SAMSUNG

VRF Technical Data Book

Indoor Units for Europe

(R32, HP)

Model : AM***DN**KG/EU

History

Version	Modification	Date	Remark
Ver.1.0	Released VRF Indoor Units for Europe (R32, Heat Pump) TDB	24.06.04	
Ver.1.1	Updated the final Spec.	24.09.02	

Nomenclature

Indoor Unit

Model Name

AM	028	D	N	4	D	K	G	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	DVM

(2) Capacity

X 100 Watt (3 digits)

(3) Version

D	2024

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	(WindFree™) 1Way Cassette
N	(WindFree™) 4Way Cassette (600x600)
4	(WindFree™) 4Way Cassette
6	360 Cassette
L	LSP Duct
M	MSP Duct
H	HSP Duct
V	WindFree™ QMD
Q	MAX
C	CEILING

(6) Feature

F	Flagship
D	Deluxe

(7) Rating Voltage

K	220~240V, 50/60Hz, 1Ø

(8) Mode

G	Heat Pump (R32)

Contents

WindFree™ 1Way Cassette

Line-up

WindFree™ 1Way Cassette

Capacity (kW)					
1.7	2.2	2.8	3.6	5.6	7.1
					

1. Specification

WindFree™ 1Way Cassette

Model Name				AM017DN1DKG/EU	AM022DN1DKG/EU	AM028DN1DKG/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	1.70	2.20	2.80
			Btu/h	5,800	7,500	9,600
		Heating	kW	1.90	2.50	3.20
			Btu/h	6,500	8,500	10,900
Power	Power Input	Cooling	W	24.00	25.00	50.00
		Heating		24.00	25.00	50.00
	Current Input	Cooling	A	0.14	0.15	0.23
		Heating		0.14	0.15	0.23
	Current	MCA	A	0.18	0.18	0.29
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	m^3/min	4.80/4.30/4.10	5.10/4.60/4.30	7.00/6.00/5.00
			l/s	80.00/71.67/68.33	85.00/76.67/71.67	116.67/100.00/83.33
Fan Motor	Model		-	BLDC Motor	BLDC Motor	AC Motor
	Output x n		W	27 x 1	27 x 1	23 x 1
Piping Connections	Liquid Pipe		Type	Flare Connection	Flare Connection	Flare Connection
			Φ, mm	6.35	6.35	6.35
			Φ, inch	1/4	1/4	1/4
	Gas Pipe		Type	Flare Connection	Flare Connection	Flare Connection
			Φ, mm	12.7	12.7	12.7
			Φ, inch	1/2	1/2	1/2
	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Minimum	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low	dB(A)	28 / 26 / 24	29 / 26 /24	32/28/24
	Sound Power	Cooling		46	47	50
Dimension	Net Weight		kg	8.0	8.0	10.0
	Shipping Weight		kg	10.5	10.5	12.8
	Net Dimensions (WxHxD)		mm	740 x 135 x 360	740 x 135 x 360	970 x 135 x 410
	Shipping Dimensions (WxHxD)		mm	895 x 223 x 435	895 x 223 x 435	1,173 x 231 x 487

1. Specification

WindFree™ 1Way Cassette

Model Name			AM017DN1DKG/EU	AM022DN1DKG/EU	AM028DN1DKG/EU
Casing	Material	-	ABS	ABS	ABS
Panel	Model Name	-	PC1MWFMANW	PC1MWFMANW	PC1NWFMANW
	Type	-	Wind Free	Wind Free	Wind Free
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	2.6	2.6	4.3
	Shipping Weight	kg	3.8	3.8	6.3
	Net Dimensions (W×H×D)	mm	960 x 34 x 420	960 x 34 x 420	1,198 x 34 x 500
	Shipping Dimensions (W×H×D)	mm	1,003 x 112 x 482	1,003 x 112 x 482	1,262 x 122 x 566
Drain pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB/24°C WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA
- Drain pump included (check valve included)

1. Specification

WindFree™ 1Way Cassette

Model Name				AM036DN1DKG/EU	AM056DN1DKG/EU	AM071DN1DKG/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Performance	Capacity	Cooling	kW	3.60	5.60	7.10
			Btu/h	12,300	19,100	24,200
		Heating	kW	4.00	6.30	8.00
			Btu/h	13,600	21,500	27,300
Power	Power Input	Cooling	W	50.00	55.00	80.00
		Heating		50.00	55.00	80.00
	Current Input	Cooling	A	0.25	0.28	0.40
		Heating		0.25	0.28	0.40
	Current	MCA	A	0.31	0.35	0.50
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	m^3/min	8.00/7.00/6.00	16.00/14.00/12.50	17.00/15.50/14.00
			l/s	133.33/116.67/100.00	266.67/233.33/208.33	283.33/258.33/233.33
Fan Motor	Model		-	AC Motor	BLDC Motor	BLDC Motor
	Output x n		W	23 x 1	54 x 1	54 x 1
Piping Connections	Liquid Pipe		Type	Flare Connection	Flare Connection	Flare Connection
			Φ, mm	6.35	6.35	9.52
			Φ, inch	1/4	1/4	3/8
	Gas Pipe		Type	Flare Connection	Flare Connection	Flare Connection
			Φ, mm	12.7	12.70	15.88
			Φ, inch	1/2	1/2	5/8
	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Minimum	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High / Mid / Low	dB(A)	37/33/30	41 / 38 / 35	42 / 39 / 36
	Sound Power	Cooling		55	59	60
Dimension	Net Weight		kg	10.0	13.5	13.5
	Shipping Weight		kg	12.8	17.3	17.3
	Net Dimensions (WxHxD)		mm	970 x 135 x 410	1,200 x 138 x 450	1,200 x 138 x 450
	Shipping Dimensions (WxHxD)		mm	1,173 x 231 x 487	1,435 x 224 x 525	1,435 x 224 x 525

1. Specification

WindFree™ 1Way Cassette

Model Name			AM036DN1DKG/EU	AM056DN1DKG/EU	AM071DN1DKG/EU
Casing	Material	-	ABS	ABS	ABS
Panel	Model Name	-	PC1NWFMANW	PC1BWFMANW	PC1BWFMANW
	Type	-	Wind Free	Wind Free	Wind Free
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	4.3	5.0	5.0
	Shipping Weight	kg	6.3	7.0	7.0
	Net Dimensions (W×H×D)	mm	1,198 x 34 x 500	1,410 x 34 x 500	1,410 x 34 x 500
	Shipping Dimensions (W×H×D)	mm	1,262 x 122 x 566	1,474 x 122 x 566	1,474 x 122 x 566
Drain pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Cooling : Indoor temperature 27°C DB / 19°C WB, Outdoor temperature 35°C DB/24°C WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Heating : Indoor temperature 20°C DB / 15°C WB, Outdoor temperature 7°C DB / 6°C WB, Refrigerant pipe length 7.5m, Level difference 0m.
- Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
- Specifications may be subject to change without prior notice.
- Select wire size based on the value of MCA
- Drain pump included (check valve included)

2. Summary Table

WindFree™ 1Way Cassette

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity(kW)			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
AM017DN1DKG/EU	8.0	High	1.70	1.20	1.90	4.8	28	46
		Mid	1.50	1.10	1.80	4.3	26	-
		Low	1.50	1.10	1.80	4.1	24	-
		W/Free	1.00	0.70	-	2.0	24	-
AM022DN1DKG/EU	8.0	High	2.20	1.50	2.50	5.1	29	47
		Mid	2.00	1.40	2.40	4.6	26	-
		Low	1.90	1.30	2.30	4.3	24	-
		W/Free	1.20	0.90	-	2.0	24	-
AM028DN1DKG/EU	10.0	High	2.80	1.90	3.20	7.0	32	50
		Mid	2.40	1.60	3.00	6.0	28	-
		Low	2.10	1.40	2.70	5.0	24	-
		W/Free	1.40	1.00	-	3.2	24	-
AM036DN1DKG/EU	10.0	High	3.60	2.6	4.00	8.0	37	55
		Mid	3.20	2.30	3.70	7.0	33	-
		Low	2.80	2.00	3.50	6.0	30	-
		W/Free	1.90	1.30	-	3.6	30	-
AM056DN1DKG/EU	13.5	High	5.60	4.20	6.30	16.0	41	59
		Mid	5.00	3.80	5.90	14.0	38	-
		Low	4.50	3.40	5.60	12.5	35	-
		W/Free	3.00	2.10	-	6.0	30	-
AM071DN1DKG/EU	13.5	High	7.10	5.00	8.00	17.0	42	60
		Mid	6.60	4.60	7.60	15.5	39	-
		Low	6.00	4.20	7.30	14.0	36	-
		W/Free	4.00	2.80	-	6.5	30	-

NOTE

- Sound data is based on cooling operation.

Electrical Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM017DN1DKG/EU	1,2,220-240,50/60	24.00	0.14	0.18	15	0.14
AM022DN1DKG/EU	1,2,220-240,50/60	25.00	0.15	0.18	15	0.15
AM028DN1DKG/EU	1,2,220-240,50/60	50.00	0.23	0.29	15	0.17
AM036DN1DKG/EU	1,2,220-240,50/60	50.00	0.25	0.31	15	0.20
AM056DN1DKG/EU	1,2,220-240,50/60	55.00	0.28	0.35	15	0.28
AM071DN1DKG/EU	1,2,220-240,50/60	80.00	0.40	0.50	15	0.40

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

WindFree™ 1Way Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (°C, DB)	Indoor temperature (°C, DB / WB)													
		20 / 14		23 / 16		26 / 18		27 / 19		28 / 20		30 / 22		32 / 24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1.7	35	1.20	1.00	1.40	1.10	1.60	1.20	1.70	1.20	1.80	1.20	1.80	1.20	2.00	1.10
2.2	35	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
2.8	35	1.90	1.60	2.30	1.80	2.60	1.90	2.80	1.90	2.90	1.90	3.10	1.90	3.30	1.80
3.6	35	2.50	2.20	2.90	2.40	3.40	2.40	3.60	2.60	3.70	2.60	4.00	2.60	4.20	2.40
5.6	35	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
7.1	35	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.40	4.80

Heating

TC : Total Capacity (kW)

Model	Outdoor temperature (°C, DB)		Indoor temperature (°C, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
1.7	7	6	2.10	2.10	1.90	1.70	1.70
2.2	7	6	2.80	2.70	2.50	2.30	2.20
2.8	7	6	3.30	3.20	3.20	3.00	2.70
3.6	7	6	4.10	4.10	4.00	3.70	3.40
5.6	7	6	6.50	6.40	6.30	5.80	5.30
7.1	7	6	8.20	8.10	8.00	7.40	6.80

NOTE

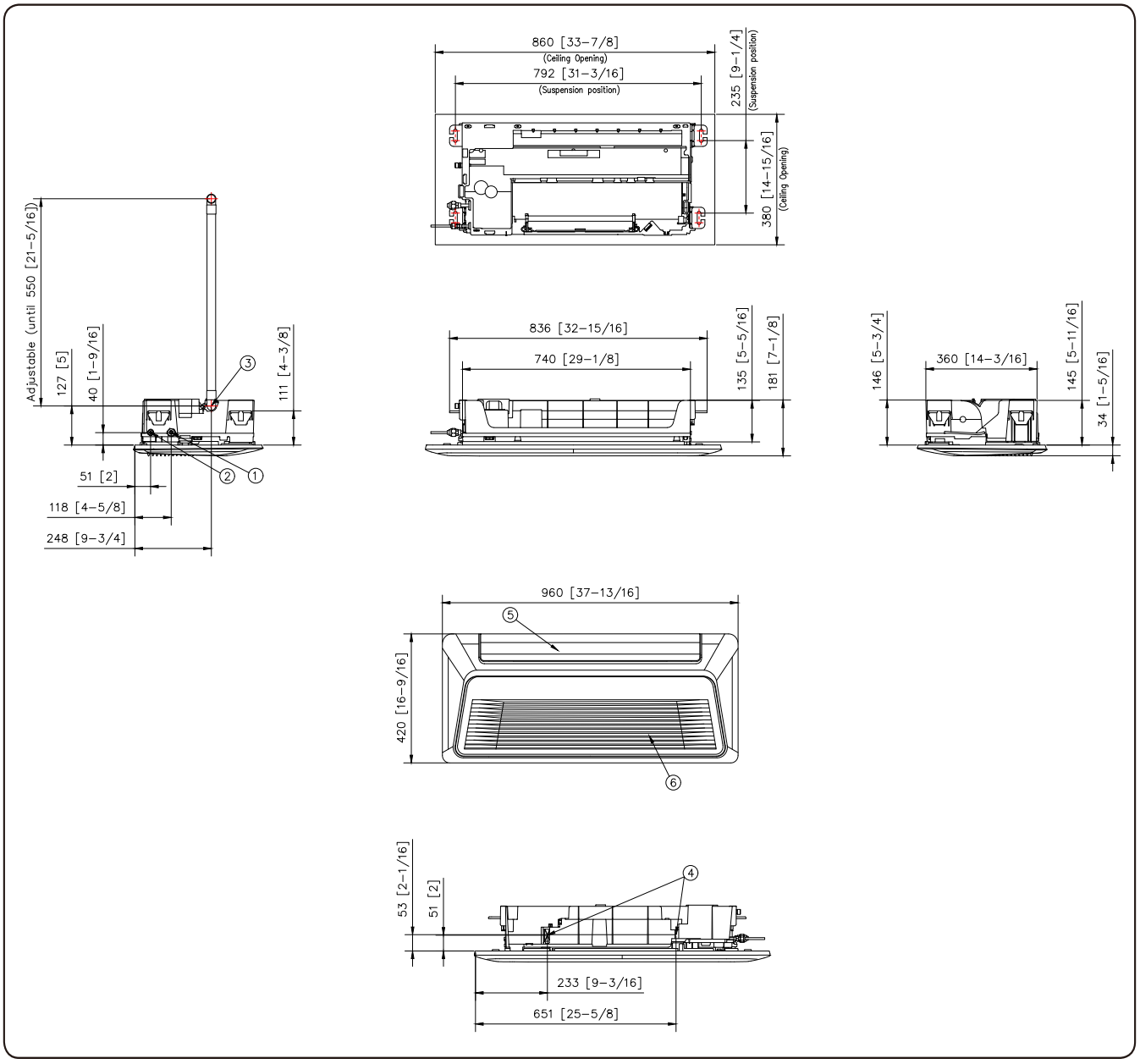
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

WindFree™ 1Way Cassette

AM017DN1DKG/EU, AM022DN1DKG/EU

Units : mm [inches]



No.	Name	Description
1	Gas pipe connection	Φ 12.7 [1/2]
2	Liquid pipe connection	Φ 6.35 [1/4]
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	-
5	Air outlet louver	-
6	Air inlet grille	-

NOTE

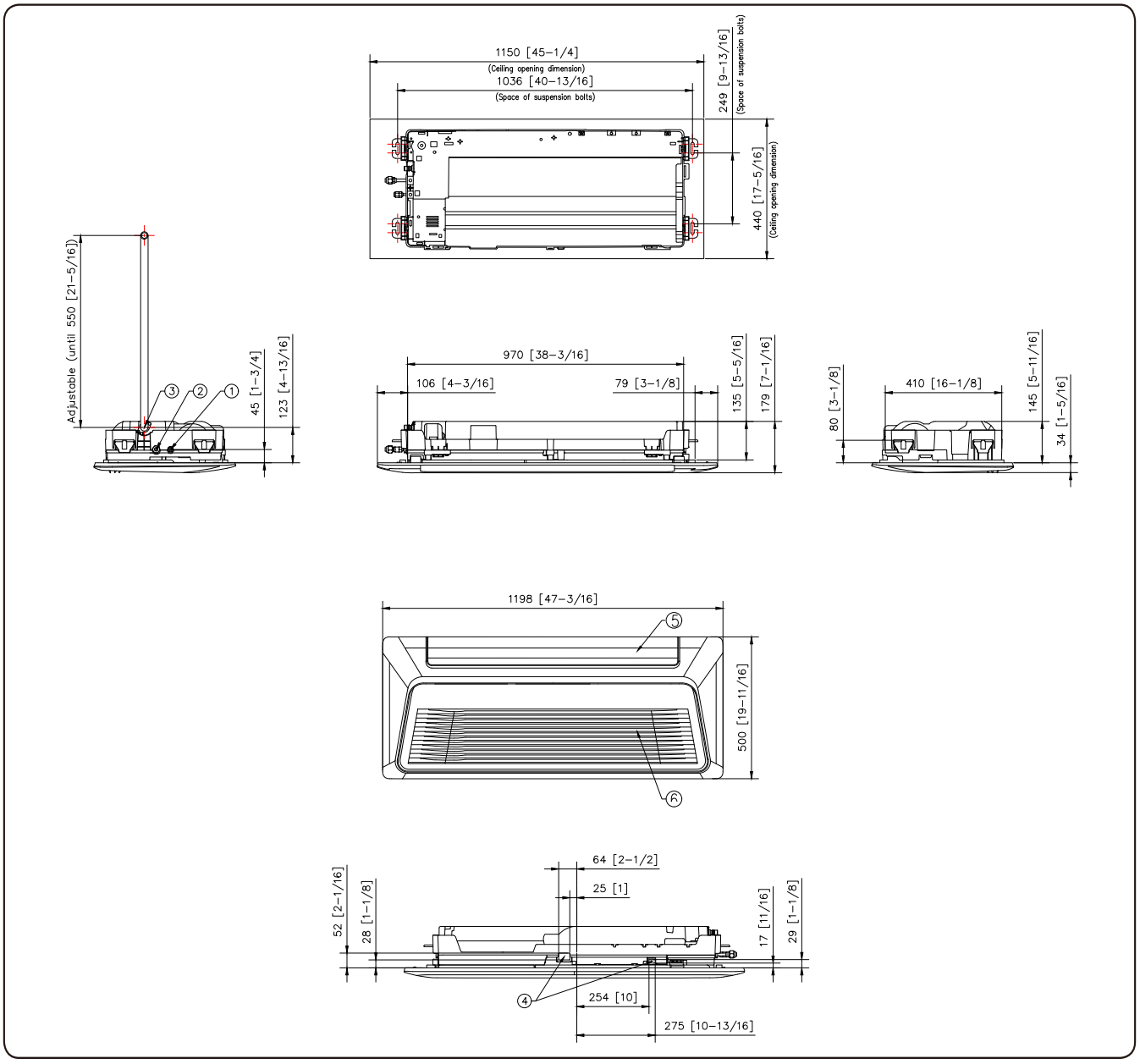
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

WindFree™ 1Way Cassette

AM028DN1DKG/EU, AM036DN1DKG/EU

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Φ 6.35 [1/4]
2	Gas pipe connection	Φ 12.7 [1/2]
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	-
5	Air outlet louver	-
6	Air inlet grille	-

NOTE

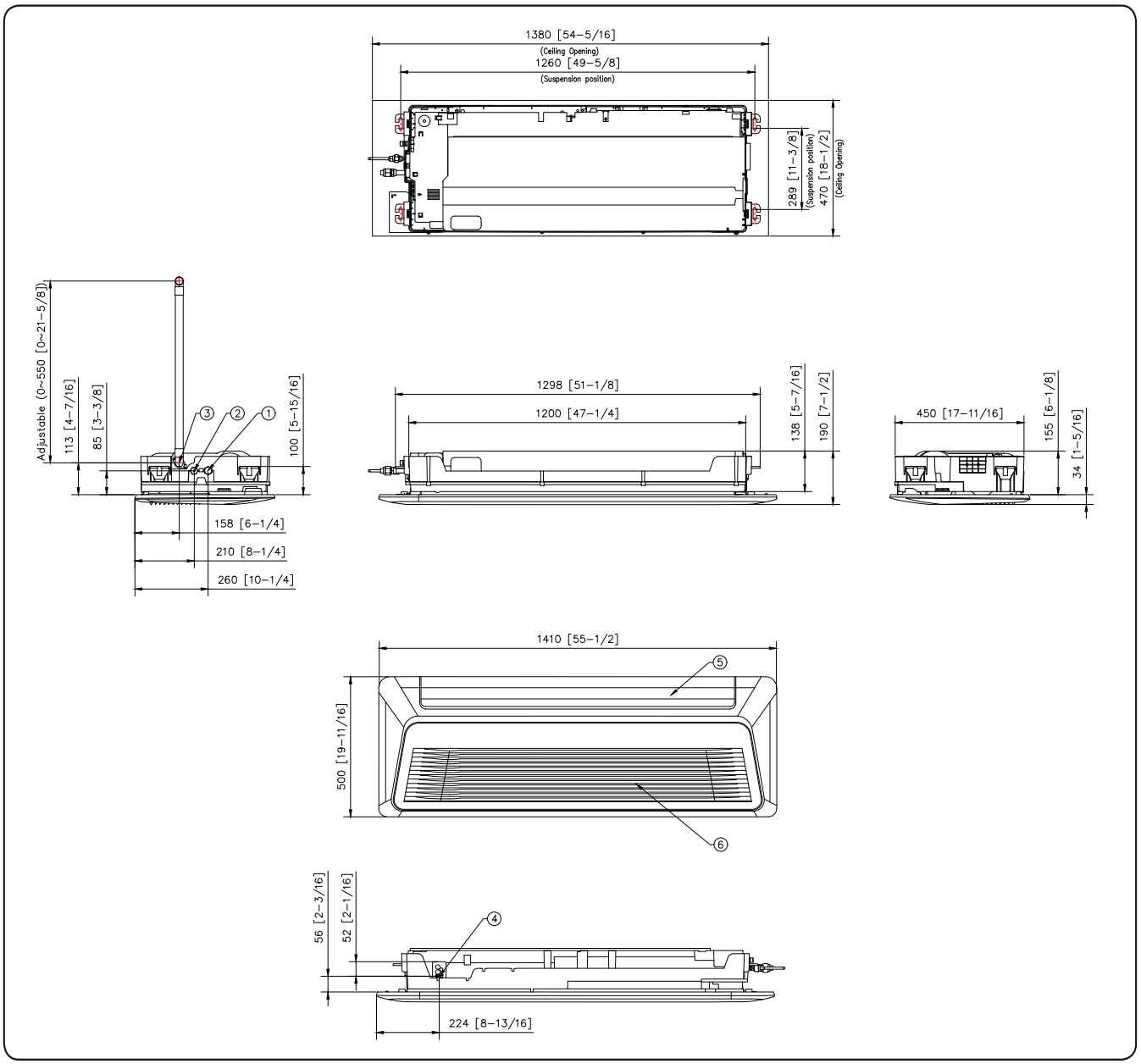
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

WindFree™ 1Way Cassette

AM056DN1DKG/EU, AM071DN1DKG/EU

Units : mm [inches]



No.	Name	Description	
		AM056DN1DKG/EU	AM071DN1DKG/EU
1	Gas pipe connection	Φ 12.7 [1/2]	Φ 15.88 [5/8]
2	Liquid pipe connection	Φ 6.35 [1/4]	Φ 9.52 [3/8]
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Air outlet louver	-	
6	Air inlet grille	-	

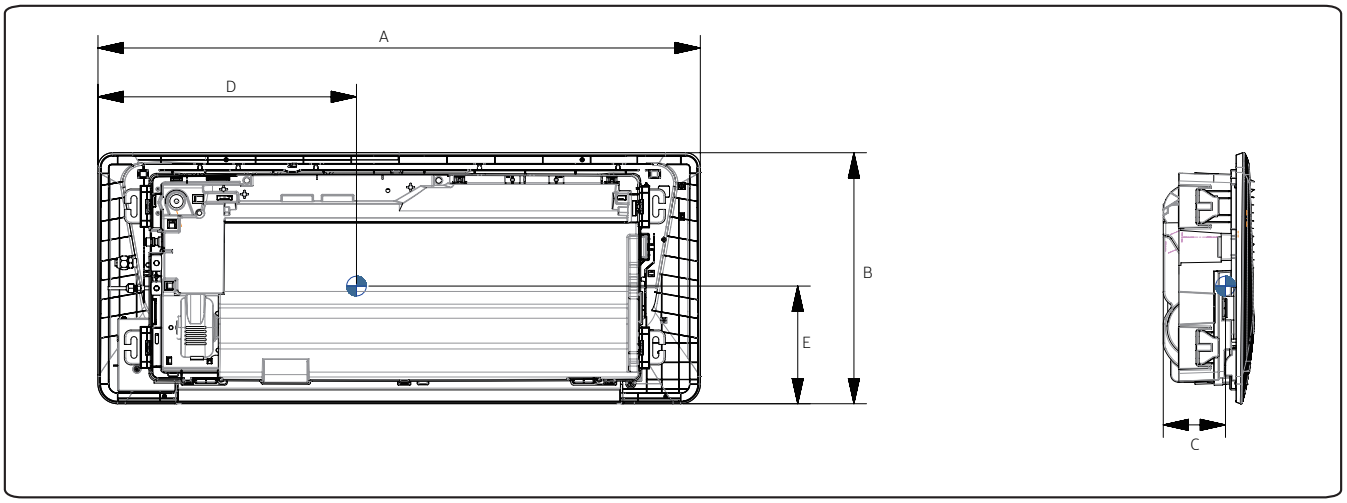
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

WindFree™ 1Way Cassette

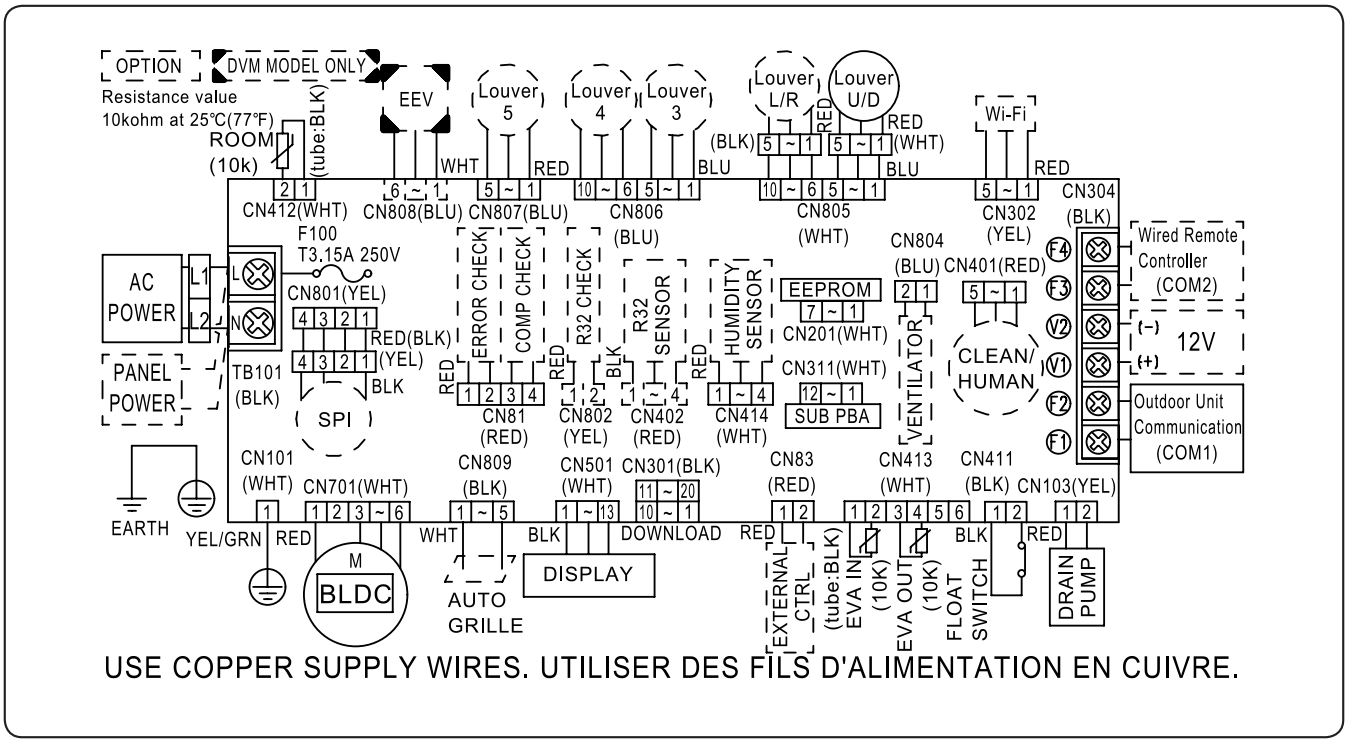
Units : mm [inches]



Model	A	B	C	D	E
AM017DN1DKG/EU AM022DN1DKG/EU	960 [37-13/16]	420 [16-9/16]	108 [4-1/4]	465 [18-5/16]	160 [6-5/16]
AM028DN1DKG/EU AM036DN1DKG/EU	1,198 [47-3/16]	500 [19-11/16]	108 [4-1/4]	555 [21-7/8]	200 [7-7/8]
AM056DN1DKG/EU AM071DN1DKG/EU	1,410 [55-1/2]	500 [19-11/16]	108 [4-1/4]	755 [29-3/4]	200 [7-7/8]

6. Electrical Wiring Diagram

WindFree™ 1Way Cassette



F100	FUSE	ROOM(10K)	Thermistor - Indoor Room
EEV	Electronic Expansion Valve	EVA-IN(10K)	Thermistor - IDU heat exchanger In
M-BLDC	Motor for Indoor Fan	EVA-OUT(10K)	Thermistor - IDU heat exchanger Out
		EXTERNAL CTRL	External Control

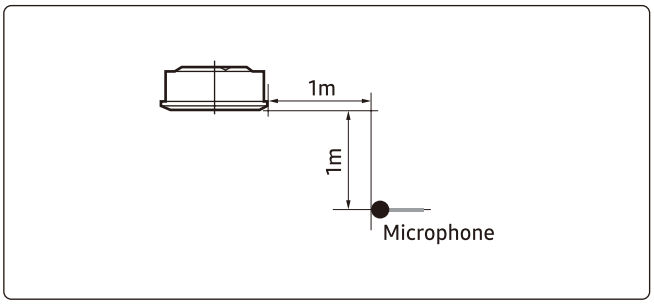
NOTE

- 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: sky blue, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(SCREW)

7. Sound Data

WindFree™ 1Way Cassette

Sound Pressure level

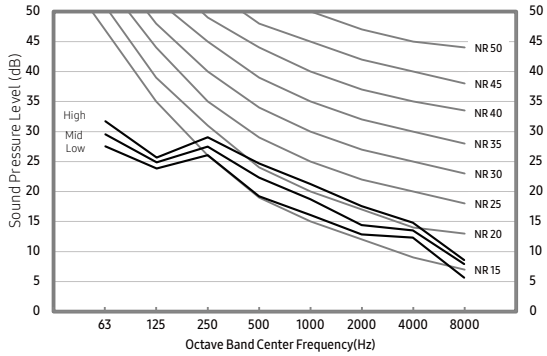


Unit: dB(A)

Model	High	Mid	Low
AM017DN1DKG/EU	28	26	24
AM022DN1DKG/EU	29	26	24
AM028DN1DKG/EU	32	28	24
AM036DN1DKG/EU	37	33	30

• NR Curve

1) AM017DN1DKG/EU



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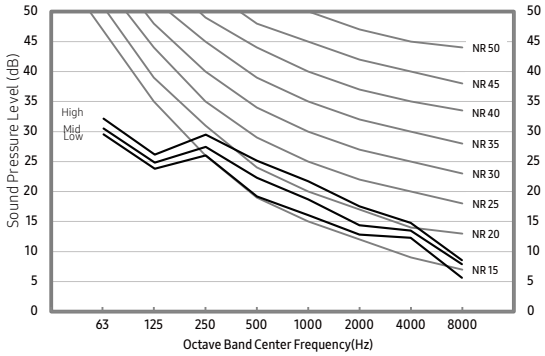
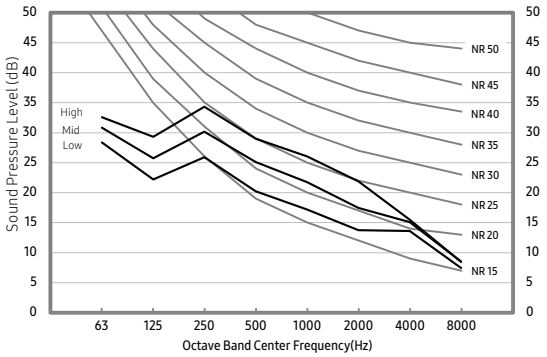
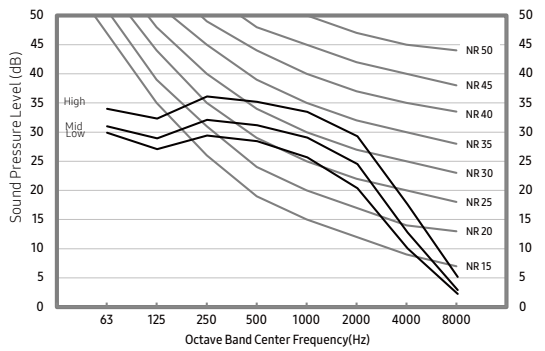


3) AM028DN1DKG/EU



4)AM036DN1DKG/EU



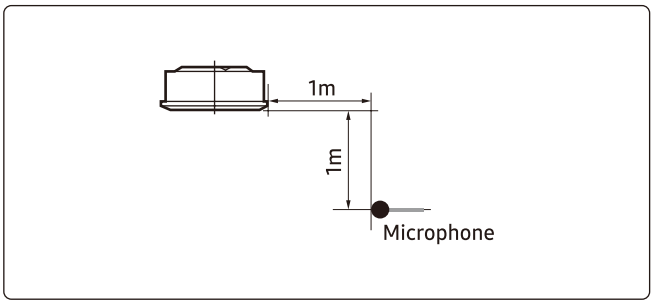
NOTE

- 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

WindFree™ 1Way Cassette

Sound Pressure level

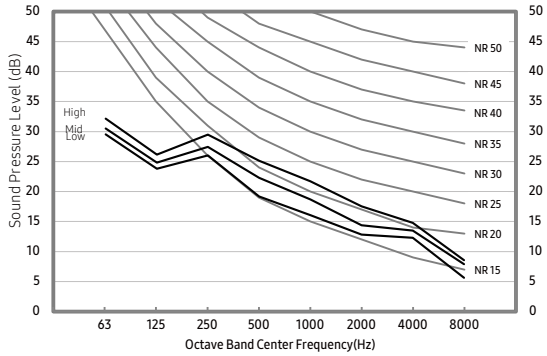


Unit: dB(A)

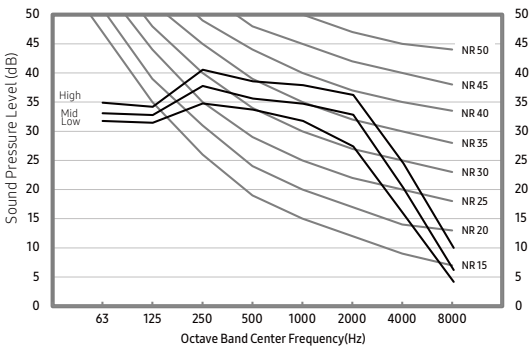
Model	High	Mid	Low
AM056DN1DKG/EU	41	38	35
AM071DN1DKG/EU	42	39	36

• NR Curve

1) AM056DN1DKG/EU



2) AM071DN1DKG/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

WindFree™ 1Way Cassette

Sound Power level

Unit: dB(A)

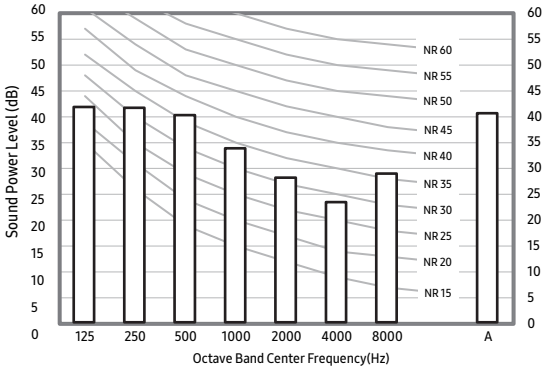
Model	High
AM017DN1DKG/EU	46
AM022DN1DKG/EU	47
AM028DN1DKG/EU	50
AM036DN1DKG/EU	55

