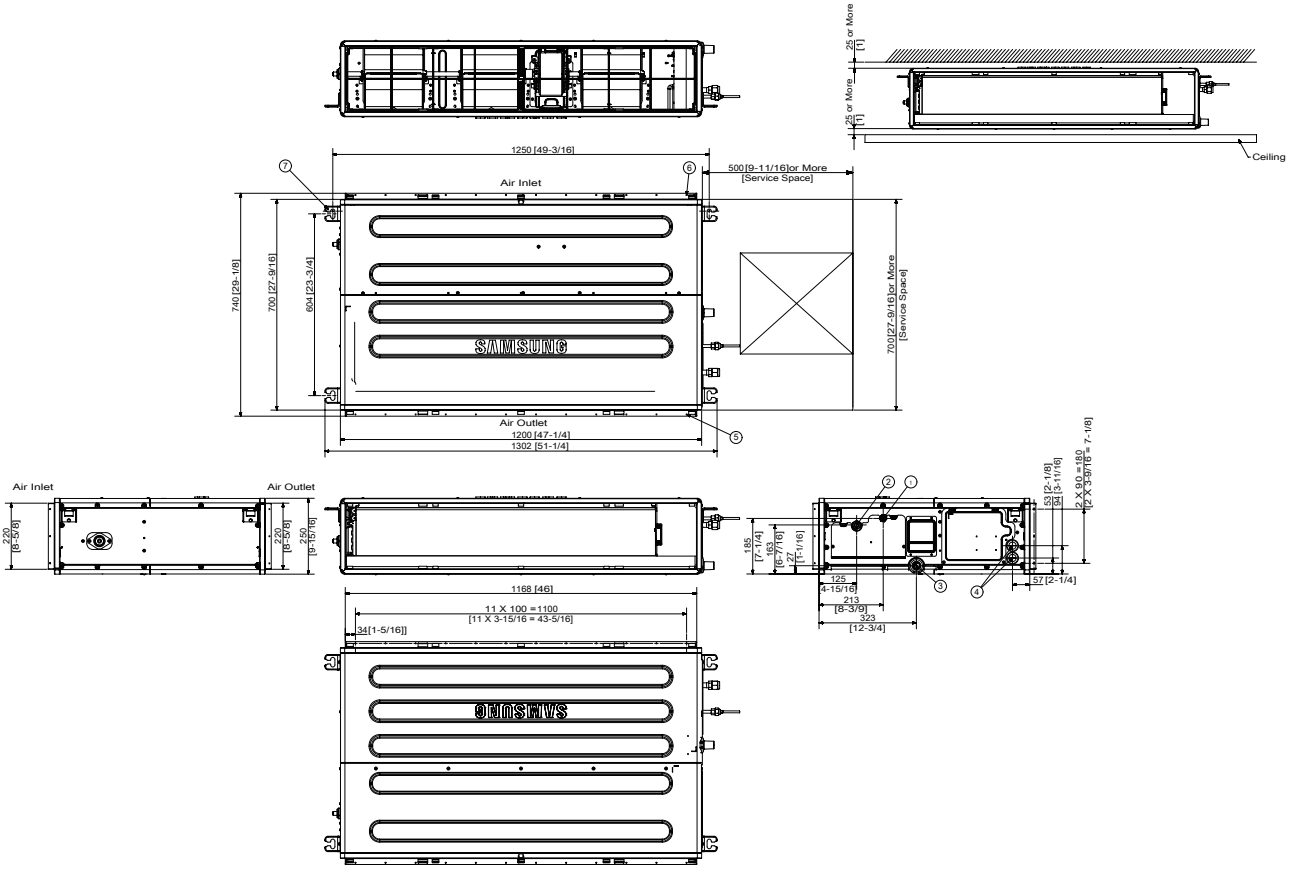


No.	Name	Description	
		AM022/028/036/045/056ANMPKH/EU	AM071ANMPKH/EU
①	Refrigerant Liquid Pipe	Ø6.35 [1/4"]	Ø9.52 [3/8"]
②	Refrigerant Gas Pipe	Φ12.70 [1/2"]	Φ15.88 [5/8"]
③	Condensate Drain	VP25 (OD 32, ID 25)	
④	Power & Comm. Wiring Conduits	-	
⑤	Supply Air Flange	-	
⑥	Return Air Flange	-	
⑦	Hook	-	

4. Dimensional Drawing

Duct S

AM090ANMPKH/EU, AM056ANHPKH/EU, AM071ANHPKH/EU, AM090ANHPKH/EU (Unit: mm)

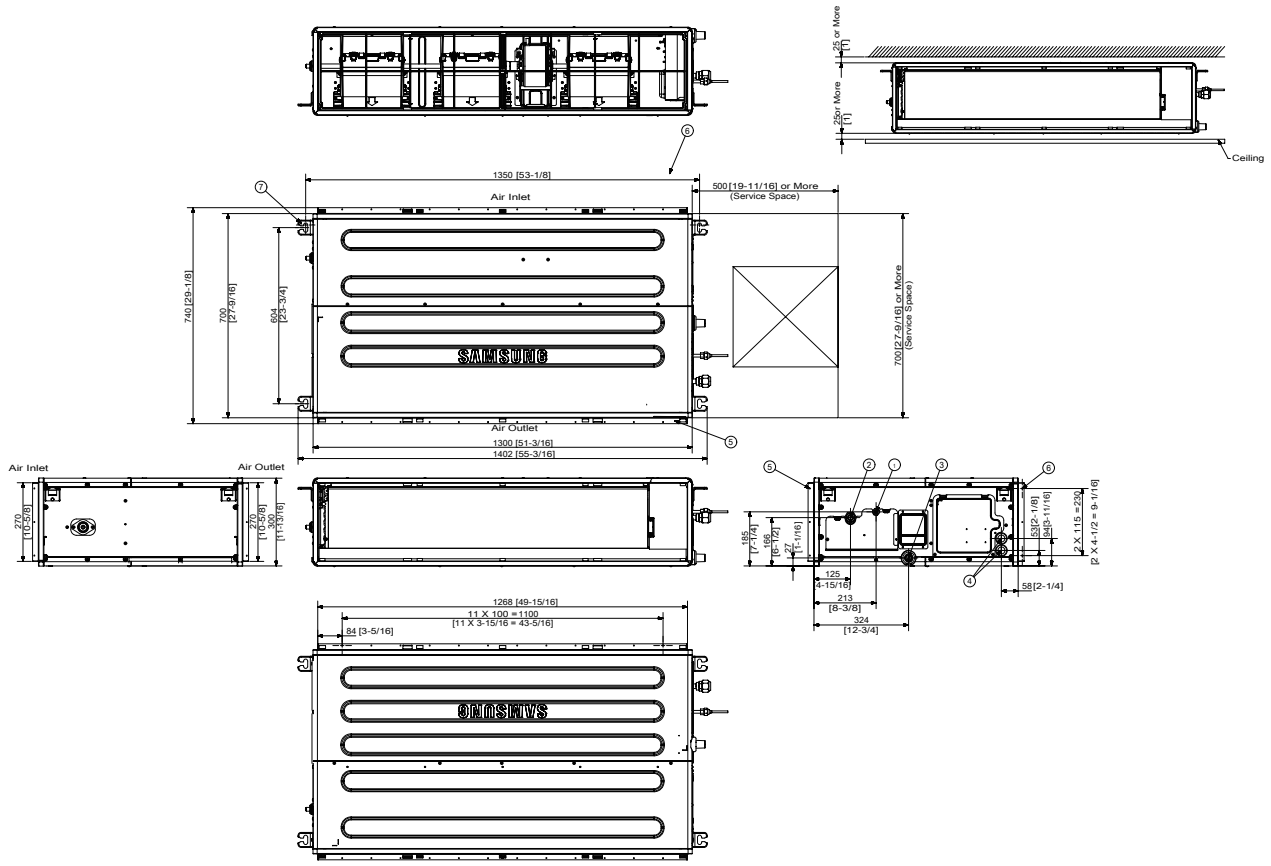


No.	Name	Description	
		AM056ANHPKH/EU	AM071/090AN*PKH/EU
①	Refrigerant Liquid Pipe	Ø6.35 [1/4"]	Ø9.52 [3/8"]
②	Refrigerant Gas Pipe	Φ12.70 [1/2"]	Φ15.88 [5/8"]
③	Condensate Drain	VP25 (OD 32, ID 25)	
④	Power & Comm. Wiring Conduits	-	
⑤	Supply Air Flange	-	
⑥	Return Air Flange	-	
⑦	Hook	-	

4. Dimensional Drawing

Duct S

AM112AN*PKH/EU, AM128AN*PKH/EU, AM140AN*PKH/EU (Unit: mm)

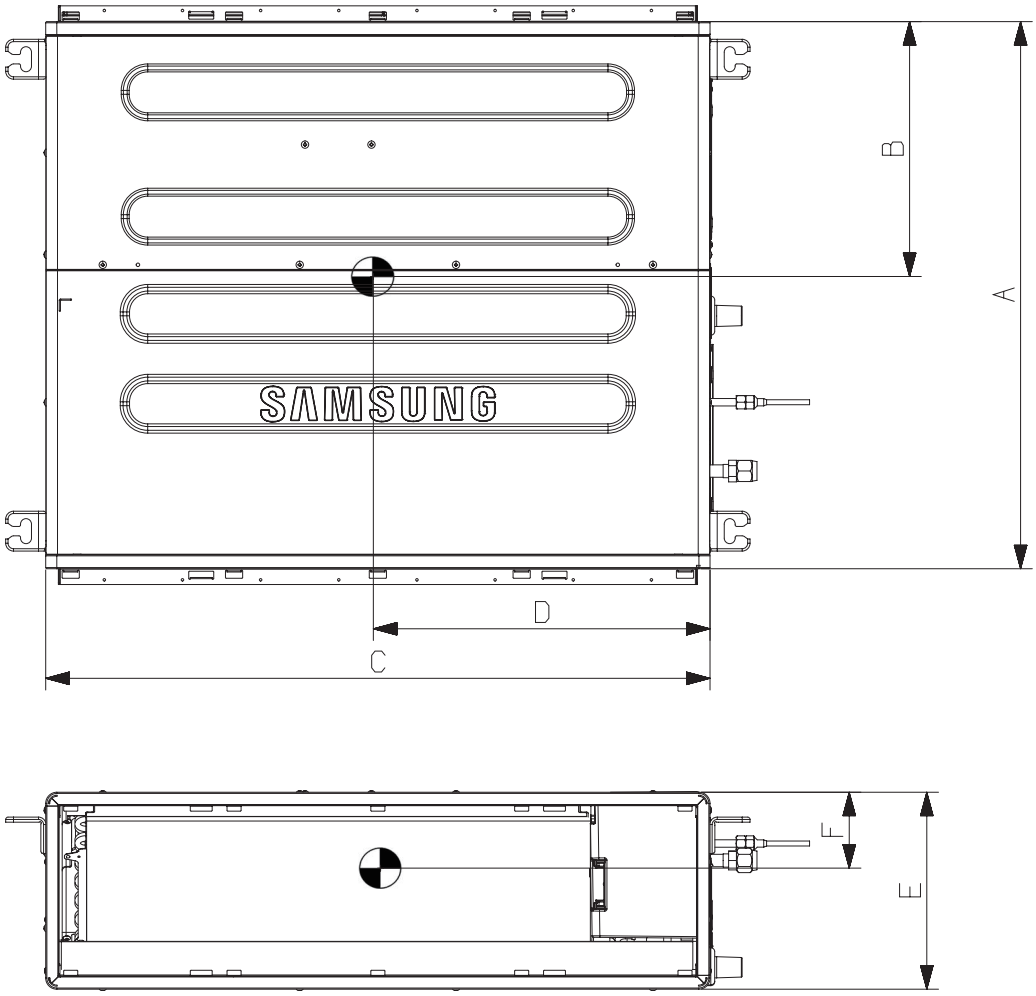


No.	Name	Description
①	Refrigerant Liquid Pipe	Ø9.52 [3/8"] Flare Connection
②	Refrigerant Gas Pipe	Ø15.88 [5/8"] Flare Connection
③	Condensate Drain	VP25 (OD 32, ID 25)
④	Power & Comm. Wiring Conduits	-
⑤	Supply Air Flange	-
⑥	Return Air Flange	-
⑦	Hook	-

5. Center of Gravity

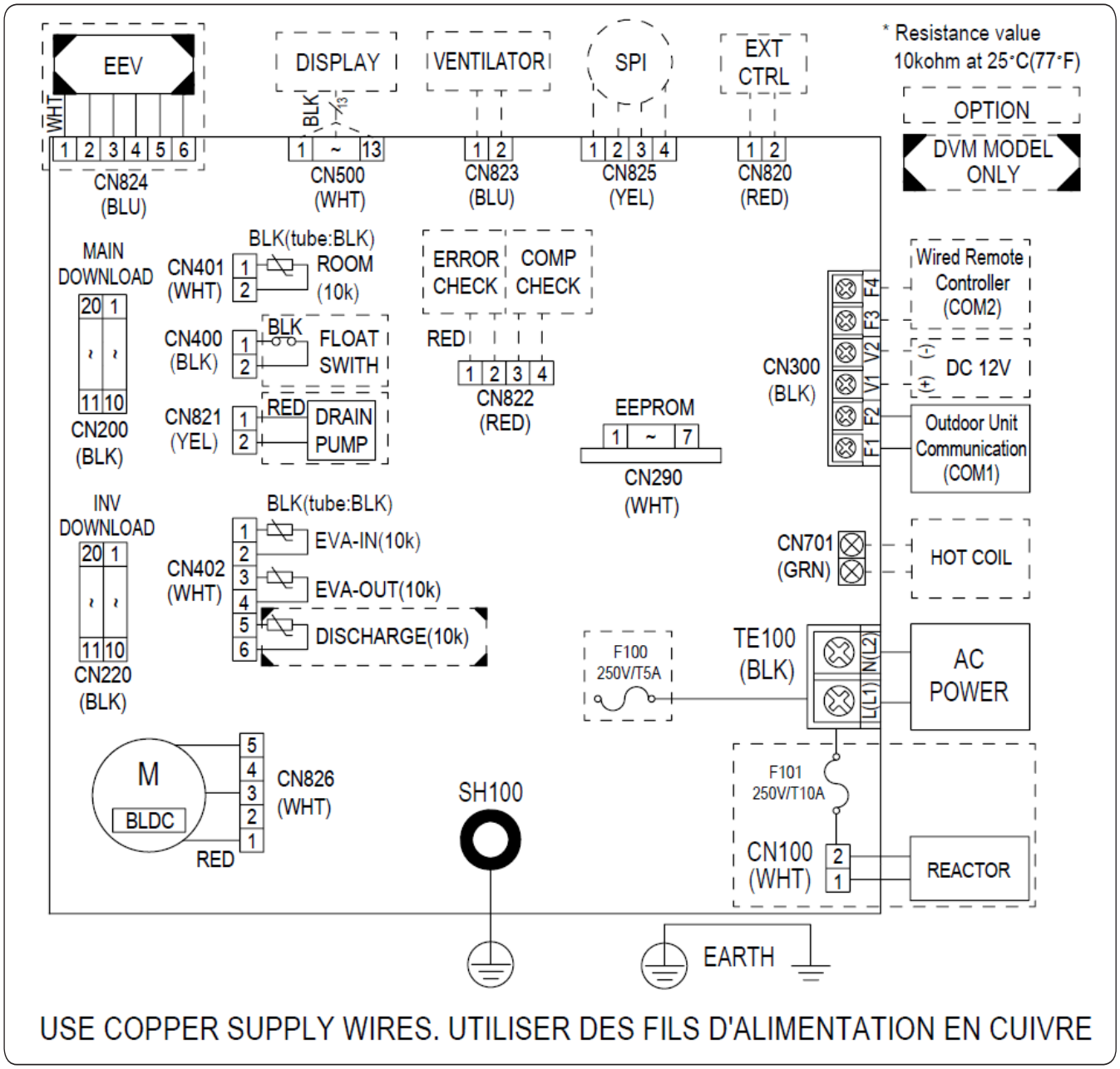
Duct S

(Unit: mm)



Model	A	B	C	D	E	F
AM022~071ANM	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	250 [9-13/16]	125 [4-15/16]
AM090ANM AM056~090ANH	700 [27-9/16]	265 [10-7/16]	1200 [47-1/4]	540 [21-17/64]	250 [9-13/16]	125 [4-15/16]
AM112 ~ 140	700 [27-9/16]	265 [10-7/16]	1300 [51-3/16]	625 [24-39/64]	300 [11-13/16]	150 [5-15/16]

6. Electrical Wiring Diagram



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

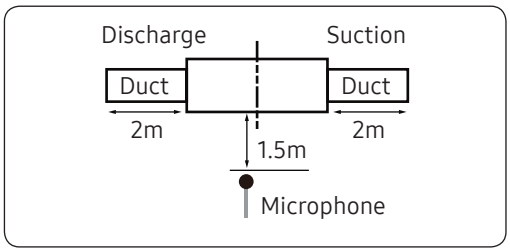
NOTE

- 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, N : The wire quantity

7. Sound Data

Duct S

Sound pressure level

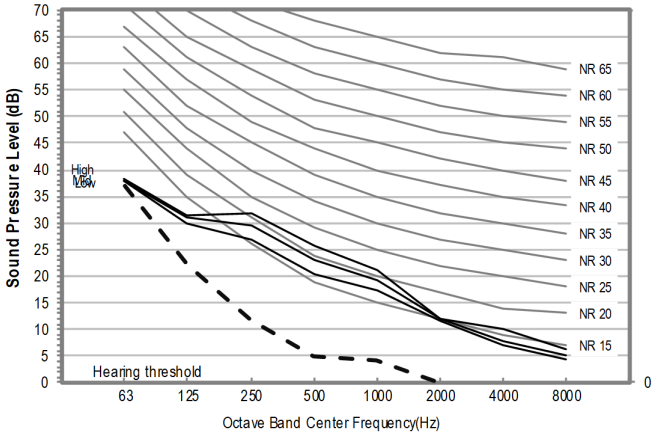


Unit: dB(A)

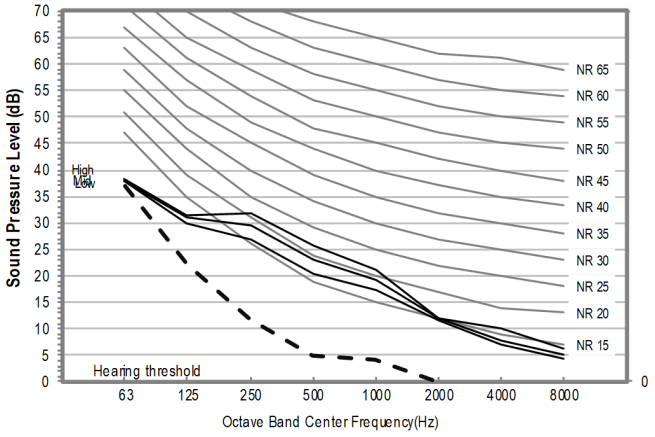
MODEL	High	Mid	Low
AM022ANMPKH/EU	28	26	24
AM028ANMPKH/EU	28	26	24
AM036ANMPKH/EU	30	27	24
AM045ANMPKH/EU	31	28	25

- NR Curve

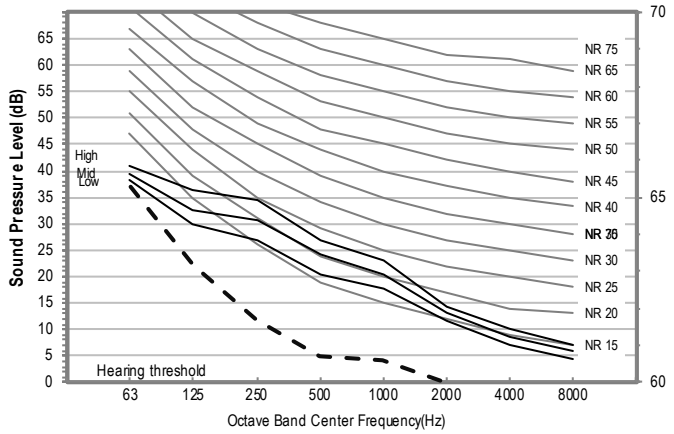
1) AM022ANMPKH/EU



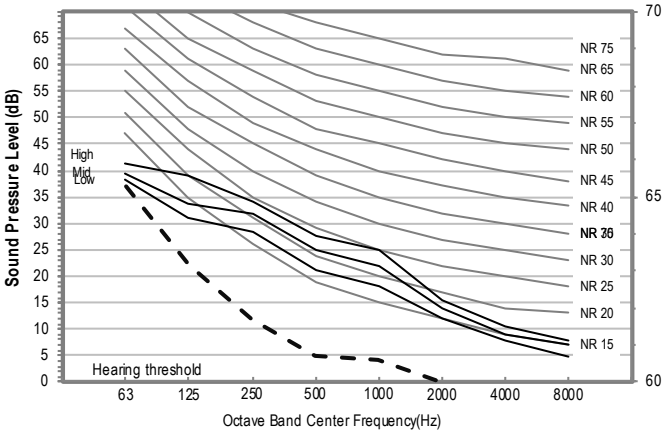
2) AM028ANMPKH/EU



3) AM036ANMPKH/EU



4) AM045ANMPKH/EU



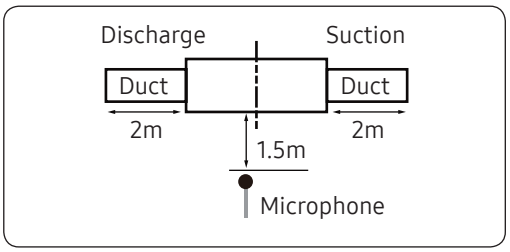
NOTE

- 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 S

Sound pressure level

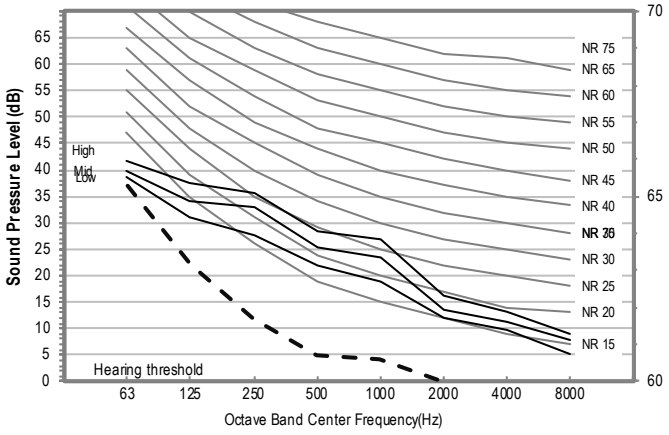


Unit: dB(A)

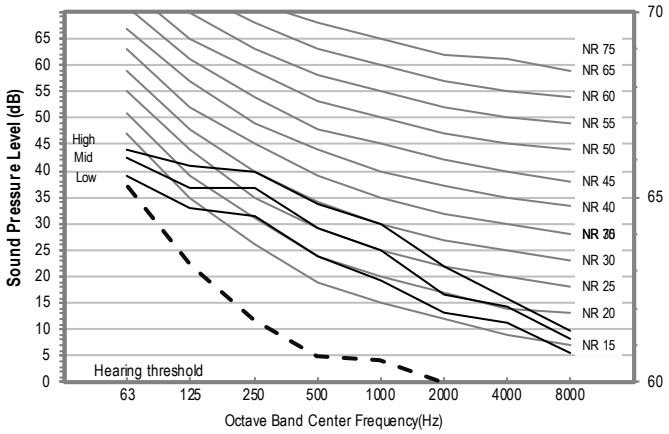
MODEL	High	Mid	Low
AM056ANMPKH/EU	32	29	25
AM071ANMPKH/EU	36	32	27
AM090ANMPKH/EU	37	33	29
AM112ANMPKH/EU	36	33	30

- NR Curve

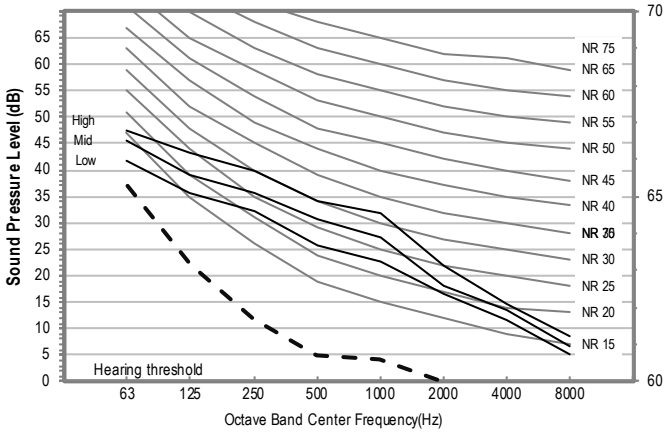
1) AM056ANMPKH/EU



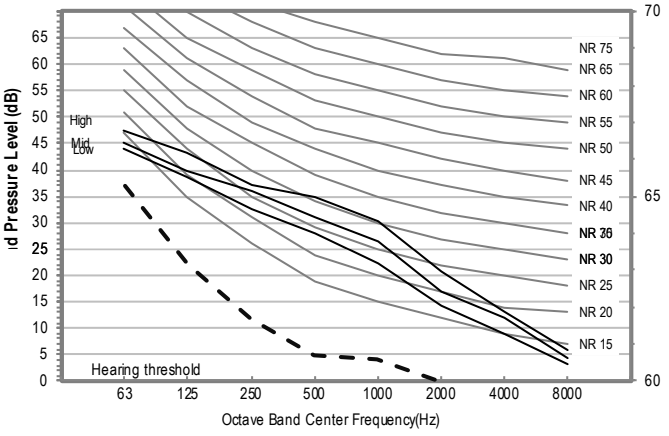
2) AM071ANMPKH/EU



3) AM090ANMPKH/EU



4) AM112ANMPKH/EU



NOTE

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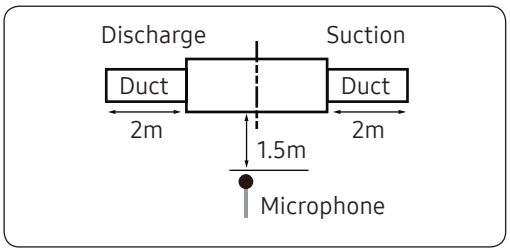
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

Duct S

Sound pressure level

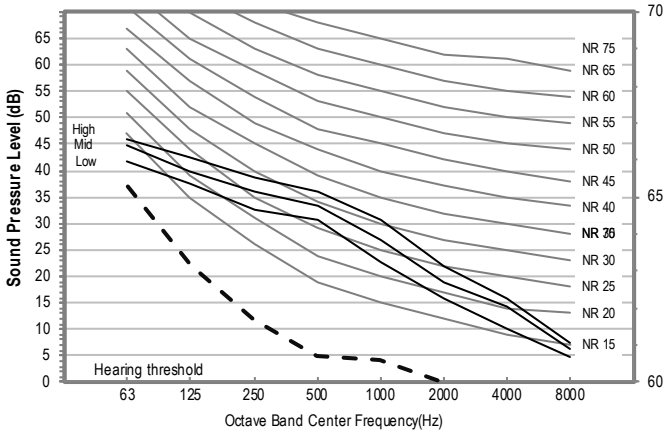


Unit: dB(A)

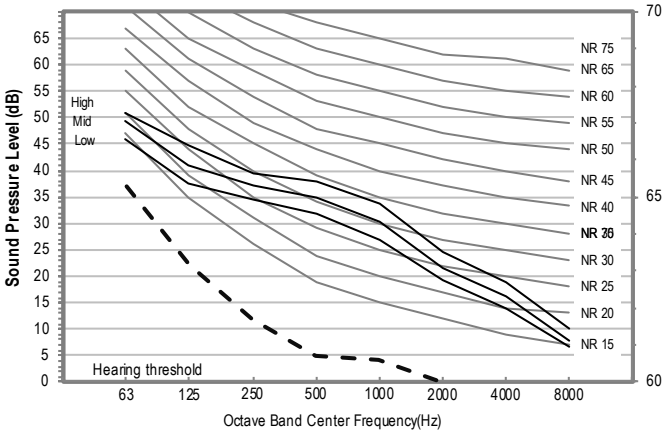
MODEL	High	Mid	Low
AM128ANMPKH/EU	37	34	31
AM140ANMPKH/EU	39	36	33
AM056ANHPKH/EU	31	28	25
AM071ANHPKH/EU	32	29	26

- NR Curve

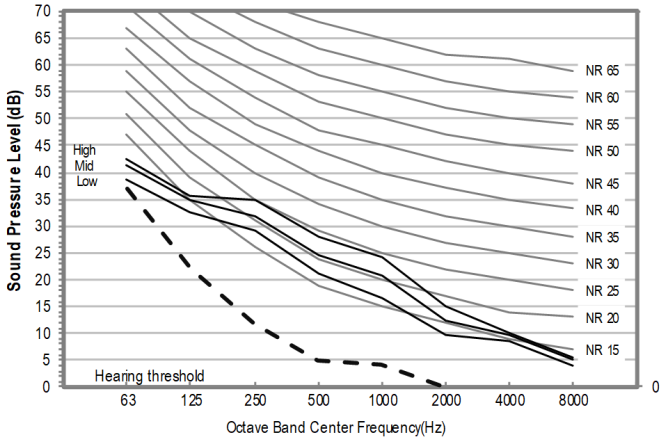
1) AM128ANMPKH/EU



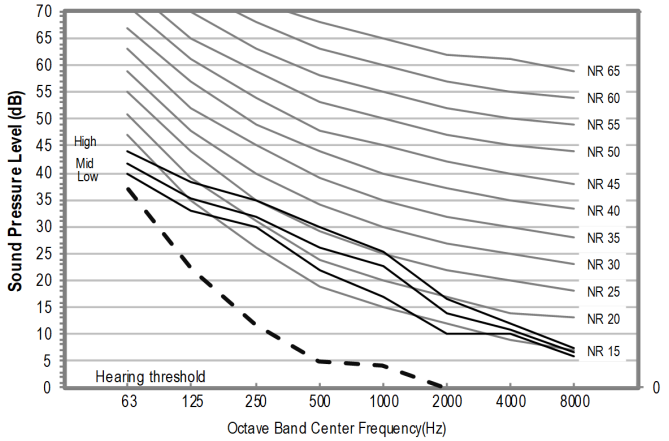
2) AM140ANMPKH/EU



3) AM056ANHPKH/EU



4) AM071ANHPKH/EU



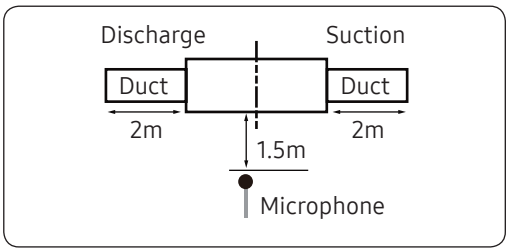
NOTE

- 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 S

Sound pressure level

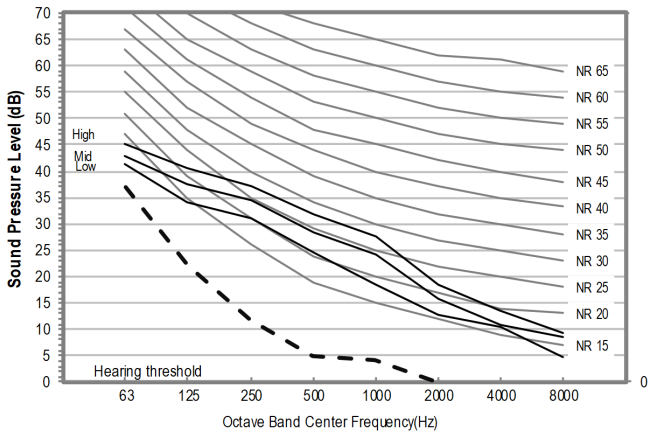


Unit: dB(A)

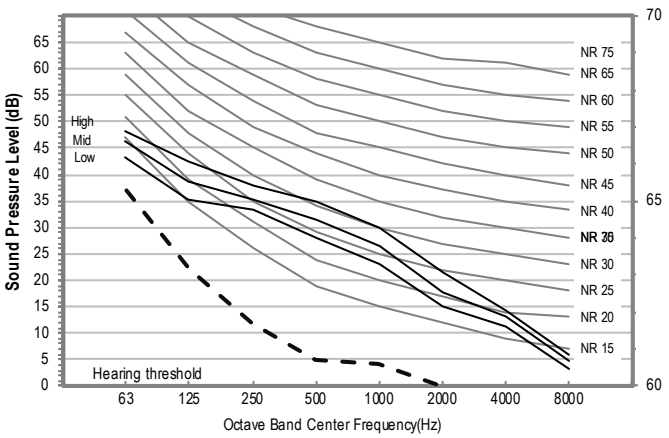
MODEL	High	Mid	Low
AM090ANHPKH/EU	34	31	28
AM112ANHPKH/EU	36	33	30
AM128ANHPKH/EU	39	36	33
AM140ANHPKH/EU	42	38	34

- NR Curve

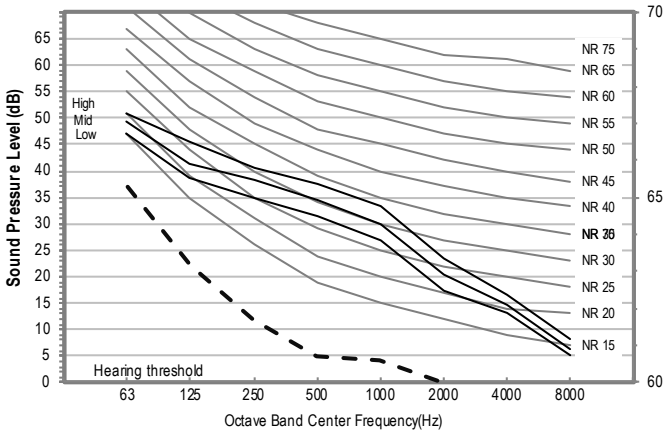
1) AM090ANHPKH/EU



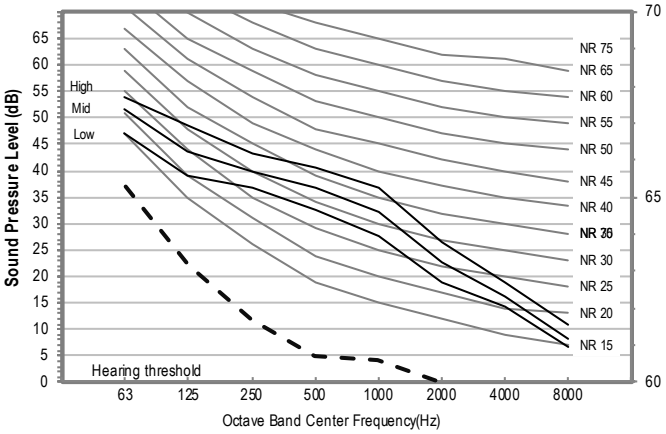
2) AM112ANHPKH/EU



3) AM128ANHPKH/EU



4) AM140ANHPKH/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 S

Sound Power level

NOTE

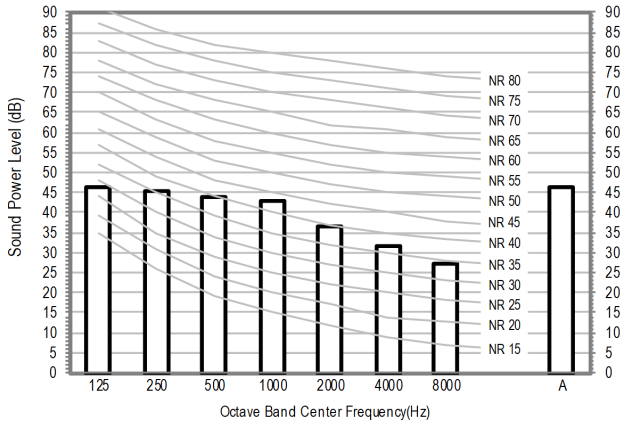
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