NOTE

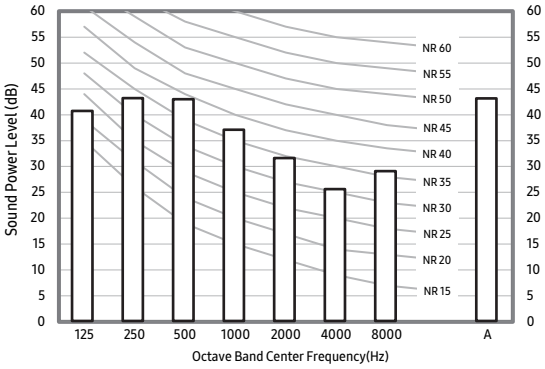
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

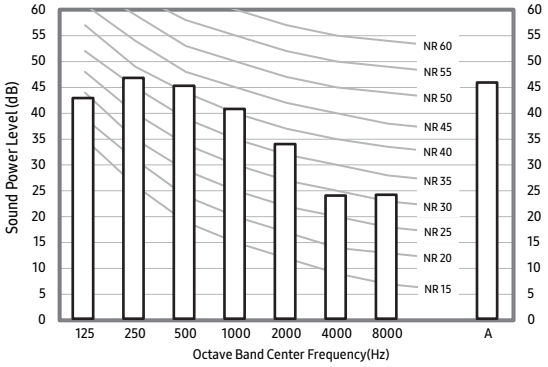
1) AM017DN1DKG/EU



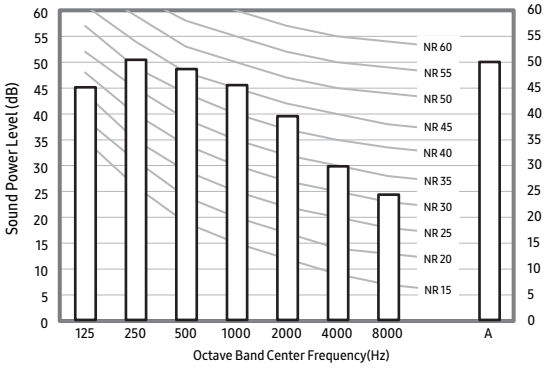
2) AM022DN1DKG/EU



3) AM028DN1DKG/EU



4) AM036DN1DKG/EU



7. Sound Data

WindFree™ 1Way Cassette

Sound Power level

Unit: dB(A)

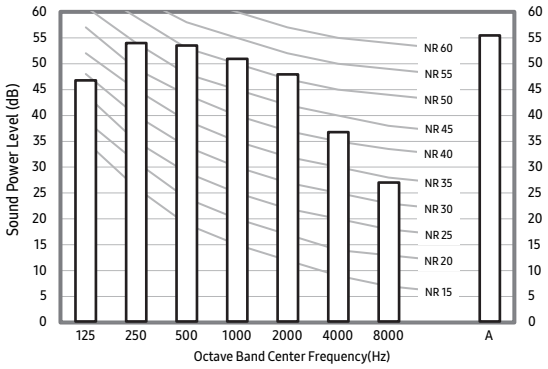
Model	High
AM056DN1DKG/EU	59
AM071DN1DKG/EU	60

NOTE

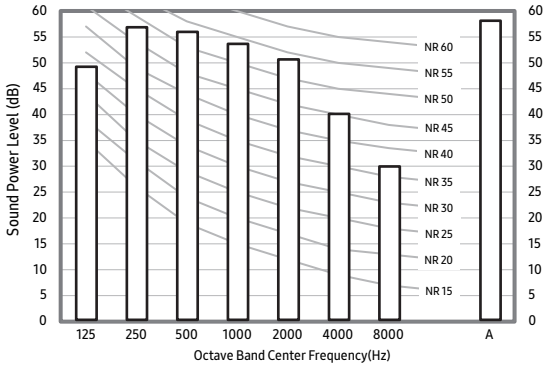
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

5) AM056DN1DKG/EU



6) AM071DN1DKG/EU

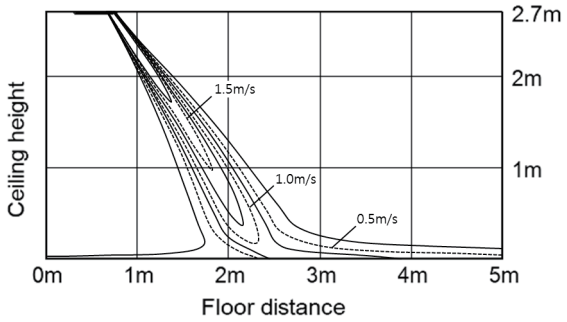


8.Temperature and air flow distribution

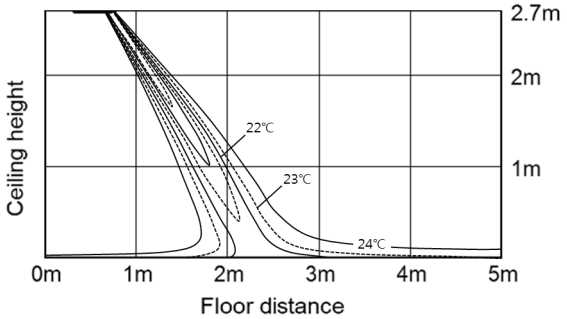
WindFree™ 1Way Cassette

- AM017DN1DKG/EU

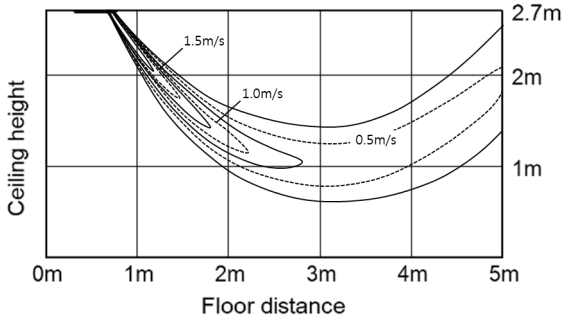
Cooling Air Velocity distribution Discharge angle : 60˚



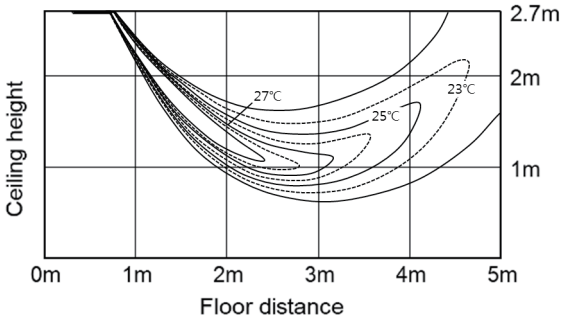
Cooling temperature distribution Discharge angle : 60˚



Heating Air Velocity distribution Discharge angle : 60˚



Heating temperature distribution Discharge angle : 60˚

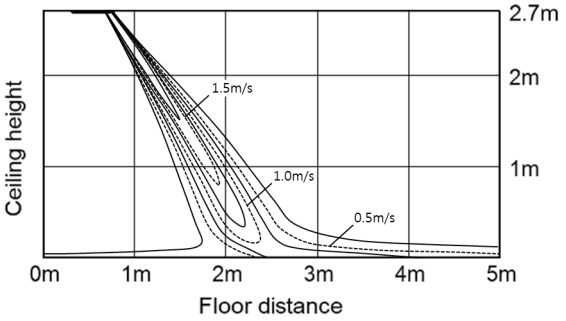


8.Temperature and air flow distribution

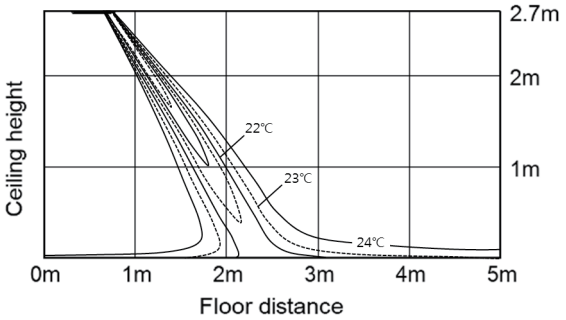
WindFree™ 1Way Cassette

- AM022DN1DKG/EU

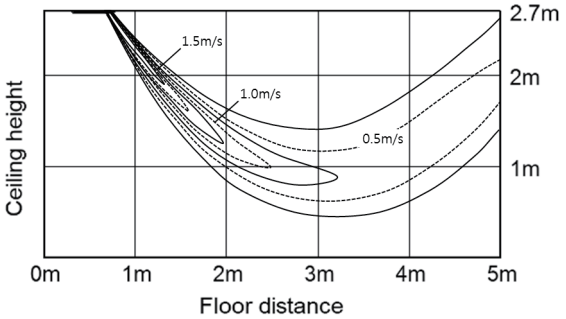
Cooling Air Velocity distribution Discharge angle : 60˚



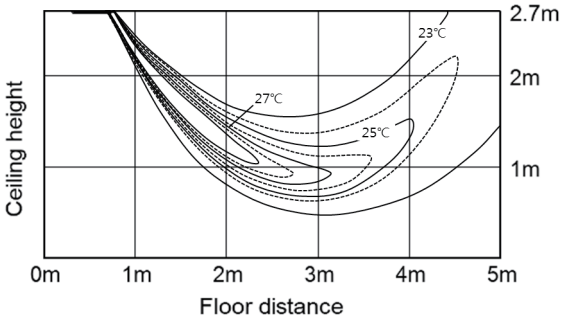
Cooling temperature distribution Discharge angle : 60˚



Heating Air Velocity distribution Discharge angle : 60˚



Heating temperature distribution Discharge angle : 60˚

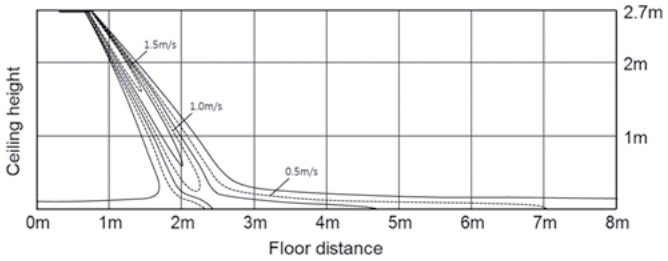


8.Temperature and air flow distribution

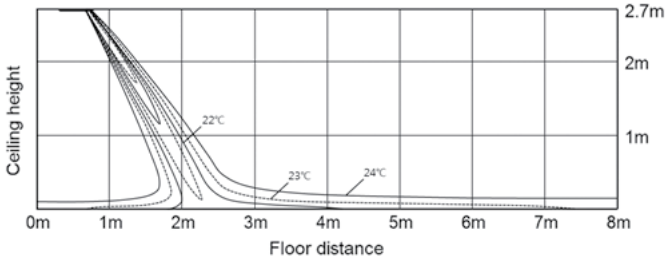
WindFree™ 1Way Cassette

- AM028DN1DKG/EU

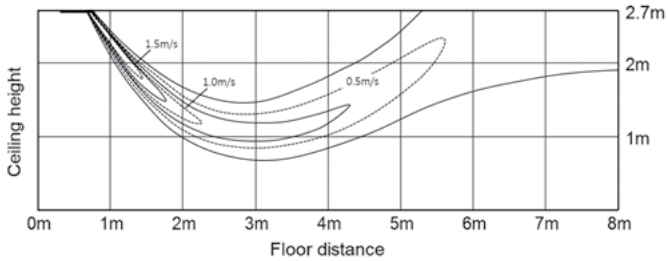
Cooling Air Velocity distribution Discharge angle : 60˚



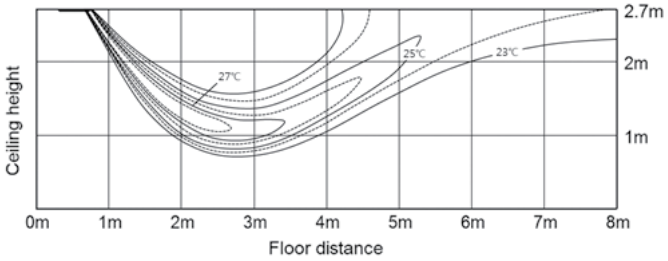
Cooling temperature distribution Discharge angle : 60˚



Heating Air Velocity distribution Discharge angle : 60˚



Heating temperature distribution Discharge angle : 60˚

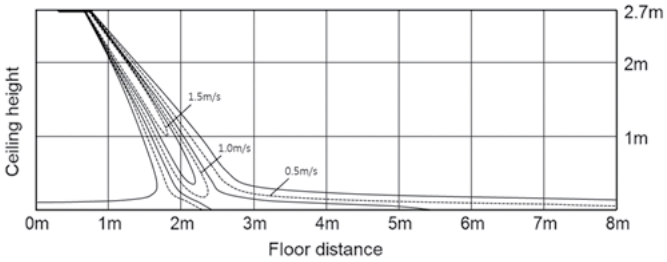


8.Temperature and air flow distribution

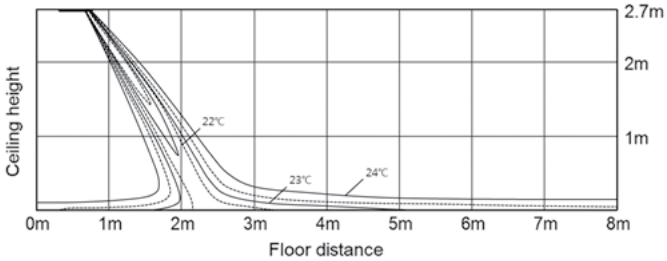
WindFree™ 1Way Cassette

- AM036DN1DKG/EU

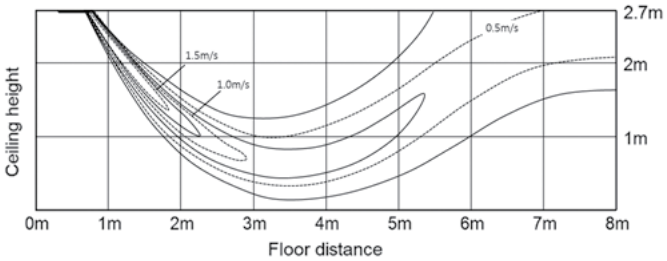
Cooling Air Velocity distribution Discharge angle : 60˚



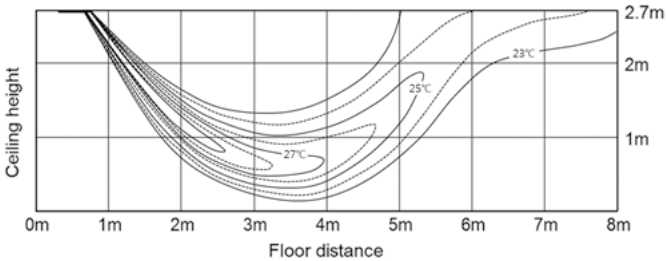
Cooling temperature distribution Discharge angle : 60˚



Heating Air Velocity distribution Discharge angle : 60˚



Heating temperature distribution Discharge angle : 60˚

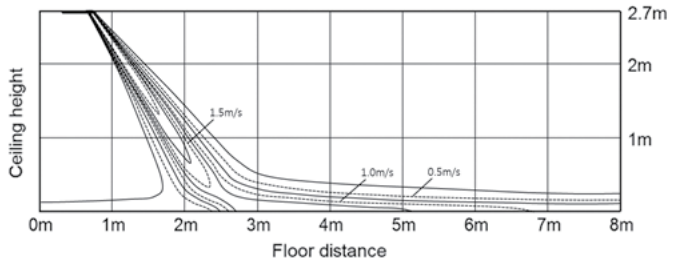


8.Temperature and air flow distribution

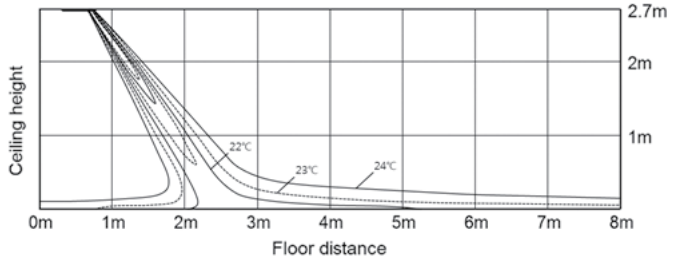
WindFree™ 1Way Cassette

- AM056DN1DKG/EU

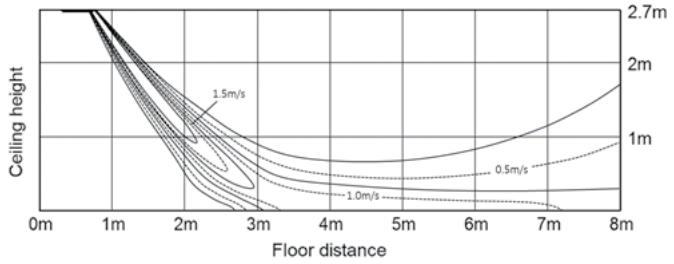
Cooling Air Velocity distribution Discharge angle : 60˚



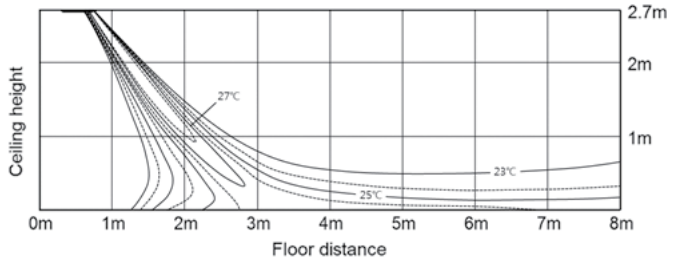
Cooling temperature distribution Discharge angle : 60˚



Heating Air Velocity distribution Discharge angle : 60˚



Heating temperature distribution Discharge angle : 60˚

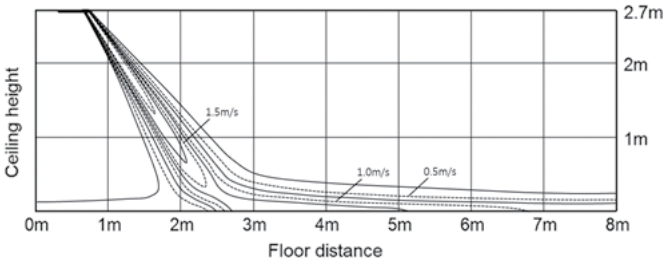


8.Temperature and air flow distribution

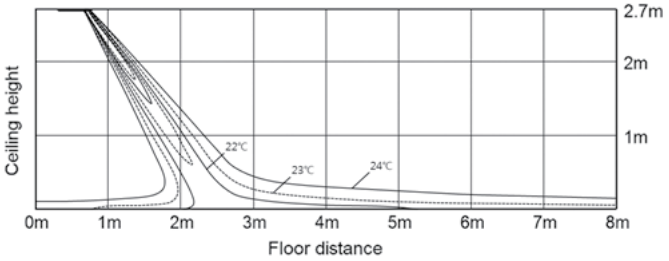
WindFree™ 1Way Cassette

- AM071DN1DKG/EU

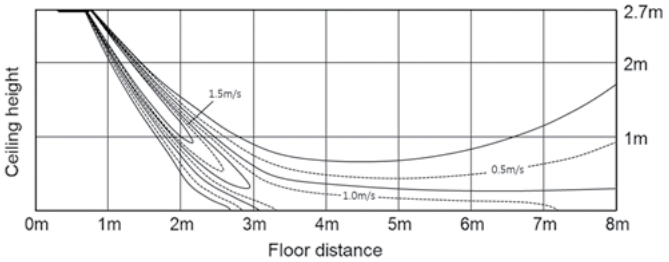
Cooling Air Velocity distribution Discharge angle : 60˚



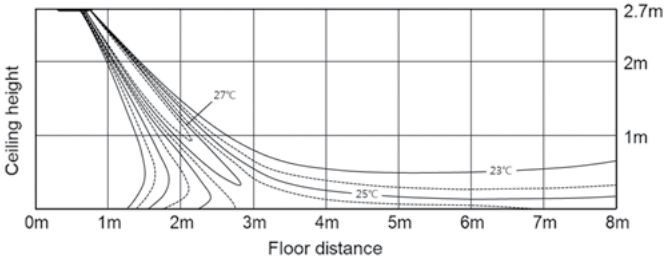
Cooling temperature distribution Discharge angle : 60˚



Heating Air Velocity distribution Discharge angle : 60˚

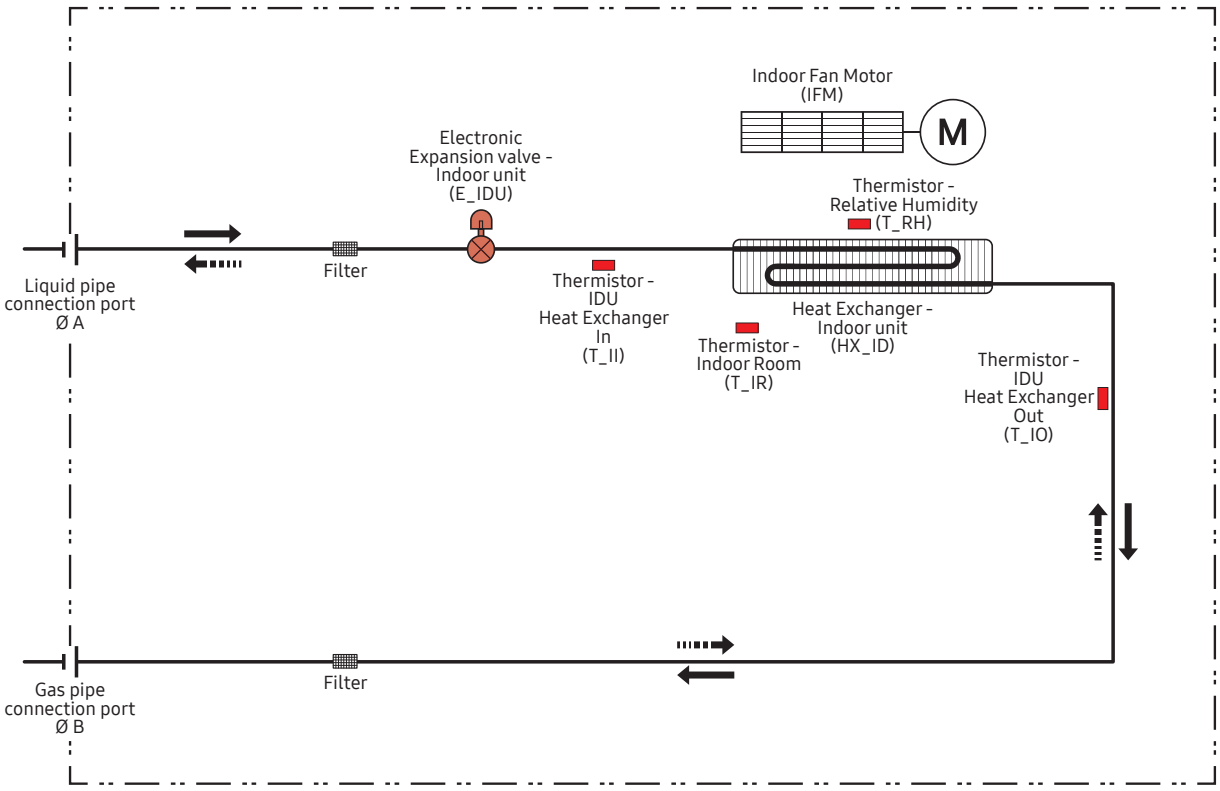


Heating temperature distribution Discharge angle : 60˚



9. Piping Diagram

WindFree™ 1Way Cassette



Refrigerant flow	
Cooling	Heating
→	⇢

WindFree™ 4Way Cassette (600x600)

Line-up

WindFree™ 4Way Cassette (600x600)

Capacity (kW)						
1.5	2.2	2.8	3.6	4.5	5.6	6.0
						

1. Specification

WindFree™ 4Way Cassette (600x600)

Model Name				AM015DNNDKG/EU	AM022DNNDKG/EU	AM028DNNDKG/EU	AM036DNNDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Performance	Capacity	Cooling	kW	1.50	2.20	2.80	3.60
			Btu/h	5,100	7,500	9,600	12,300
		Heating	kW	1.70	2.50	3.20	4.00
			Btu/h	5,800	8,500	10,900	13,600
Power	Power Input	Cooling	W	18.00	18.00	18.00	20.00
		Heating		18.00	18.00	18.00	20.00
	Current Input	Cooling	A	0.17	0.17	0.17	0.19
		Heating		0.17	0.17	0.17	0.19
	Current	MCA	A	0.23	0.23	0.23	0.25
		MFA		15	15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1	1
	Air Flow Rate	H/M/L	CMM	8.5/7.2/6.5	9.0/7.7/6.5	10.0/8.5/7.5	10.5/9.0/7.5
			l/s	142/120/108	150/128/108	167/142/125	175/150/125
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	6.35	6.35
			Φ, inch	1/4	1/4	1/4	1/4
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ,mm	12.7	12.7	12.7	12.7
			Φ, inch	1/2	1/2	1/2	1/2
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)

1. Specification

WindFree™ 4Way Cassette (600x600)

Model Name				AM015DNNDKG/EU	AM022DNNDKG/EU	AM028DNNDKG/EU	AM036DNNDKG/EU
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	30/28/23	32/29/25	33/30/26	34/30/26
	Sound Power	Cooling		46	47	50	51
Dimensions	Net Weight		kg	11.5	11.6	11.6	11.6
	Shipping Weight		kg	13.6	13.8	13.8	13.8
	Net Dimensions (W×H×D)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
	Shipping Dimensions (W×H×D)		mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653
Panel	Model Name		-	PC4SUFMANW	PC4SUFMANW	PC4SUFMANW	PC4SUFMANW
	Type		-	Wind-Free Type	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS	HIPS	HIPS
	Color		-	White	White	White	White
	Net Weight		kg	2.7	2.7	2.7	2.7
	Shipping Weight		kg	3.9	3.9	3.9	3.9
	Net Dimensions (W×H×D)		mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620
	Shipping Dimensions (W×H×D)		mm	670 x 120 x 655	670 x 120 x 655	670 x 120 x 655	670 x 120 x 655
Drain Pump	Drain Pump		-	INCLUDED	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement		mm / Liter/h	750 / 24	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

WindFree™ 4Way Cassette (600x600)

Model Name				AM045DNNDKG/EU	AM056DNNDKG/EU	AM060DNNDKG/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	4.50	5.60	6.00
			Btu/h	15,400	19,100	20,500
		Heating	kW	5.00	6.30	6.80
			Btu/h	17,100	21,500	23,200
Power	Power Input	Cooling	W	23.00	28.00	31.00
		Heating		23.00	28.00	31.00
	Current Input	Cooling	A	0.22	0.27	0.30
		Heating		0.22	0.27	0.30
	Current	MCA	A	0.29	0.35	0.39
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	11.5/10.2/9.0	13.0/11.0/9.5	13.5/12.0/10.2
			l/s	192/170/150	217/183/158	225/200/170
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4	1/4	1/4
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	12.7	12.7	12.7
			Φ, inch	1/2	1/2	1/2
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)

1. Specification

WindFree™ 4Way Cassette (600x600)

Model Name				AM045DNNDKG/EU	AM056DNNDKG/EU	AM060DNNDKG/EU
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L	dB(A)	36/34/32	39/36/33	40/38/35
	Sound Power	Cooling		53	56	57
Dimensions	Net Weight		kg	12	12	12
	Shipping Weight		kg	14	14	14
	Net Dimensions (W×H×D)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
	Shipping Dimensions (W×H×D)		mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653
Panel	Model Name		-	PC4SUFMANW	PC4SUFMANW	PC4SUFMANW
	Type		-	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material		-	HIPS	HIPS	HIPS
	Color		-	White	White	White
	Net Weight		kg	2.7	2.7	2.7
	Shipping Weight		kg	3.9	3.9	3.9
	Net Dimensions (W×H×D)		mm	620 x 34 x 620	620 x 34 x 620	620 x 34 x 620
	Shipping Dimensions (W×H×D)		mm	670 x 120 x 655	670 x 120 x 655	670 x 120 x 655
Drain Pump	Drain Pump		-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement		mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

2. Summary Table

WindFree™ 4Way Cassette (600x600)

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity (kW)			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
AM015DNNDKG/EU	11.5	High	1.5	1.0	1.7	8.5	30	46
		Mid	1.3	0.9	1.6	7.2	28	-
		Low	1.2	0.8	1.5	6.5	23	-
		W/Free	0.8	0.6	-	3.5	23	-
AM022DNNDKG/EU	11.6	High	2.2	1.5	2.5	9.0	32	47
		Mid	1.9	1.3	2.3	7.7	29	-
		Low	1.6	1.1	2.1	6.5	25	-
		W/Free	1.1	0.8	-	3.6	25	-
AM028DNNDKG/EU	11.6	High	2.8	2.0	3.2	10.0	33	50
		Mid	2.4	1.7	3.0	8.5	30	-
		Low	2.2	1.6	2.8	7.5	26	-
		W/Free	1.3	1.0	-	3.8	26	-
AM036DNNDKG/EU	11.6	High	3.6	2.5	4.0	10.5	34	51
		Mid	3.1	2.2	3.7	9.0	30	-
		Low	2.7	1.9	3.4	7.5	26	-
		W/Free	1.7	1.2	-	4.4	26	-
AM045DNNDKG/EU	12.0	High	4.5	3.1	5.0	11.5	36	53
		Mid	4.1	2.8	4.7	10.2	34	-
		Low	3.6	2.5	4.4	9.0	32	-
		W/Free	2.2	1.6	-	4.6	32	-
AM056DNNDKG/EU	12.0	High	5.6	4.2	6.3	13.0	39	56
		Mid	4.8	3.6	5.8	11.0	36	-
		Low	4.2	3.2	5.4	9.5	33	-
		W/Free	2.6	1.9	-	4.8	33	-
AM060DNNDKG/EU	12.0	High	6.0	4.5	6.8	13.5	40	57
		Mid	5.4	4.1	6.4	12.0	38	-
		Low	4.7	3.5	5.9	10.2	35	-
		W/Free	2.8	2.1	-	5.0	33	-

NOTE

- Sound data is based on cooling operation.

Electrical Characteristics

Indoor Unit	Power Supply (Ø, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM015DNNDKG/EU	1,2,220-240,50/60	18.0	0.17	0.23	15	0.18
AM022DNNDKG/EU	1,2,220-240,50/60	18.0	0.17	0.23	15	0.18
AM028DNNDKG/EU	1,2,220-240,50/60	18.0	0.17	0.23	15	0.18
AM036DNNDKG/EU	1,2,220-240,50/60	20.0	0.19	0.25	15	0.20
AM045DNNDKG/EU	1,2,220-240,50/60	23.0	0.22	0.29	15	0.23
AM056DNNDKG/EU	1,2,220-240,50/60	28.0	0.27	0.35	15	0.28
AM060DNNDKG/EU	1,2,220-240,50/60	31.0	0.30	0.39	15	0.31

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

WindFree™ 4Way Cassette (600x600)

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor temperature (ºC, DB)	Indoor temperature (ºC, WB)													
		14.0		16.0		18.0		19.0		20.0		22.0		24.0	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1.50	35	1.00	0.90	1.20	1.00	1.40	1.10	1.50	1.00	1.60	1.00	1.70	1.00	1.80	1.00
2.20	35	1.50	1.30	1.80	1.40	2.10	1.50	2.20	1.50	2.30	1.50	2.40	1.50	2.60	1.40
2.80	35	1.90	1.70	2.30	1.80	2.60	2.00	2.80	2.00	2.90	2.00	3.10	2.00	3.30	1.80
3.60	35	2.50	2.10	2.90	2.20	3.40	2.40	3.60	2.50	3.70	2.50	4.00	2.50	4.20	2.30
4.50	35	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.30	2.80
5.60	35	3.90	3.30	4.60	3.80	5.30	4.10	5.60	4.20	5.80	4.20	6.20	4.20	6.60	4.00
6.00	35	4.10	3.50	4.90	4.00	5.60	4.50	6.00	4.50	6.20	4.50	6.60	4.50	7.10	4.30

Heating

TC : Total Capacity (kW)

Model	Outdoor temperature (ºC)		Indoor temperature (ºC, DB)				
			16.0	18.0	20.0	22.0	24.0
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
1.50	7	6	1.70	1.70	1.70	1.60	1.40
2.20	7	6	2.80	2.70	2.50	2.30	2.20
2.80	7	6	3.30	3.20	3.20	3.00	2.70
3.60	7	6	4.10	4.10	4.00	3.70	3.40
4.50	7	6	5.10	5.10	5.00	4.60	4.20
5.60	7	6	6.50	6.40	6.30	5.80	5.30
6.00	7	6	7.20	7.10	6.80	6.50	5.90

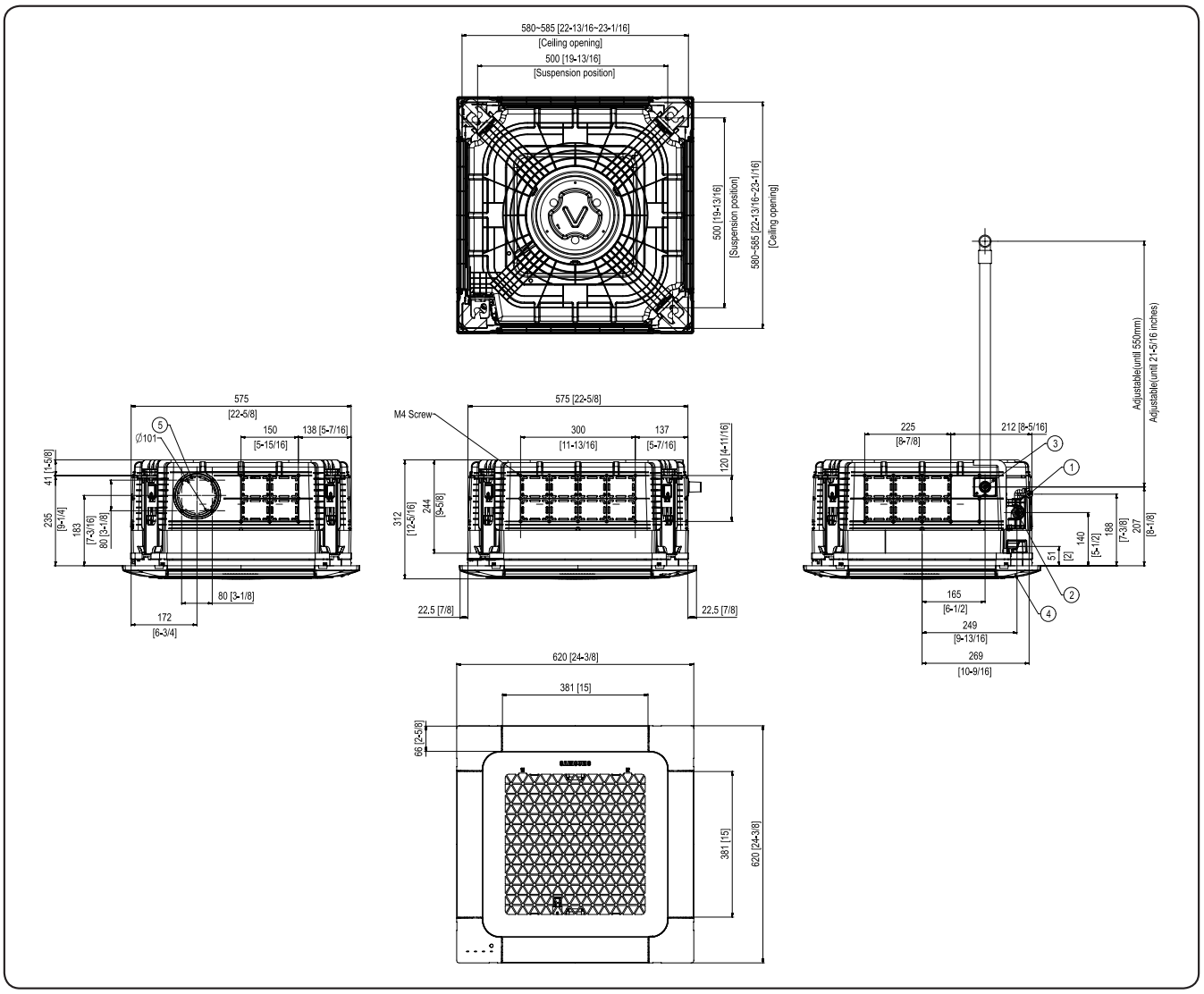
NOTE

- The performance table shows the average value of each conditions.