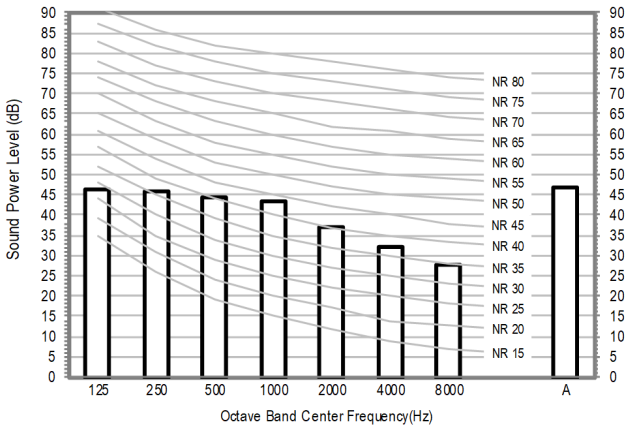
Model	Power
AM022ANMPKH/EU	50
AM028ANMPKH/EU	51
AM036ANMPKH/EU	53
AM045ANMPKH/EU	54

- NR Curve

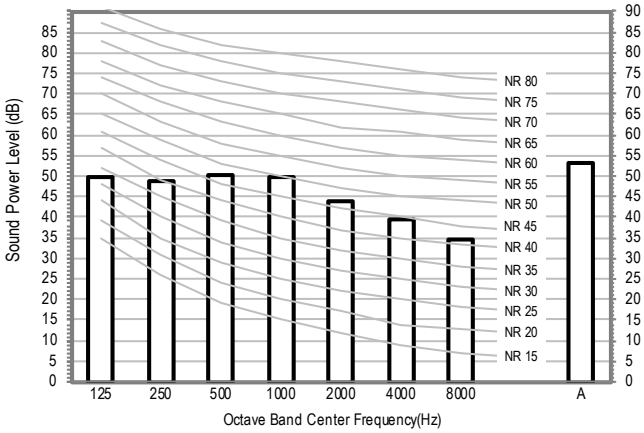
1) AM022ANMPKH/EU



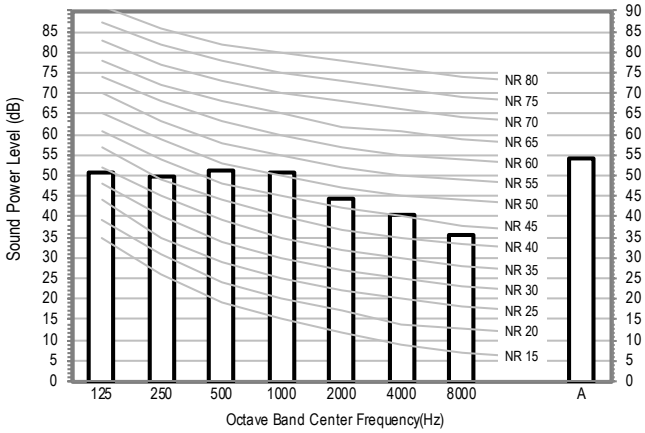
2) AM028ANMPKH/EU



3) AM036ANMPKH/EU



4) AM045ANMPKH/EU



7. Sound Data

Duct S

Sound Power level

NOTE

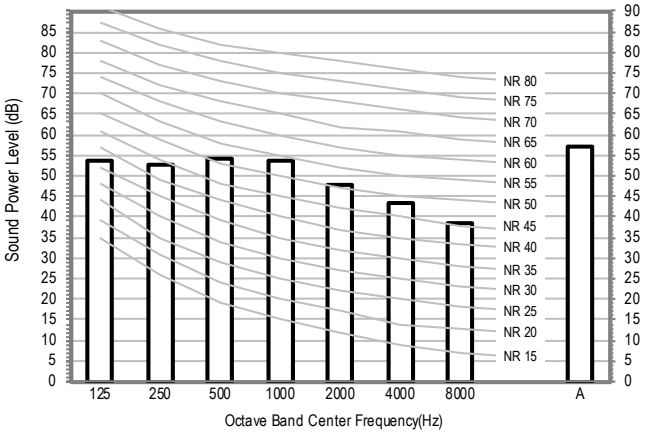
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

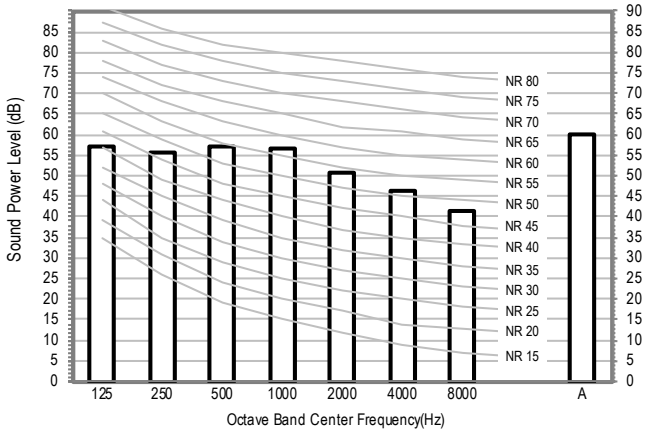
Model	Power
AM056ANMPKH/EU	57
AM071ANMPKH/EU	60
AM090ANMPKH/EU	61
AM112ANMPKH/EU	61

- NR Curve

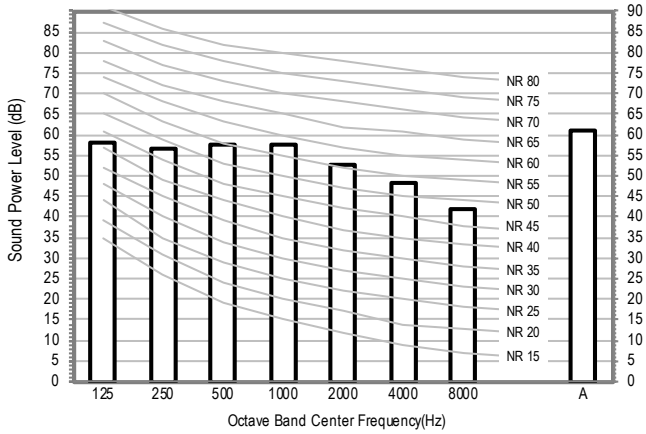
1) AM056ANMPKH/EU



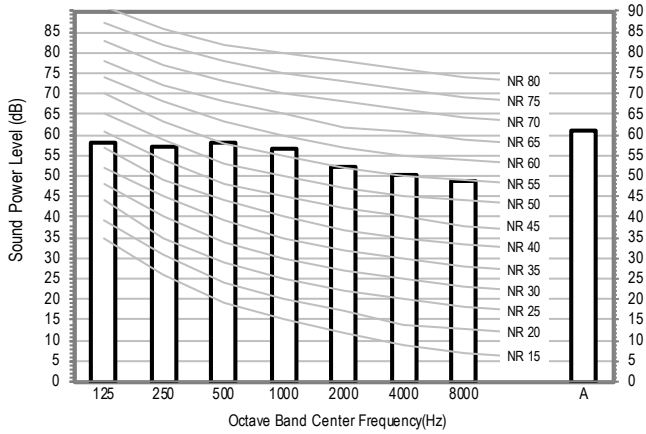
2 AM071ANMPKH/EU



3) AM090ANMPKH/EU



4) AM112ANMPKH/EU



7. Sound Data

Duct S

Sound Power level

NOTE

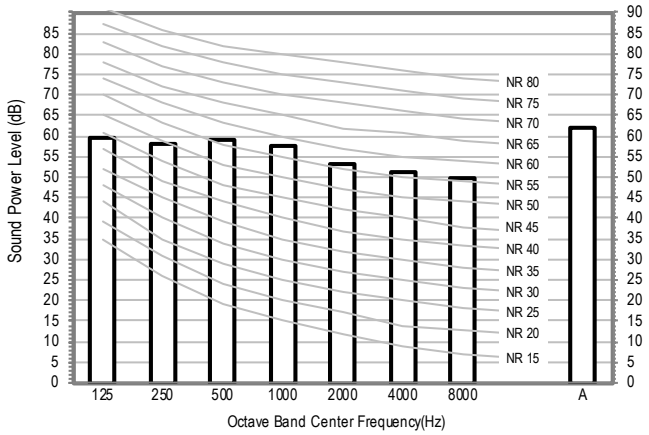
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

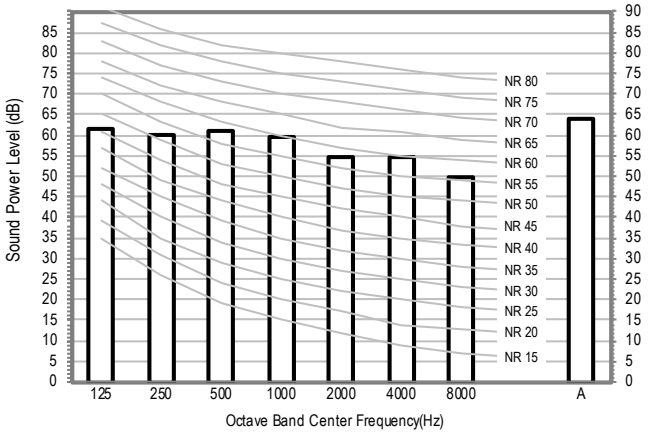
Model	Power
AM128ANMPKH/EU	62
AM140ANMPKH/EU	64
AM056ANHPKH/EU	58
AM071ANHPKH/EU	58

- NR Curve

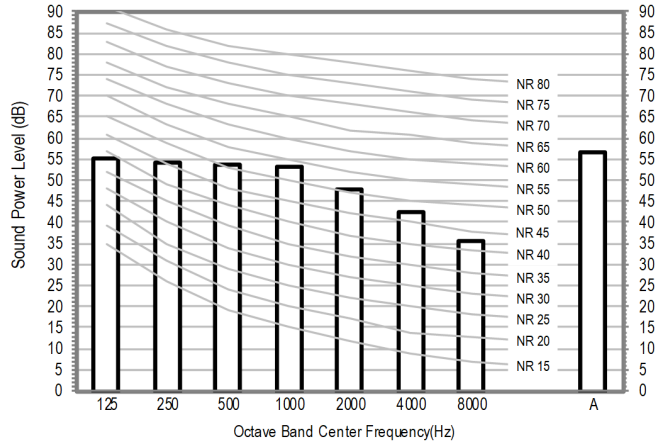
1) AM090ANMPKH/EU



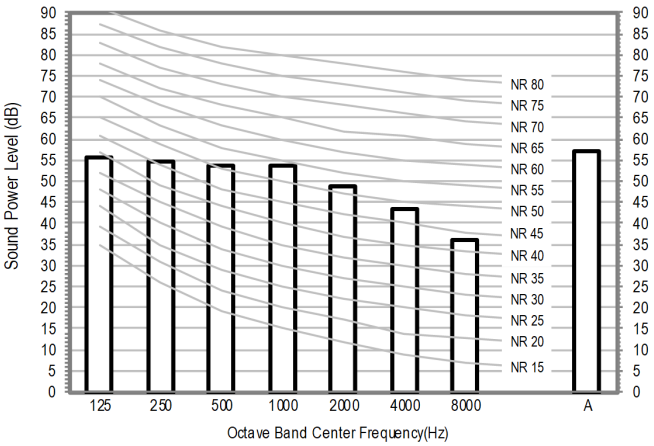
2) AM112ANMPKH/EU



3) AM056ANHPKH/EU



4) AM071ANHPKH/EU



7. Sound Data

Duct S

Sound Power level

NOTE

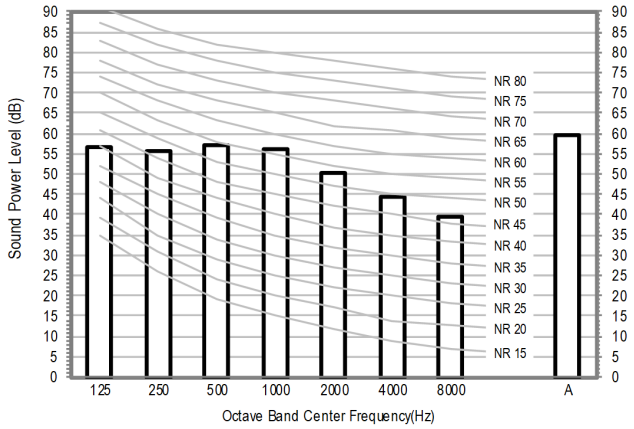
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

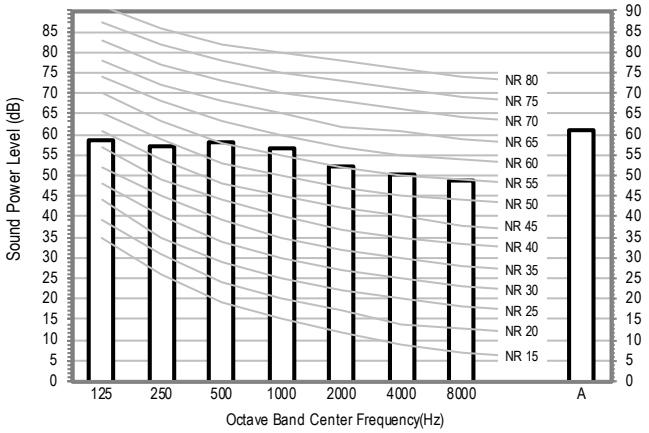
Model	Power
AM090ANHPKH/EU	60
AM112ANHPKH/EU	61
AM128ANHPKH/EU	64
AM140ANHPKH/EU	65

- NR Curve

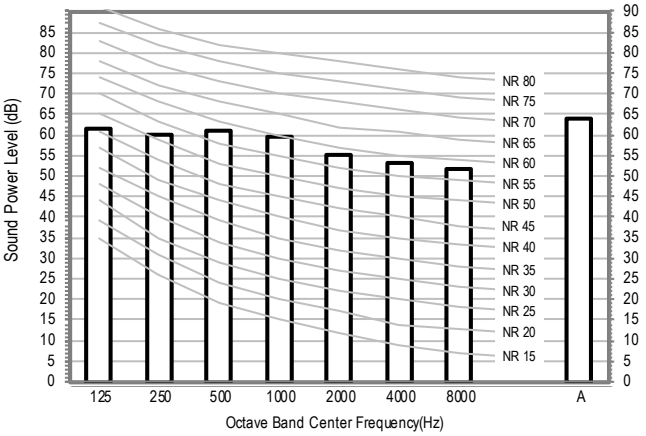
1) AM090ANHPKH/EU



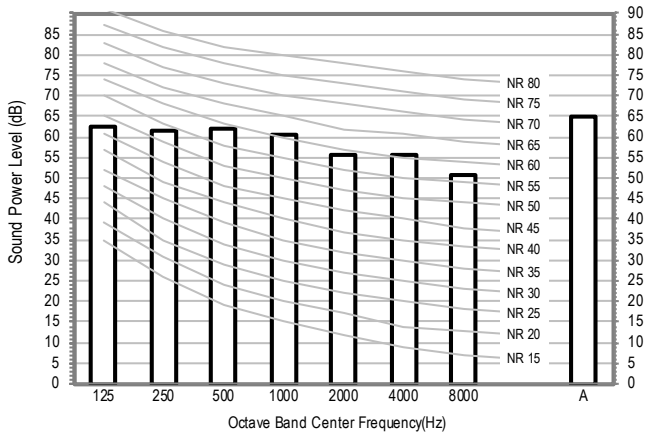
2) AM112ANHPKH/EU



3) AM128ANHPKH/EU



4) AM140ANHPKH/EU

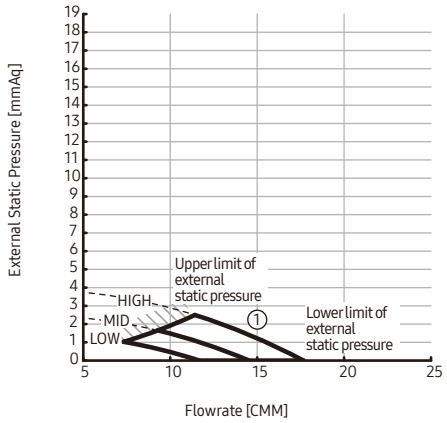


8. Fan Characteristics

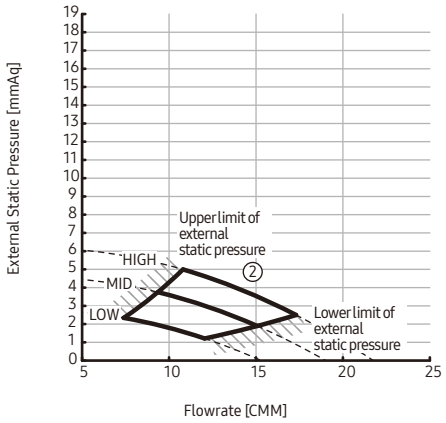
Duct S

1) AM022ANMPKH/EU

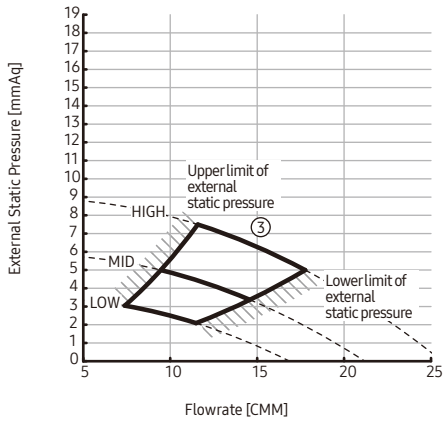
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5 (Std.)	010054-1E50A2-201616-331100