4. Dimensional Drawing

WindFree™ 4Way Cassette (600x600)

Units : mm [inches]



No.	Name	Description
1	Liquid pipe connection	Φ6.35(1/4)
2	Gas pipe connection	Φ12.7(1/2)
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	Use M4 Screw
5	Fresh air intake knockout hole	Φ10[4] , Use M4 Screw

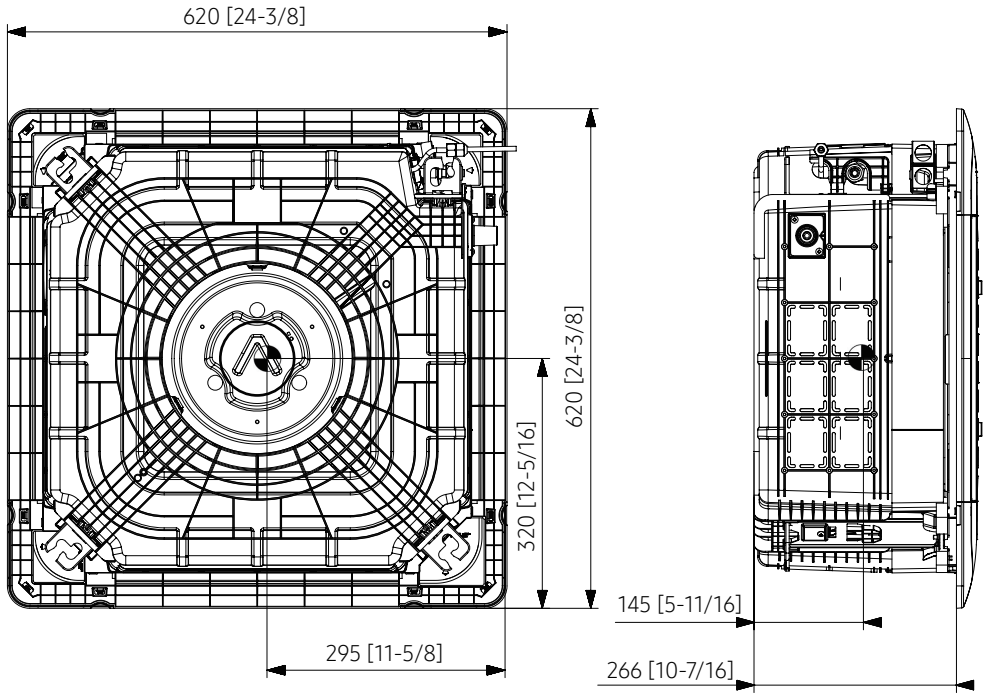
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

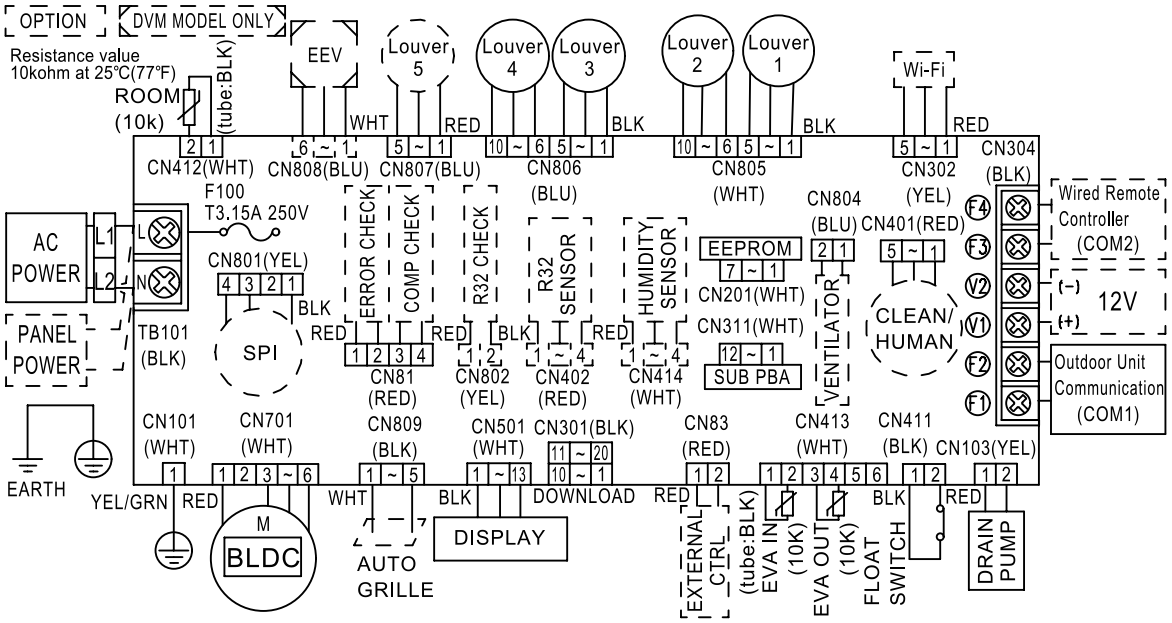
WindFree™ 4Way Cassette (600x600)

Units : mm [inches]



6. Electrical Wiring Diagram

WindFree™ 4Way Cassette (600x600)



F100	FUSE	EEV	Electronic Expansion Valve	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-IN(10K)	Thermistor EVA IN(10K)
				EVA-OUT(10K)	Thermistor EVA OUT(10K)

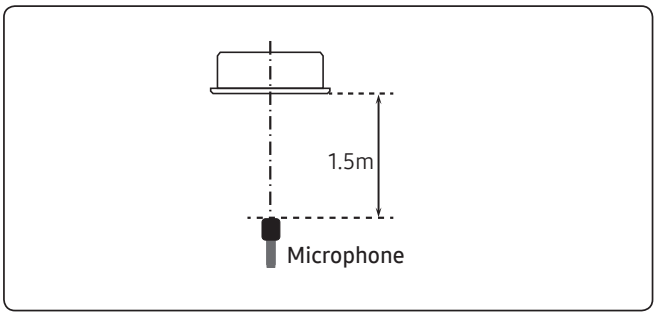
NOTE

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

7. Sound Data

WindFree™ 4Way Cassette (600x600)

Sound Pressure level

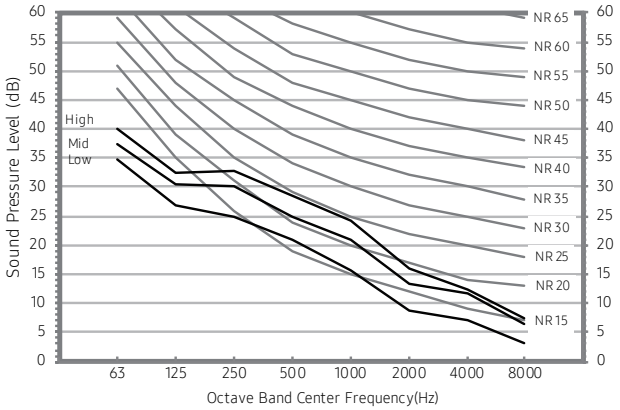


Unit: dB(A)

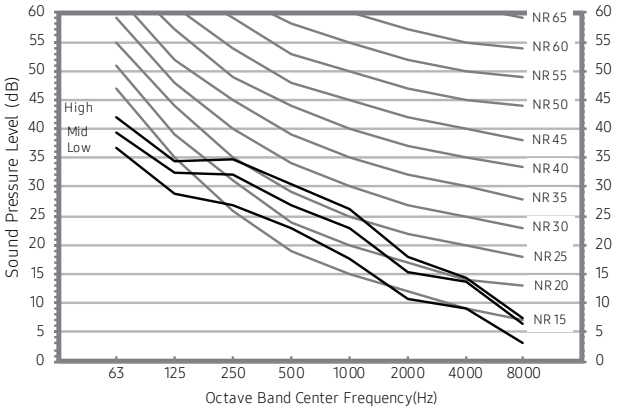
Model	High	MID	LOW
AM015DNNDKG/EU	30	28	23
AM022DNNDKG/EU	32	29	25
AM028DNNDKG/EU	33	30	26
AM036DNNDKG/EU	34	30	26

- NR Curve

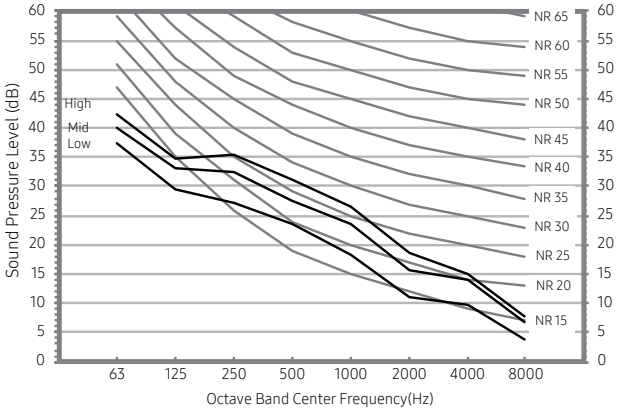
1) AM015DNNDKG/EU



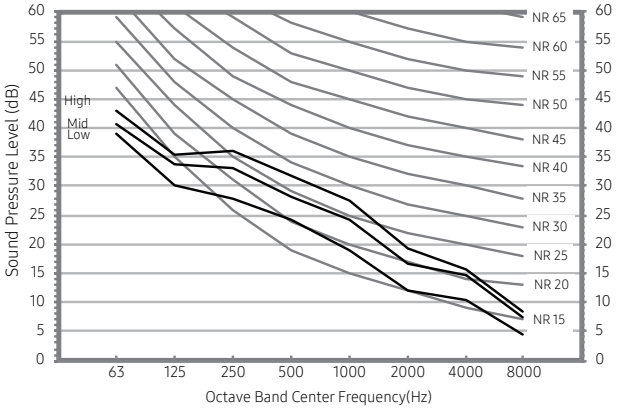
2) AM022DNNDKG/EU



3) AM028DNNDKG/EU



4) AM036DNNDKG/EU



NOTE

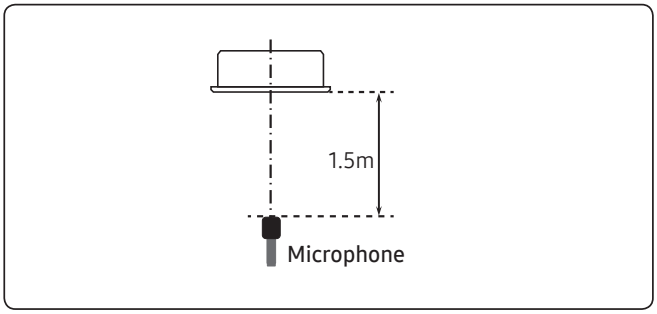
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

7. Sound Data

WindFree™ 4Way Cassette (600x600)

Sound Pressure level

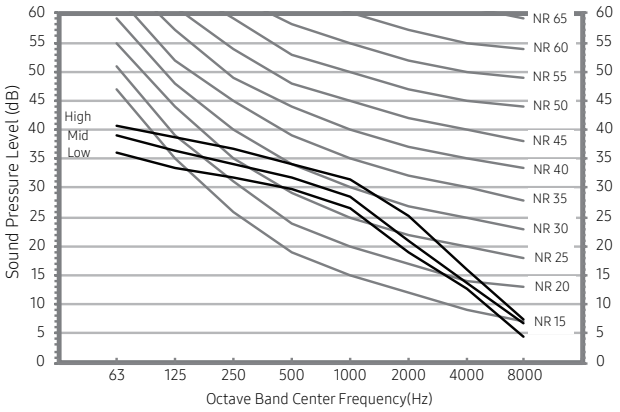
Unit: dB(A)



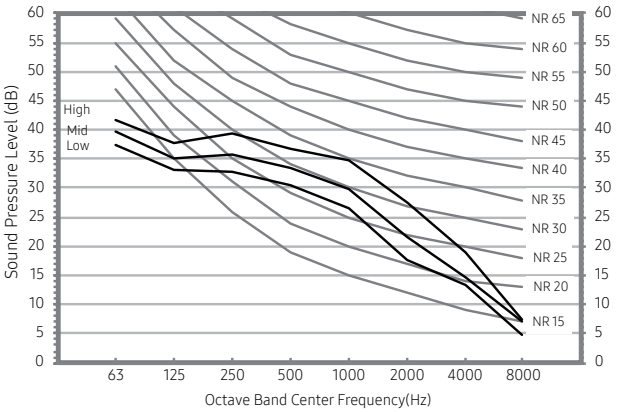
Model	High	MID	LOW
AM045DNNDKG/EU	36	34	32
AM056DNNDKG/EU	39	36	33
AM060DNNDKG/EU	40	38	35

- NR Curve

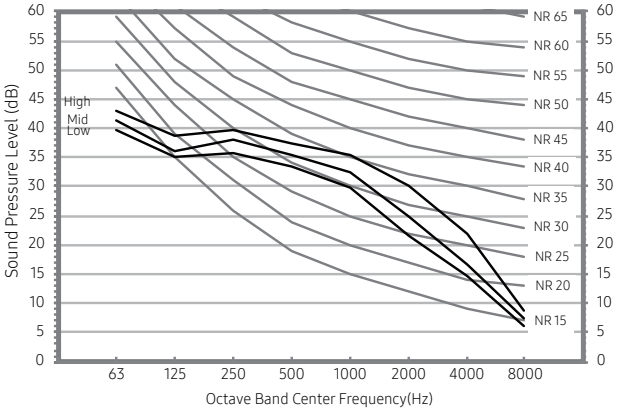
5) AM045DNNDKG/EU



6) AM056DNNDKG/EU



7) AM060DNNDKG/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

WindFree™ 4Way Cassette (600x600)

Sound Power level

NOTE

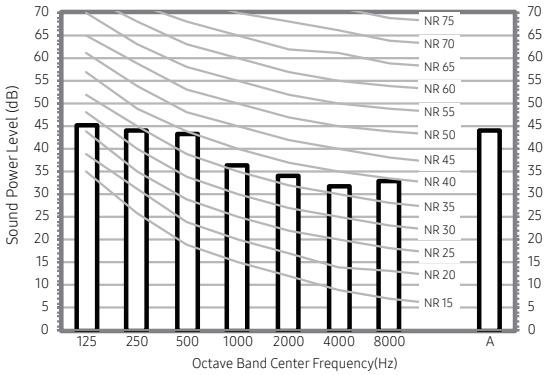
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

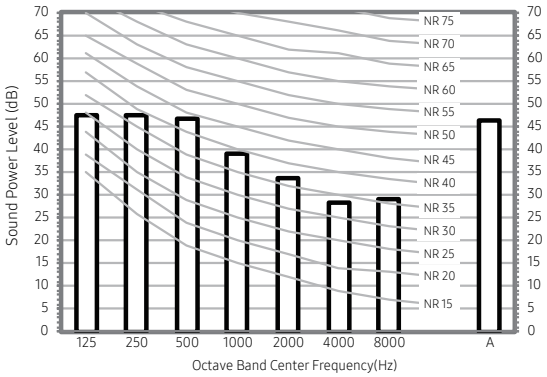
Model	Power
AM015DNNDKG/EU	46
AM022DNNDKG/EU	47
AM028DNNDKG/EU	50
AM036DNNDKG/EU	51

- NR Curve

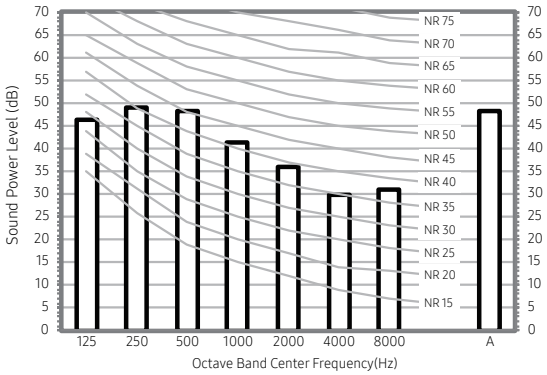
1) AM015DNNDKG/EU



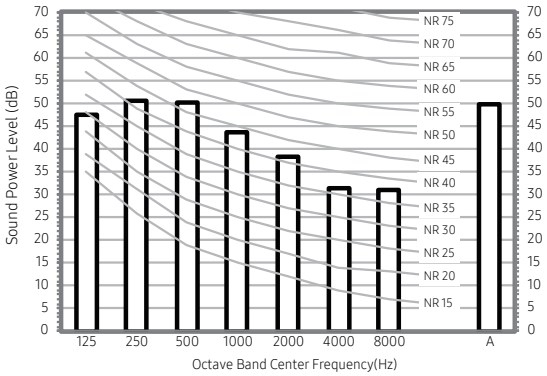
2) AM022DNNDKG/EU



3) AM028DNNDKG/EU



4) AM036DNNDKG/EU



7. Sound Data

WindFree™ 4Way Cassette (600x600)

Sound Power level

NOTE

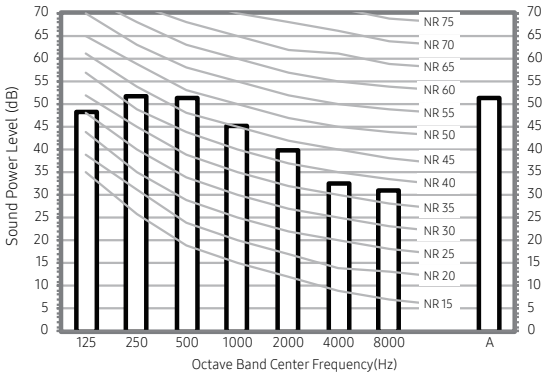
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

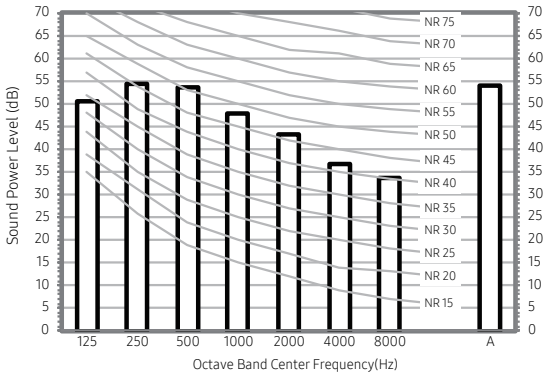
Model	Power
AM045DNNDKG/EU	53
AM056DNNDKG/EU	56
AM060DNNDKG/EU	57

- NR Curve

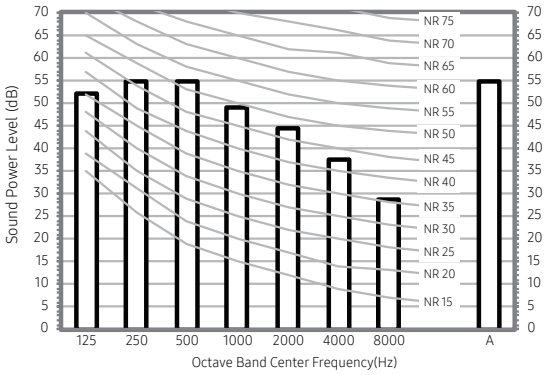
5) AM045DNNDKG/EU



6) AM056DNNDKG/EU



7) AM060DNNDKG/EU

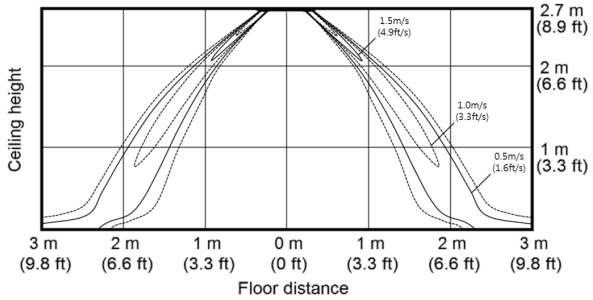


8.Temperature and air flow distribution

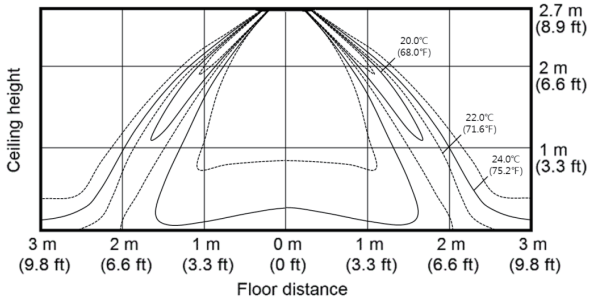
WindFree™ 4Way Cassette (600x600)

AM015DNNDKG/EU

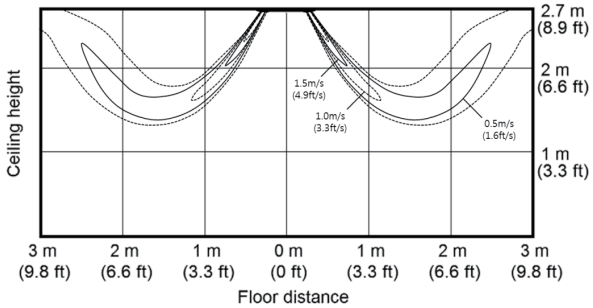
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



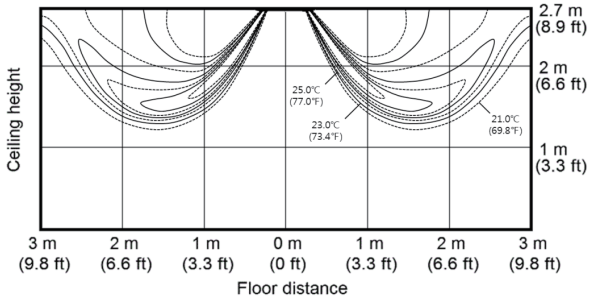
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)

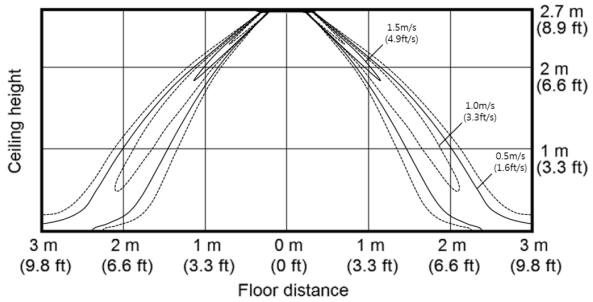


- Heating temperature distribution
  (Discharge angle : 56 degree)

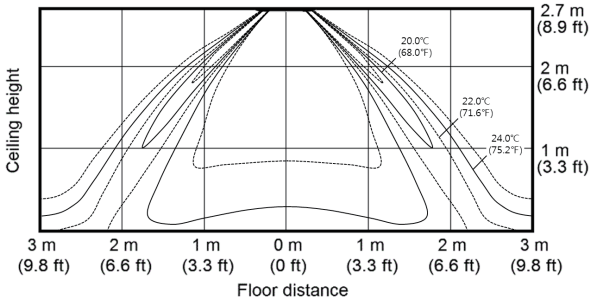


AM022DNNDKG/EU

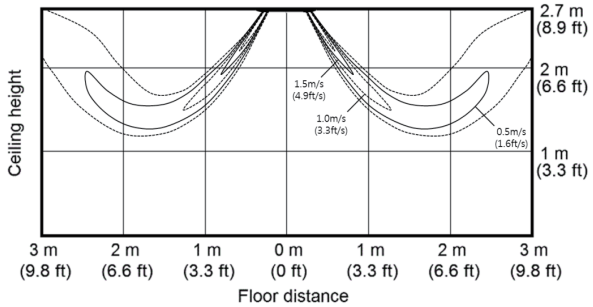
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



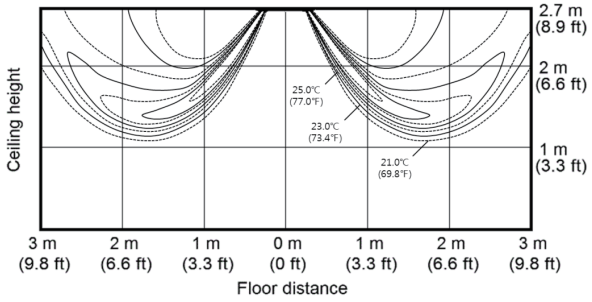
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)



- Heating temperature distribution
  (Discharge angle : 56 degree)

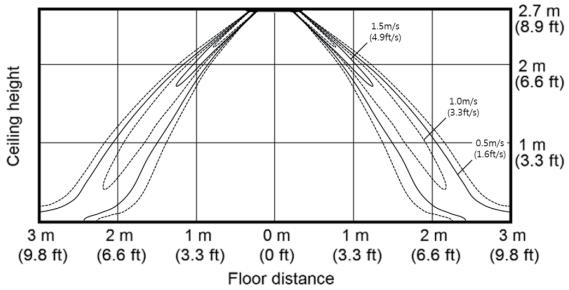


8.Temperature and air flow distribution

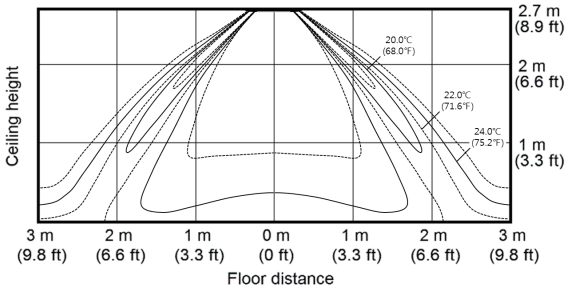
WindFree™ 4Way Cassette (600x600)

AM028DNNDKG/EU

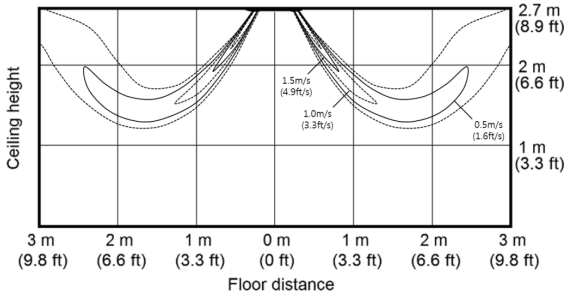
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



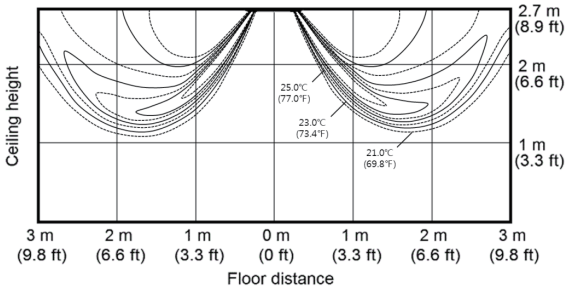
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)

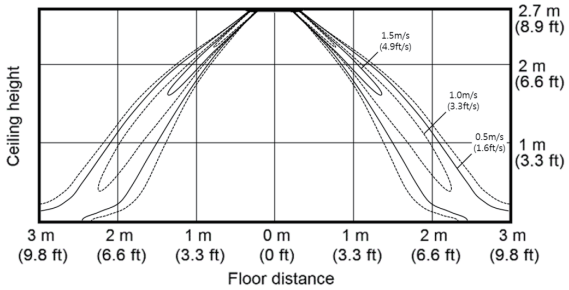


- Heating temperature distribution
  (Discharge angle : 56 degree)

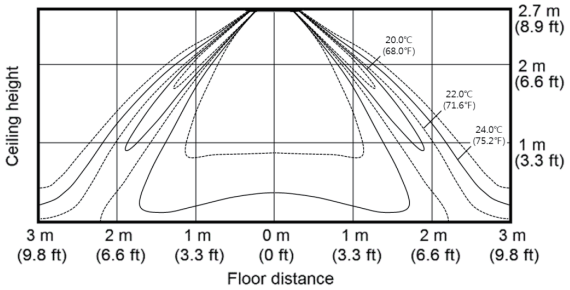


AM036DNNDKG/EU

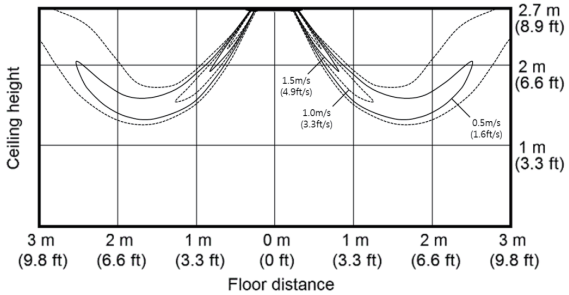
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



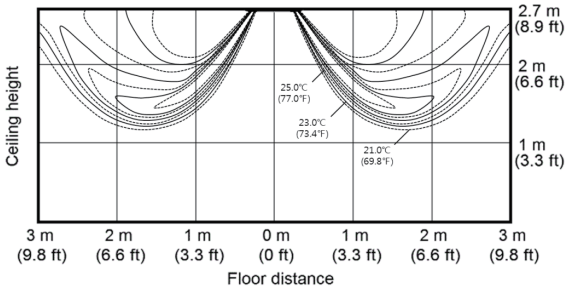
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)



- Heating temperature distribution
  (Discharge angle : 56 degree)

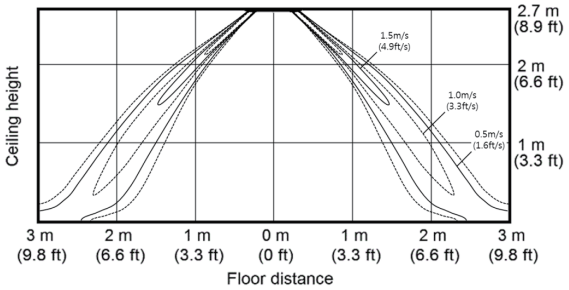


8.Temperature and air flow distribution

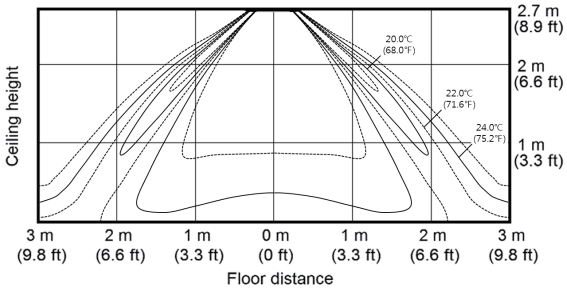
WindFree™ 4Way Cassette (600x600)

AM045DNNDKG/EU

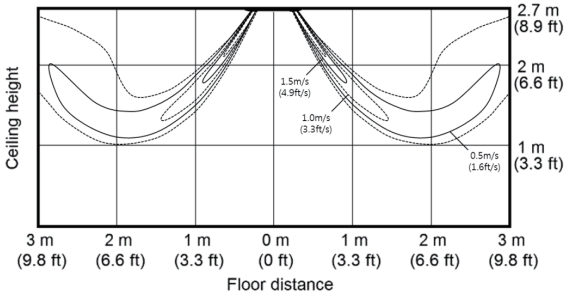
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



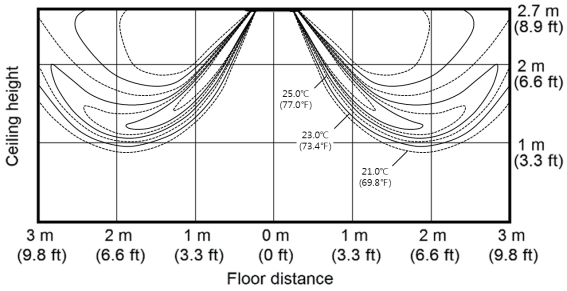
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)

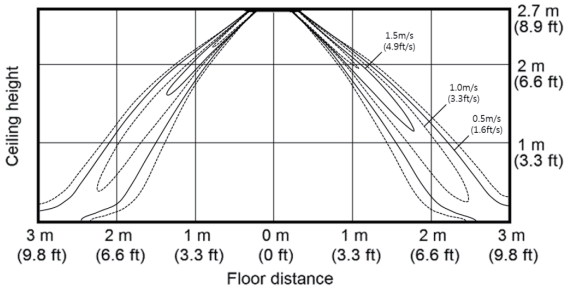


- Heating temperature distribution
  (Discharge angle : 56 degree)

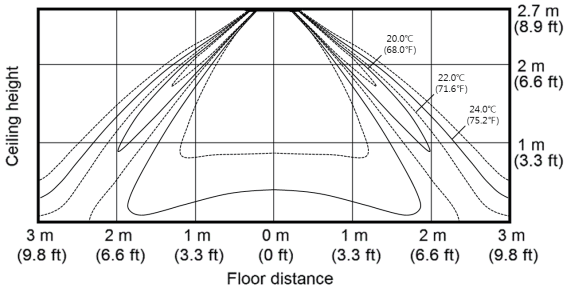


AM056DNNDKG/EU

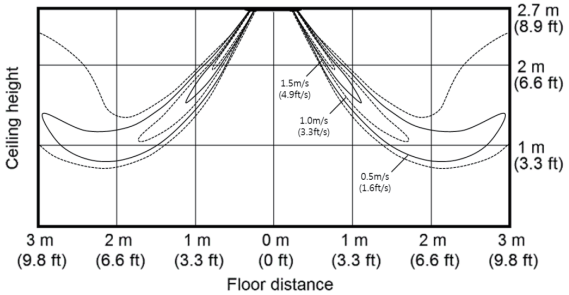
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



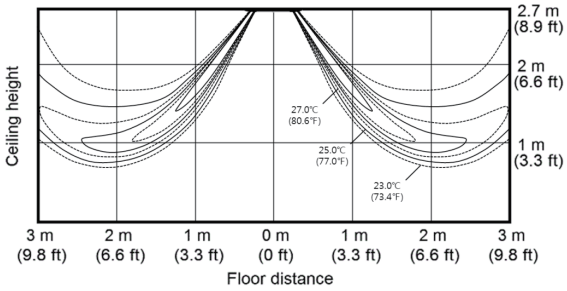
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)



- Heating temperature distribution
  (Discharge angle : 56 degree)

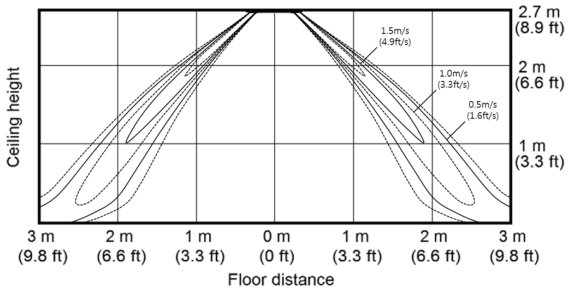


8.Temperature and air flow distribution

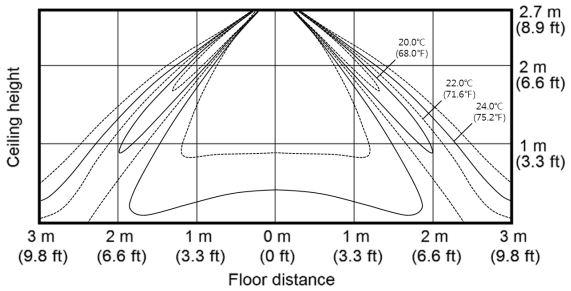
WindFree™ 4Way Cassette (600x600)