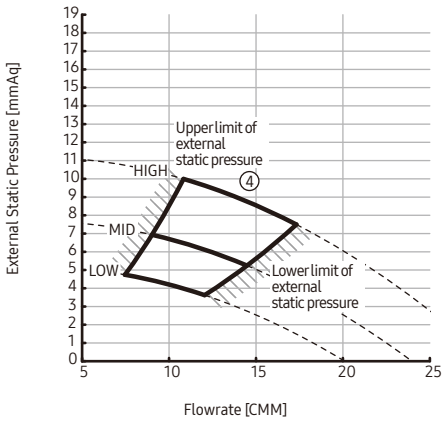
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	010054-1E5417-201616-331100



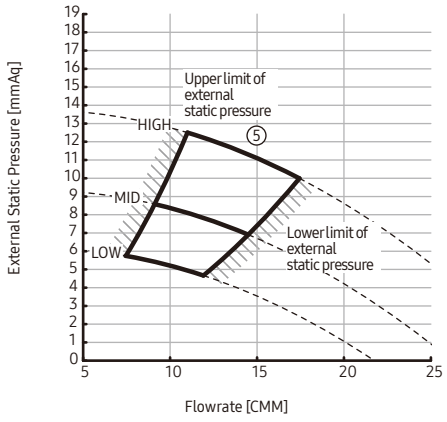
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	010054-1E5489-201616-331100



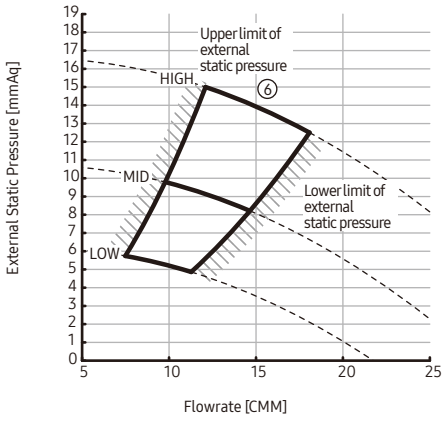
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	010054-1E54DE-201616-331100



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5	010054-1E5921-201616-331100



⑥	External Static Pressure(mmAq)	Option Code
	12.5<SP≤15	010054-1E5971-201616-331100

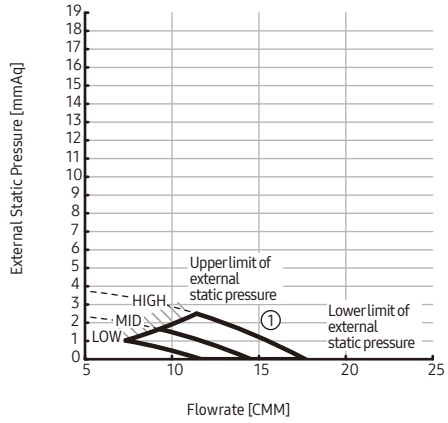


8. Fan Characteristics

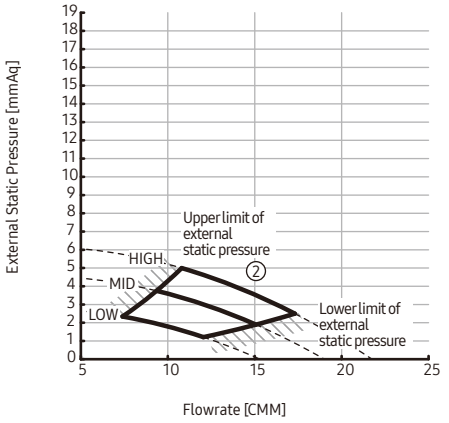
Duct S

2) AM028ANMPKH/EU

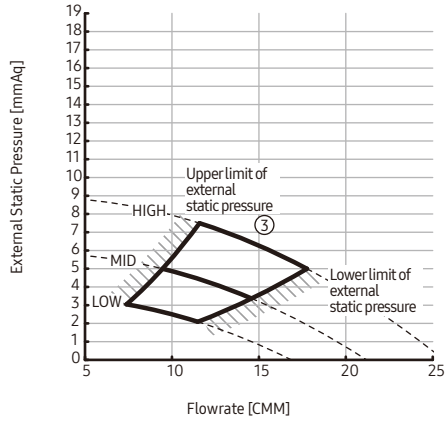
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5 (Std.)	010054-1E50A2-201C1C-331100



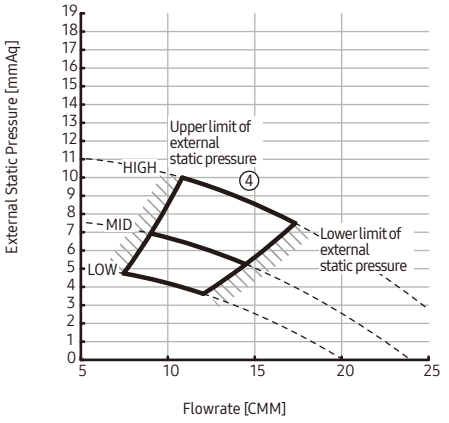
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	010054-1E5417-201C1C-331100



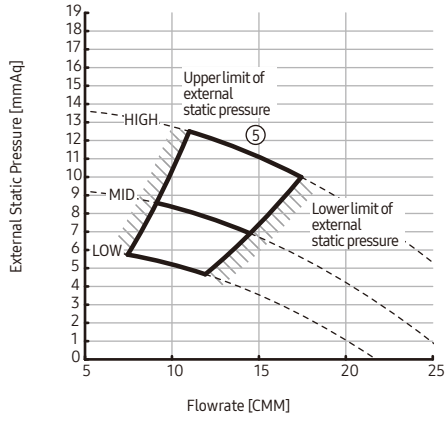
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	010054-1E5489-201C1C-331100



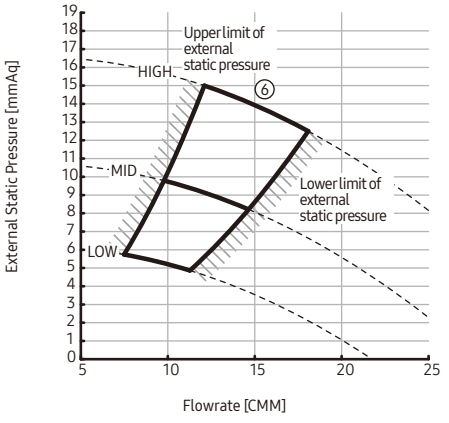
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	010054-1E54DE-201C1C-331100



⑤	External Static Pressure(mmAq)	Option Code
	10<SP≤12.5	010054-1E5921-201C1C-331100



⑥	External Static Pressure(mmAq)	Option Code
	12.5<SP≤15	010054-1E5971-201C1C-331100

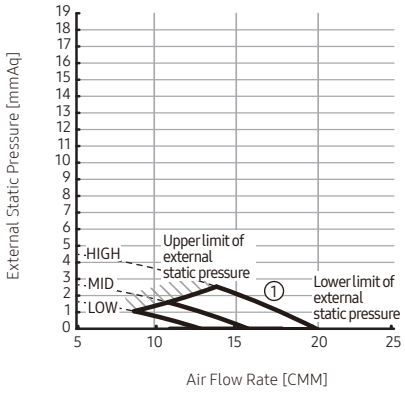


8. Fan Characteristics

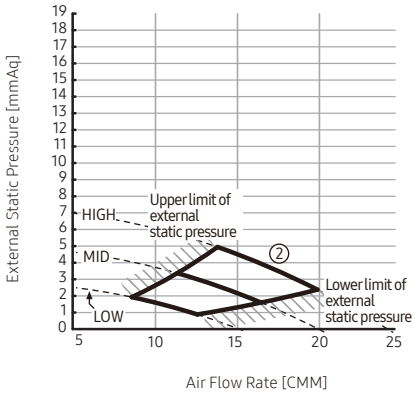
Duct S

3) AM036ANMPKH/EU

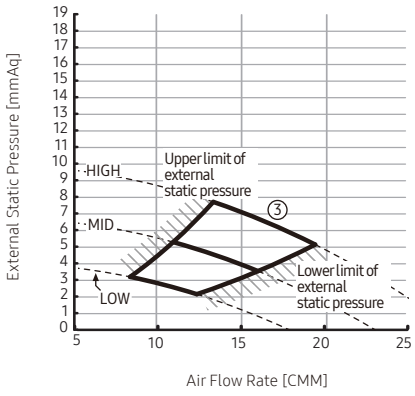
①	External Static Pressure(inAq)	Option Code
	0≤SP≤2.5	010054-1E50B2-202424-331100



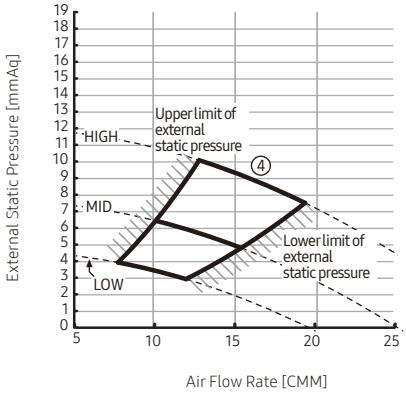
②	External Static Pressure(inAq)	Option Code
	2.5<SP≤5	010054-1E5436-202424-331100



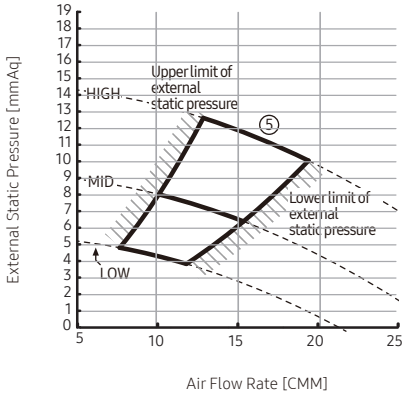
③	External Static Pressure(inAq)	Option Code
	5<SP≤7.5	010054-1E5499-202424-331100



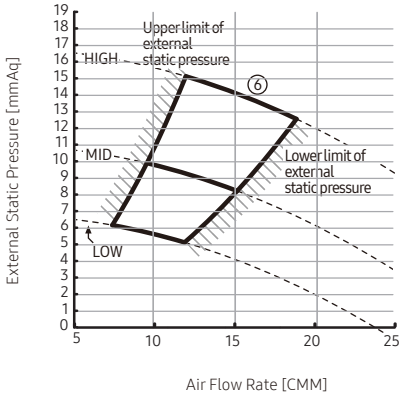
④	External Static Pressure(inAq)	Option Code
	7.5<SP≤10	010054-1E54EB-202424-331100



⑤	External Static Pressure(inAq)	Option Code
	10<SP≤12.5	010054-1E583E-202424-331100



⑥	External Static Pressure(inAq)	Option Code
	12.5<SP≤15	010054-1E5972-202424-331100

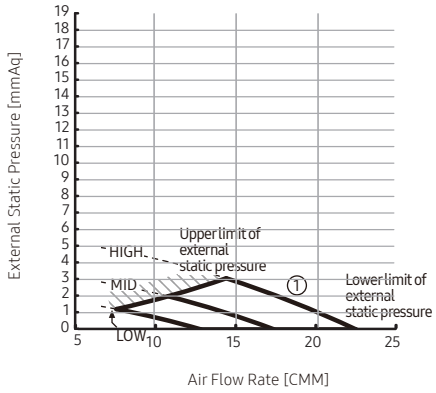


8. Fan Characteristics

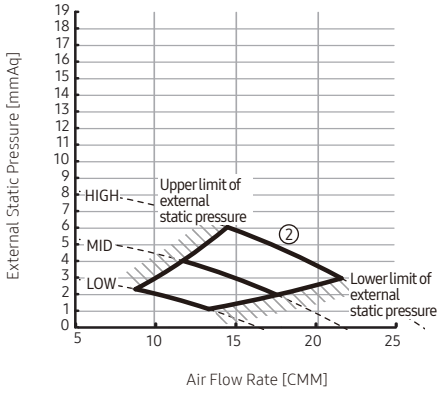
Duct S

4) AM045ANMPKH/EU

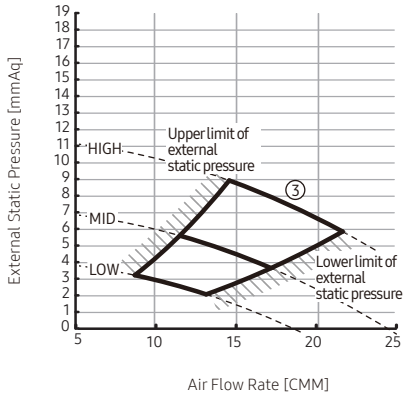
①	External Static Pressure(inAq)	Option Code
	0≤SP≤3	010054-1E50E3-202D2D-331100



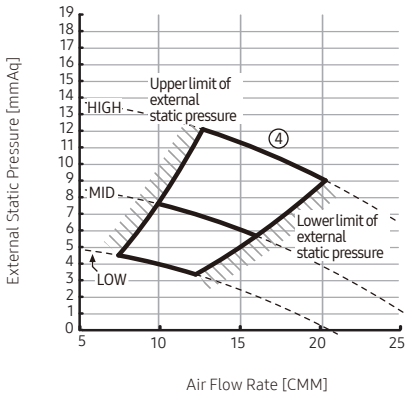
②	External Static Pressure(inAq)	Option Code
	3<SP≤6	010054-1E5467-202D2D-331100



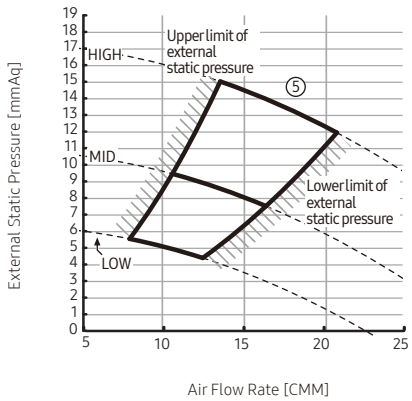
③	External Static Pressure(inAq)	Option Code
	6<SP≤9	010054-1E54DA-202D2D-331100



④	External Static Pressure(inAq)	Option Code
	9<SP≤12	010054-1E582D-202D2D-331100



⑤	External Static Pressure(inAq)	Option Code
	12<SP≤15	010054-1E5981-202D2D-331100

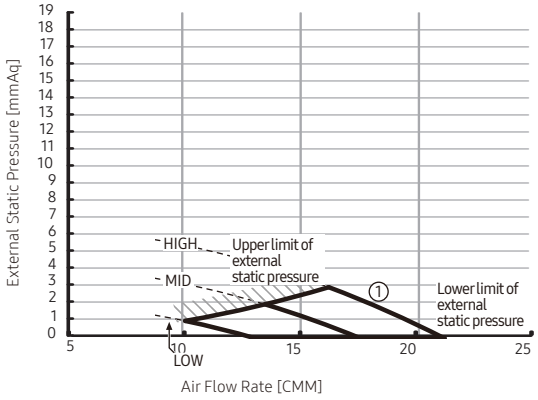


8. Fan Characteristics

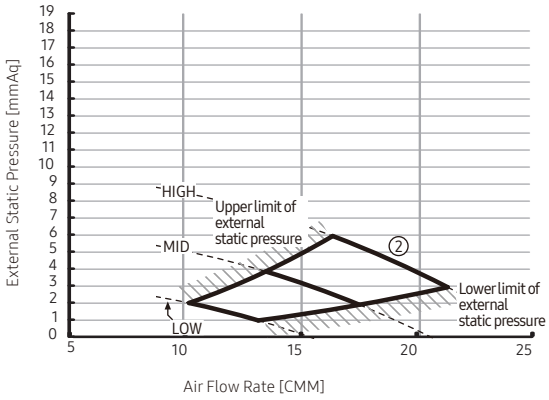
Duct S

5) AM056ANMPKH/EU

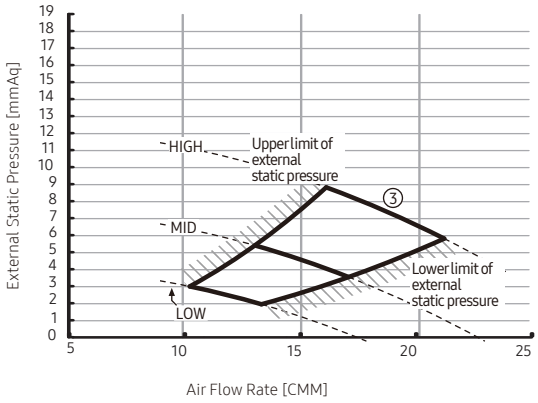
①	External Static Pressure(inAq)	Option Code
	0≤SP≤3	010054-1E5413-203838-331100



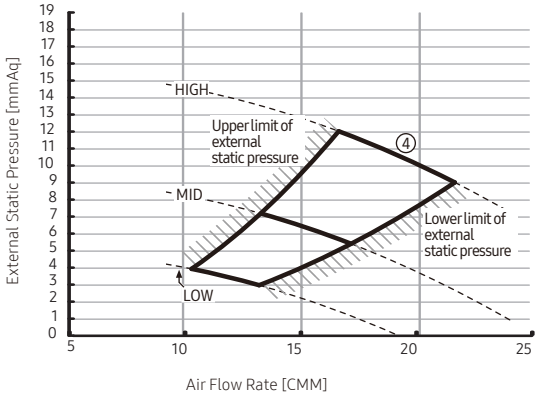
②	External Static Pressure(inAq)	Option Code
	3<SP≤6	010054-1E5497-203838-331100



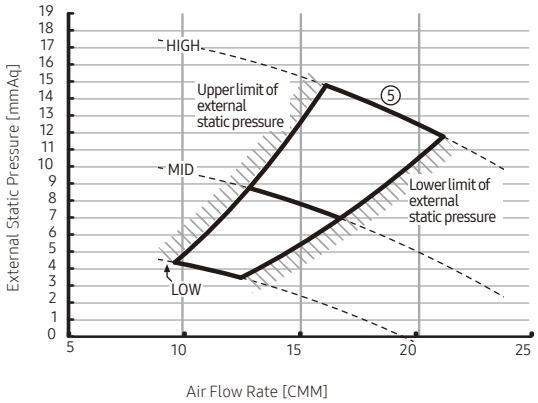
③	External Static Pressure(inAq)	Option Code
	6<SP≤9	010054-1E54FA-203838-331100