AM060DNNDKG/EU

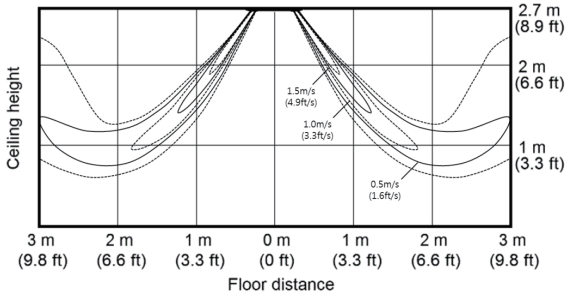
- Cooling Air Velocity distribution
  (Discharge angle : 41 degree)



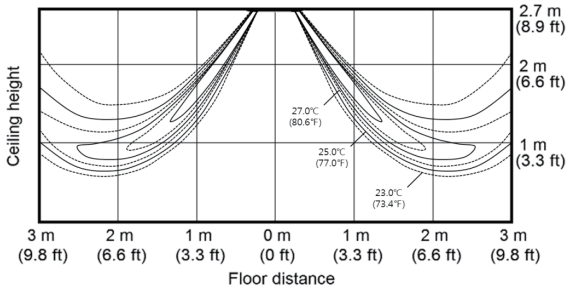
- Cooling temperature distribution
  (Discharge angle : 41 degree)



- Heating Air Velocity distribution
  (Discharge angle : 56 degree)

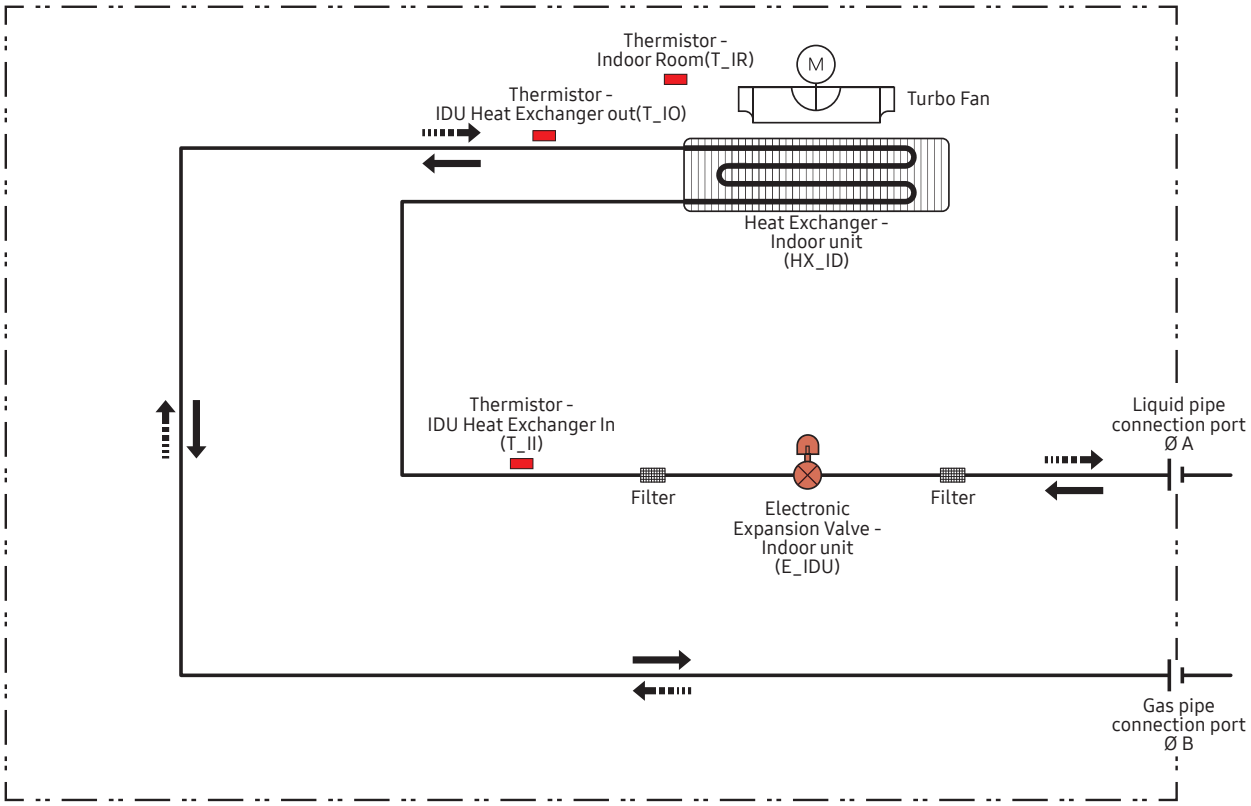


- Heating temperature distribution
  (Discharge angle : 56 degree)



9. Piping Diagram

WindFree™ 4Way Cassette (600x600)



Refrigerant flow	
Cooling	Heating
→	⇢

WindFree™ 4Way Cassette

Line-up

WindFree™ 4Way Cassette

Deluxe

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

Flagship

Capacity (kW)					
2.2	2.8	3.6	4.5	5.6	7.1
					

1. Specification

WindFree™ 4Way Cassette

Model Name				AM028DN4DKG/EU	AM036DN4DKG/EU	AM045DN4DKG/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	2.80	3.60	4.50
			Btu/h	9,600	12,300	15,400
		Heating	kW	3.20	4.00	5.00
			Btu/h	10,900	13,600	17,100
Power	Power Input	Cooling	W	24.00	26.00	28.00
		Heating		24.00	26.00	28.00
	Current Input	Cooling	A	0.25	0.27	0.30
		Heating		0.25	0.27	0.30
	Current	MCA	A	0.33	0.36	0.40
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	14.4 / 13.4 / 12.4	15.4 / 14.4 / 13.4	16.3 / 15.4 / 14.4
			l/s	240.0 / 223.3 / 206.7	255.0 / 240.0 / 223.3	271.7 / 256.7 / 240.0
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4	1/4	1/4
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	12.70	12.70	12.70
			Φ, inch	1/2	1/2	1/2
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L/W	dB(A)	30 / 28 / 27 / 27	31 / 30 / 28 / 28	33 / 31 / 29 / 29
	Sound Power	Cooling		46	47	49
Dimensions	Net Weight		kg	15.0	15.0	15.0
	Shipping Weight		kg	18.5	18.5	19.0
	Net Dimensions (W×H×D)		mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
	Shipping Dimensions (W×H×D)		mm	898 x 275 x 898	898 x 275 x 898	898 x 275 x 898

1. Specification

WindFree™ 4Way Cassette

Model Name			AM028DN4DKG/EU	AM036DN4DKG/EU	AM045DN4DKG/EU
Panel	Model Name	-	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW
	Type	-	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	6.2	6.2	6.2
	Shipping Weight	kg	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (W×H×D)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

WindFree™ 4Way Cassette

Model Name				AM056DN4DKG/EU	AM071DN4DKG/EU	AM090DN4DKG/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	5.60	7.10	9.00
			Btu/h	19,100	24,200	30,700
		Heating	kW	6.30	8.00	10.00
			Btu/h	21,500	27,300	34,100
Power	Power Input	Cooling	W	32.00	34.00	55.00
		Heating		32.00	34.00	55.00
	Current Input	Cooling	A	0.32	0.35	0.45
		Heating		0.32	0.35	0.45
	Current	MCA	A	0.43	0.47	0.60
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	16.4 / 14.6 / 12.8	18.2 / 15.4 / 12.8	24.4 / 19.9 / 15.5
			l/s	273.3 / 243.3 / 213.3	303.3 / 256.7 / 213.3	406.7 / 331.7 / 258.3
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	9.52	9.52
			Φ, inch	1/4	3/8	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	12.70	15.88	15.88
			Φ, inch	1/2	5/8	5/8
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L/W	dB(A)	35 / 33 / 29 / 29	37 / 34 / 30 / 30	39 / 35 / 30 / 30
	Sound Power	Cooling		51	53	55
Dimensions	Net Weight		kg	16.5	16.5	18.0
	Shipping Weight		kg	20.5	20.5	22.0
	Net Dimensions (W×H×D)		mm	840 x 204 x 840	840 x 204 x 840	840 x 246 x 840
	Shipping Dimensions (W×H×D)		mm	898 x 275 x 898	898 x 275 x 898	898 x 316 x 898

1. Specification

WindFree™ 4Way Cassette

Model Name			AM056DN4DKG/EU	AM071DN4DKG/EU	AM090DN4DKG/EU
Panel	Model Name	-	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW
	Type	-	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	6.2	6.2	6.2
	Shipping Weight	kg	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (W×H×D)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

WindFree™ 4Way Cassette

Model Name				AM112DN4DKG/EU	AM128DN4DKG/EU	AM140DN4DKG/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	11.20	12.80	14.00
			Btu/h	38,200	43,700	47,800
		Heating	kW	12.50	13.80	16.00
			Btu/h	42,700	47,100	54,600
Power	Power Input	Cooling	W	78.00	95.00	115.00
		Heating		78.00	95.00	115.00
	Current Input	Cooling	A	0.60	0.75	0.85
		Heating		0.60	0.75	0.85
	Current	MCA	A	0.80	1.00	1.13
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	26.6 / 21.0 / 15.5	35.4 / 29.2 / 24.3	37.9 / 31.7 / 25.5
			l/s	443.3 / 350.0 / 258.3	590 / 486.7 / 405	631.7 / 528.3 / 425
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	97 x 1	97 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8	3/8	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8	5/8	5/8
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L/W	dB(A)	41 / 36 / 30 / 30	42 / 37 / 35 / 35	44 / 39 / 35 / 35
	Sound Power	Cooling		59	58	60
Dimensions	Net Weight		kg	19.0	21.5	22.5
	Shipping Weight		kg	23.0	25.5	26.5
	Net Dimensions (W×H×D)		mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (W×H×D)		mm	898 x 316 x 898	898 x 357 x 898	898 x 357 x 898

1. Specification

WindFree™ 4Way Cassette

Model Name			AM112DN4DKG/EU	AM128DN4DKG/EU	AM140DN4DKG/EU
Panel	Model Name	-	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW
	Type	-	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	6.2	6.2	6.2
	Shipping Weight	kg	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (W×H×D)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

WindFree™ 4Way Cassette

Model Name				AM022DN4FKG/EU	AM028DN4FKG/EU	AM036DN4FKG/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	2.20	2.80	3.60
			Btu/h	7,500	9,600	12,300
		Heating	kW	2.50	3.20	4.00
			Btu/h	8,500	10,900	13,600
Power	Power Input	Cooling	W	17.00	20.00	27.00
		Heating		17.00	20.00	27.00
	Current Input	Cooling	A	0.14	0.17	0.23
		Heating		0.14	0.17	0.23
	Current	MCA	A	0.29	0.33	0.41
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	13.0 / 12.0 / 11.0	14.0 / 13.0 / 12.0	16.0 / 15.0 / 14.0
			l/s	217 / 200 / 183	233 / 217 / 200	267 / 250 / 233
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4	1/4	1/4
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	12.7	12.7	12.7
			Φ, inch	1/2	1/2	1/2
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L/W	dB(A)	32 / 30 / 29 / 29	33 / 31 / 30 / 30	34 / 33 / 31 / 31
	Sound Power	Cooling		48	49	50
Dimensions	Net Weight		kg	18.0	18.0	18.0
	Shipping Weight		kg	22.0	22.0	22.0
	Net Dimensions (W×H×D)		mm	840 x 246 x 840	840 x 246 x 840	840 x 246 x 840
	Shipping Dimensions (W×H×D)		mm	898 x 316 x 898	898 x 316 x 898	898 x 316 x 898

1. Specification

WindFree™ 4Way Cassette

Model Name			AM022DN4FKG/EU	AM028DN4FKG/EU	AM036DN4FKG/EU
Panel	Model Name	-	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW
	Type	-	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	6.2	6.2	6.2
	Shipping Weight	kg	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (W×H×D)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

WindFree™ 4Way Cassette

Model Name				AM045DN4FKG/EU	AM056DN4FKG/EU	AM071DN4FKG/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	4.50	5.60	7.10
			Btu/h	15,400	19,100	24,200
		Heating	kW	5.00	6.30	8.00
			Btu/h	17,100	21,500	27,300
Power	Power Input	Cooling	W	35.00	49.00	75.00
		Heating		35.00	49.00	75.00
	Current Input	Cooling	A	0.29	0.38	0.58
		Heating		0.29	0.38	0.58
	Current	MCA	A	0.49	0.57	0.56
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	18.0 / 16.0 / 14.0	24.0 / 21.0 / 19.0	31.0 / 26.0 / 21.0
			l/s	300 / 267 / 233	400 / 350 / 317	517 / 433 / 350
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	97 x 1	97 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	9.52
			Φ, inch	1/4	1/4	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	12.7	12.7	15.88
			Φ, inch	1/2	1/2	5/8
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	H/M/L/W	dB(A)	34 / 32 / 30 / 30	35 / 33 / 29 / 29	39 / 36 / 32 / 32
	Sound Power	Cooling		50	51	55
Dimensions	Net Weight		kg	18.0	21.5	22.5
	Shipping Weight		kg	22.0	25.5	26.5
	Net Dimensions (W×H×D)		mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (W×H×D)		mm	898 x 316 x 898	898 x 357 x 898	898 x 357 x 898

1. Specification

WindFree™ 4Way Cassette

Model Name			AM045DN4FKG/EU	AM056DN4FKG/EU	AM071DN4FKG/EU
Panel	Model Name	-	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW
	Type	-	Wind-Free Type	Wind-Free Type	Wind-Free Type
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	6.2	6.2	6.2
	Shipping Weight	kg	8.4	8.4	8.4
	Net Dimensions (W×H×D)	mm	950 x 48 x 950	950 x 48 x 950	950 x 48 x 950
	Shipping Dimensions (W×H×D)	mm	1,010 x 117 x 1,000	1,010 x 117 x 1,000	1,010 x 117 x 1,000
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

2. Summary Table

WindFree™ 4Way Cassette

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity (kW)			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
AM028DN4DKG/EU	15.0	High	2.8	2.0	3.2	14.4	30	46
		Mid	2.4	1.7	3.0	13.4	28	-
		Low	2.2	1.6	2.8	12.4	27	-
		W/Free	1.3	1.0	-	7.3	27	-
AM036DN4DKG/EU	15.0	High	3.6	2.5	4.0	15.4	31	47
		Mid	3.1	2.2	3.7	14.4	30	-
		Low	2.7	1.9	3.4	13.4	28	-
		W/Free	1.7	1.2	-	7.7	28	-
AM045DN4DKG/EU	15.0	High	4.5	3.1	5.0	16.3	33	49
		Mid	4.2	2.9	4.8	15.4	31	-
		Low	4.0	2.7	4.6	14.4	29	-
		W/Free	2.2	1.8	-	8.0	29	-
AM056DN4DKG/EU	16.5	High	5.6	3.9	6.3	16.4	35	51
		Mid	5.3	3.7	6.1	14.6	33	-
		Low	4.9	3.4	5.9	12.8	29	-
		W/Free	2.6	2.2	-	8.0	29	-
AM071DN4DKG/EU	16.5	High	7.1	5.0	8.0	18.2	37	53
		Mid	6.6	4.6	7.6	15.4	34	-
		Low	6.2	4.3	7.4	12.8	30	-
		W/Free	3.3	2.7	-	8.0	30	-
AM090DN4DKG/EU	18.0	High	9.0	6.3	10.0	24.4	39	55
		Mid	8.4	5.8	9.6	19.9	35	-
		Low	7.8	5.4	9.2	15.5	30	-
		W/Free	4.1	3.4	-	10.0	30	-
AM112DN4DKG/EU	19.0	High	11.2	7.9	12.5	26.6	41	59
		Mid	10.5	7.4	12.0	21.0	36	-
		Low	9.7	6.7	11.5	15.5	30	-
		W/Free	5.0	4.2	-	10.0	30	-
AM128DN4DKG/EU	21.5	High	12.8	9.1	13.8	35.4	42	58
		Mid	12.0	8.5	13.3	29.2	37	-
		Low	10.8	7.6	12.5	24.3	35	-
		W/Free	5.8	4.8	-	11.2	35	-
AM140DN4DKG/EU	22.5	High	14.0	9.6	16.0	37.9	44	60
		Mid	13.2	9.0	15.5	31.7	39	-
		Low	12.4	8.4	14.9	25.5	35	-
		W/Free	6.2	5.2	-	11.4	35	-

NOTE

- Sound data is based on cooling operation.

2. Summary Table

WindFree™ 4Way Cassette

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity (kW)			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
AM022DN4FKG/EU	18.0	High	2.2	2.1	2.5	13.0	32	48
		Mid	2.1	2.0	2.4	12.0	30	-
		Low	1.9	1.8	2.3	11.0	29	-
		W/Free	1.1	1.1	-	6.5	29	-
AM028DN4FKG/EU	18.0	High	2.8	2.7	3.2	14.0	33	49
		Mid	2.6	2.5	3.1	13.0	31	-
		Low	2.4	2.3	3.0	12.0	30	-
		W/Free	1.4	1.4	-	7.0	30	-
AM036DN4FKG/EU	18.0	High	3.6	3.4	4.0	16.0	34	50
		Mid	3.4	3.2	3.9	15.0	33	-
		Low	3.2	3.0	3.7	14.0	31	-
		W/Free	1.9	1.9	-	8.5	31	-
AM045DN4FKG/EU	18.0	High	4.5	4.2	5.0	18.0	34	50
		Mid	4.1	3.8	4.7	16.0	32	-
		Low	3.6	3.4	4.4	14.0	30	-
		W/Free	2.1	2.1	-	8.5	30	-
AM056DN4FKG/EU	21.5	High	5.6	5.3	6.3	24.0	35	51
		Mid	5.0	4.7	5.9	21.0	33	-
		Low	4.6	4.4	5.6	19.0	29	-
		W/Free	2.8	2.8	-	12.0	29	-
AM071DN4FKG/EU	22.5	High	7.1	6.7	8.0	31.0	39	55
		Mid	6.1	5.8	7.3	26.0	36	-
		Low	5.0	4.7	6.6	21.0	32	-
		W/Free	2.8	2.8	-	13.0	32	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Indoor Unit	Power Supply (Ø, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM028DN4DKG/EU	1,2,220~240,50/60	24.0	0.25	0.33	15	0.26
AM036DN4DKG/EU	1,2,220~240,50/60	26.0	0.27	0.36	15	0.28
AM045DN4DKG/EU	1,2,220~240,50/60	28.0	0.30	0.40	15	0.31
AM056DN4DKG/EU	1,2,220~240,50/60	32.0	0.32	0.43	15	0.33
AM071DN4DKG/EU	1,2,220~240,50/60	34.0	0.35	0.47	15	0.37
AM090DN4DKG/EU	1,2,220~240,50/60	55.0	0.45	0.60	15	0.47
AM112DN4DKG/EU	1,2,220~240,50/60	78.0	0.60	0.80	15	0.63
AM128DN4DKG/EU	1,2,220~240,50/60	95.0	0.75	1.00	15	0.77
AM140DN4DKG/EU	1,2,220~240,50/60	115.0	0.85	1.13	15	0.88
AM022DN4FKG/EU	1,2,220~240,50/60	17.0	0.14	0.29	15	0.23
AM028DN4FKG/EU	1,2,220~240,50/60	20.0	0.17	0.33	15	0.26
AM036DN4FKG/EU	1,2,220~240,50/60	27.0	0.23	0.41	15	0.33
AM045DN4FKG/EU	1,2,220~240,50/60	35.0	0.29	0.49	15	0.39
AM056DN4FKG/EU	1,2,220~240,50/60	49.0	0.38	0.57	15	0.46
AM071DN4FKG/EU	1,2,220~240,50/60	75.0	0.58	0.56	15	0.69

NOTE

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

3. Capacity Table

WindFree™ 4Way Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Combination, % (Capacity index)	Outdoor temperature (°C, DB)	Indoor temperature (°C)													
		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
AM028DN4DKG/EU	35	1.9	1.7	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.3	1.8
AM036DN4DKG/EU	35	2.5	2.1	2.9	2.3	3.4	2.4	3.6	2.5	3.7	2.5	4.0	2.5	4.2	2.4
AM045DN4DKG/EU	35	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
AM056DN4DKG/EU	35	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
AM071DN4DKG/EU	35	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
AM090DN4DKG/EU	35	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
AM112DN4DKG/EU	35	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
AM128DN4DKG/EU	35	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
AM140DN4DKG/EU	35	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4
AM022DN4FKG/EU	35	1.1	1.1	1.5	1.5	2.0	2.0	2.2	2.1	2.3	2.1	2.6	2.3	2.9	2.4
AM028DN4FKG/EU	35	1.4	1.4	2.0	2.0	2.5	2.5	2.8	2.7	3.0	2.8	3.3	2.9	3.6	3.0
AM036DN4FKG/EU	35	1.8	1.8	2.5	2.5	3.2	3.1	3.6	3.4	3.8	3.5	4.2	3.6	4.7	3.8
AM045DN4FKG/EU	35	2.3	2.3	3.2	3.2	4.1	3.9	4.5	4.2	4.8	4.3	5.3	4.5	5.9	4.7
AM056DN4FKG/EU	35	2.8	2.8	3.9	3.9	5.0	4.9	5.6	5.3	5.9	5.4	6.6	5.7	7.3	5.9
AM071DN4FKG/EU	35	3.6	3.6	5.0	5.0	6.4	6.2	7.1	6.7	7.5	6.9	8.4	7.2	9.2	7.4

Heating

TC : Total Capacity (kW)

Combination, % (Capacity index)	Outdoor temperature (°C)		Indoor temperature (°C, WB)						
			14.0	16.0	18.0	20.0	22.0	24.0	27.0
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
AM028DN4DKG/EU	7	6.0	3.4	3.3	3.2	3.2	3.0	2.7	2.3
AM036DN4DKG/EU	7	6.0	4.2	4.1	4.1	4.0	3.7	3.4	3.0
AM045DN4DKG/EU	7	6.0	5.3	5.1	5.1	5.0	4.6	4.2	3.6
AM056DN4DKG/EU	7	6.0	6.7	6.5	6.4	6.3	5.8	5.3	4.6
AM071DN4DKG/EU	7	6.0	8.5	8.2	8.1	8.0	7.4	6.8	5.9
AM090DN4DKG/EU	7	6.0	10.6	10.3	10.1	10.0	9.2	8.4	7.3
AM112DN4DKG/EU	7	6.0	13.2	12.9	12.7	12.5	11.5	10.6	9.2
AM128DN4DKG/EU	7	6.0	14.6	14.2	14.0	13.8	12.7	11.7	10.2
AM140DN4DKG/EU	7	6.0	16.9	16.5	16.2	16.0	14.8	13.5	11.7
AM022DN4FKG/EU	7	6.0	3.0	2.8	2.7	2.5	2.3	2.0	1.6
AM028DN4FKG/EU	7	6.0	3.8	3.6	3.4	3.2	2.9	2.6	2.1
AM036DN4FKG/EU	7	6.0	4.7	4.5	4.2	4.0	3.6	3.2	2.6
AM045DN4FKG/EU	7	6.0	5.9	5.6	5.3	5.0	4.5	4.0	3.3
AM056DN4FKG/EU	7	6.0	7.4	7.1	6.7	6.3	5.7	5.0	4.1
AM071DN4FKG/EU	7	6.0	9.4	9.0	8.5	8.0	7.2	6.4	5.2

NOTE

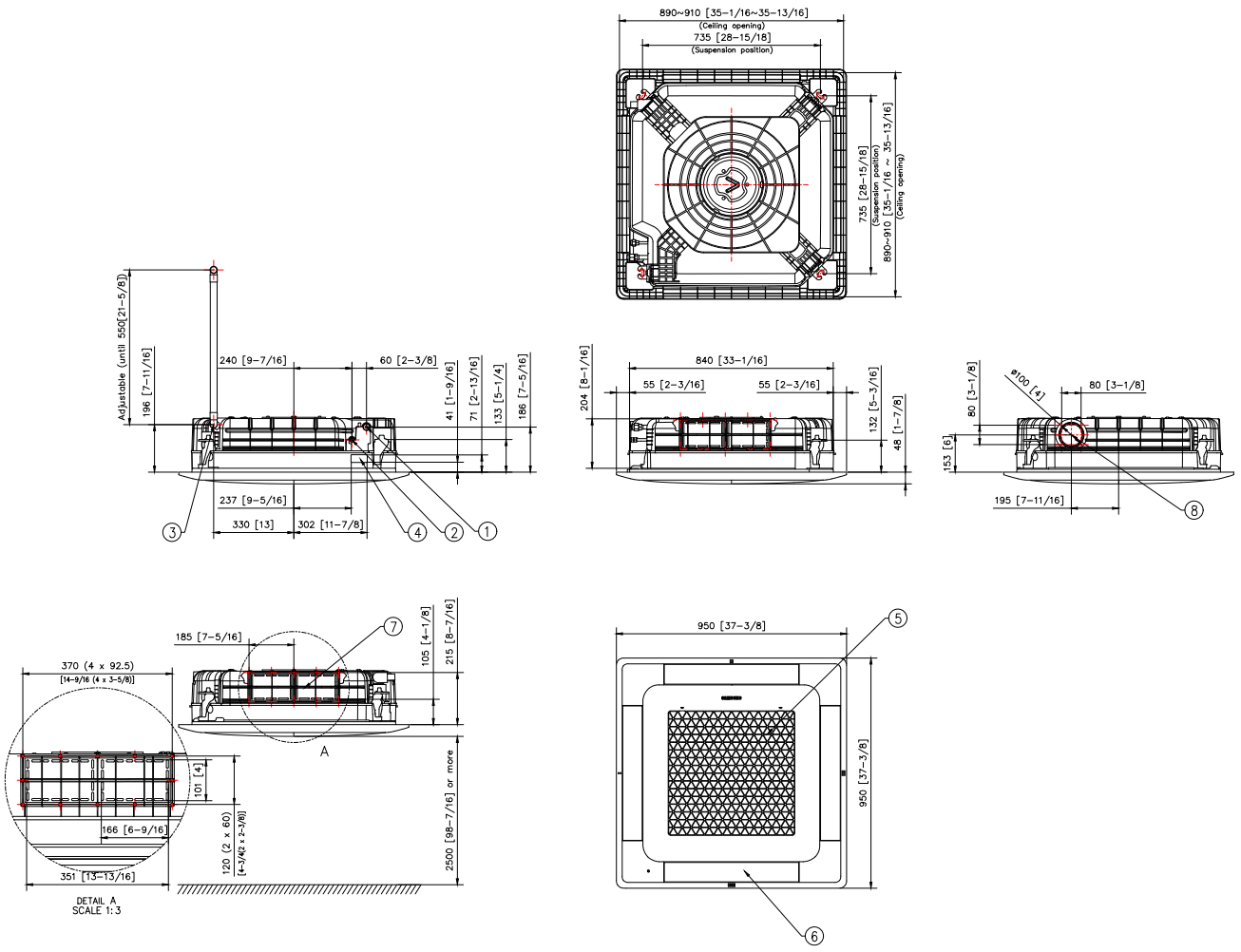
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

WindFree™ 4Way Cassette

AM028DN4DKG/EU, AM036DN4DKG/EU, AM045DN4DKG/EU, AM056DN4DKG/EU, AM071DN4DKG/EU

Units : mm [inches]



No.	Name	Description	
		AM028DN4DKG/EU, AM036DN4DKG/EU AM045DN4DKG/EU, AM056DN4DKG/EU	AM071DN4DKG/EU
1	Gas pipe connection	Φ12.7[1/2]	Φ15.88[5/8]
2	Liquid pipe connection	Φ6.35[1/4]	
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Air Inlet Grille	-	
6	Air Outlet Louver	-	
7	Sub - duct	* The sub duct is not applicabel to the WindFree™ panel	
8	Fresh air intake	Φ10[4] , Use M4 Screw	

NOTE

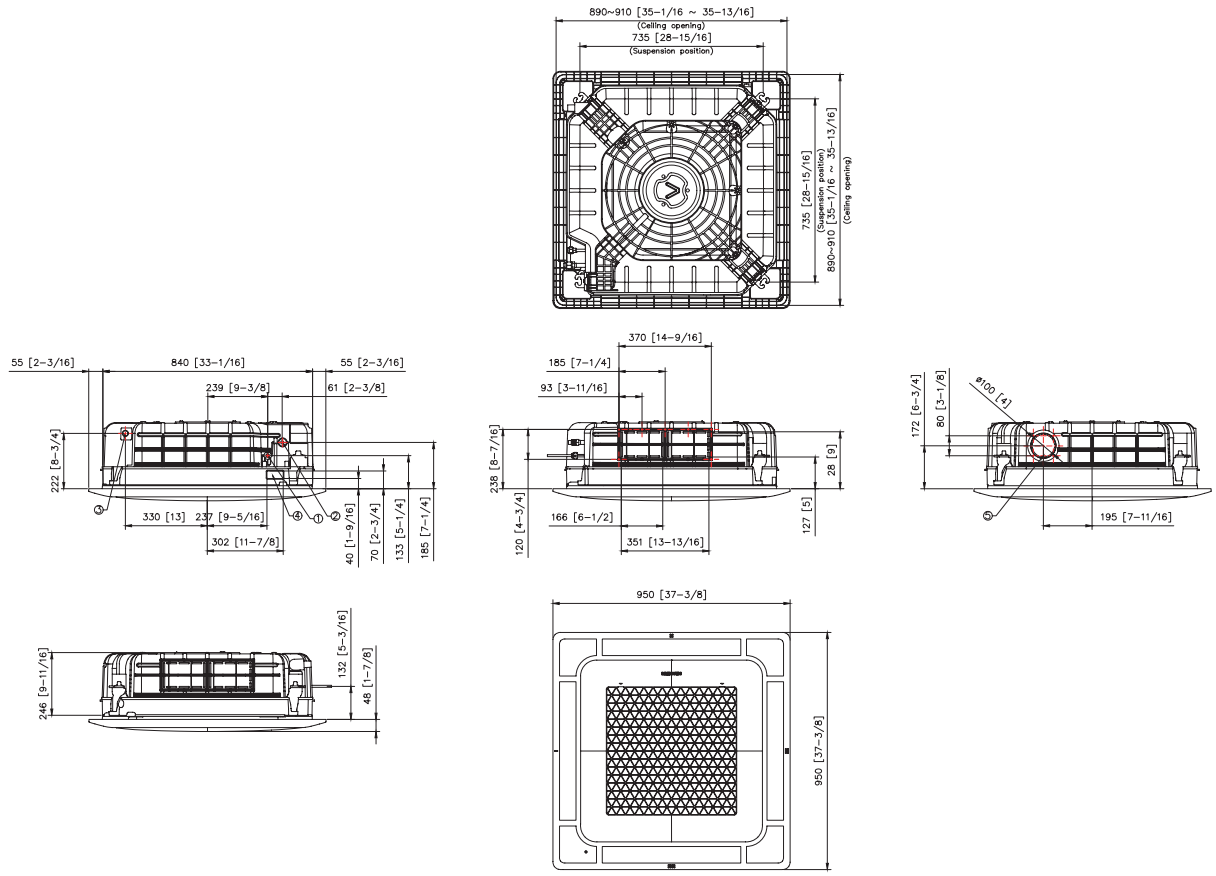
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

WindFree™ 4Way Cassette

AM090DN4DKG/EU, AM112DN4DKG/EU, AM022DN4FKG/EU, AM028DN4FKG/EU AM036DN4FKG/EU, AM045DN4FKG/EU

Units : mm [inches]



No.	Name	Description	
		AM022DN4FKG/EU, AM028DN4FKG/EU AM036DN4FKG/EU, AM045DN4FKG/EU	AM090DN4DKG/EU, AM112DN4DKG/EU
1	Liquid pipe connection	Φ6.35[1/4]	Φ9.52[3/8]
2	Gas pipe connection	Φ12.7[1/2]	Φ15.88[5/8]
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Fresh air intake	Φ10[4] , Use M4 Screw	

NOTE

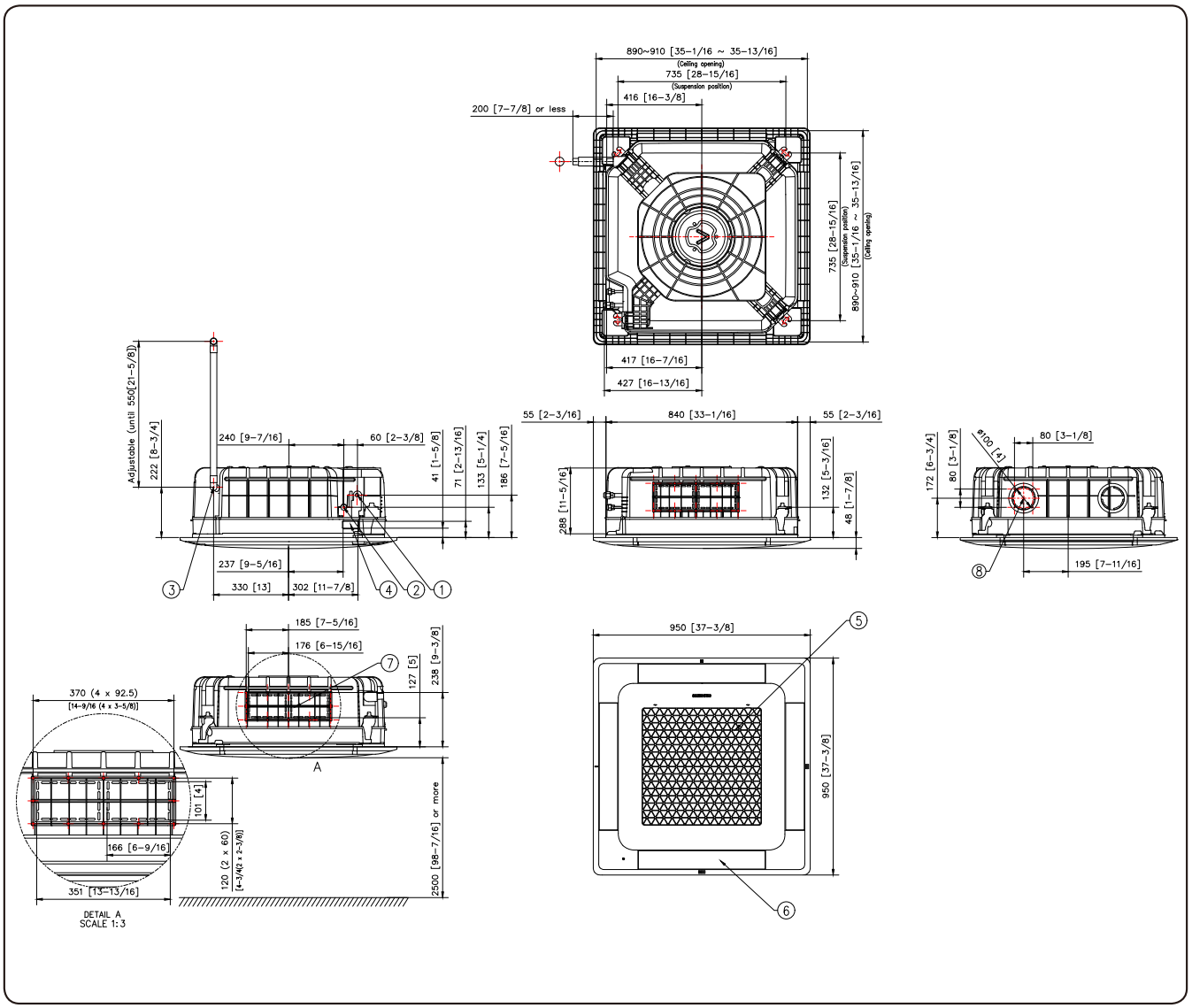
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