④	External Static Pressure(inAq)	Option Code
	9<SP≤12	010054-1E585C-203838-331100



⑤	External Static Pressure(inAq)	Option Code
	12<SP≤15	010054-1E58AE-203838-331100

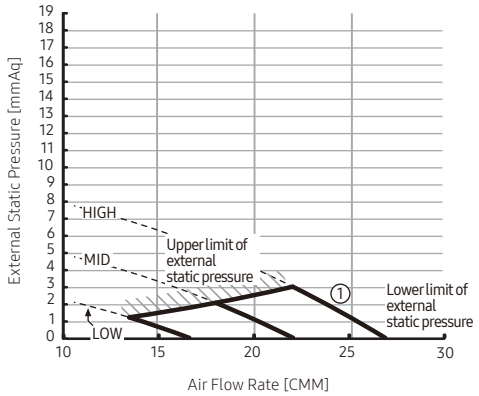


8. Fan Characteristics

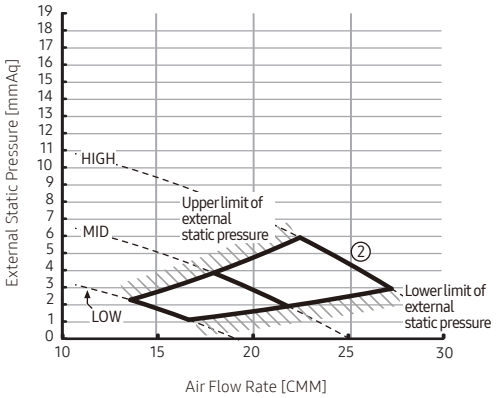
Duct S

6) AM071ANMPKH/EU

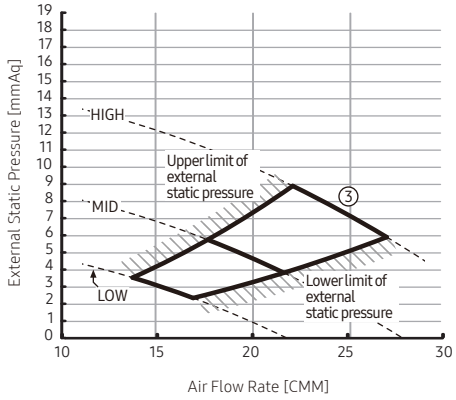
①	External Static Pressure(inAq)	Option Code
	0≤SP≤3	010054-1E5488-204747-331100



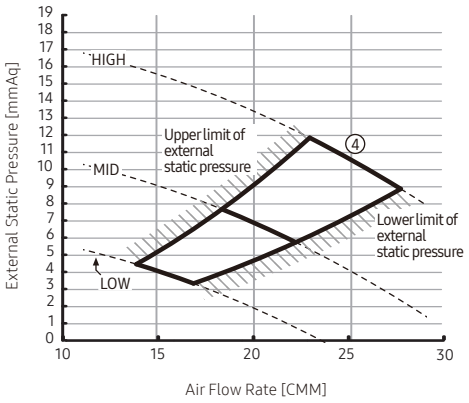
②	External Static Pressure(inAq)	Option Code
	3<SP≤6	010054-1E54FB-204747-331100



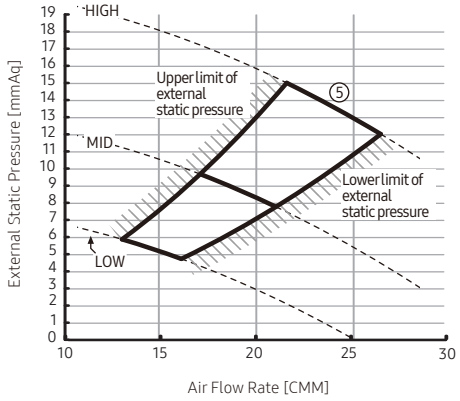
③	External Static Pressure(inAq)	Option Code
	6<SP≤9	010054-1E584F-204747-331100



④	External Static Pressure(inAq)	Option Code
	9<SP≤12	010054-1E59A2-204747-331100



⑤	External Static Pressure(inAq)	Option Code
	12<SP≤15	010054-1E59E5-204747-331100

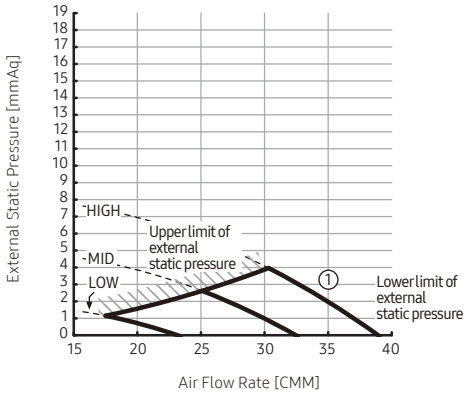


8. Fan Characteristics

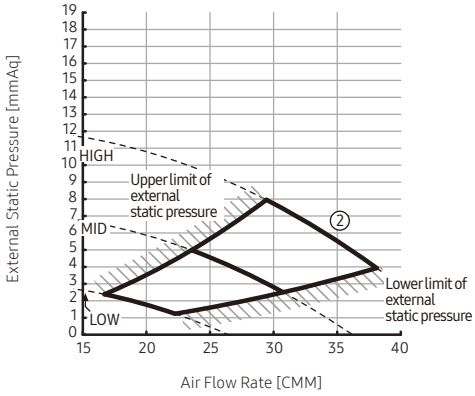
Duct S

7) AM090ANMPKH/EU

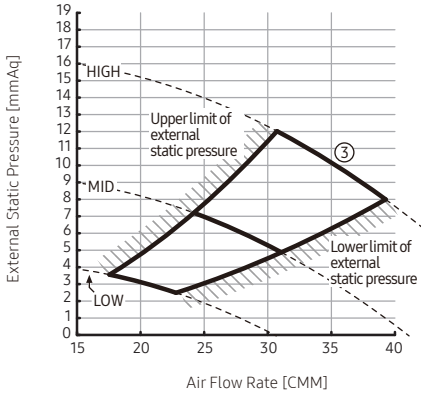
①	External Static Pressure(inAq)	Option Code
	0≤SP≤4	010054-1E5477-205A5A-331110



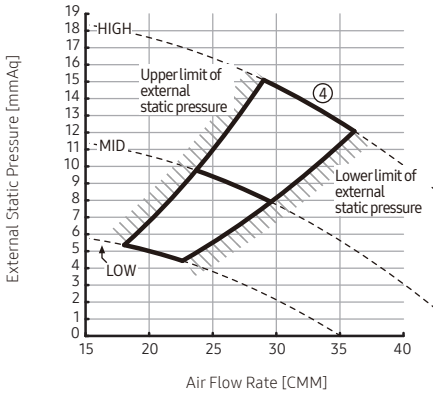
②	External Static Pressure(inAq)	Option Code
	4<SP≤8	010054-1E580A-205A5A-331110



③	External Static Pressure(inAq)	Option Code
	8<SP≤12	010054-1E588D-205A5A-331110



④	External Static Pressure(inAq)	Option Code
	12<SP≤15	010054-1E59C2-205A5A-331110

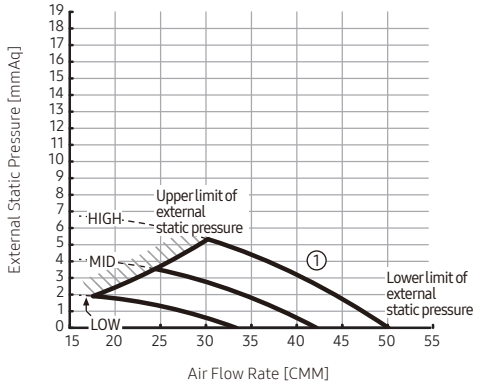


8. Fan Characteristics

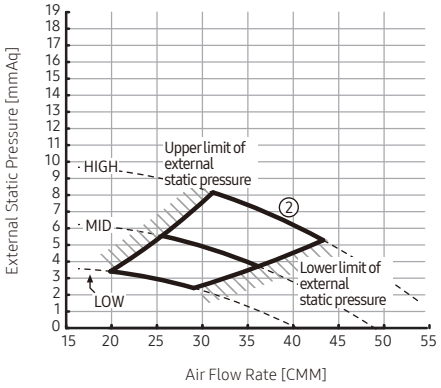
Duct S

8) AM112ANMPKH/EU

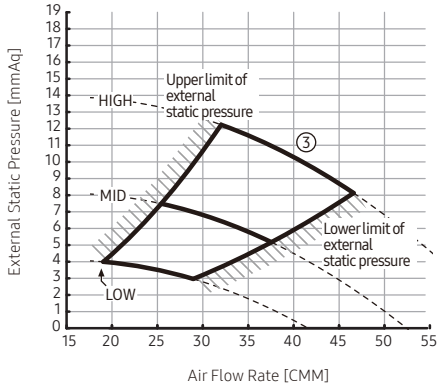
①	External Static Pressure(inAq)	Option Code
	0≤SP≤5.2	010054-1E5405-207070-331120



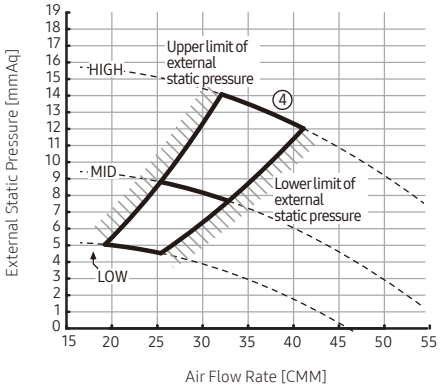
②	External Static Pressure(inAq)	Option Code
	5.2<SP≤8	010054-1E5469-207070-331120



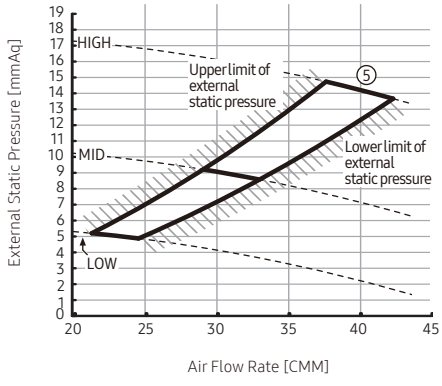
③	External Static Pressure(inAq)	Option Code
	8<SP≤12	010054-1E54DA-207070-331120



④	External Static Pressure(inAq)	Option Code
	12<SP≤14	010054-1E580D-207070-331120



⑤	External Static Pressure(inAq)	Option Code
	14<SP≤15	010054-1E582D-207070-331120

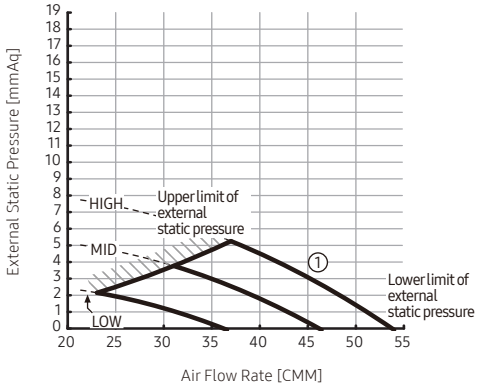


8. Fan Characteristics

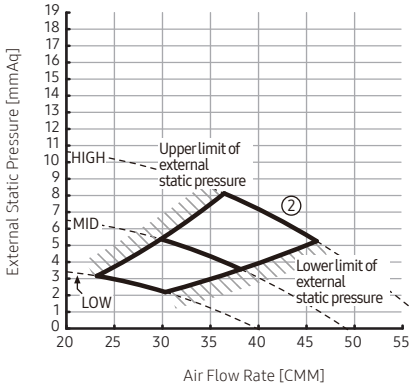
Duct S

9) AM128ANMPKH/EU

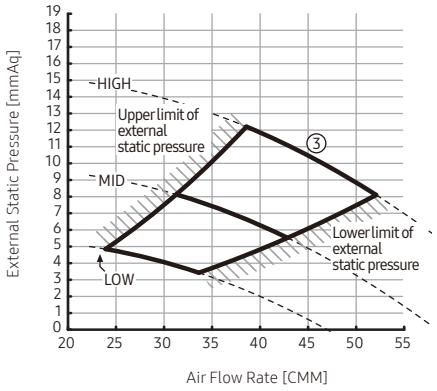
①	External Static Pressure(inAq)	Option Code
	0≤SP≤5.2	010054-1E5437-208080-331120



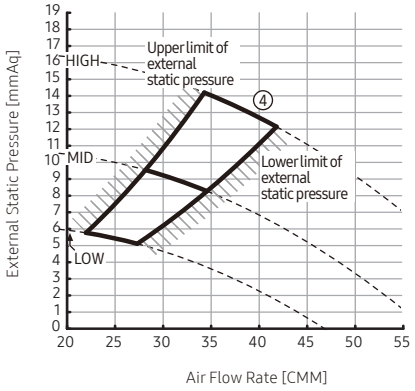
②	External Static Pressure(inAq)	Option Code
	5.2<SP≤8	010054-1E5489-208080-331120



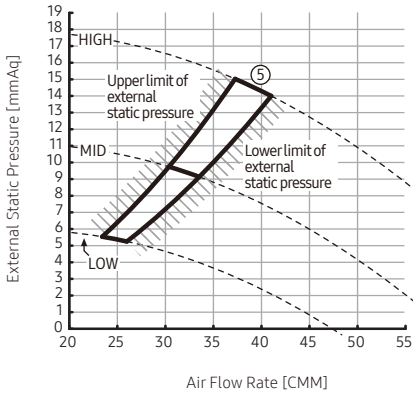
③	External Static Pressure(inAq)	Option Code
	8<SP≤12	010054-1E54FD-208080-331120



④	External Static Pressure(inAq)	Option Code
	12<SP≤14	010054-1E581F-208080-331120



⑤	External Static Pressure(inAq)	Option Code
	14<SP≤15	010054-1E583F-208080-331120

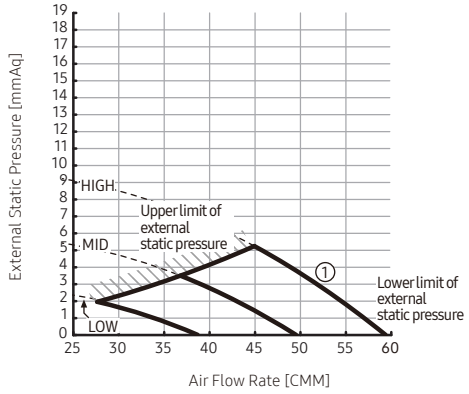


8. Fan Characteristics

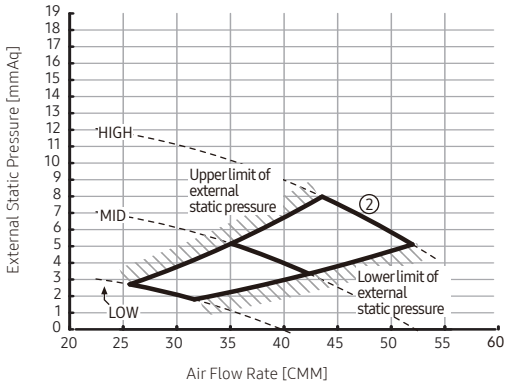
Duct S

10) AM140ANMPKH/EU

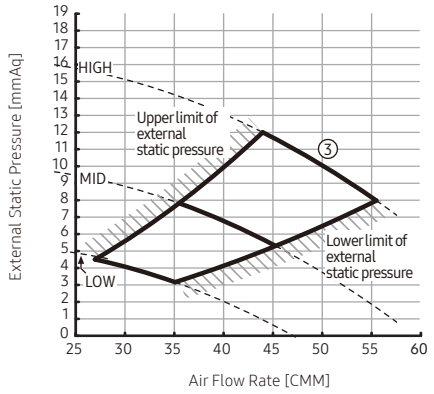
①	External Static Pressure(inAq)	Option Code
	0≤SP≤5.2	010054-1E5467-208C8C-331120



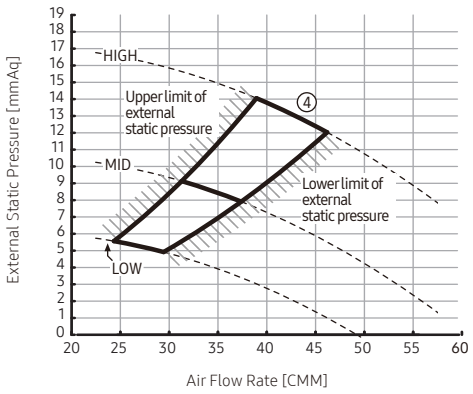
②	External Static Pressure(inAq)	Option Code
	5.2<SP≤8	010054-1E54B9-208C8C-331120



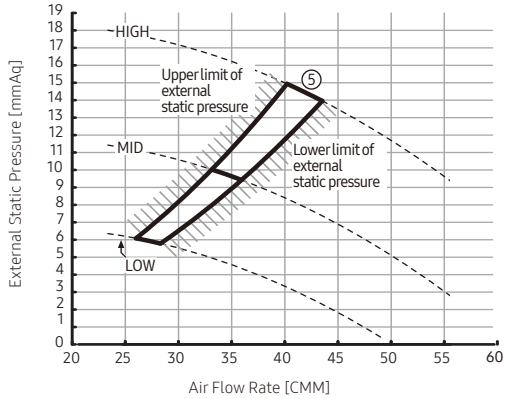
③	External Static Pressure(inAq)	Option Code
	8<SP≤12	010054-1E581D-208C8C-331120



④	External Static Pressure(inAq)	Option Code
	12<SP≤14	010054-1E582F-208C8C-331120



⑤	External Static Pressure(inAq)	Option Code
	14<SP≤15	010054-1E5940-208C8C-331120

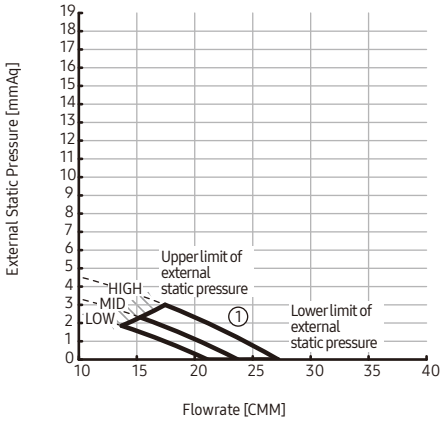


8. Fan Characteristics

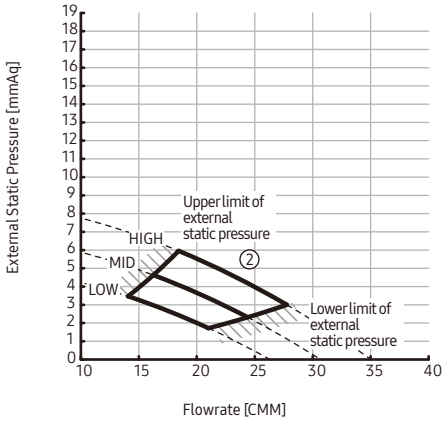
Duct S

11) AM056ANHPKH/EU

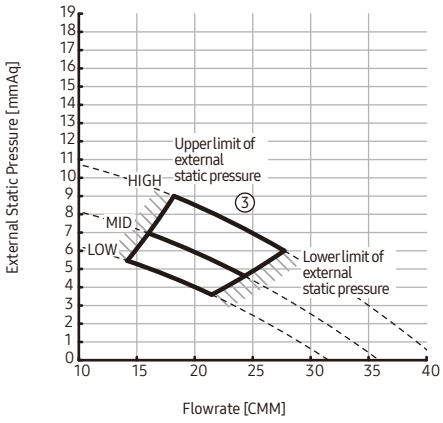
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3 (Std.)	010054-1E50C7-203838-331100



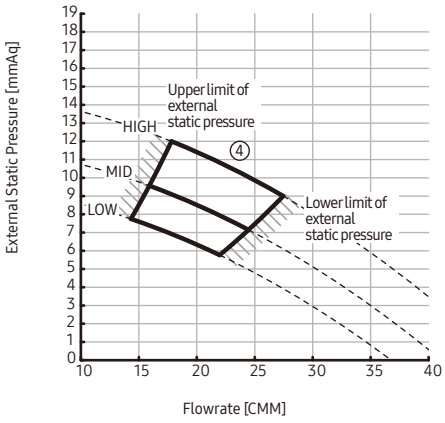
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E545C-203838-331100



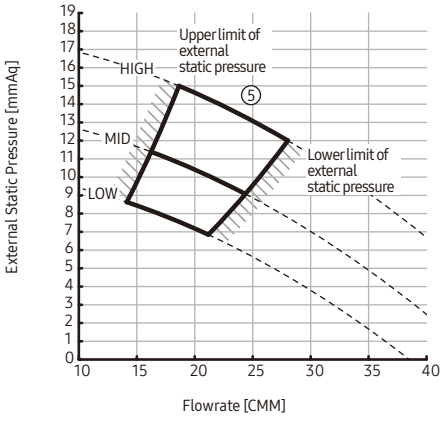
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E55C1-203838-331100



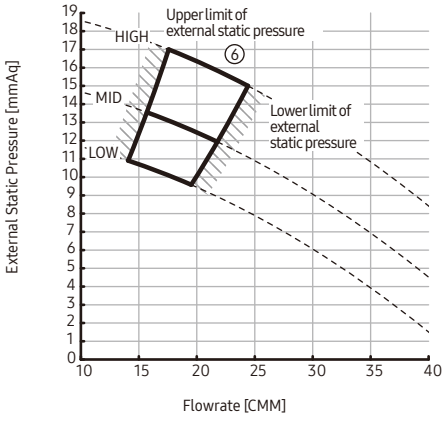
④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E5927-203838-331100



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E5989-203838-331100



⑥	External Static Pressure(mmAq)	Option Code
	15<SP≤17	010054-1E59BE-203838-331100

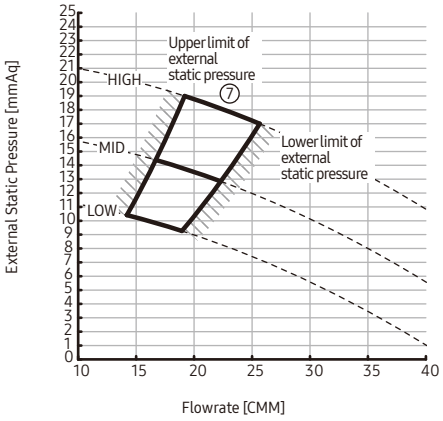


8. Fan Characteristics

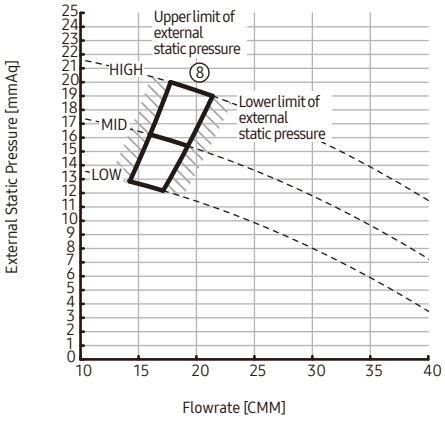
Duct S

11) AM056ANHPKH/EU

⑦	External Static Pressure(mmAq)	Option Code
	17<SP≤19	010054-1E59FD-203838-331100



⑧	External Static Pressure(mmAq)	Option Code
	19<SP≤20	010054-1E5E02-203838-331100

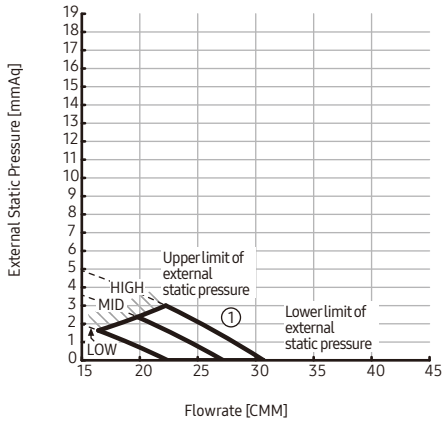


8. Fan Characteristics

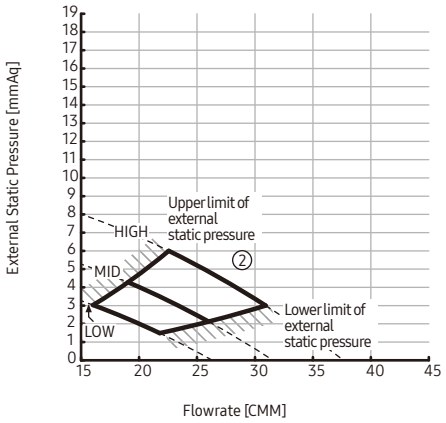
Duct S

12) AM071ANHPKH/EU

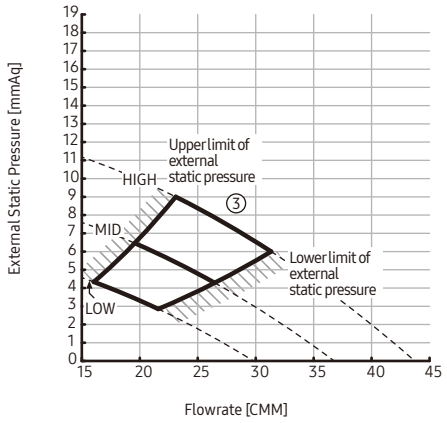
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3 (Std.)	010054-1E5408-204747-331100



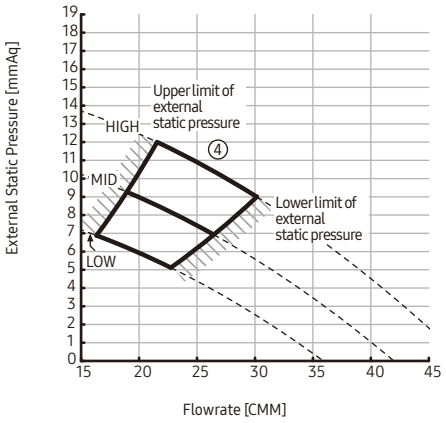
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E548B-204747-331100



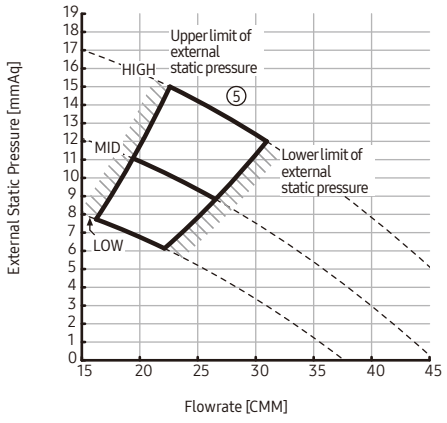
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E54FF-204747-331100



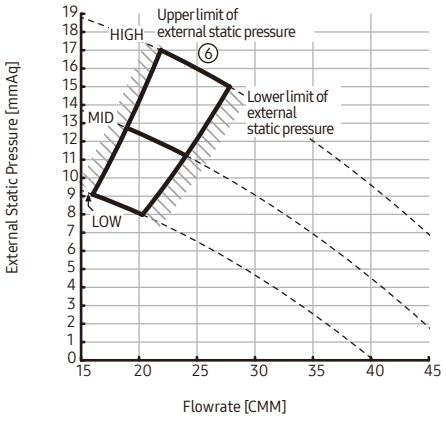
④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E5946-204747-331100



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E59A8-204747-331100



⑥	External Static Pressure(mmAq)	Option Code
	15<SP≤17	010054-1E59DB-204747-331100

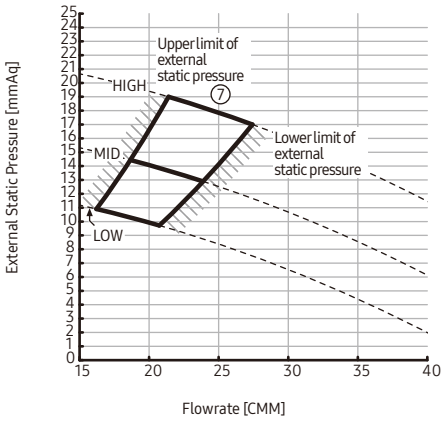


8. Fan Characteristics

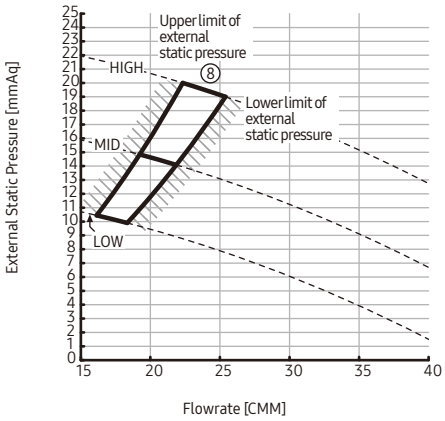
Duct S

12) AM071ANHPKH/EU

⑦	External Static Pressure(mmAq)	Option Code
	17<SP≤19	010054-1E5D0F-204747-331100



⑧	External Static Pressure(mmAq)	Option Code
	19<SP≤20	010054-1E5D2E-204747-331100

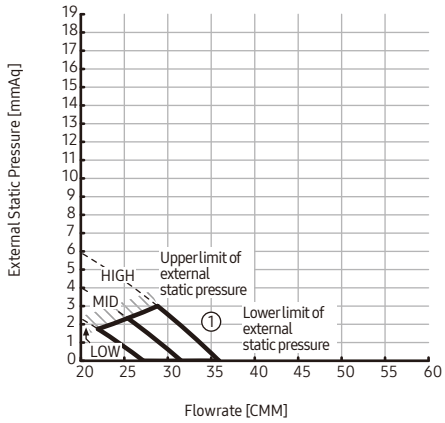


8. Fan Characteristics

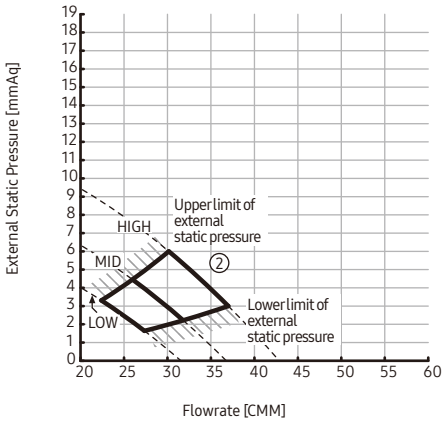
Duct S

13) AM090ANHPKH/EU

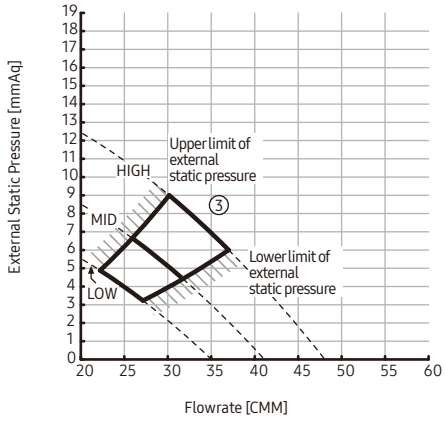
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3 (Std.)	010054-1E546C-205A5A-331100



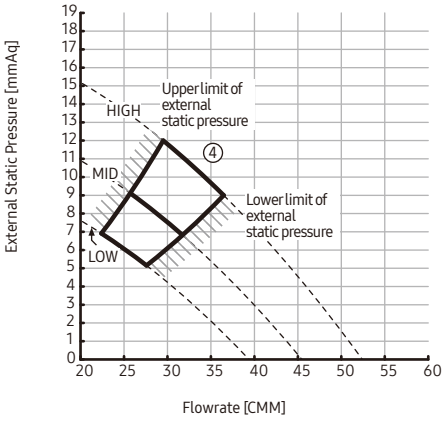
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E55E1-205A5A-331100



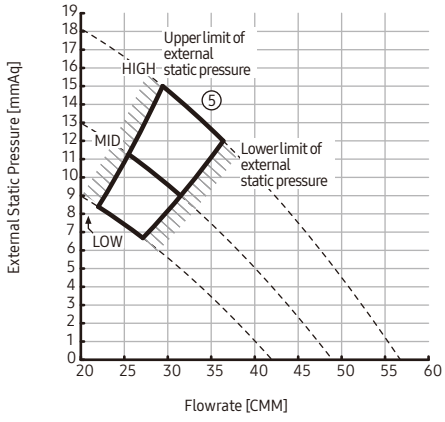
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E5945-205A5A-331100



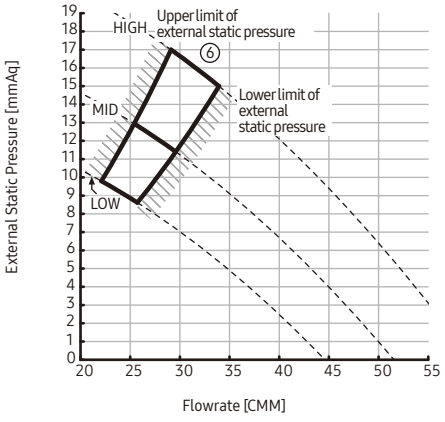
④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E599A-205A5A-331100



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E59ED-205A5A-331100



⑥	External Static Pressure(mmAq)	Option Code
	15<SP≤17	010054-1E5E10-205A5A-331100

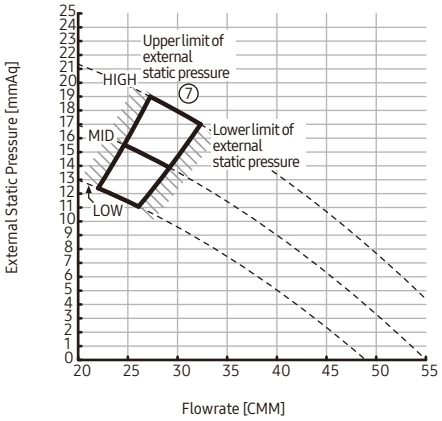


8. Fan Characteristics

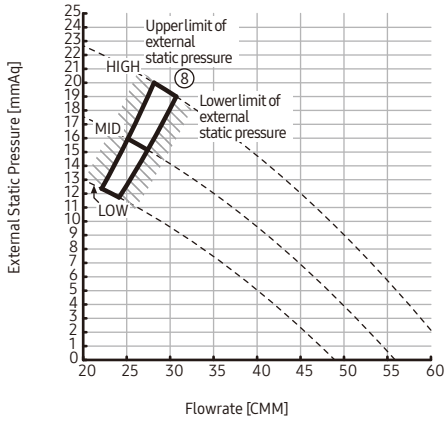
Duct S

13) AM090ANHPKH/EU

⑦	External Static Pressure(mmAq)	Option Code
	17<SP≤19	010054-1E5E35-205A5A-331100



⑧	External Static Pressure(mmAq)	Option Code
	19<SP≤20	010054-1E5E55-205A5A-331100