WindFree™ 4Way Cassette

AM128DN4DKG/EU, AM140DN4DKG/EU, AM056DN4FKG/EU, AM071DN4FKG/EU

Units : mm [inches]



No.	Name	Description	
		AM056DN4FKG/EU	AM071DN4FKG/EU, AM128DN4DKG/EU AM140DN4DKG/EU
1	Gas pipe connection	Φ6.35[1/4]	Φ15.88[5/8]
2	Liquid pipe connection	Φ12.7[1/2]	Φ9.52[3/8]
3	Drain pipe connection	VP-25(OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Air Inlet Grille	-	
6	Air Outlet Louver	-	
7	Sub - duct	* The sub duct is not applicabel to the WindFree™ panel	
8	Fresh air intake	Φ10[4] , Use M4 Screw	

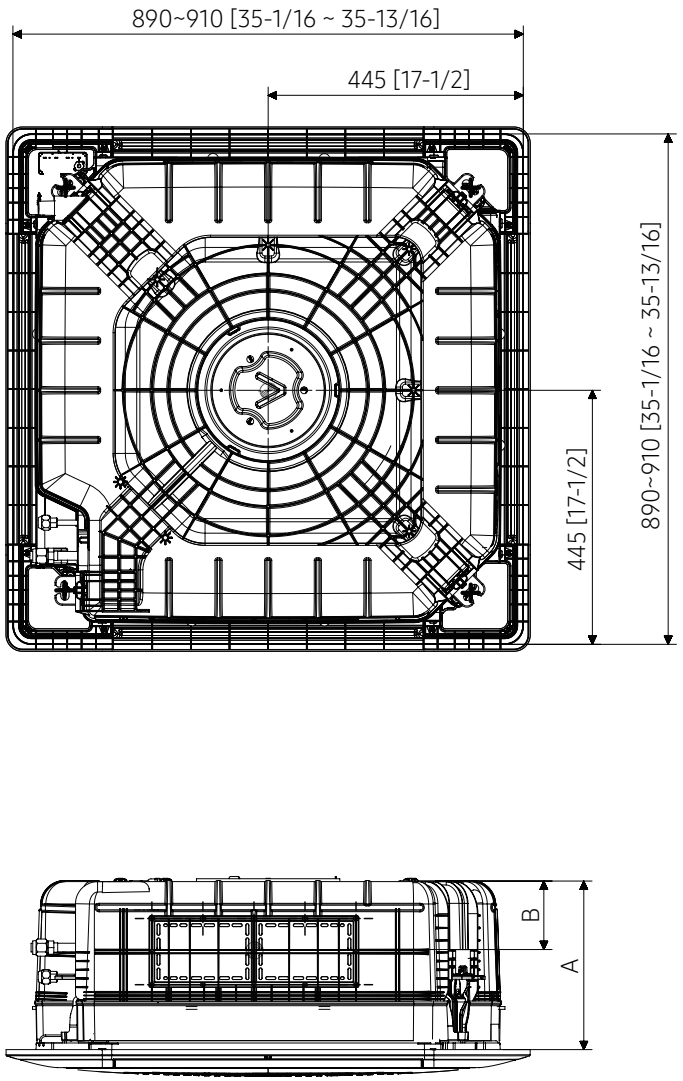
NOTE

- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

WindFree™ 4Way Cassette

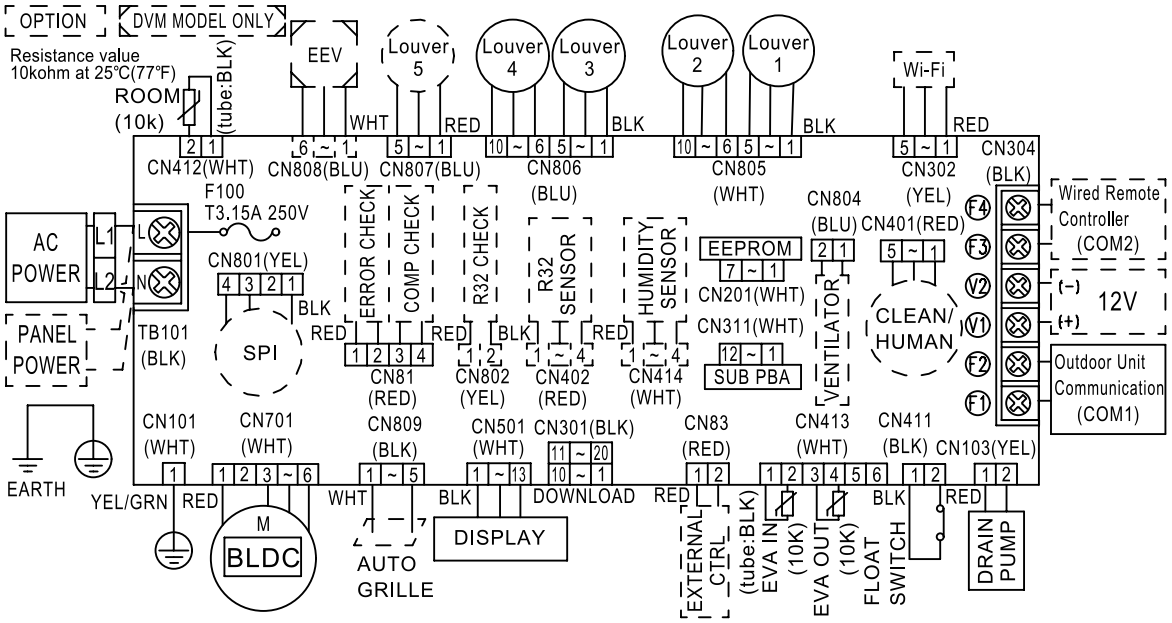
Units : mm [inches]



	A	B
AM028DN4DKG/EU, AM036DN4DKG/EU AM045DN4DKG/EU, AM056DN4DKG/EU AM071DN4DKG/EU	221 [8-11/16]	70 [2-3/4]
AM090DN4DKG/EU, AM112DN4DKG/EU AM022DN4FKG/EU, AM028DN4FKG/EU AM036DN4FKG/EU, AM045DN4FKG/EU	263 [10-7/20]	100[4]
AM128DN4DKG/EU, AM140DN4DKG/EU AM056DN4FKG/EU, AM071DN4FKG/EU	305 [12]	130 [5-1/8]

6. Electrical Wiring Diagram

WindFree™ 4Way Cassette



USE COPPER SUPPLY WIRES. UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

F100	FUSE	EEV	Electronic Expansion Valve	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-IN(10K)	Thermistor EVA IN(10K)
				EVA-OUT(10K)	Thermistor EVA OUT(10K)

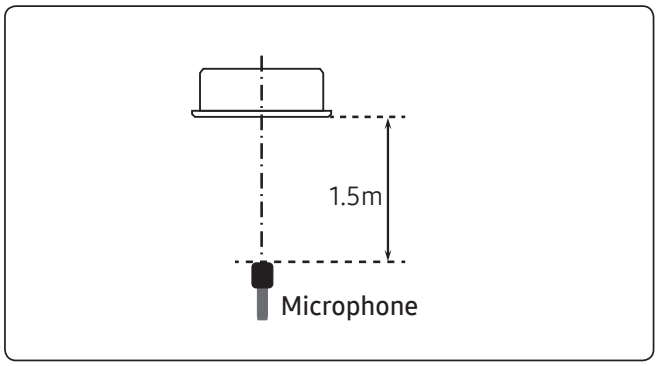
NOTE

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

7. Sound Data

WindFree™ 4Way Cassette

Sound Pressure level

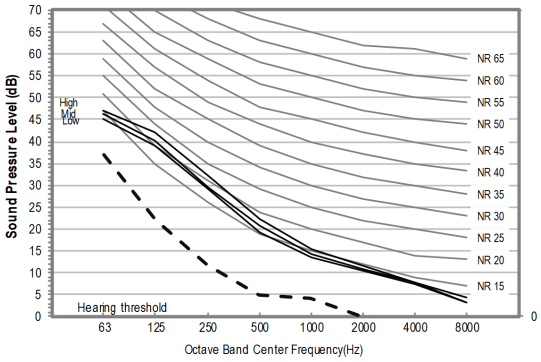


Unit: dB(A)

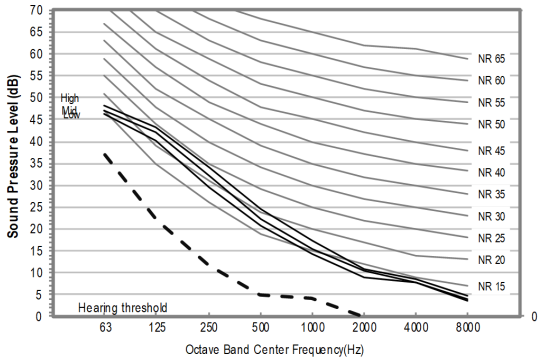
Model	High	MID	LOW	WindFree
AM028DN4DKG/EU	30	28	27	27
AM036DN4DKG/EU	31	30	28	28
AM045DN4DKG/EU	33	31	29	29
AM056DN4DKG/EU	35	33	29	29

- NR Curve

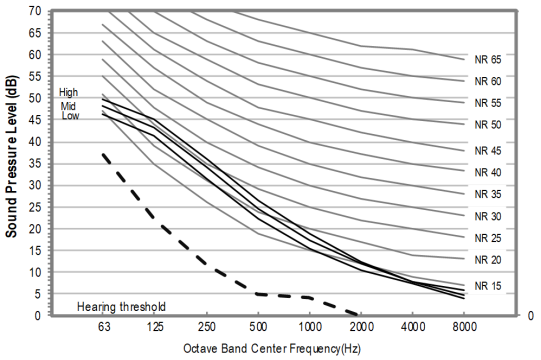
1) AM028DN4DKG/EU



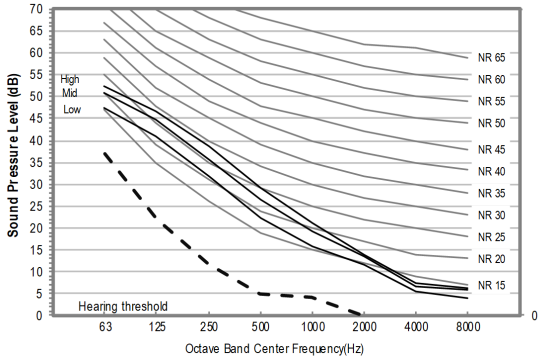
2) AM036DN4DKG/EU



3) AM045DN4DKG/EU



4) AM056DN4DKG/EU



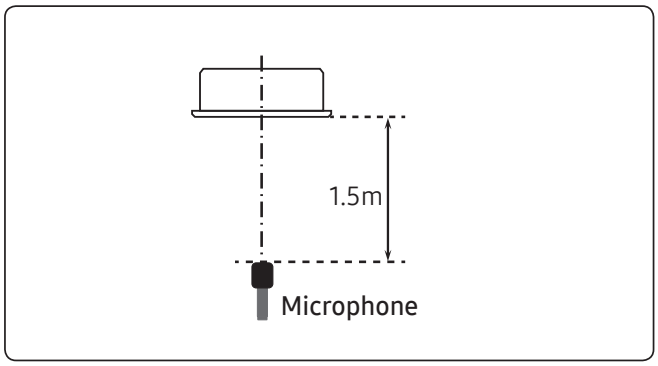
NOTE

- 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

WindFree™ 4Way Cassette

Sound Pressure level

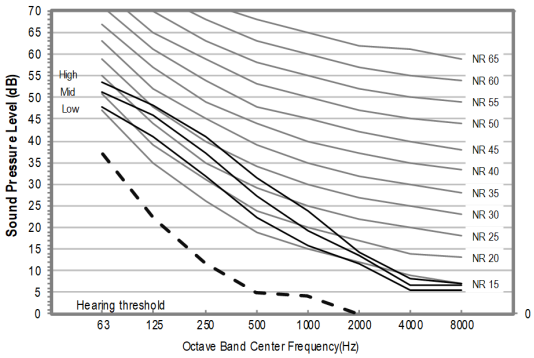


Unit: dB(A)

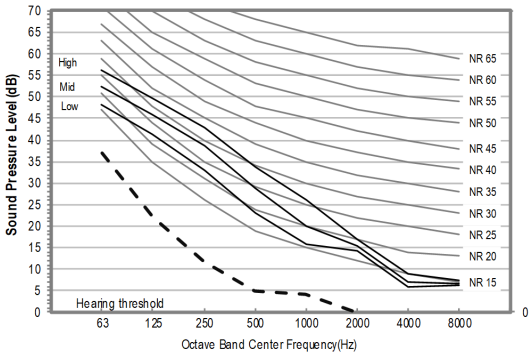
Model	High	MID	LOW	WindFree
AM071DN4DKG/EU	37	34	30	30
AM090DN4DKG/EU	39	35	30	30
AM112DN4DKG/EU	41	36	30	30
AM128DN4DKG/EU	42	37	35	35

- NR Curve

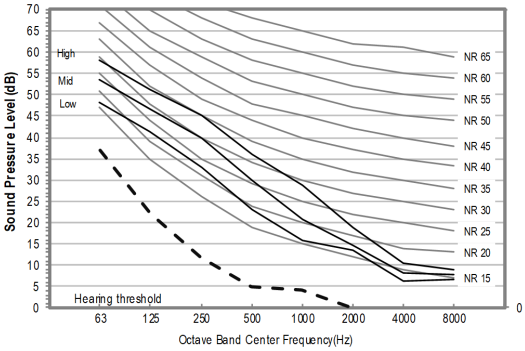
1) AM071DN4DKG/EU



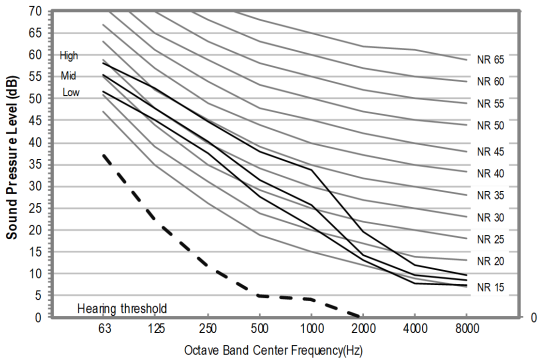
2) AM090DN4DKG/EU



3) AM112DN4DKG/EU



4) AM128DN4DKG/EU



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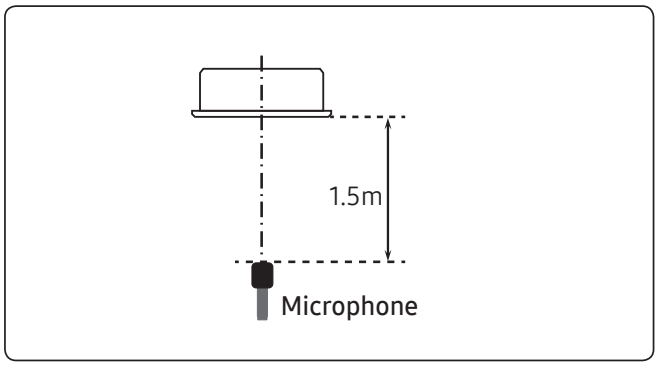
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

WindFree™ 4Way Cassette

Sound Pressure level

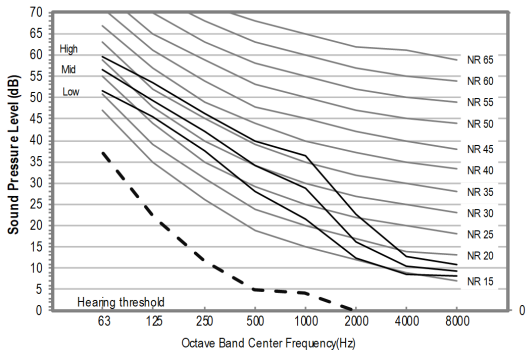


Unit: dB(A)

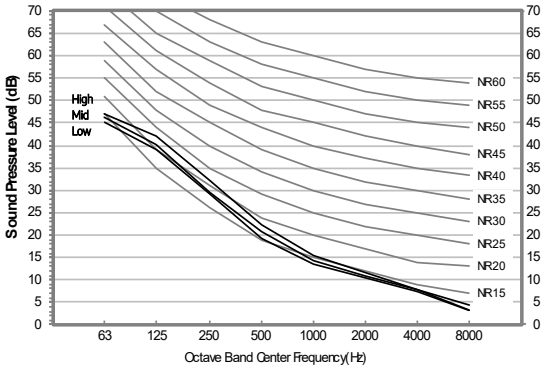
Model	High	MID	LOW	WindFree
AM140DN4DKG/EU	44	39	35	35
AM022DN4FKG/EU	32	30	29	29
AM028DN4FKG/EU	33	31	30	30
AM036DN4FKG/EU	34	33	31	31

- NR Curve

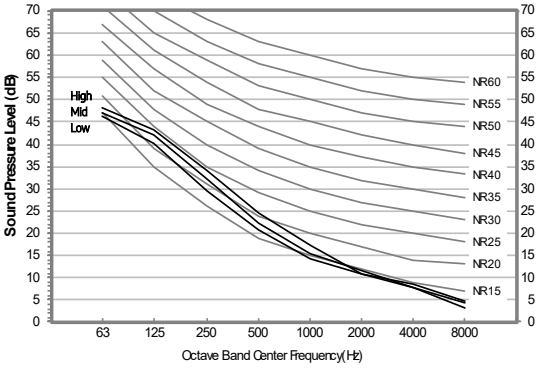
1) AM140DN4DKG/EU



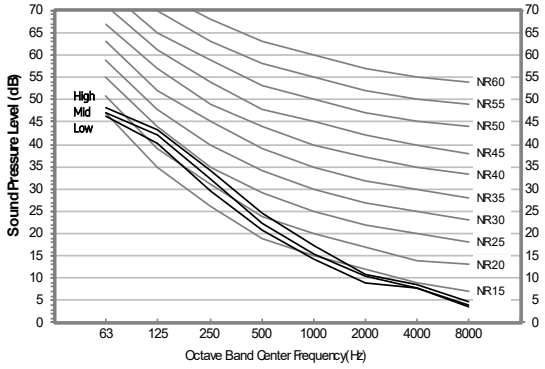
2) AM022DN4FKG/EU



3) AM028DN4FKG/EU



4) AM036DN4FKG/EU



NOTE

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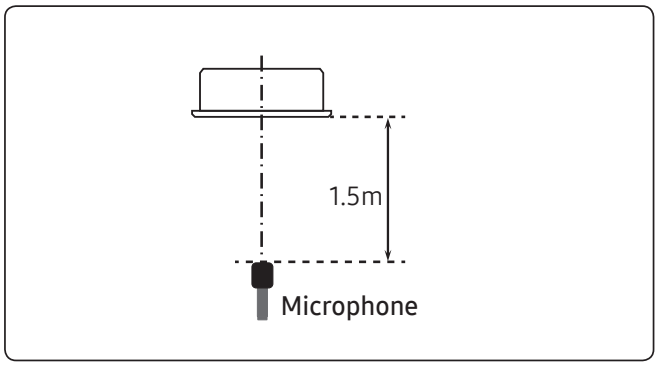
  - Reference acoustic pressure 0 dB = 20μPa

7. Sound Data

WindFree™ 4Way Cassette

Sound Pressure level

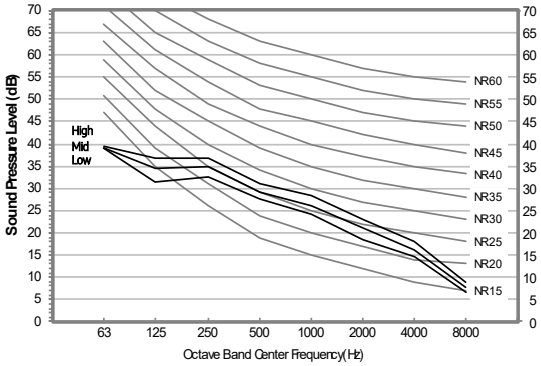


Unit: dB(A)

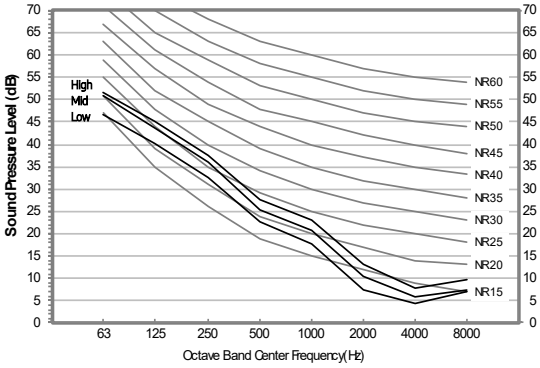
Model	High	MID	LOW	WindFree
AM045DN4FKG/EU	34	32	30	30
AM056DN4FKG/EU	35	33	29	29
AM071DN4FKG/EU	39	36	32	32

- NR Curve

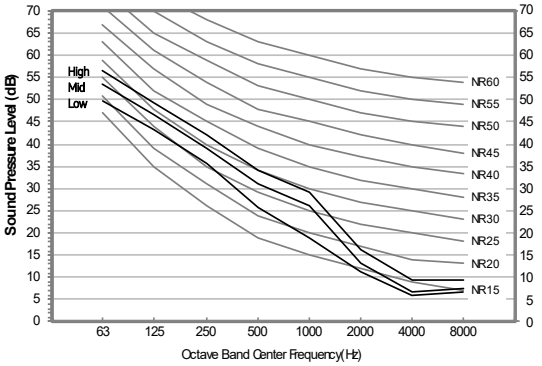
1) AM045DN4FKG/EU



2) AM056DN4FKG/EU



3) AM071DN4FKG/EU



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  - 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

WindFree™ 4Way Cassette

Sound Power level

NOTE

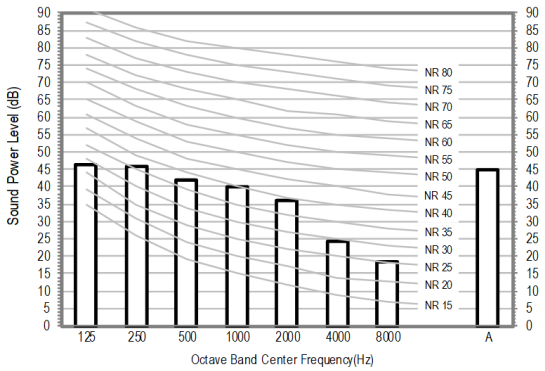
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

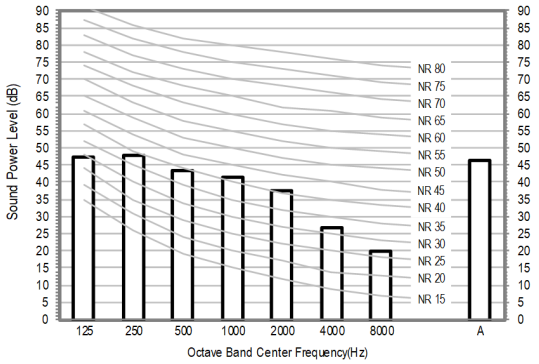
Model	Power
AM028DN4DKG/EU	46
AM036DN4DKG/EU	47
AM045DN4DKG/EU	49
AM056DN4DKG/EU	51

- NR Curve

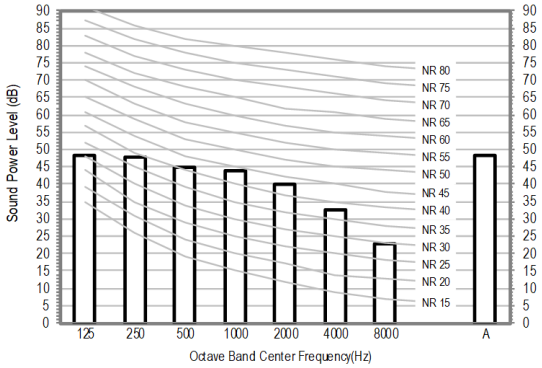
1) AM028DN4DKG/EU



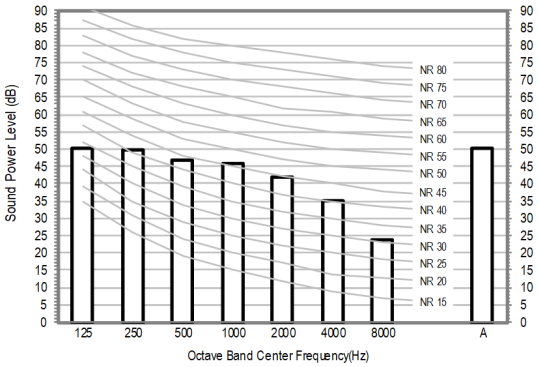
2) AM036DN4DKG/EU



3) AM045DN4DKG/EU



4) AM056DN4DKG/EU



7. Sound Data

WindFree™ 4Way Cassette

Sound Power level

NOTE

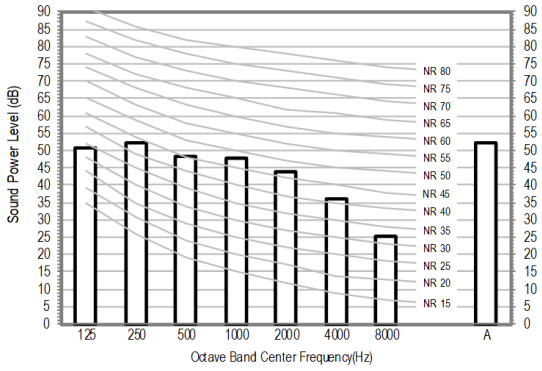
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

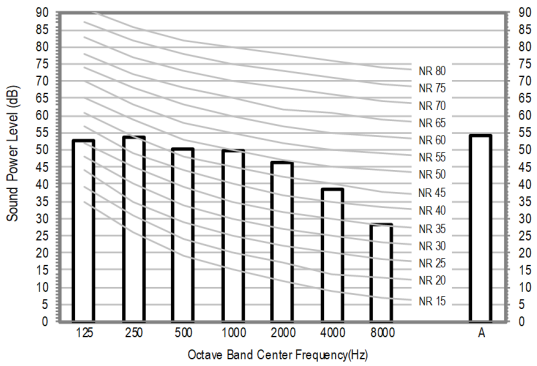
Model	Power
AM071DN4DKG/EU	53
AM090DN4DKG/EU	55
AM112DN4DKG/EU	59
AM128DN4DKG/EU	58

- NR Curve

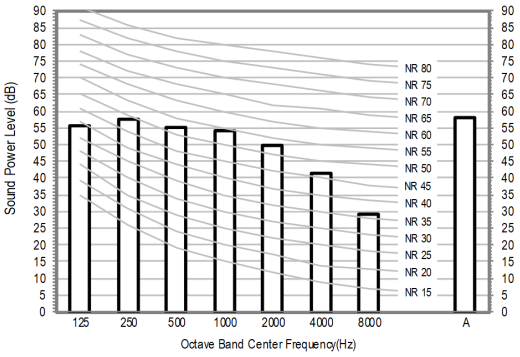
1) AM071DN4DKG/EU



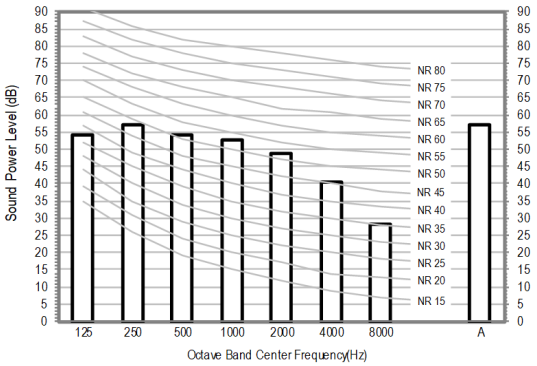
2) AM090DN4DKG/EU



3) AM112DN4DKG/EU



4) AM128DN4DKG/EU



7. Sound Data

WindFree™ 4Way Cassette

Sound Power level

NOTE

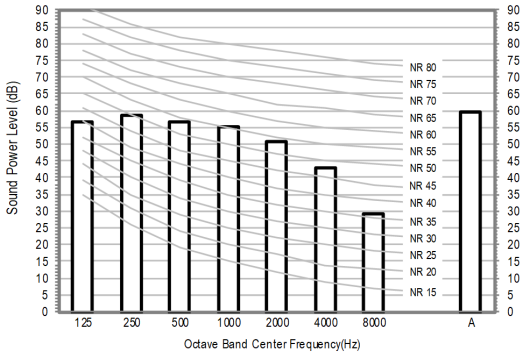
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

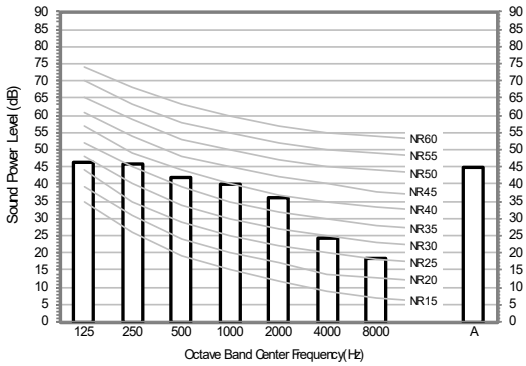
Model	Power
AM140DN4DKG/EU	60
AM022DN4FKG/EU	48
AM028DN4FKG/EU	49
AM036DN4FKG/EU	50

- NR Curve

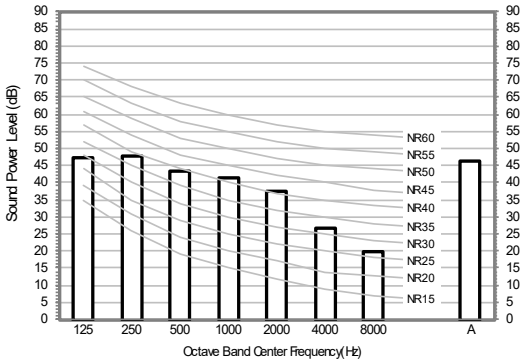
1) AM140DN4DKG/EU



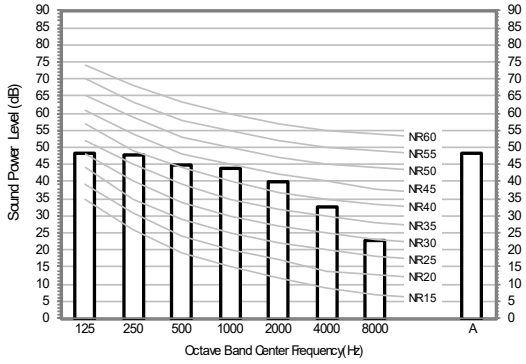
2) AM022DN4FKG/EU



3) AM028DN4FKG/EU



4) AM036DN4FKG/EU



7. Sound Data

WindFree™ 4Way Cassette

Sound Power level

NOTE

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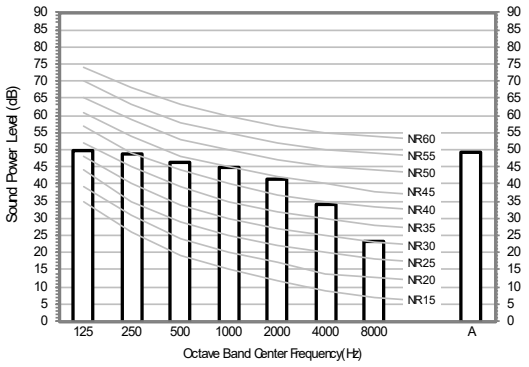
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

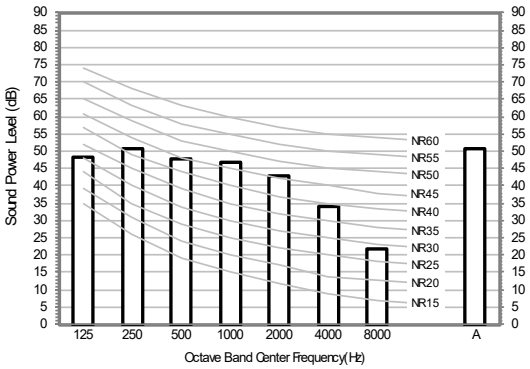
Model	Power
AM045DN4FKG/EU	50
AM056DN4FKG/EU	51
AM071DN4FKG/EU	55

- NR Curve

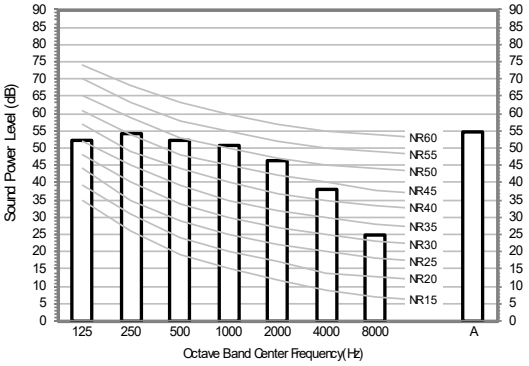
1) AM045DN4FKG/EU



2) AM056DN4FKG/EU



3) AM071DN4FKG/EU

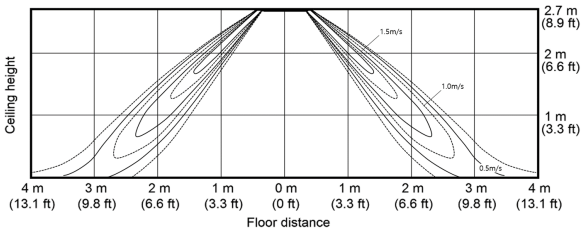


8.Temperature and air flow distribution

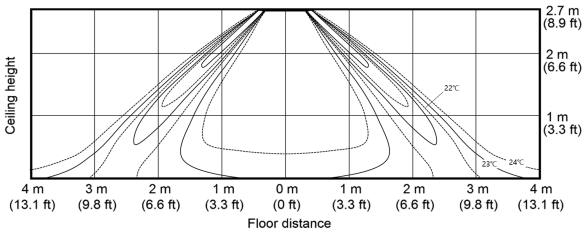
WindFree™ 4Way Cassette

AM028DN4DKG/EU

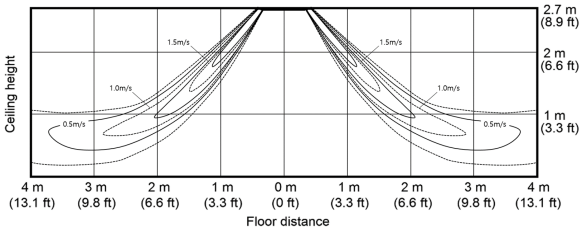
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



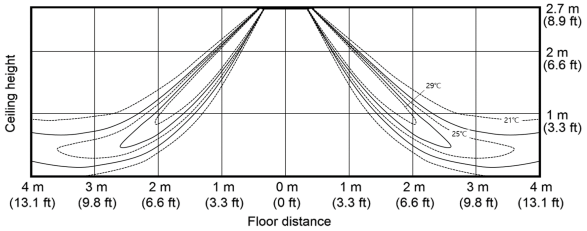
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

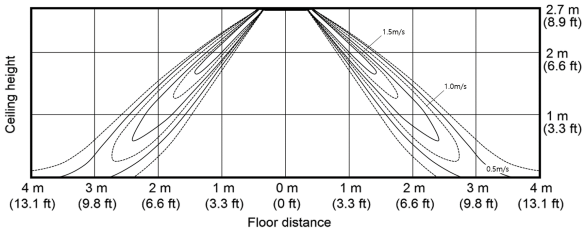


- Heating temperature distribution
  (Discharge angle : 52 degree)

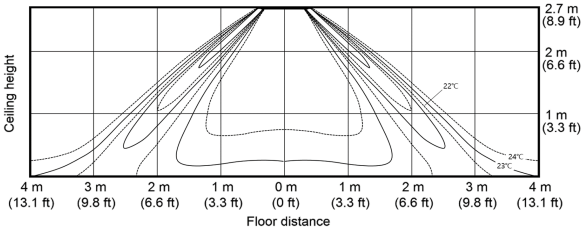


AM036DN4DKG/EU

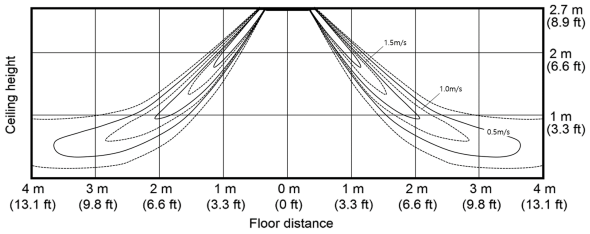
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



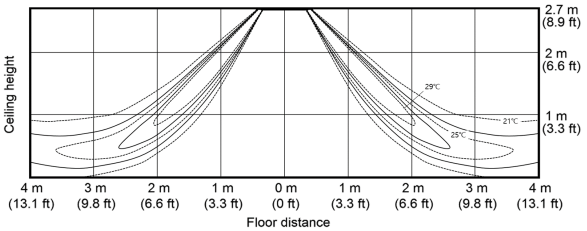
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

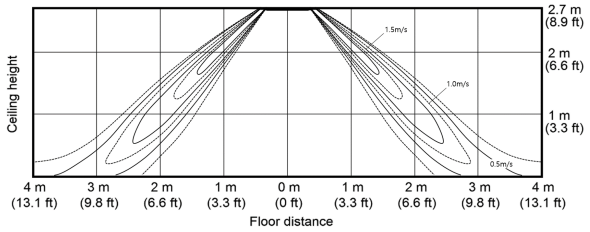


8.Temperature and air flow distribution

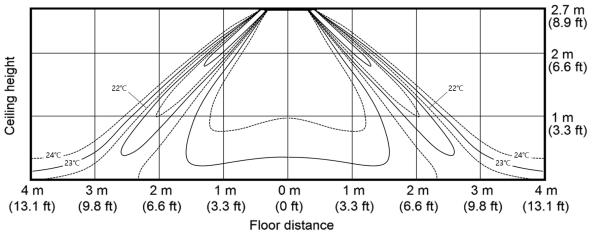
WindFree™ 4Way Cassette

AM045DN4DKG/EU

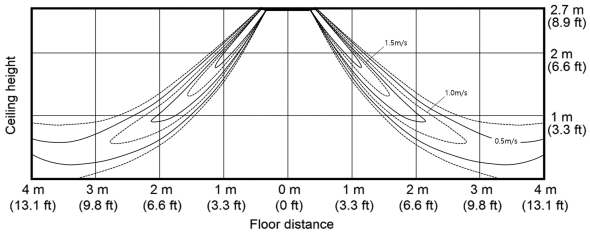
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



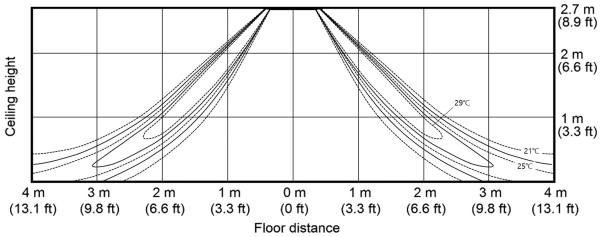
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

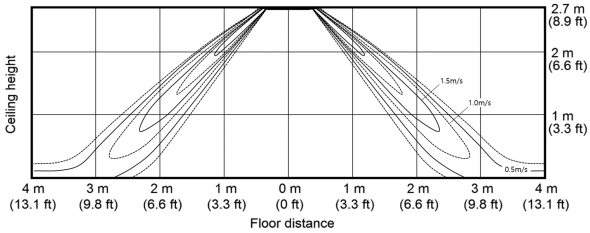


- Heating temperature distribution
  (Discharge angle : 52 degree)

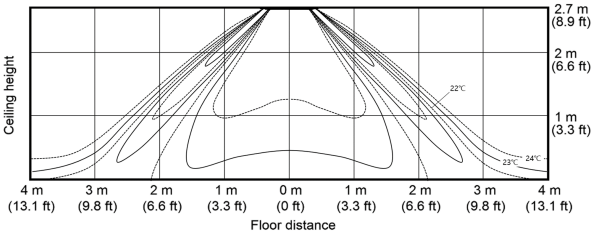


AM056DN4DKG/EU

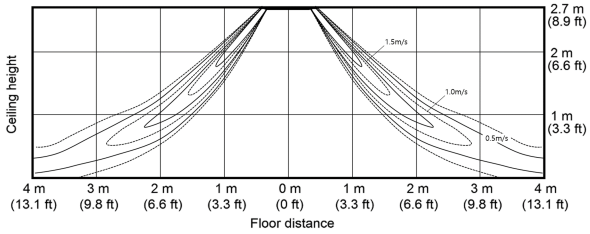
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



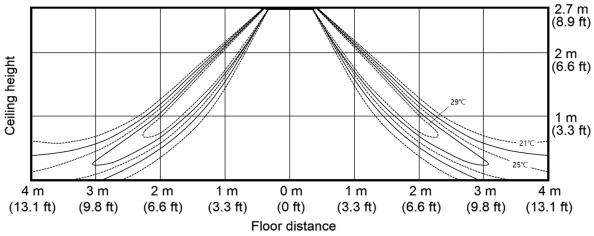
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

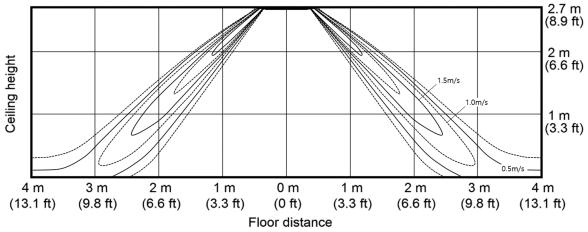


8.Temperature and air flow distribution

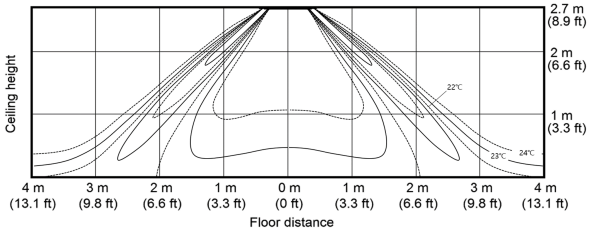
WindFree™ 4Way Cassette

AM071DN4DKG/EU

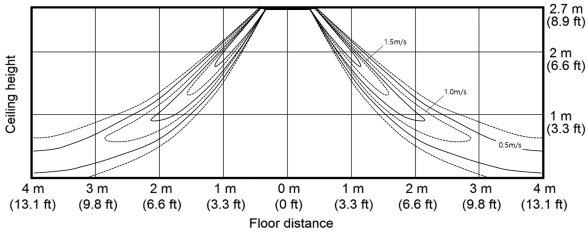
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



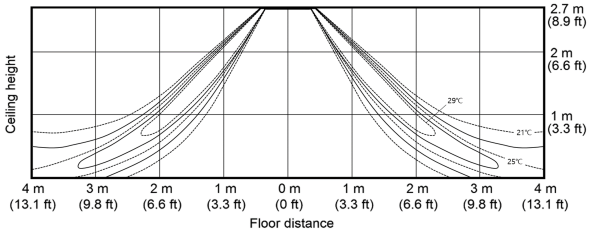
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

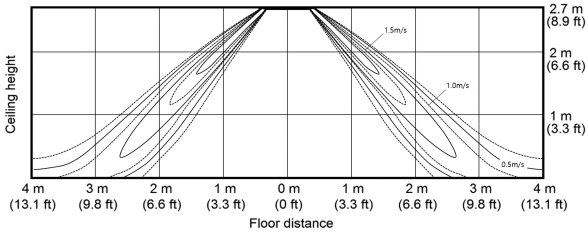


- Heating temperature distribution
  (Discharge angle : 52 degree)

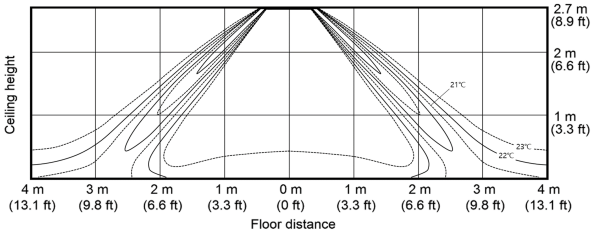


AM090DN4DKG/EU

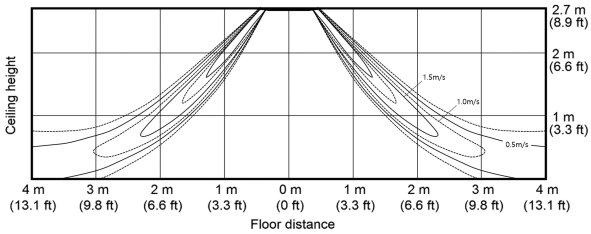
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



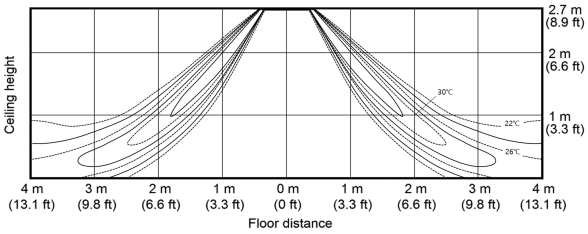
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

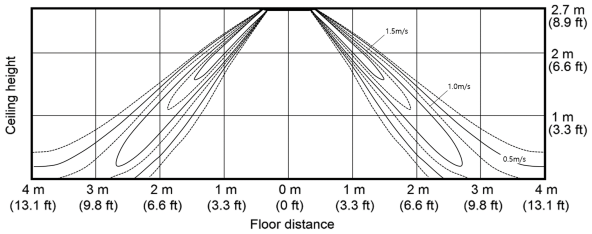


8.Temperature and air flow distribution

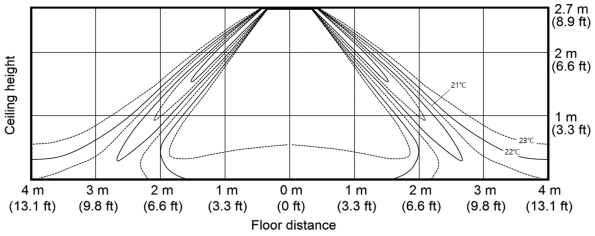
WindFree™ 4Way Cassette

AM112DN4DKG/EU

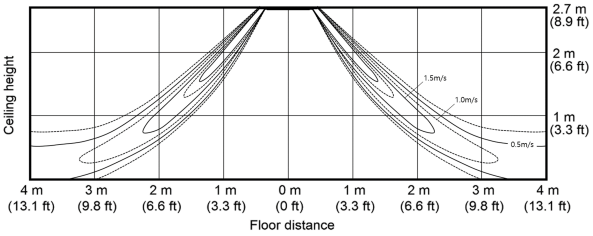
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



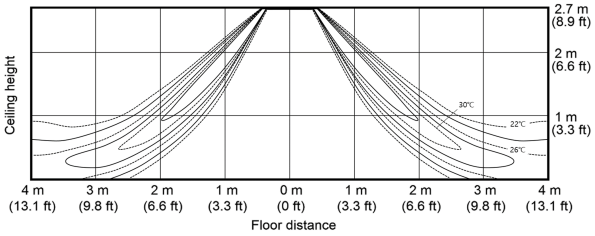
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)



AM128DN4DKG/EU

- Cooling Air Velocity distribution
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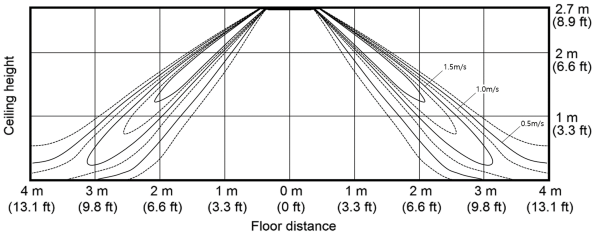
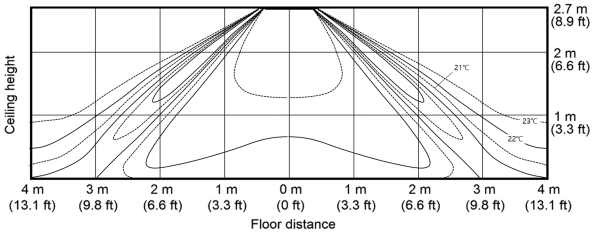
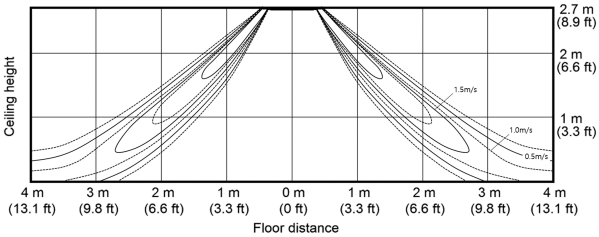


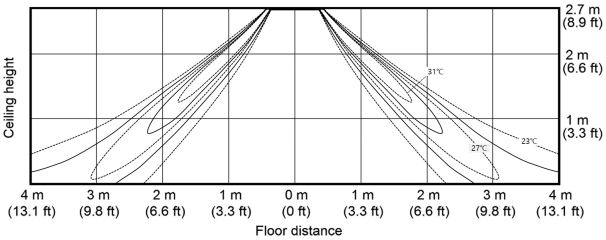
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

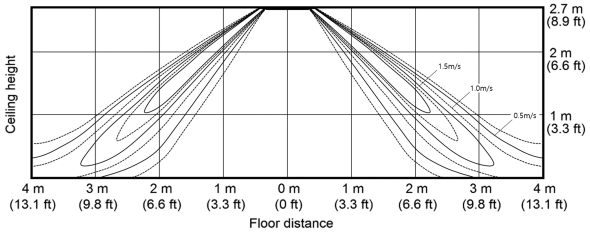


8.Temperature and air flow distribution

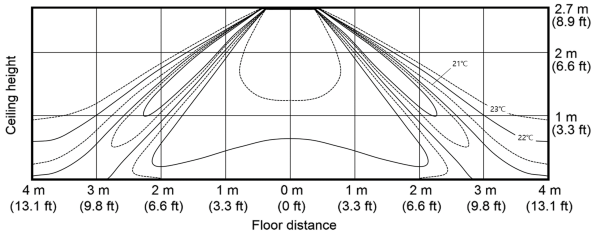
WindFree™ 4Way Cassette

AM140DN4DKG/EU

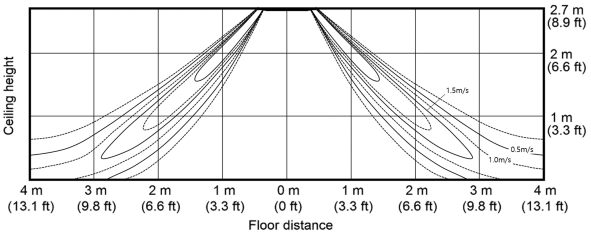
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



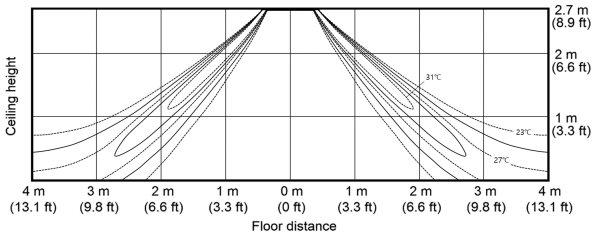
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)



AM022DN4FKG/EU

- Cooling Air Velocity distribution
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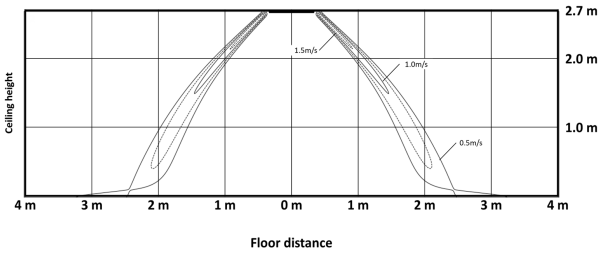
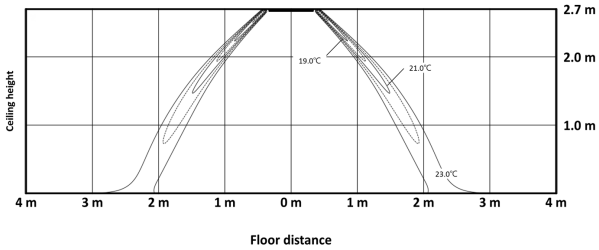
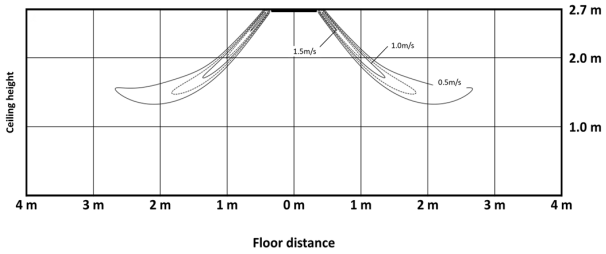


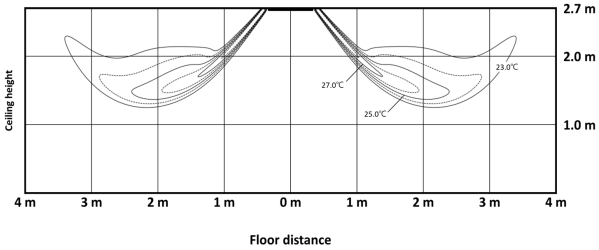
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

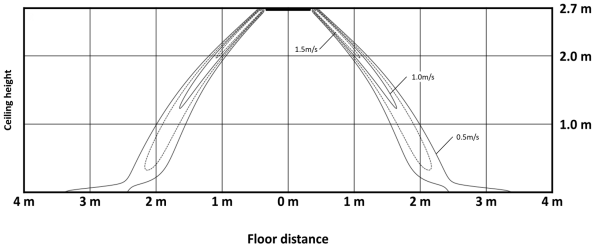


8.Temperature and air flow distribution

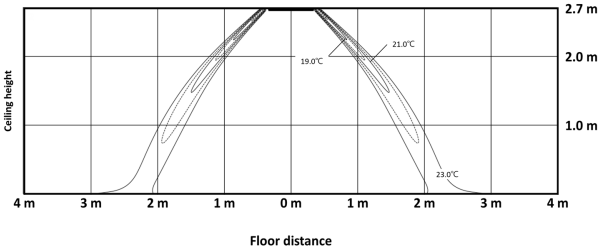
WindFree™ 4Way Cassette

AM028DN4FKG/EU

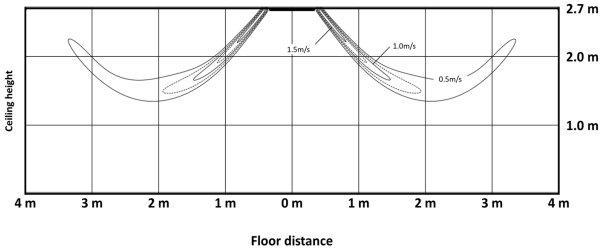
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



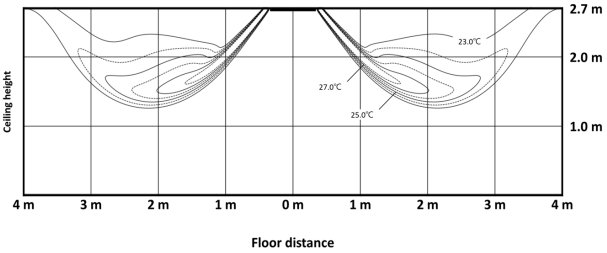
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

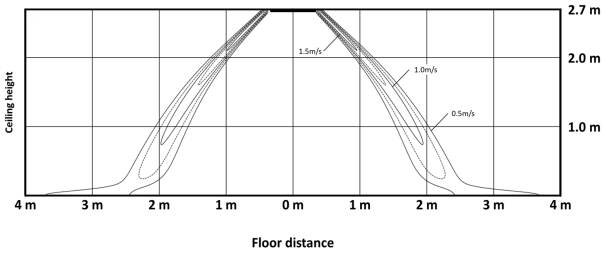


- Heating temperature distribution
  (Discharge angle : 52 degree)

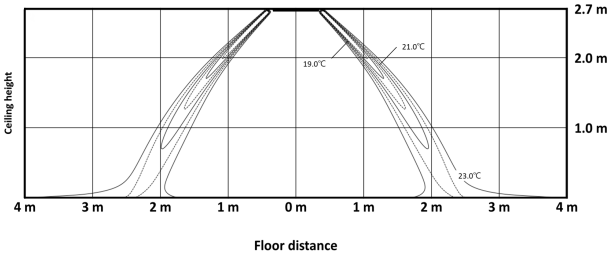


AM036DN4FKG/EU

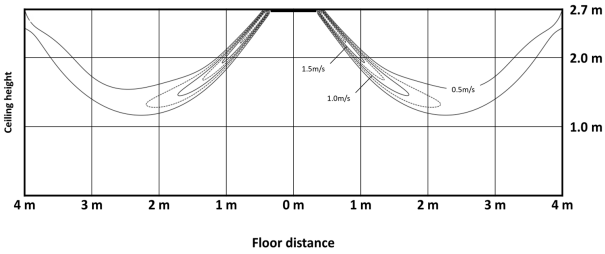
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



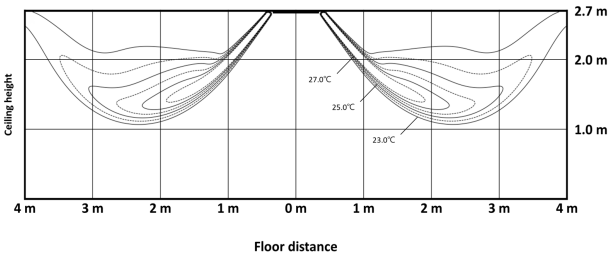
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

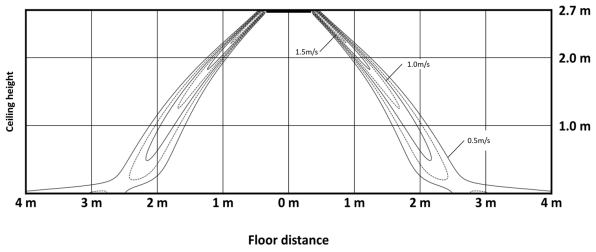


8.Temperature and air flow distribution

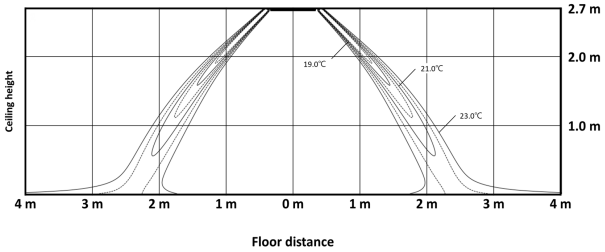
WindFree™ 4Way Cassette

AM045DN4FKG/EU

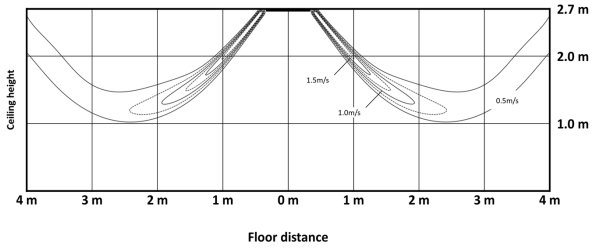
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



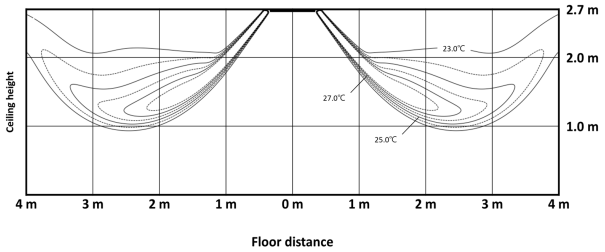
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

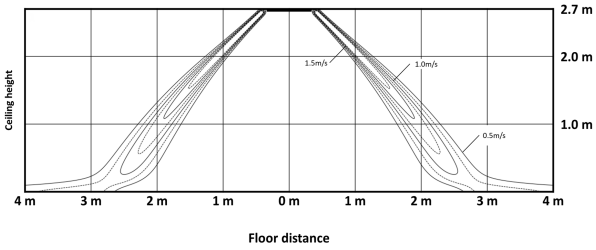


- Heating temperature distribution
  (Discharge angle : 52 degree)

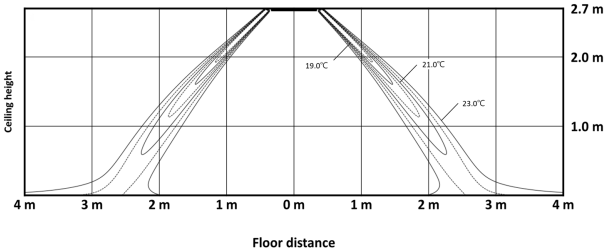


AM056DN4FKG/EU

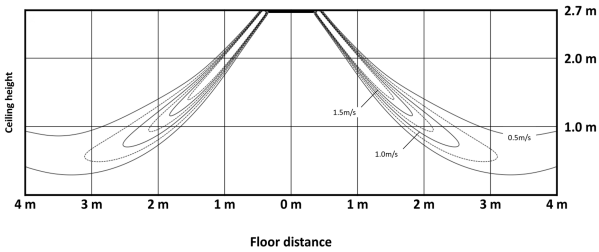
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



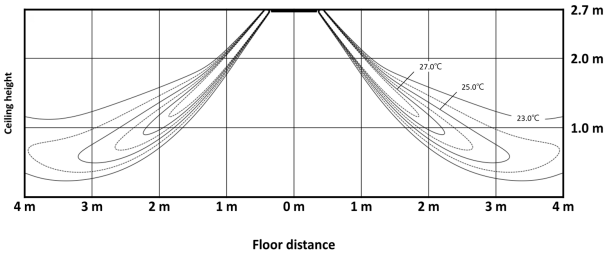
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)



- Heating temperature distribution
  (Discharge angle : 52 degree)

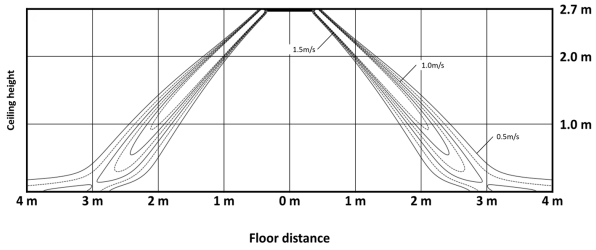


8.Temperature and air flow distribution

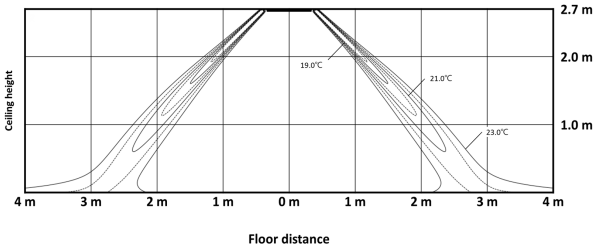
WindFree™ 4Way Cassette

AM071DN4FKG/EU

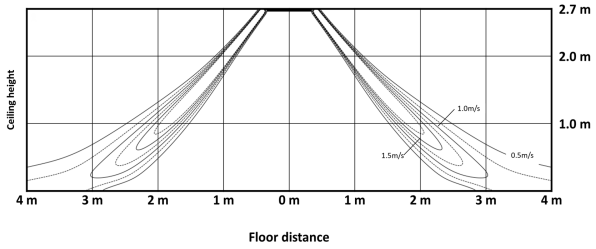
- Cooling Air Velocity distribution
  (Discharge angle : 45 degree)



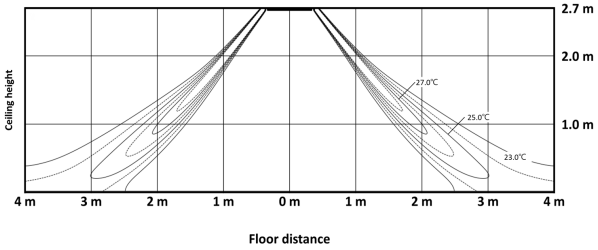
- Cooling temperature distribution
  (Discharge angle : 45 degree)



- Heating Air Velocity distribution
  (Discharge angle : 52 degree)

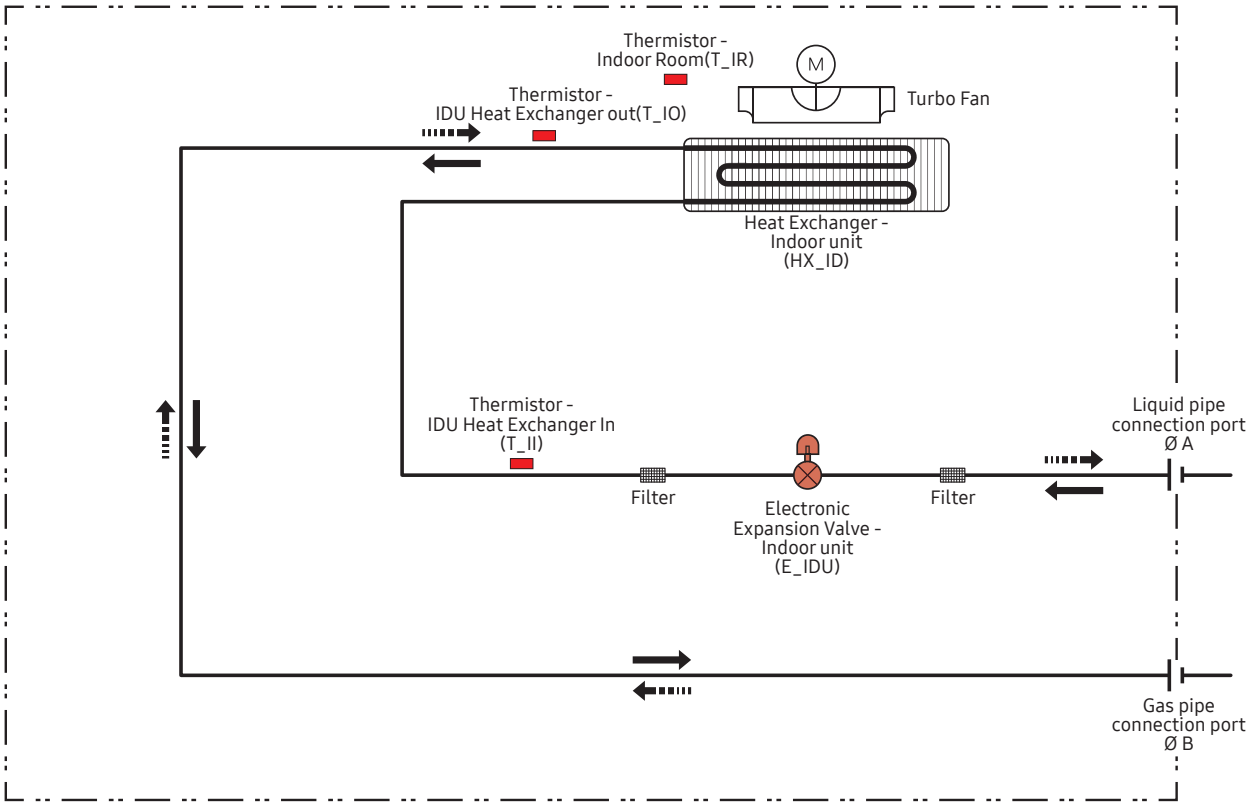


- Heating temperature distribution
  (Discharge angle : 52 degree)



9. Piping Diagram

WindFree™ 4Way Cassette



Refrigerant flow	
Cooling	Heating
→	⇢

360 Cassette

Line-up

360 Cassette

Capacity (kW)						
4.5	5.6	7.1	9.0	11.2	12.8	14.0
						

1. Specification

360 Cassette

Model Name				AM045DN6DKG/EU	AM056DN6DKG/EU	AM071DN6DKG/EU	AM090DN6DKG/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Performance	Capacity	Cooling	kW	4.50	5.60	7.10	9.00
			Btu/h	15,400	19,100	24,200	30,700
		Heating	kW	5.00	6.30	8.00	10.00
			Btu/h	17,100	21,500	27,300	34,100
Power	Power Input	Cooling	W	26.00	30.00	34.00	55.00
		Heating		26.00	30.00	34.00	55.00
	Current Input	Cooling	A	0.18	0.21	0.25	0.42
		Heating		0.18	0.21	0.25	0.42
	Current	MCA	A	0.40	0.43	0.47	0.60
		MFA		15	15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1	1
	Air Flow Rate	H/M/L	CMM	14.5 / 13.5 / 12.5	16.0 / 14.5 / 13.5	18.0 / 16.0 / 14.0	22.0 / 18.5 / 16.0
			l/s	242 / 225 / 208	267 / 242 / 225	300 / 267 / 233	367 / 308 / 267
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	65 x 1	65 x 1	65 x 1	65 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	6.35	9.52	9.52
			Φ, inch	1/4	1/4	3/8	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ,mm	12.70	12.70	15.88	15.88
			Φ, inch	1/2	1/2	5/8	5/8
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure Level	H/M/L	dB(A)	33 / 31 / 29	34 / 32 / 29	36 / 33 / 30	40 / 36 / 32
	Sound Power Level	Cooling		50	51	53	57
Dimensions	Net Weight		kg	21.0	21.0	21.0	20.0
	Shipping Weight		kg	25.9	25.9	25.9	25.5
	Net Dimensions (W×H×D)		mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
	Shipping Dimensions (W×H×D)		mm	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990

1. Specification

360 Cassette

Model Name			AM045DN6DKG/EU	AM056DN6DKG/EU	AM071DN6DKG/EU	AM090DN6DKG/EU
Panel(1)	Model Name	-	PC6NUSMANW	PC6NUSMANW	PC6NUSMANW	PC6NUSMANW
	Type	-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
	Material	-	HIPS	HIPS	HIPS	HIPS
	Color	-	White	White	White	White
	Net Weight	kg	3.8	3.8	3.8	3.8
	Shipping Weight	kg	6.3	6.3	6.3	6.3
	Net Dimensions (W×H×D)	mm	1,000 x 74 x 1,000	1,000 x 74 x 1,000	1,000 x 74 x 1,000	1,000 x 74 x 1,000
	Shipping Dimensions (W×H×D)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Panel(2)	Model Name	-	PC6EUSMANW	PC6EUSMANW	PC6EUSMANW	PC6EUSMANW
	Type	-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
	Material	-	HIPS	HIPS	HIPS	HIPS
	Color	-	White	White	White	White
	Net Weight	kg	2.8	2.8	2.8	2.8
	Shipping Weight	kg	5.3	5.3	5.3	5.3
	Net Dimensions (W×H×D)	mm	1,050 x 106 x 1,050	1,050 x 106 x 1,050	1,050 x 106 x 1,050	1,050 x 106 x 1,050
	Shipping Dimensions (W×H×D)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