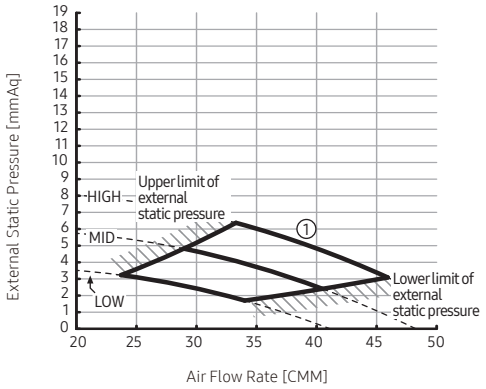


8. Fan Characteristics

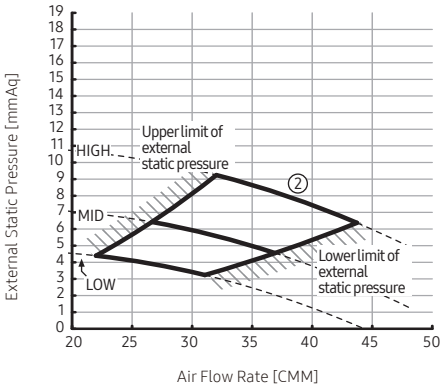
Duct S

14) AM112ANHPKH/EU

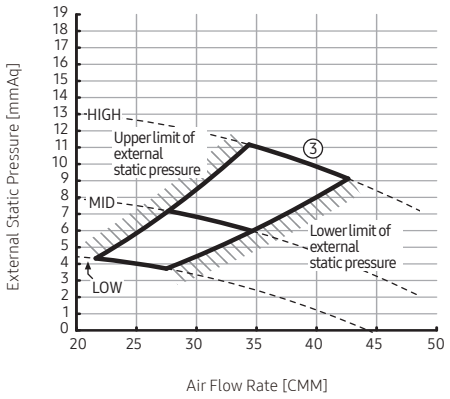
①	External Static Pressure(inAq)	Option Code
	3≤SP≤6.2	010054-1E5439-207070-331120



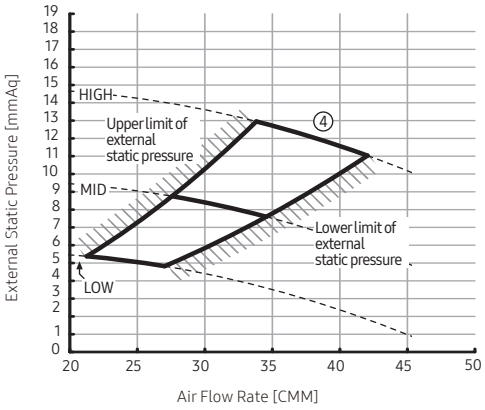
②	External Static Pressure(inAq)	Option Code
	6.2<SP≤9	010054-1E548B-207070-331120



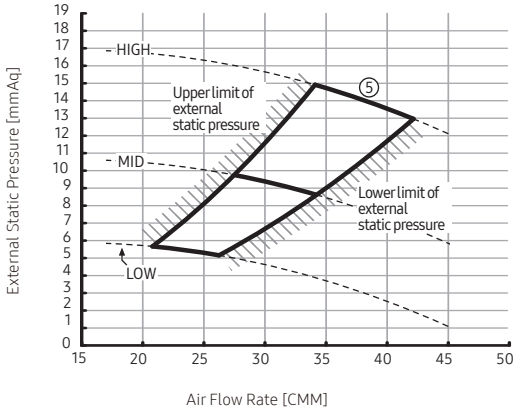
③	External Static Pressure(inAq)	Option Code
	9<SP≤11	010054-1E54CB-207070-331120



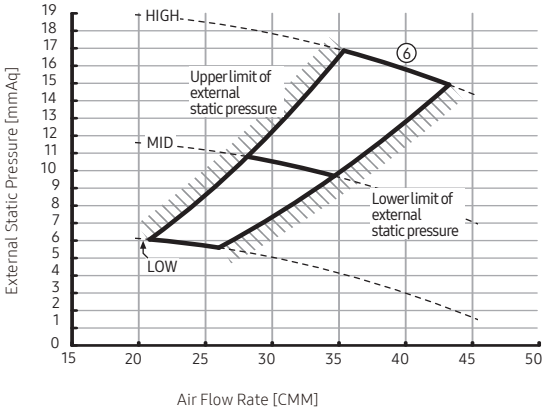
④	External Static Pressure(inAq)	Option Code
	11<SP≤13	010054-1E54FD-207070-331120



⑤	External Static Pressure(inAq)	Option Code
	13<SP≤15	010054-1E582E-207070-331120



⑥	External Static Pressure(inAq)	Option Code
	15<SP≤17	010054-1E585F-207070-331120

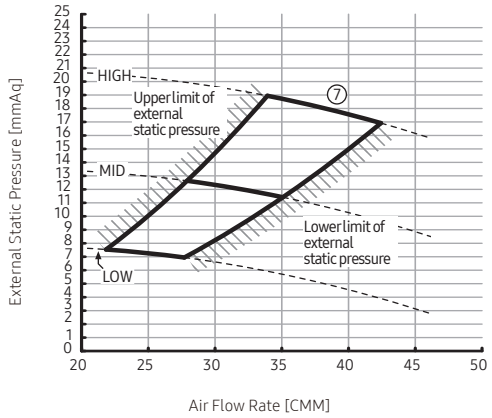


8. Fan Characteristics

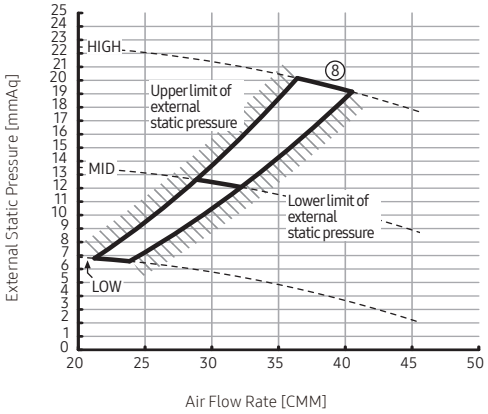
Duct S

14) AM112ANHPKH/EU

⑦	External Static Pressure(inAq)	Option Code
	17<SP≤19	010054-1E5973-207070-331120



⑧	External Static Pressure(inAq)	Option Code
	19<SP≤20	010054-1E5991-207070-331120

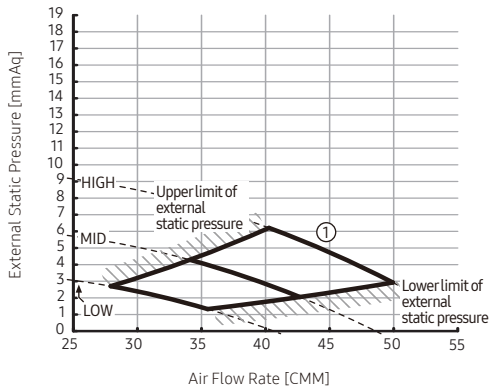


8. Fan Characteristics

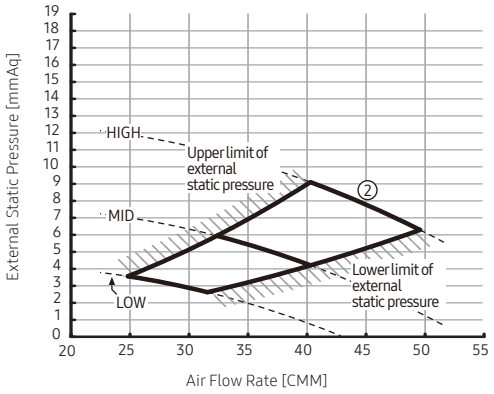
Duct S

15) AM128ANHPKH/EU

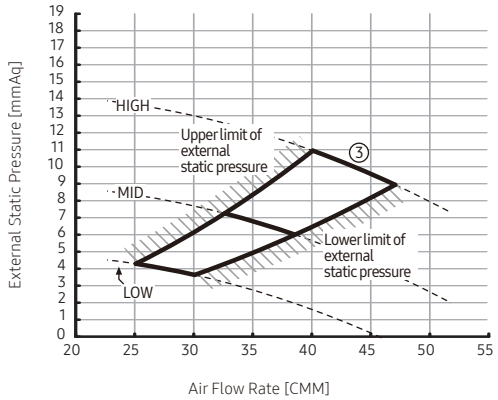
①	External Static Pressure(inAq)	Option Code
	3≤SP≤6.2	010054-1E5469-208080-331120



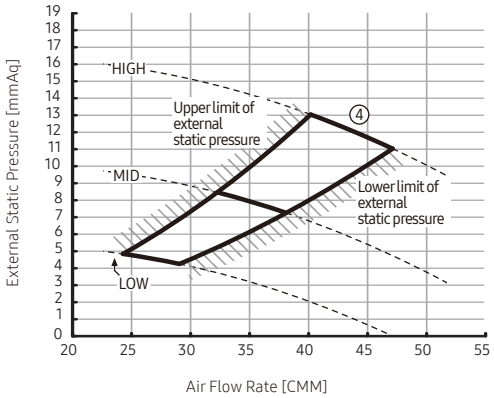
②	External Static Pressure(inAq)	Option Code
	6.2<SP≤9	010054-1E54BA-208080-331120



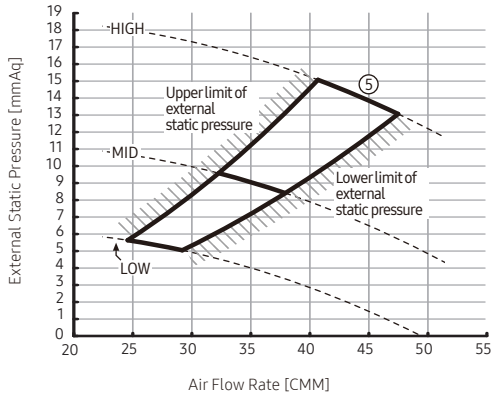
③	External Static Pressure(inAq)	Option Code
	9<SP≤11	010054-1E54EC-208080-331120



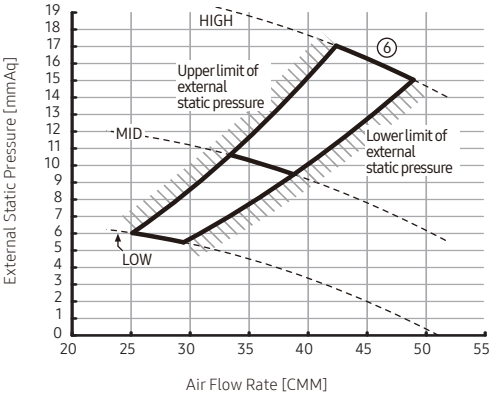
④	External Static Pressure(inAq)	Option Code
	11<SP≤13	010054-1E581D-208080-331120



⑤	External Static Pressure(inAq)	Option Code
	13<SP≤15	010054-1E584F-208080-331120



⑥	External Static Pressure(inAq)	Option Code
	15<SP≤17	010054-1E5970-208080-331120

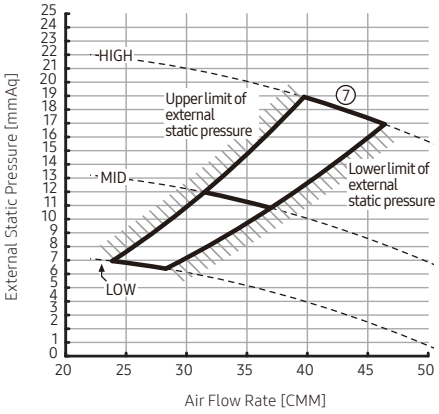


8. Fan Characteristics

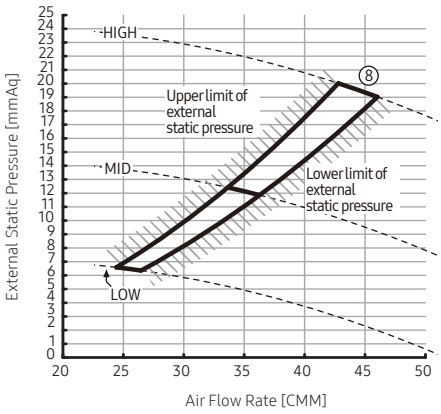
Duct S

15) AM128ANHPKH/EU

⑦	External Static Pressure(inAq)	Option Code
	17<SP≤19	010054-1E5992-208080-331120



⑧	External Static Pressure(inAq)	Option Code
	19<SP≤20	010054-1E59B1-208080-331120

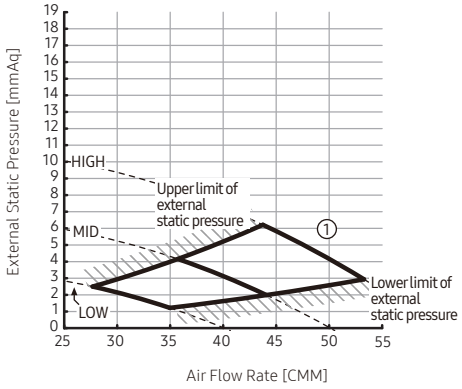


8. Fan Characteristics

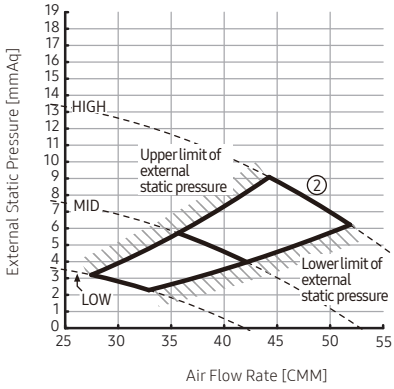
Duct S

16) AM140ANHPKH/EU

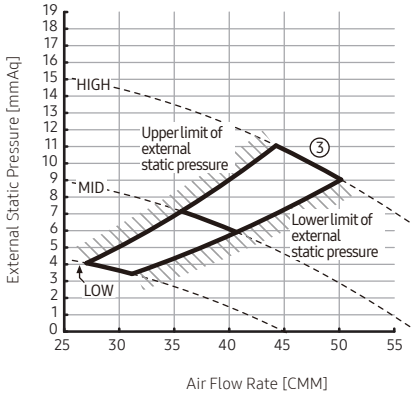
①	External Static Pressure(inAq)	Option Code
	3≤SP≤6.2	010054-1E5489-208C8C-331120



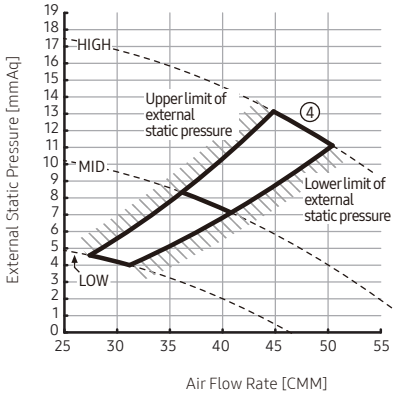
②	External Static Pressure(inAq)	Option Code
	6.2<SP≤9	010054-1E54DA-208C8C-331120



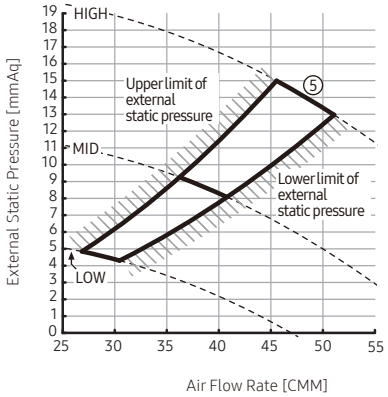
③	External Static Pressure(inAq)	Option Code
	9<SP≤11	010054-1E580C-208C8C-331120



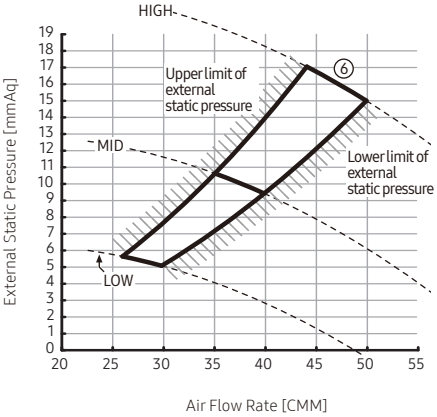
④	External Static Pressure(inAq)	Option Code
	11<SP≤13	010054-1E583D-208C8C-331120



⑤	External Static Pressure(inAq)	Option Code
	13<SP≤15	010054-1E586E-208C8C-331120



⑥	External Static Pressure(inAq)	Option Code
	15<SP≤17	010054-1E5980-208C8C-331120



8. Fan Characteristics

Duct S

16) AM140ANHPKH/EU

⑦	External Static Pressure(inAq)	Option Code
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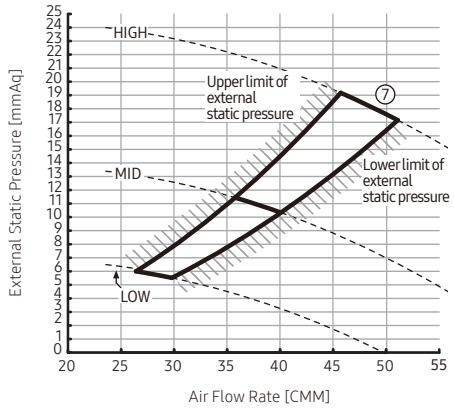