360 Cassette

Model Name				AM112DN6DKG/EU	AM128DN6DKG/EU	AM140DN6DKG/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	11.20	12.80	14.00
			Btu/h	38,200	43,700	47,800
		Heating	kW	12.50	13.80	16.00
			Btu/h	42,700	47,100	54,600
Power	Power Input	Cooling	W	53.00	77.00	91.00
		Heating		53.00	77.00	91.00
	Current Input	Cooling	A	0.41	0.62	0.75
		Heating		0.41	0.62	0.75
	Current	MCA	A	0.80	1.00	1.13
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	25.5 / 21.0 / 17.5	29.5 / 24.0 / 19.0	31.5 / 26.5 / 21.0
			l/s	425 / 350 / 292	492 / 400 / 317	525 / 442 / 350
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	97 x 1	97 x 1	97 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	9.52	9.52	9.52
			Φ, inch	3/8	3/8	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ,mm	15.88	15.88	15.88
			Φ, inch	5/8	5/8	5/8
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure Level	H/M/L	dB(A)	40 / 36 / 32	42 / 38 / 33	44 / 40 / 35
	Sound Power Level	Cooling		58	60	61
Dimensions	Net Weight		kg	24.0	24.0	24.0
	Shipping Weight		kg	29.4	29.4	29.4
	Net Dimensions (W×H×D)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
	Shipping Dimensions (W×H×D)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990

1. Specification

360 Cassette

Model Name			AM112DN6DKG/EU	AM128DN6DKG/EU	AM140DN6DKG/EU
Panel(1)	Model Name	-	PC6NUSMANW	PC6NUSMANW	PC6NUSMANW
	Type	-	Ceiling Type(Square)	Ceiling Type(Square)	Ceiling Type(Square)
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	3.8	3.8	3.8
	Shipping Weight	kg	6.3	6.3	6.3
	Net Dimensions (W×H×D)	mm	1,000 x 74 x 1,000	1,000 x 74 x 1,000	1,000 x 74 x 1,000
	Shipping Dimensions (W×H×D)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Panel(2)	Model Name	-	PC6EUSMANW	PC6EUSMANW	PC6EUSMANW
	Type	-	Open Type(Circle)	Open Type(Circle)	Open Type(Circle)
	Material	-	HIPS	HIPS	HIPS
	Color	-	White	White	White
	Net Weight	kg	2.8	2.8	2.8
	Shipping Weight	kg	5.3	5.3	5.3
	Net Dimensions (W×H×D)	mm	1,050 x 106 x 1,050	1,050 x 106 x 1,050	1,050 x 106 x 1,050
	Shipping Dimensions (W×H×D)	mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Drain Pump	Drain Pump	-	INCLUDED	INCLUDED	INCLUDED
	Max. lifting Height / Displacement	mm / Liter/h	750 / 24	750 / 24	750 / 24

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

2. Summary Table

360 Cassette

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity (kW)			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
AM045DN6DKG/EU	21.0	High	4.5	3.1	5.0	14.5	33	50
		Mid	4.2	2.9	4.8	13.5	31	-
		Low	4.0	2.8	4.6	12.5	29	-
AM056DN6DKG/EU	21.0	High	5.6	3.9	6.3	16.0	34	51
		Mid	5.1	3.6	6.0	14.5	21	-
		Low	4.8	3.3	5.8	13.5	29	-
AM071DN6DKG/EU	21.0	High	7.1	5.0	8.0	18.0	36	53
		Mid	6.4	4.5	7.5	16.0	33	-
		Low	5.7	4.0	7.1	14.0	30	-
AM090DN6DKG/EU	20.0	High	9.0	6.3	10.0	22.0	40	57
		Mid	7.7	5.4	9.2	18.5	36	-
		Low	6.7	4.7	8.5	16.0	32	-
AM112DN6DKG/EU	24.0	High	11.2	7.9	12.5	25.5	40	58
		Mid	9.4	6.6	11.3	21.0	36	-
		Low	7.9	5.6	10.4	17.5	32	-
AM128DN6DKG/EU	24.0	High	12.8	9.1	13.8	29.5	42	60
		Mid	10.7	7.6	12.4	24.0	38	-
		Low	8.5	6.0	11.1	19.0	33	-
AM140DN6DKG/EU	24.0	High	14.0	9.6	16.0	31.5	44	61
		Mid	12.0	8.2	14.7	26.5	40	-
		Low	9.6	6.6	13.1	21.0	35	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Indoor Unit	Power Supply (Ø, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM045DN6DKG/EU	1,2,220~240,50/60	26.0	0.18	0.40	15	0.32
AM056DN6DKG/EU	1,2,220~240,50/60	30.0	0.21	0.43	15	0.34
AM071DN6DKG/EU	1,2,220~240,50/60	34.0	0.25	0.47	15	0.38
AM090DN6DKG/EU	1,2,220~240,50/60	55.0	0.42	0.60	15	0.48
AM112DN6DKG/EU	1,2,220~240,50/60	53.0	0.41	0.80	15	0.64
AM128DN6DKG/EU	1,2,220~240,50/60	77.0	0.62	1.00	15	0.80
AM140DN6DKG/EU	1,2,220~240,50/60	91.0	0.75	1.13	15	0.90

NOTE

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

3. Capacity Table

360 Cassette

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
045	35	3.1	2.7	3.7	2.8	4.2	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.8
056	35	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
071	35	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
090	35	6.2	5.2	7.3	5.7	8.4	6.3	9.0	6.3	9.3	6.3	10.0	6.2	10.6	6.1
112	35	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
128	35	8.8	7.3	10.4	8.1	12.0	9.0	12.8	9.1	13.3	9.1	14.2	9.0	15.1	8.8
140	35	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)				
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
045	7.0	6.0	5.1	5.1	5.0	4.6	4.2
056	7.0	6.0	6.5	6.4	6.3	5.8	5.3
071	7.0	6.0	8.2	8.1	8.0	7.4	6.8
090	7.0	6.0	10.3	10.1	10.0	9.2	8.4
112	7.0	6.0	12.9	12.7	12.5	11.5	10.6
128	7.0	6.0	14.2	14.0	13.8	12.7	11.7
140	7.0	6.0	16.5	16.2	16.0	14.8	13.5

NOTE

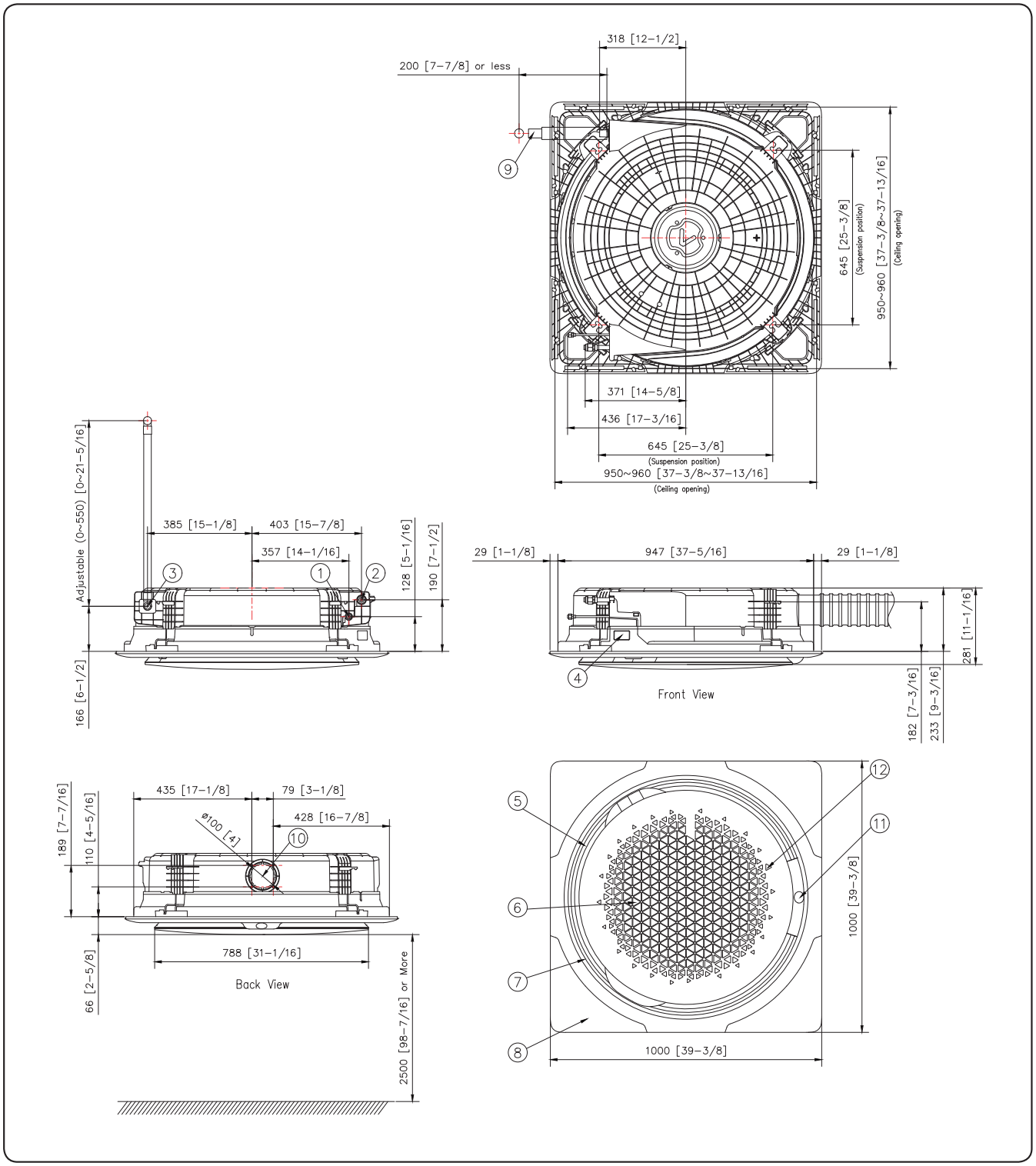
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

360 Cassette (Square)

AM045DN6DKG/EU, AM056DN6DKG/EU, AM071DN6DKG/EU, AM090DN6DKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description	
		AM045DN6DKG/EU AM056DN6DKG/EU	AM071DN6DKG/EU AM090DN6DKG/EU
1	Liquid pipe connection	Φ6.35[1/4]	Φ9.52[3/8]
2	Gas pipe connection	Φ12.7[1/2]	Φ15.88[5/8]
3	Drain pipe connection	VP25 (OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Air Discharge opening	-	
6	Air suction grille	-	
7	Suction rim for Booster fan	-	
8	Decoration cover	-	
9	Drain hose (Accessory)	-	
10	Fresh air intake knockout hole	Use M4 Screw	
11	Display Window	-	
12	Remote controller recieiver	-	

NOTE

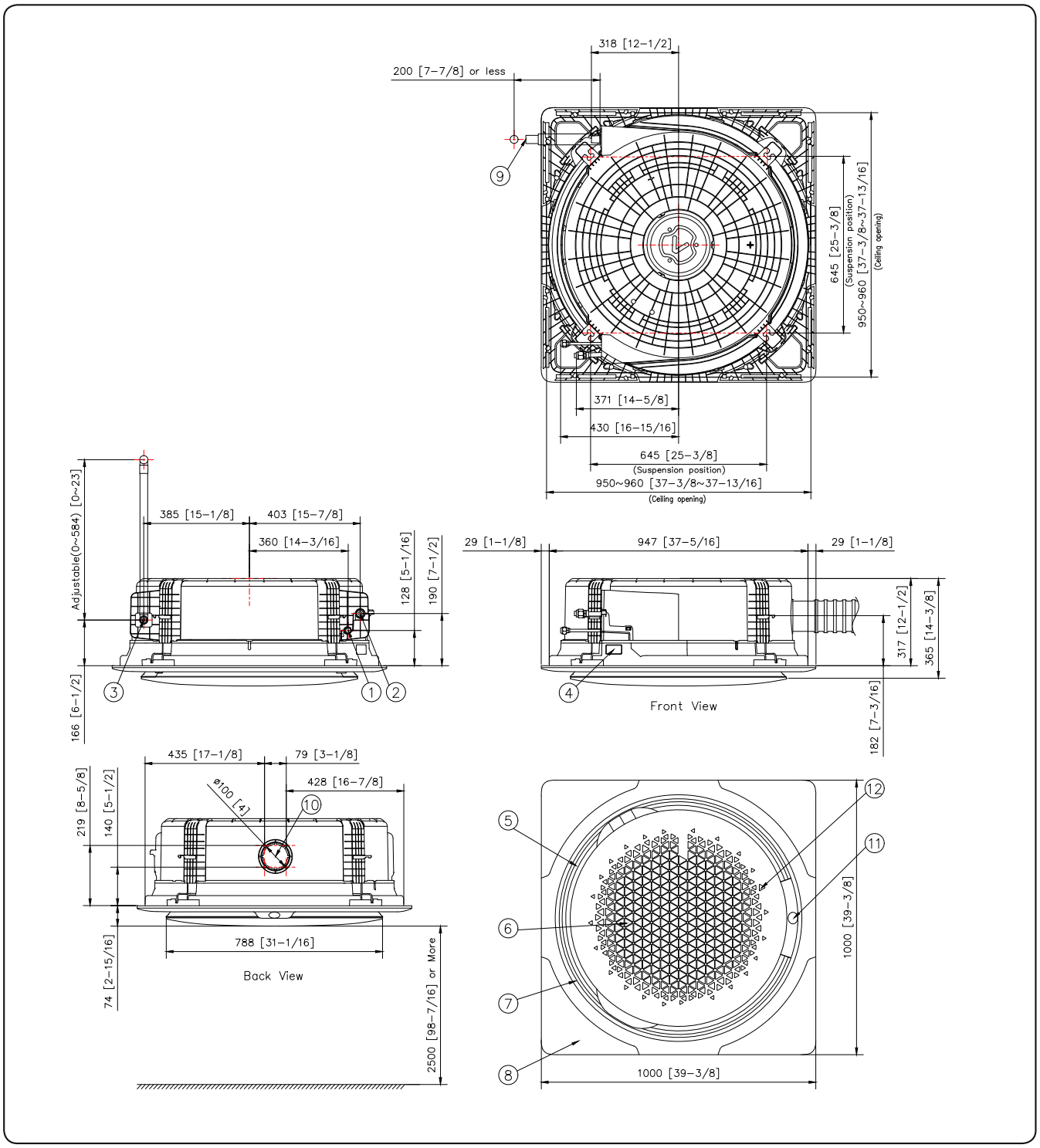
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)

4. Dimensional Drawing

360 Cassette (Square)

AM112DN6DKG/EU, AM128DN6DKG/EU, AM140DN6DKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Square)

No.	Name	Description
1	Liquid pipe connection	Φ9.52[3/8]
2	Gas pipe connection	Φ15.88[5/8]
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	-
5	Air Discharge opening	-
6	Air suction grille	-
7	Suction rim for Booster fan	-
8	Decoration cover	-
9	Drain hose (Accessory)	-
10	Fresh air intake knockout hole	Use M4 Screw
11	Display Window	-
12	Remote controller recieiver	-

NOTE

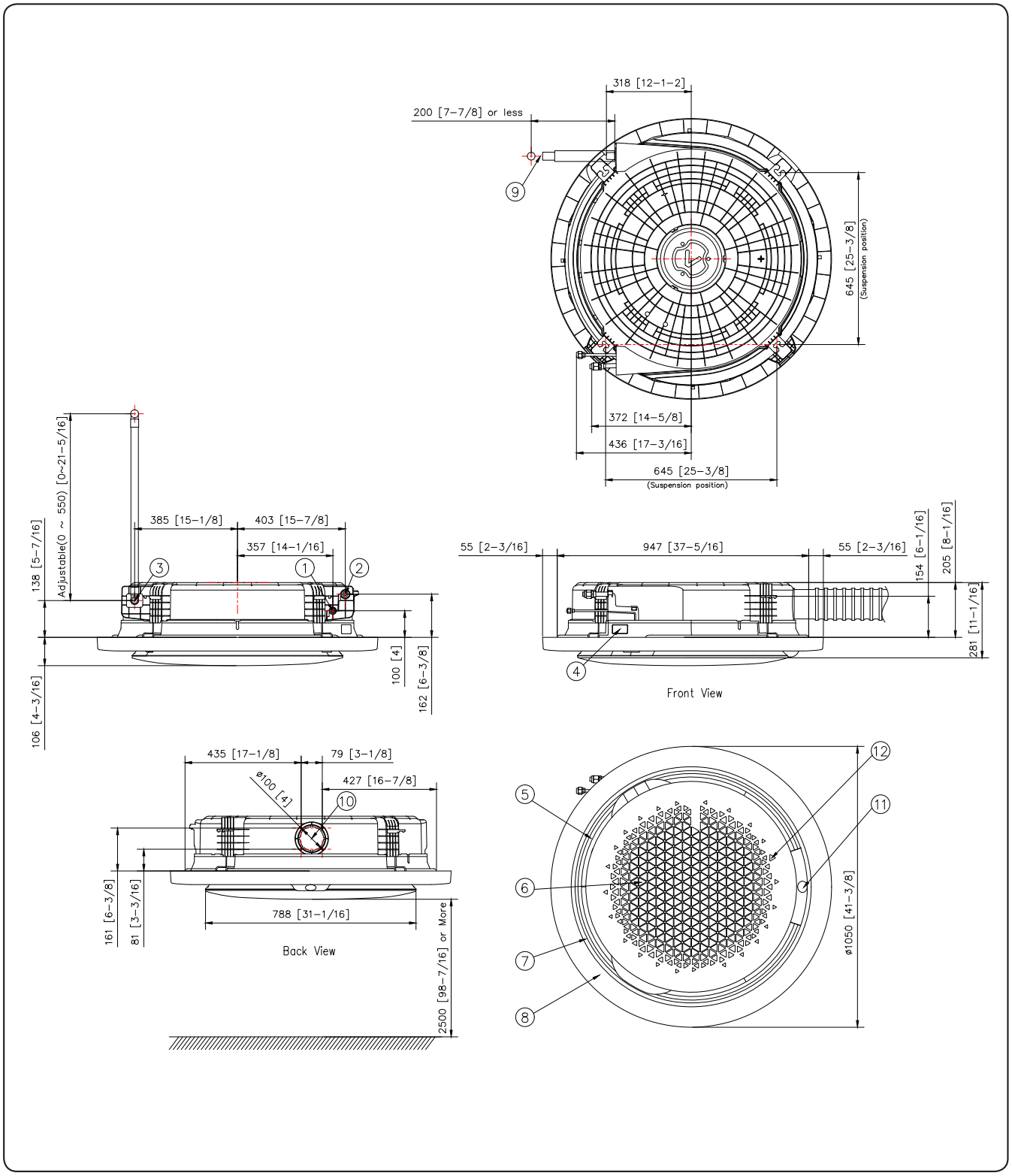
- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 29mm[1-1/4].
  Max ceiling opening : 960mm[36-13/16].
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thickness 10mm[3/8] or more)

4. Dimensional Drawing

360 Cassette (Circular)

AM045DN6DKG/EU, AM056DN6DKG/EU, AM071DN6DKG/EU, AM090DN6DKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circular)

No.	Name	Description	
		AM045DN6DKG/EU AM056DN6DKG/EU	AM071DN6DKG/EU AM090DN6DKG/EU
1	Liquid pipe connection	Φ6.35[1/4]	Φ9.52[3/8]
2	Gas pipe connection	Φ12.7[1/2]	Φ15.88[5/8]
3	Drain pipe connection	VP25 (OD32, ID25)	
4	Power supply & Communication wiring conduit	-	
5	Air Discharge opening	-	
6	Air suction grille	-	
7	Suction rim for Booster fan	-	
8	Decoration cover	-	
9	Drain hose (Accessory)	-	
10	Fresh air intake knockout hole	Use M4 Screw	
11	Display Window	-	
12	Remote controller recieiver	-	

NOTE

- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8]
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thiKness 10mm[3/8] or more)
- When installing the circular panel on the ceiling, make sure to install 2 or more inspection holes for the maintenance.
- The circular panel is by default available in exposed installation.
  Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
  (The size of an inspection hole must be at least 450 mm x 450 mm.)

Category	Inspection hole		
	Recessed installation		Exposed installation
	Integrated	suspended	
Square panel	1 ea	-	
Circular panel	2 ea		

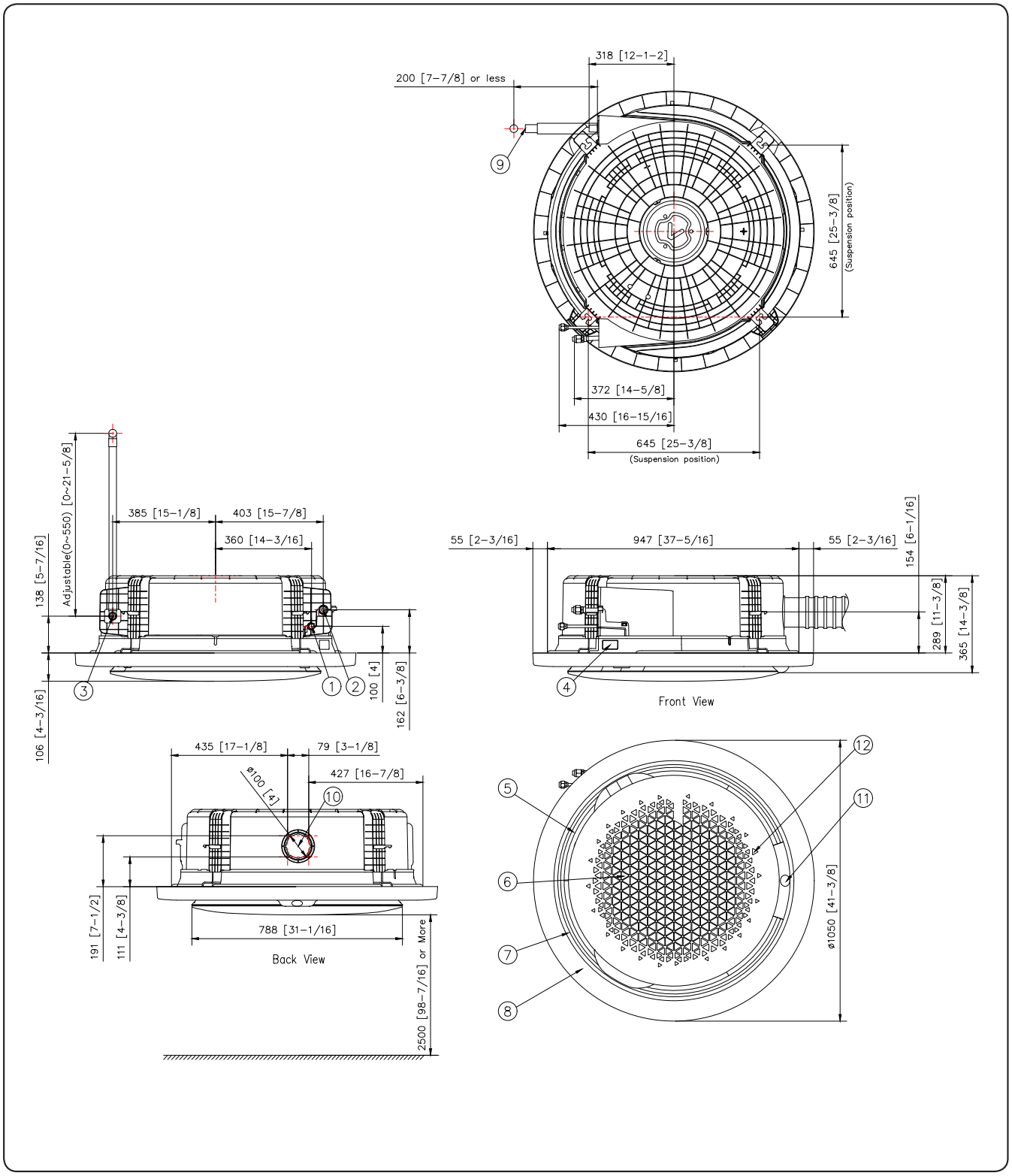
- A suspended ceiling structure can substitute for the inspection holes.

4. Dimensional Drawing

360 Cassette (Circular)

AM112DN6DKG/EU, AM128DN6DKG/EU, AM140DN6DKG/EU

Units : mm [inches]



4. Dimensional Drawing

360 Cassette (Circular)

No.	Name	Description
1	Liquid pipe connection	Φ9.52[3/8]
2	Gas pipe connection	Φ15.88[5/8]
3	Drain pipe connection	VP-25(OD32, ID25)
4	Power supply & Communication wiring conduit	-
5	Air Discharge opening	-
6	Air suction grille	-
7	Suction rim for Booster fan	-
8	Decoration cover	-
9	Drain hose (Accessory)	-
10	Fresh air intake knockout hole	Use M4 Screw
11	Display Window	-
12	Remote controller recieiver	-

NOTE

- As for suspension bolt, please use M8 ~ M10. (Procured at local site)
- Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8]
- When the condition exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam , thiKness 10mm[3/8] or more)
- When installing the circular panel on the ceiling, make sure to install 2 or more inspection holes for the maintenance.
- The circular panel is by default available in exposed installation.
  Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
  (The size of an inspection hole must be at least 450 mm x 450 mm.)

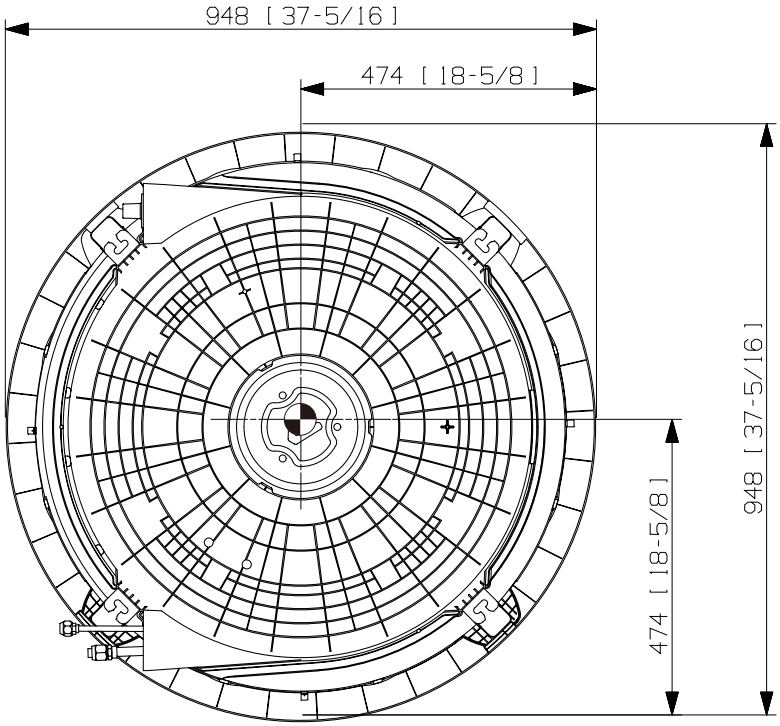
Category	Inspection hole		
	Recessed installation		Exposed installation
	Integrated	suspended	
Square panel	1 ea	-	
Circular panel	2 ea		

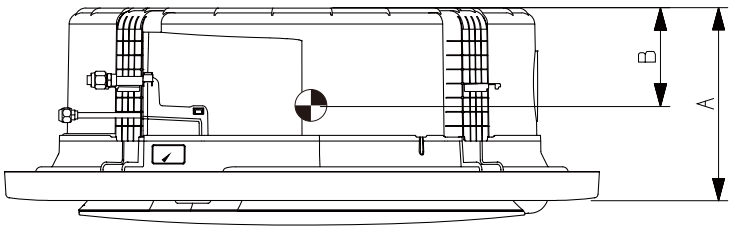
- A suspended ceiling structure can substitute for the inspection holes.

5. Center of Gravity

360 Cassette

Units : mm [inches]

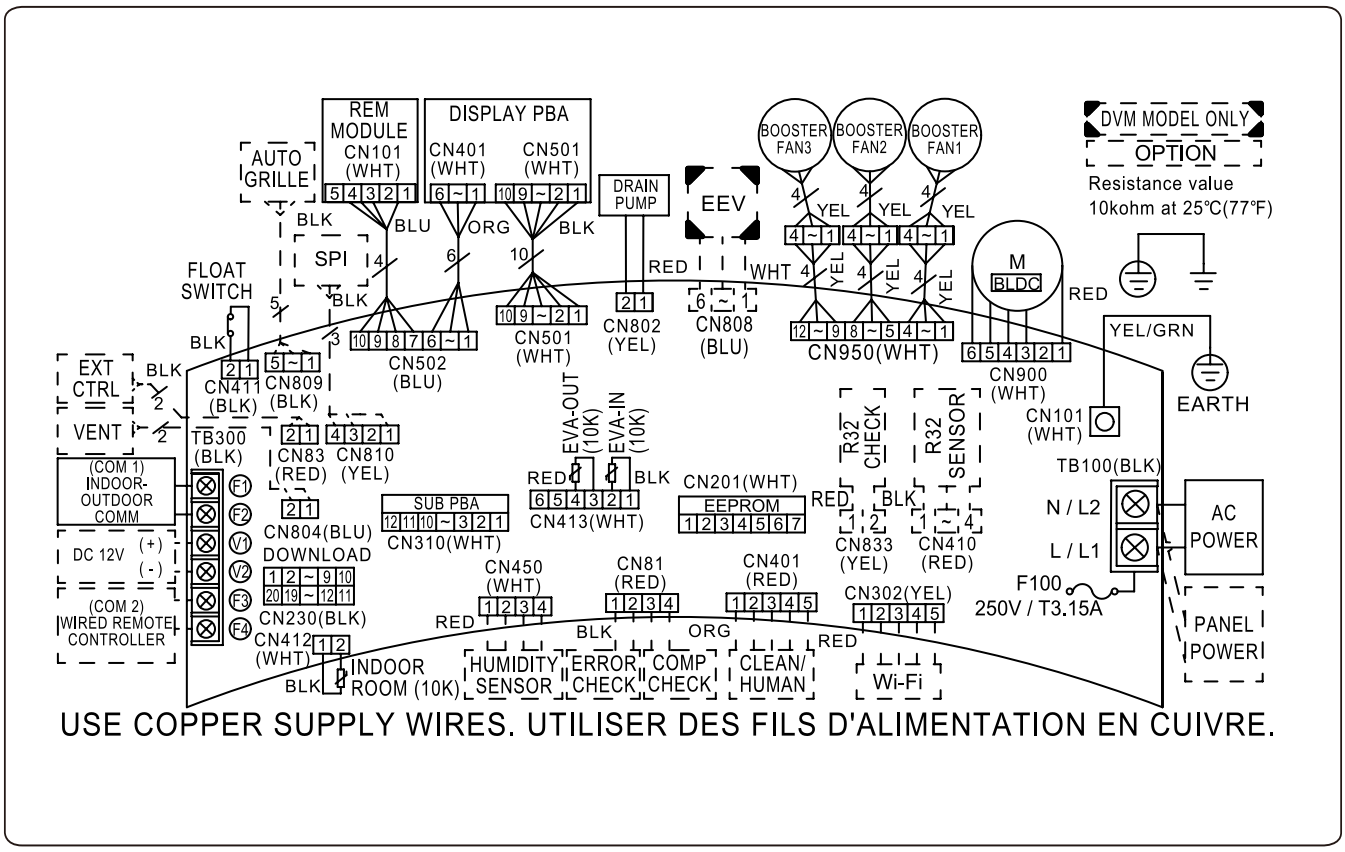




Model	A	B
AM045DN6DKG/EU AM056DN6DKG/EU AM071DN6DKG/EU AM090DN6DKG/EU	233 [9-3/16]	165 [6-1/2]
AM112DN6DKG/EU AM128DN6DKG/EU AM140DN6DKG/EU	317 [12-1/2]	220 [8-5/8]

6. Electrical Wiring Diagram

360 Cassette



F100	FUSE	EEV	Electronic Expansion Valve	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-IN(10K)	Thermistor EVA IN(10K)
				EVA-OUT(10K)	Thermistor EVA OUT(10K)

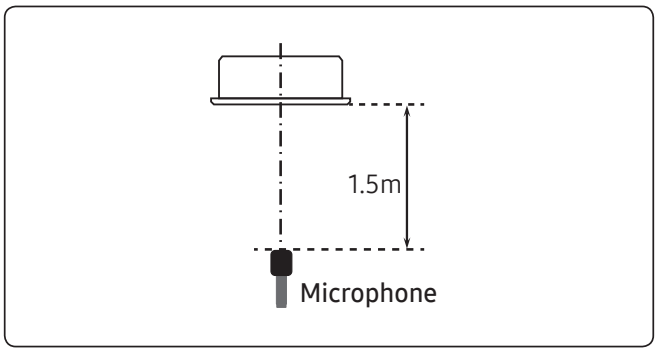
NOTE

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

7. Sound Data

360 Cassette

Sound Pressure level

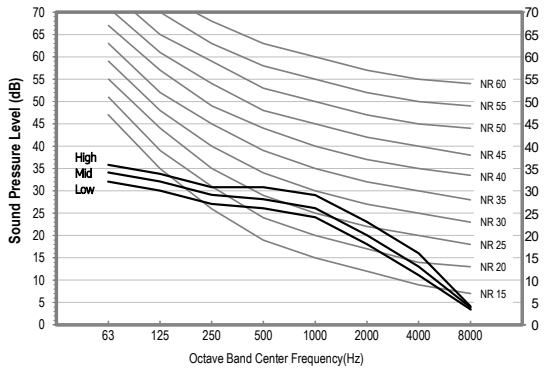


Unit: dB(A)

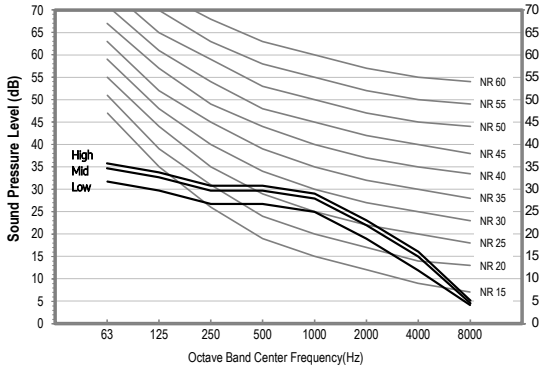
Model	High	MID	LOW
AM045DN6DKG/EU	33	31	29
AM056DN6DKG/EU	34	32	29
AM071DN6DKG/EU	36	33	30
AM090DN6DKG/EU	40	36	32

- NR Curve

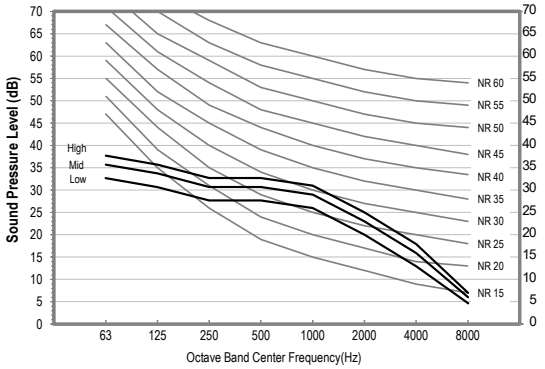
1) AM045DN6DKG/EU



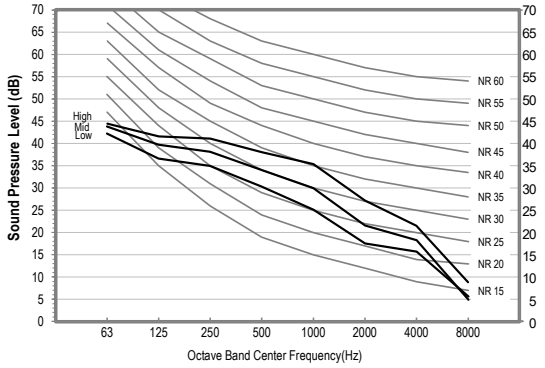
2) AM056DN6DKG/EU



3) AM071DN6DKG/EU



4) AM090DN6DKG/EU



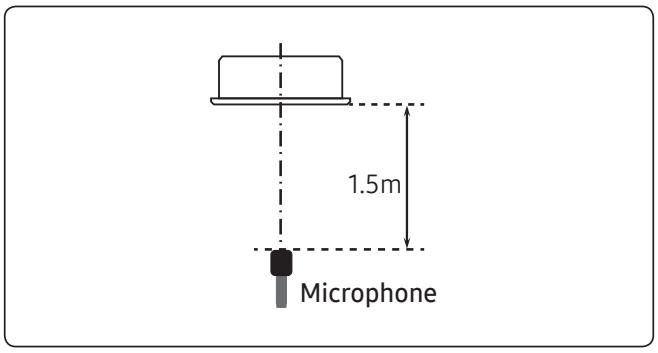
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