⑧	External Static Pressure(inAq)	Option Code
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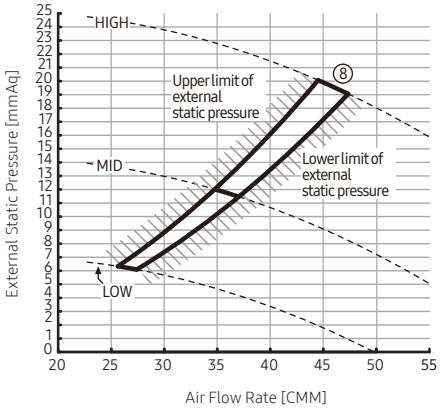
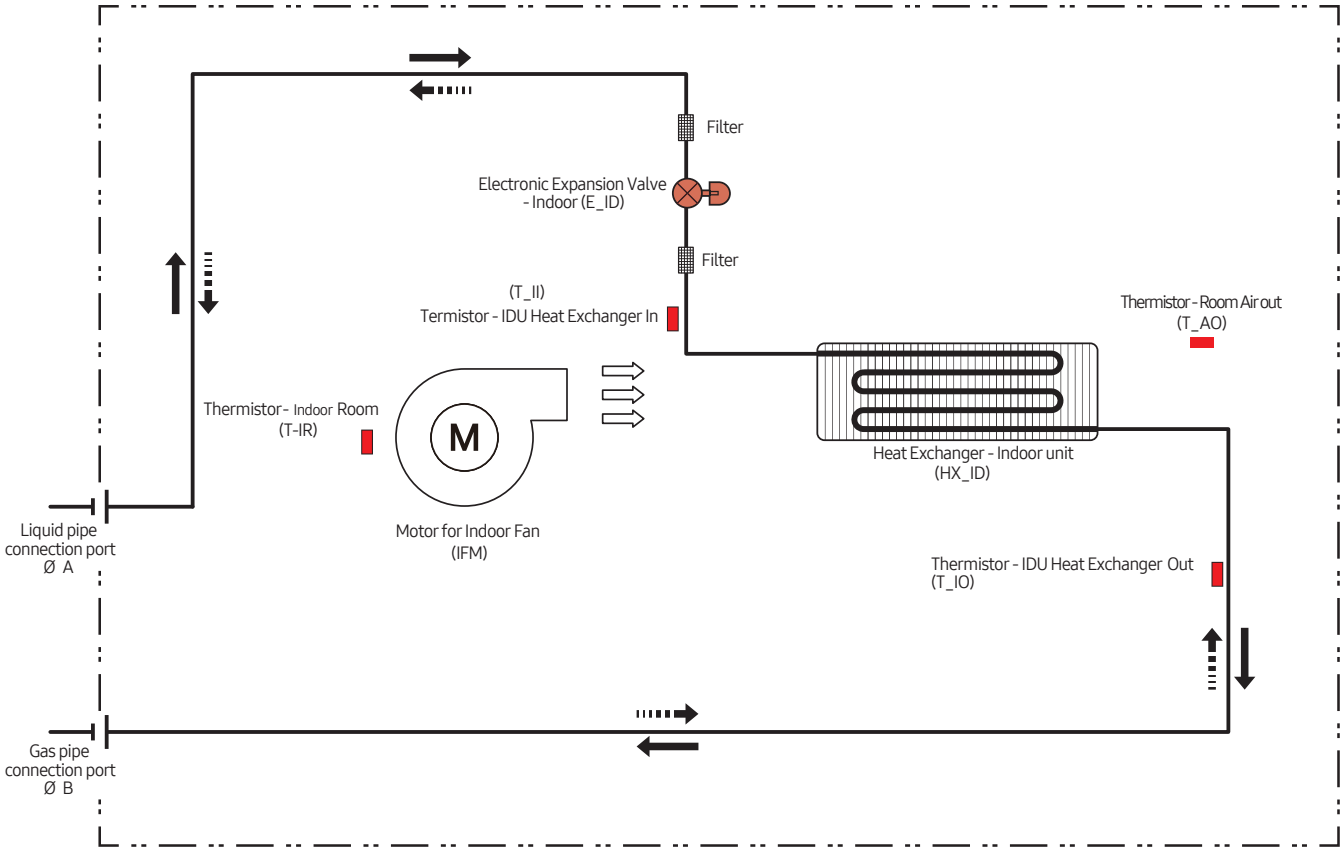


9. Piping Diagram

Duct S

EEV included Model



Refrigerant flow	
Cooling	Heating
→	⇢

Unit : mm (inch)

MODEL	A	B
AM022ANMPKH/EU	6.35 (1/4)	12.7 (1/2)
AM028ANMPKH/EU		
AM036ANMPKH/EU		
AM045ANMPKH/EU		
AM056AN*PKH/EU		
AM071AN*PKH/EU	9.52 (3/8)	15.88 (5/8)
AM090AN*PKH/EU		
AM112AN*PKH/EU		
AM128AN*PKH/EU		
AM140AN*PKH/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

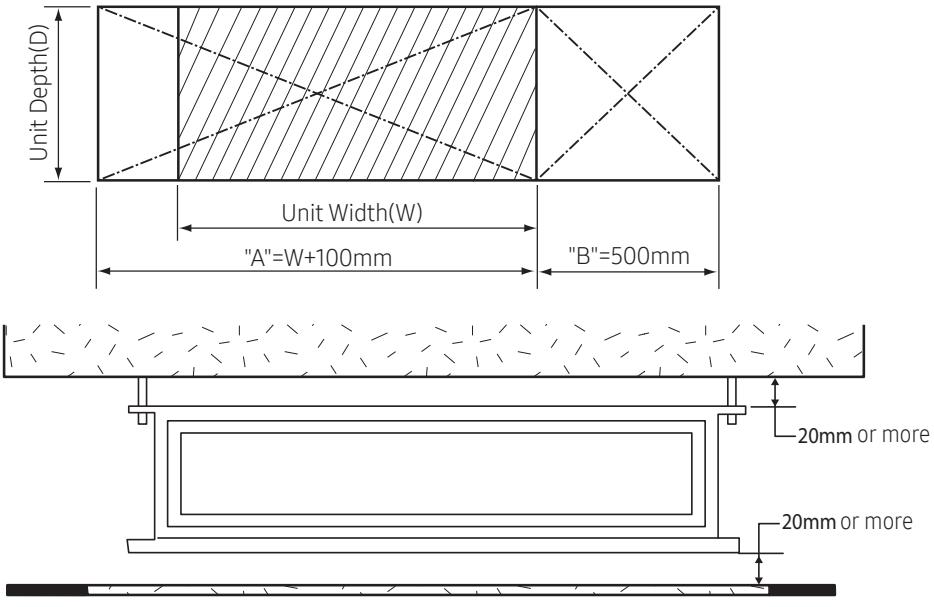
1) In case, the ceiling is tex tile, Inspection hole dose not need.

2) In case, the ceiling is plaster board, Inspection hole depends on Inside height of the ceiing.

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 .

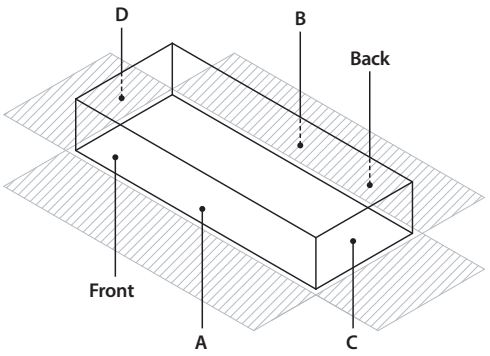


- You must have 20mm or more space between the ceiling and the bottom of indoor unit. Otherwise, the noise from the vibration of indoor unit may bother the user.When the ceiling is under construction, the hole for check-up must be made to take service, clean and repair the unit.
- It is possible to install 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	

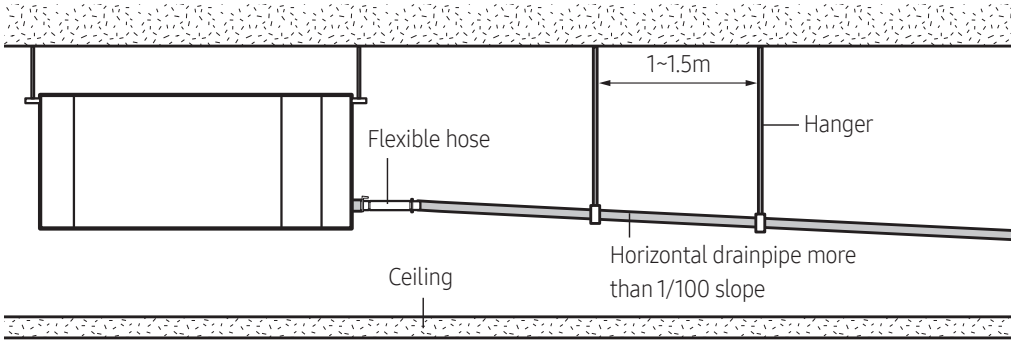
10. Installation

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.



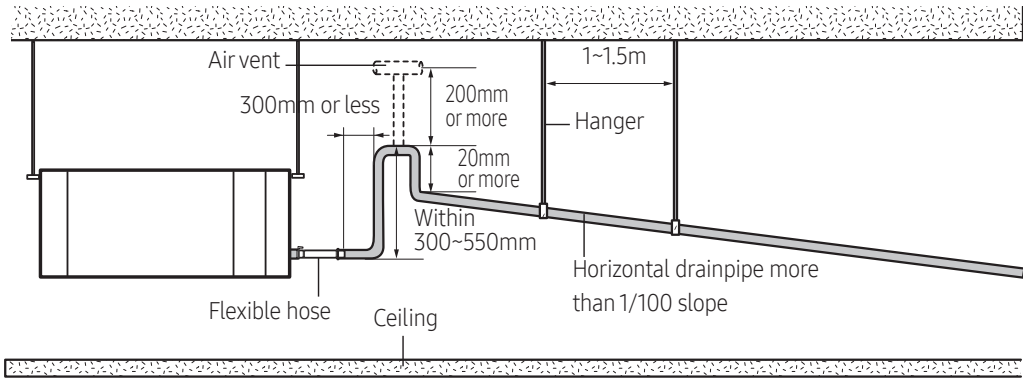
With the drain pump

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.

NOTE

- 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.

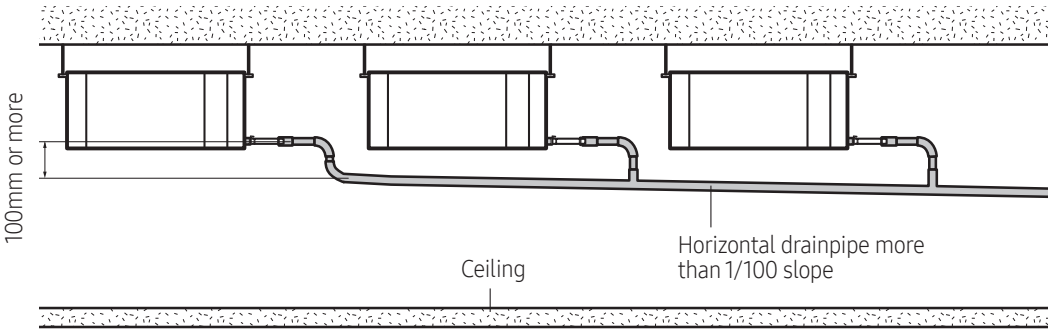


10. Installation

Centralized Drainage

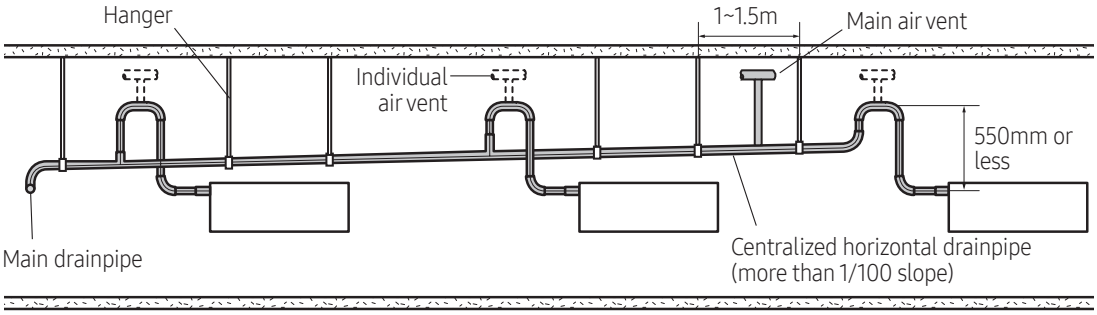
Without the drain pump

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

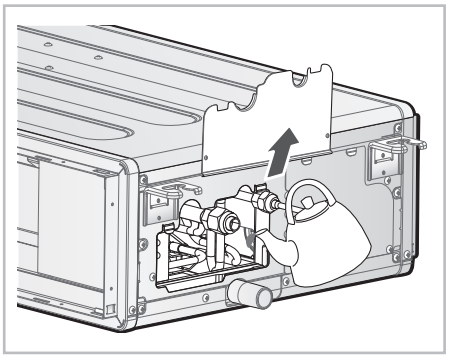
1. Install main air vent at the front of the farthest indoor unit from the main drain when installed indoor units are more than 3.
2. You may need to install individual air vent to prevent water flow back at the top of each indoor unit drainpipe.



Testing the drainage

Prepare a little water about 2 liter.

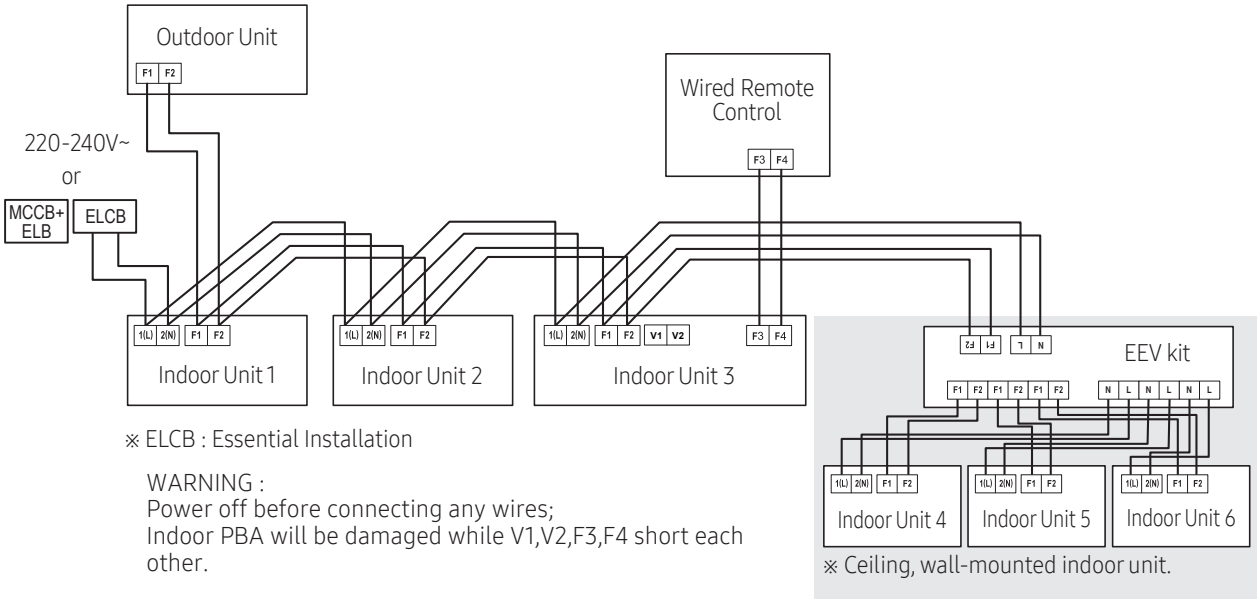
1. Pour water into the base pan in the indoor unit as shown in figure.
2. Confirm that the water flows out through the drain hose.



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.



※ ELCB : Essential Installation

WARNING :
Power off before connecting any wires;
Indoor PBA will be damaged while V1,V2,F3,F4 short each other.

※ Ceiling, wall-mounted indoor unit.

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)

The capacity of ELCB(or MCCB+ELB) X [A] = 1.25 X 1.1 X ∑Ai

※ X : The capacity of ELCB(or MCCB+ELB).

※ ∑Ai : 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.

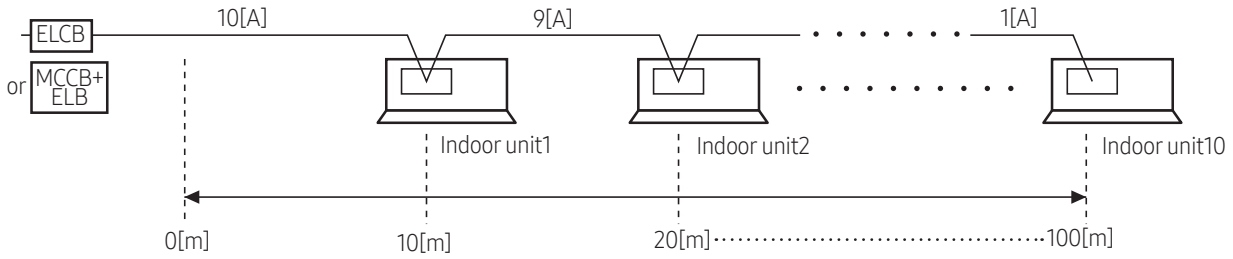
$$\sum_{k=1}^{n} \left(\frac{Coef \times 35.6 \times Lk \times ik}{1000 \times Ak} \right) < \text{10\% of input voltage[V]}$$

※ coef: 1.55

※ Lk : Distance among each indoor unit[m], Ak: Power cable specification[mm^2]
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



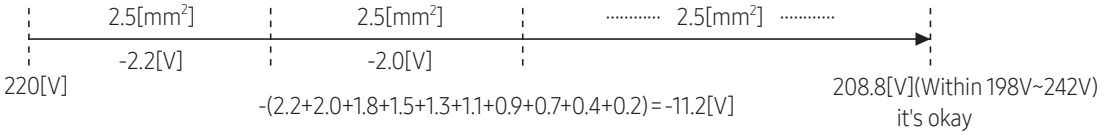
- Apply following equation.

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

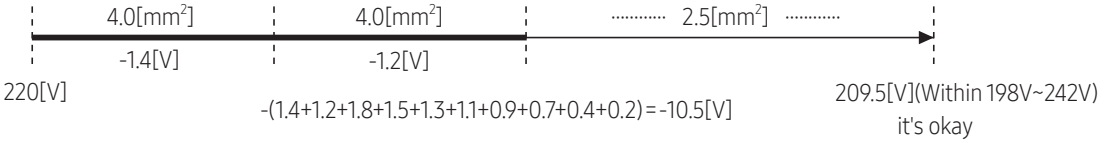
10. Installation

※ 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✳ ✳028✳ ✳036✳ ✳045✳ ✳056✳ ✳071✳ ✳090✳ ✳112✳ ✳128✳ ✳140✳	0.40A 0.40A 0.40A 0.50A 0.60A 1.00A 1.20A 1.20A 1.40A 1.70A	AM✳ANHPKH✳	✳056✳ ✳071✳ ✳090✳ ✳112✳ ✳128✳ ✳140✳	0.70A 1.00A 1.20A 1.20A 1.30A 1.50A

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Ver.2.1

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