360 Cassette

Sound Pressure level

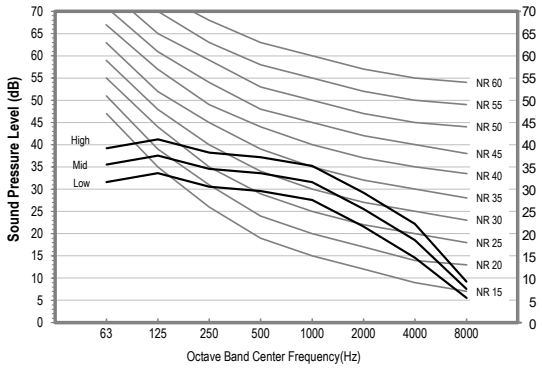


Unit: dB(A)

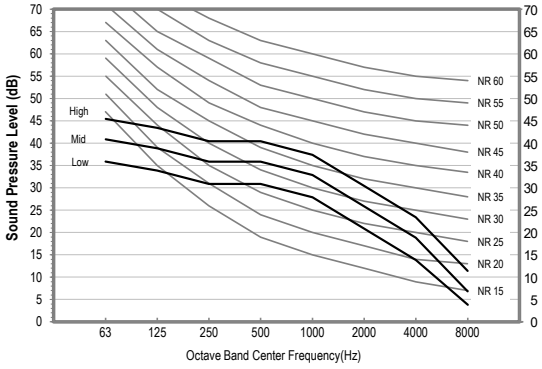
Model	High	MID	LOW
AM112DN6DKG/EU	40	36	32
AM128DN6DKG/EU	42	38	33
AM140DN6DKG/EU	44	40	35

- NR Curve

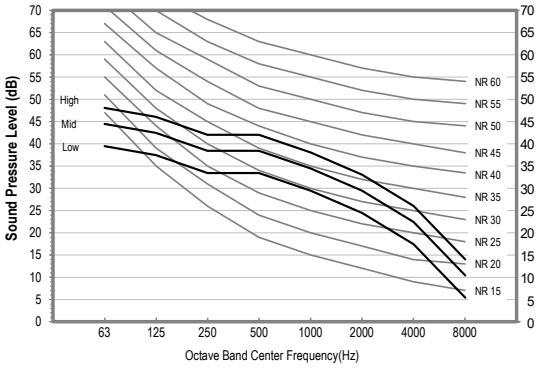
1) AM112DN6DKG/EU



2) AM128DN6DKG/EU



3) AM140DN6DKG/EU



NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

360 Cassette

Sound Power level

NOTE

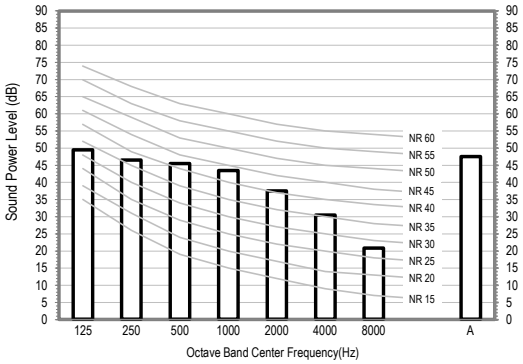
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

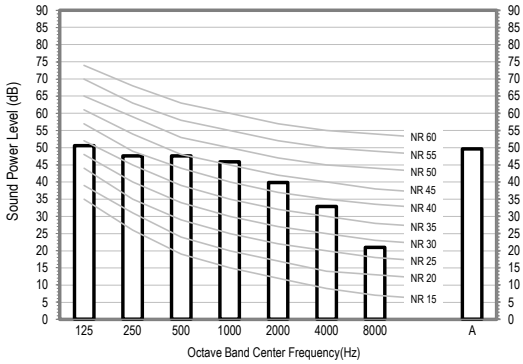
Model	Power
AM045DN6DKG/EU	50
AM056DN6DKG/EU	51
AM071DN6DKG/EU	53
AM090DN6DKG/EU	57

- NR Curve

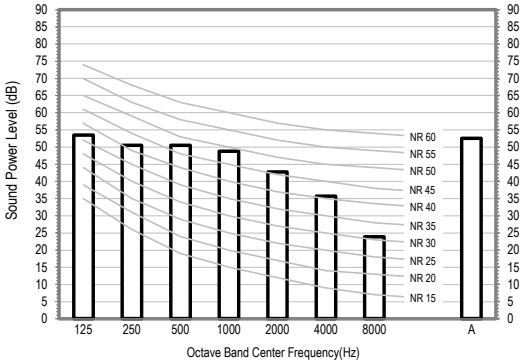
1) AM045DN6DKG/EU



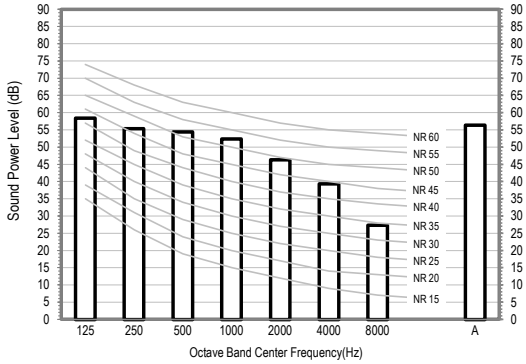
2) AM056DN6DKG/EU



3) AM071DN6DKG/EU



4) AM090DN6DKG/EU



7. Sound Data

360 Cassette

Sound Power level

NOTE

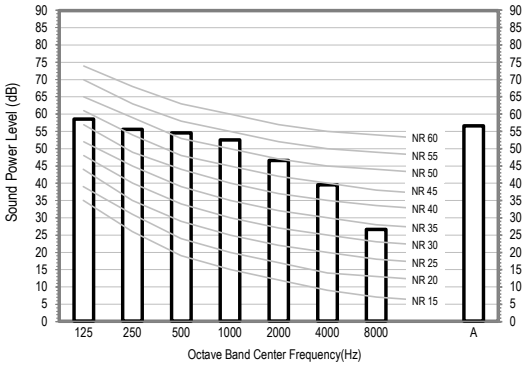
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

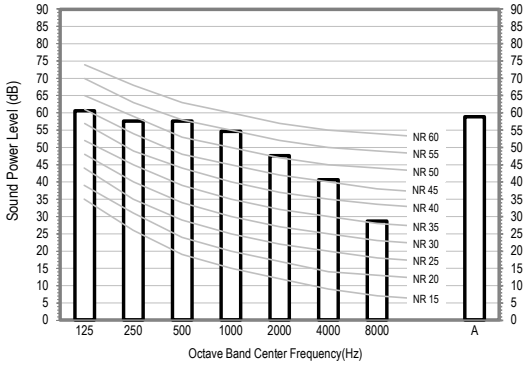
Model	Power
AM112DN6DKG/EU	58
AM128DN6DKG/EU	60
AM140DN6DKG/EU	61

- NR Curve

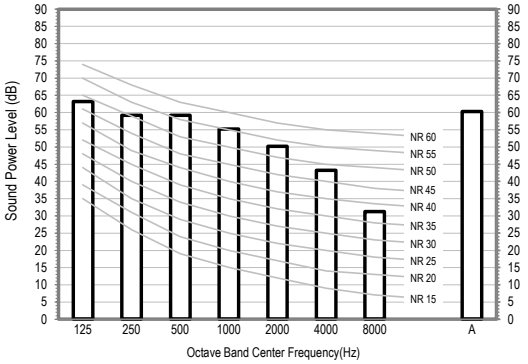
1) AM112DN6DKG/EU



2) AM128DN6DKG/EU



3) AM140DN6DKG/EU



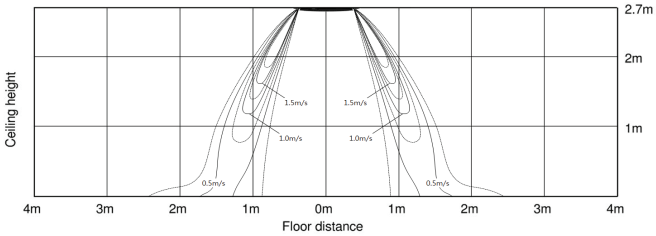
8.Temperature and air flow distribution

360 Cassette

AM045DN6DKG/EU

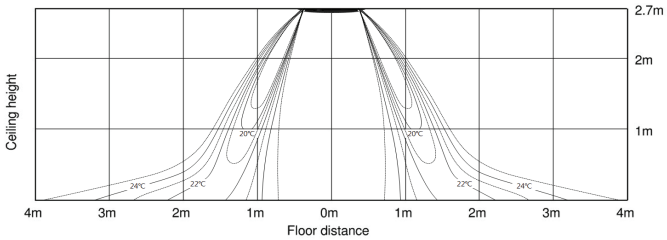
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



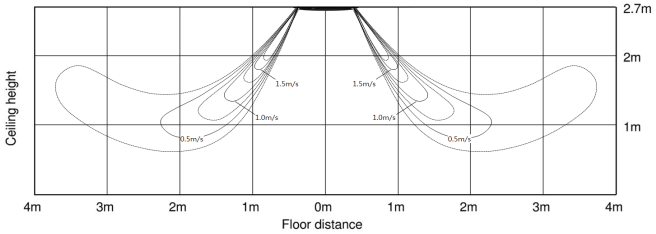
- Cooling temperature distribution

(Discharge angle : 60 degree)



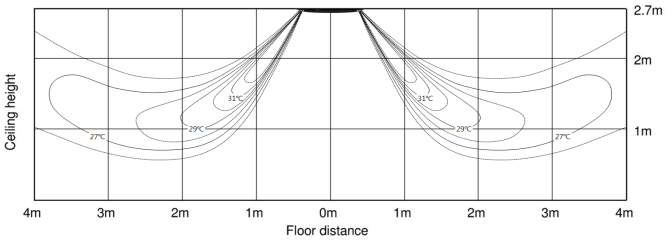
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

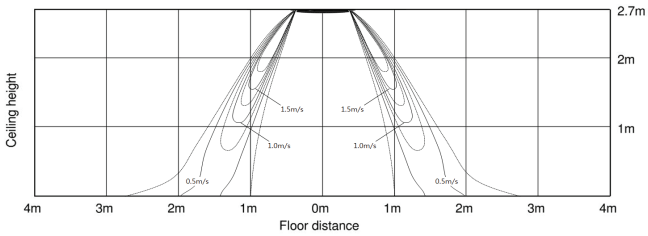
(Discharge angle : 60 degree)



AM056DN6DKG/EU

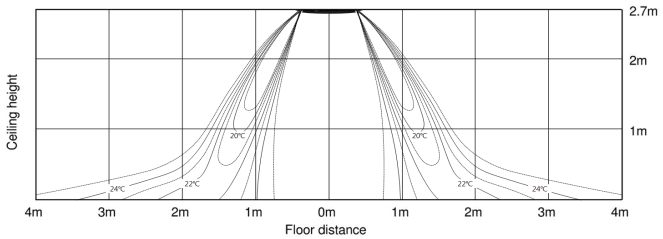
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



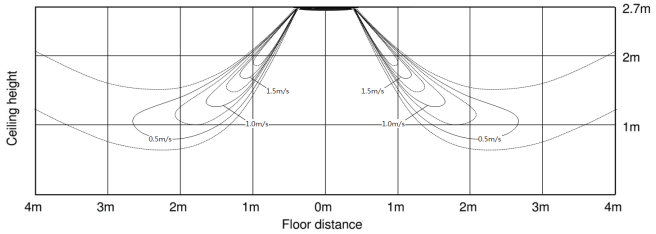
- Cooling temperature distribution

(Discharge angle : 60 degree)



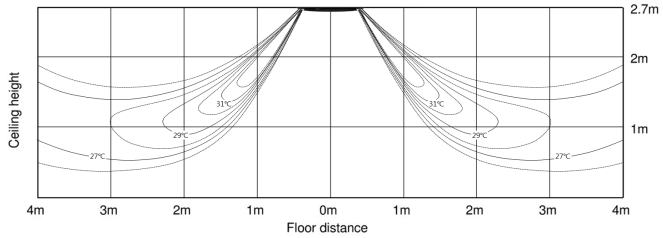
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



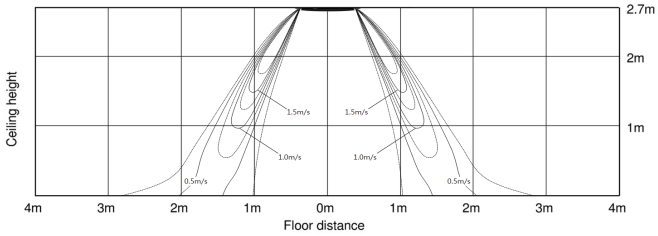
8.Temperature and air flow distribution

360 Cassette

AM071DN6DKG/EU

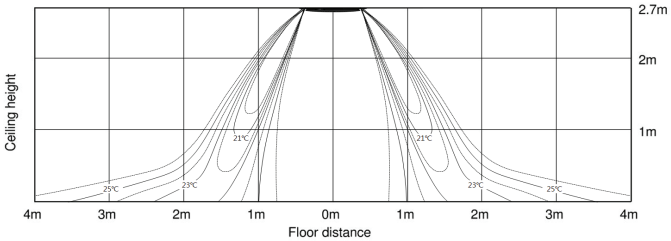
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



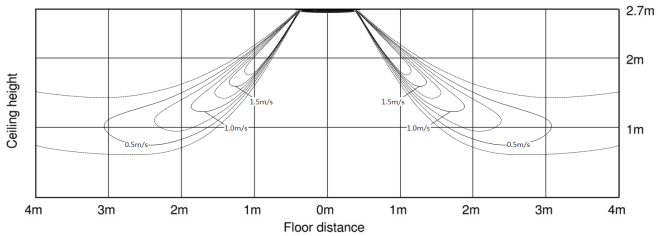
- Cooling temperature distribution

(Discharge angle : 60 degree)



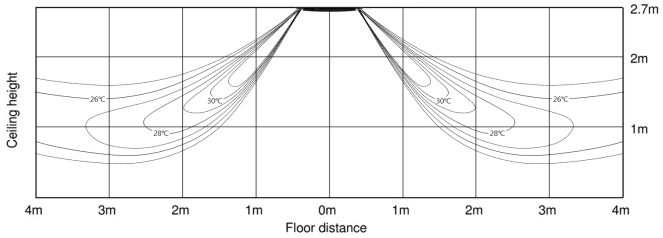
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

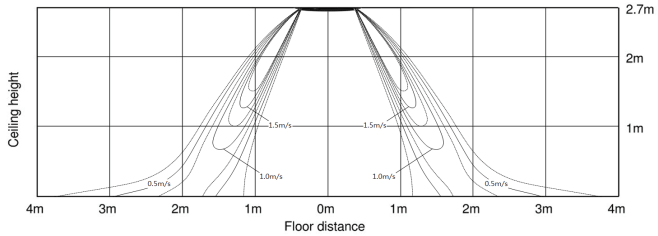
(Discharge angle : 60 degree)



AM090DN6DKG/EU

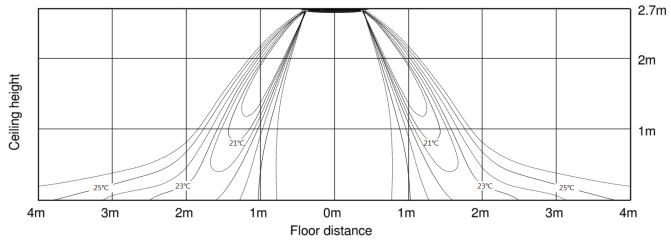
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



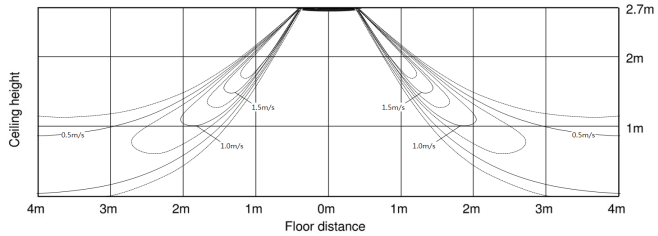
- Cooling temperature distribution

(Discharge angle : 60 degree)



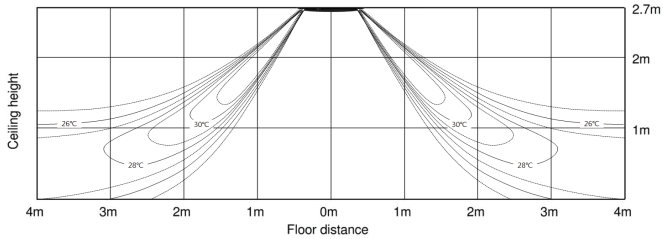
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



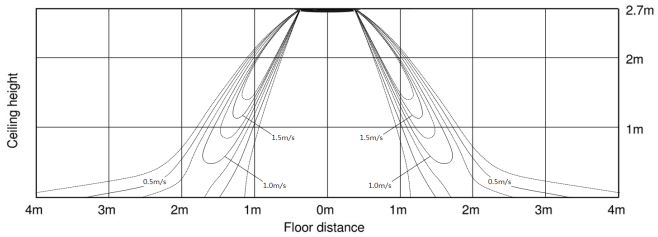
8.Temperature and air flow distribution

360 Cassette

AM112DN6DKG/EU

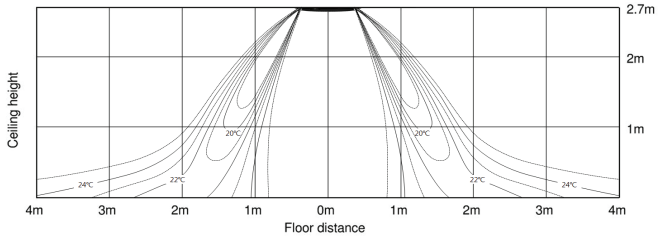
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



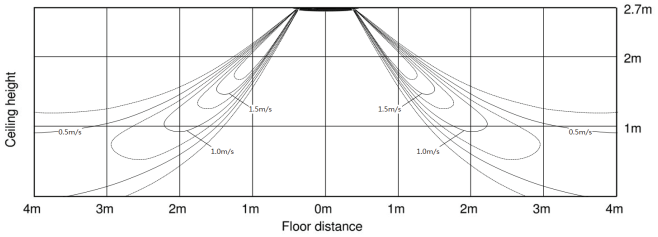
- Cooling temperature distribution

(Discharge angle : 60 degree)



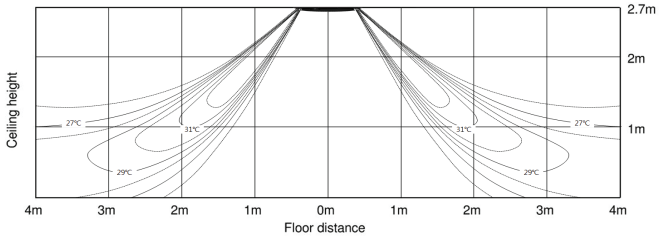
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

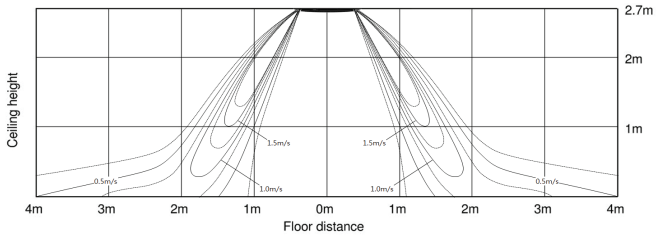
(Discharge angle : 60 degree)



AM128DN6DKG/EU

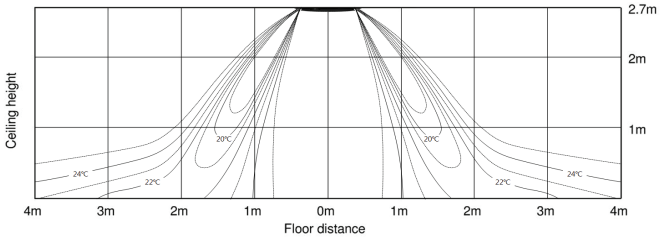
- Cooling Air Velocity distribution

(Discharge angle : 60 degree)



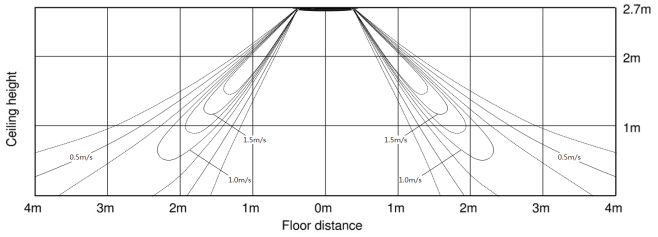
- Cooling temperature distribution

(Discharge angle : 60 degree)



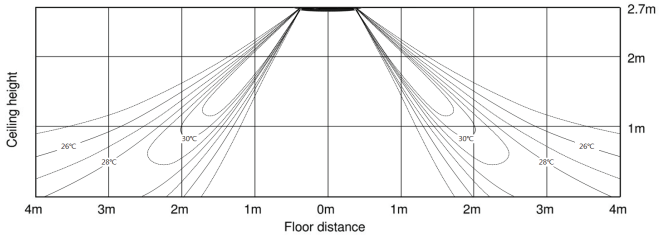
- Heating Air Velocity distribution

(Discharge angle : 60 degree)



- Heating temperature distribution

(Discharge angle : 60 degree)



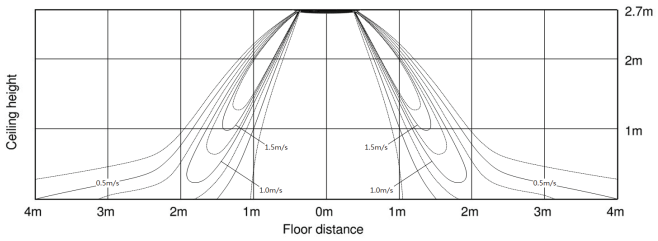
8.Temperature and air flow distribution

360 Cassette

AM140DN6DKG/EU

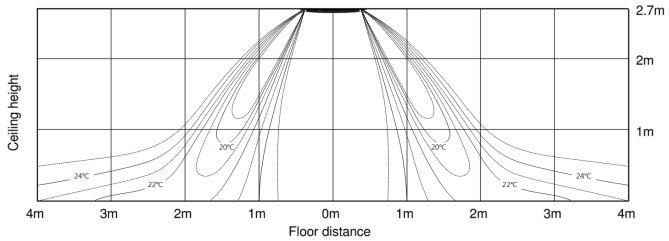
- Cooling Air Velocity distribution

  (Discharge angle : 60 degree)



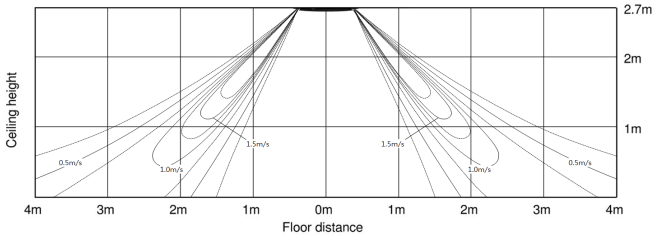
- Cooling temperature distribution

  (Discharge angle : 60 degree)



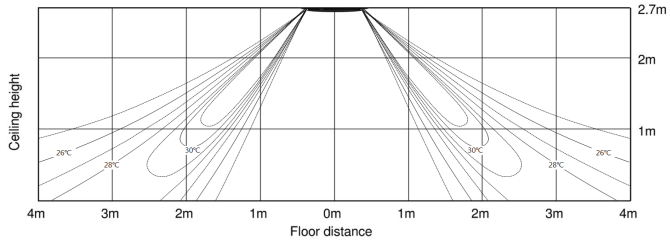
- Heating Air Velocity distribution

  (Discharge angle : 60 degree)



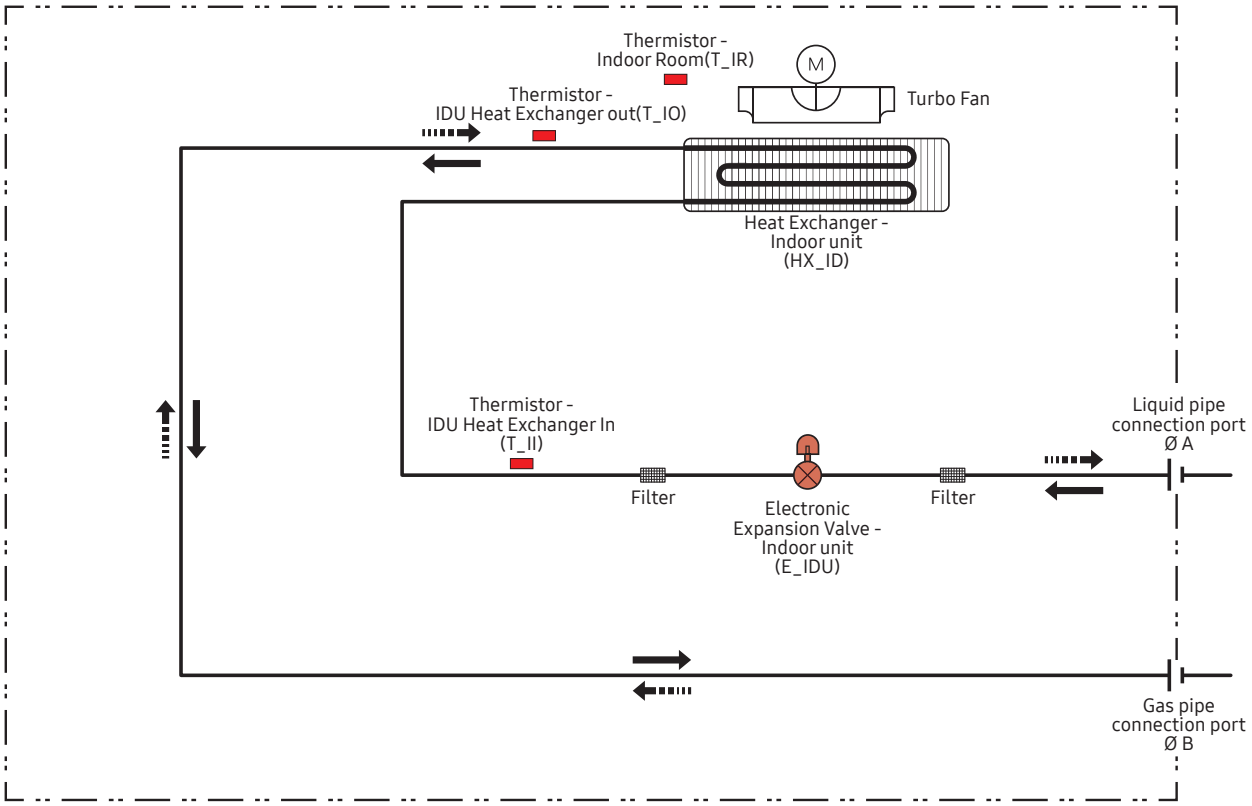
- Heating temperature distribution

  (Discharge angle : 60 degree)



9. Piping Diagram

360 Cassette

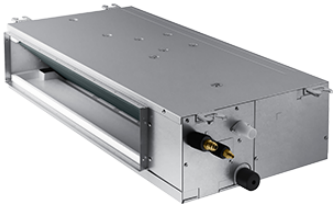
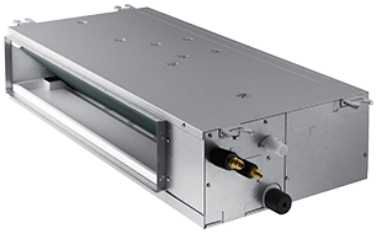


Refrigerant flow	
Cooling	Heating
→	⇢

LSP Duct

Line-up

LSP Duct

Capacity (kW)						
1.7	2.2	2.8	3.6	4.5	5.6	7.1
						

1. Specification

LSP Duct

Model Name				AM017DNLDKG/EU	AM022DNLDKG/EU	AM028DNLDKG/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	1.7	2.2	2.8
			Btu/h	5,800	7,500	9,600
		Heating	kW	1.9	2.5	3.2
			Btu/h	6,500	8,500	10,900
Power	Power Input	Cooling	W	28.0	30.0	34.0
		Heating		28.0	30.0	36.0
	Current Input	Cooling	A	0.23	0.25	0.28
		Heating		0.23	0.25	0.30
	Current	MCA	A	0.35	0.38	0.45
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2
	Air Flow Rate	H/M/L	m³/min	5.45 / 4.45 / 3.8	6 / 4.9 / 3.8	7.05 / 5.15 / 4.35
			l/s	91 / 74 / 63	100 / 82 / 63	118 / 86 / 73
	External Pressure	Min/Std/Max	mmAq	0 / 1 / 3	0 / 1 / 3	0 / 1 / 3
			Pa	0 / 9.81 / 29.42	0 / 9.81 / 29.42	0 / 9.81 / 29.42
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	69	69	69
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	25 / 22 / 19	26 / 23 / 19	28 / 24 / 19
	Sound Power Level	Cooling		40	42	44
External Dimension	Net Weight		kg	15.9	15.9	15.9
	Shipping Weight		kg	19.2	19.2	19.2
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	700 x 199 x 440	700 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	949 x 280 x 544	949 x 280 x 544
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	Built in	Built in	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

LSP Duct

Model Name				AM036DNLDKG/EU	AM045DNLDKG/EU	AM056DNLDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	3.6	4.5	5.6
			Btu/h	12,300	15,400	19,100
		Heating	kW	4.0	5.0	6.3
			Btu/h	13,600	17,100	21,500
Power	Power Input	Cooling	W	40.0	51.0	73.0
		Heating		42.0	46.0	68.0
	Current Input	Cooling	A	0.33	0.50	0.62
		Heating		0.35	0.40	0.58
	Current	MCA	A	0.53	0.64	0.92
		MFA		15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		EA	2	2	2
	Air Flow Rate	H/M/L	m³/min	8.2 / 6.5 / 4.9	12.5 / 10 / 7.5	15.5 / 12.5 / 9.5
			l/s	137 / 108 / 82	208 / 167 / 125	258 / 208 / 158
	External Pressure	Min/Std/Max	mmAq	0 / 1 / 3	0 / 2 / 4	0 / 2 / 4
			Pa	0 / 9.81 / 29.42	0 / 19.61 / 39.23	0 / 19.61 / 39.23
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	69	84	84
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	31 / 26 / 20	32 / 28 / 25	34 / 30 / 26
	Sound Power Level	Cooling		46	47	49
External Dimension	Net Weight		kg	16.3	19.3	19.3
	Shipping Weight		kg	19.6	22.8	22.8
	Net Dimensions (W×H×D)		mm	700 x 199 x 440	900 x 199 x 440	900 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	949 x 280 x 544	1,151 x 280 x 544	1,151 x 280 x 544
Casing	Material		-	Steel	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-	-
		Internal Model	-	Built in	Built in	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

LSP Duct

Model Name				AM071DNLDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	7.1
			Btu/h	24,200
		Heating	kW	8.0
			Btu/h	27,300
Power	Power Input	Cooling	W	82.0
		Heating		77.0
	Current Input	Cooling	A	0.69
		Heating		0.65
	Current	MCA	A	1.04
		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	m³/min	18 / 14.5 / 11
			l/s	300 / 242 / 183
	External Pressure	Min/Std/Max	mmAq	0 / 2 / 4
			Pa	0 / 19.61 / 39.23
Fan Motor	Type		-	BLDC
	Output x n		W	84
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 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75
			-	F1, F2
Refrigerant	Type		-	R32
	Control Method		-	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	34 / 30 / 27
	Sound Power Level	Cooling		49
External Dimension	Net Weight		kg	22.7
	Shipping Weight		kg	26.4
	Net Dimensions (W×H×D)		mm	1,100 x 199 x 440
	Shipping Dimensions (W×H×D)		mm	1,351 x 280 x 544
Casing	Material		-	Steel
Additional Accessories	Drain pump	External Model	-	-
		Internal Model	-	Built in
		Max. lifting	mm / Liter/h	750 / 24
	Air Filter		-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

2. Summary Table

LSP Duct

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity [kW]			Airflow [CMM]	Sound Pressure [dBA]	Sound Power [dBA]	Static Pressure (Min/Std/Max) [mmAq]
		Cooling	Sensible	Heating				
AM017DNLDKG/EU	High	1.7	1.3	1.9	5.50	25	40	0 / 1 / 3
	Mid	1.4	1.1	1.7	4.50	22	-	
	Low	1.2	0.9	1.6	3.80	19	-	
AM022DNLDKG/EU	High	2.2	1.6	2.5	6.00	26	42	0 / 1 / 3
	Mid	1.8	1.3	2.3	4.90	23	-	
	Low	1.4	1.0	2.0	3.80	19	-	
AM028DNLDKG/EU	High	2.8	2.0	3.2	7.05	28	44	0 / 1 / 3
	Mid	2.1	1.5	2.7	5.15	24	-	
	Low	1.8	1.3	2.5	4.35	19	-	
AM036DNLDKG/EU	High	3.6	2.6	4.0	8.20	31	46	0 / 1 / 3
	Mid	2.9	2.1	3.6	6.50	26	-	
	Low	2.2	1.6	3.1	4.90	20	-	
AM045DNLDKG/EU	High	4.5	3.3	5.0	12.50	32	47	0 / 2 / 4
	Mid	3.7	2.7	4.5	10.00	28	-	
	Low	2.8	2.1	3.9	7.50	25	-	
AM056DNLDKG/EU	High	5.6	4.2	6.3	15.50	34	49	0 / 2 / 4
	Mid	4.6	3.5	5.7	12.50	30	-	
	Low	3.5	2.6	4.9	9.50	26	-	
AM071DNLDKG/EU	High	7.1	5.4	8.0	18.00	34	49	0 / 2 / 4
	Mid	5.9	4.5	7.2	14.50	30	-	
	Low	4.5	3.4	6.3	11.00	27	-	

NOTE

- Sound data is based on cooling operation.

Electrical Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM017DNLDKG/EU	1,2,220~240,50/60	28	0.23	0.35	15	0.28
AM022DNLDKG/EU		30	0.25	0.38	15	0.30
AM028DNLDKG/EU		34	0.28	0.45	15	0.36
AM036DNLDKG/EU		40	0.33	0.53	15	0.42
AM045DNLDKG/EU		51	0.45	0.64	15	0.51
AM056DNLDKG/EU		73	0.62	0.92	15	0.74
AM071DNLDKG/EU		82	0.69	1.04	15	0.83

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

LSP Duct

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
017	35	1.2	1.0	1.4	1.2	1.6	1.3	1.7	1.3	1.8	1.3	1.9	1.3	2.0	1.2
022	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
028	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
036	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
045	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
056	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
071	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

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)				
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
017	7.0	6.0	2.1	2.0	1.9	1.8	1.7
022	7.0	6.0	2.8	2.7	2.5	2.3	2.2
028	7.0	6.0	3.3	3.2	3.2	3.0	2.7
036	7.0	6.0	4.1	4.1	4.0	3.7	3.4
045	7.0	6.0	5.1	5.1	5.0	4.6	4.2
056	7.0	6.0	6.5	6.4	6.3	5.8	5.3
071	7.0	6.0	8.2	8.1	8.0	7.4	6.8

NOTE

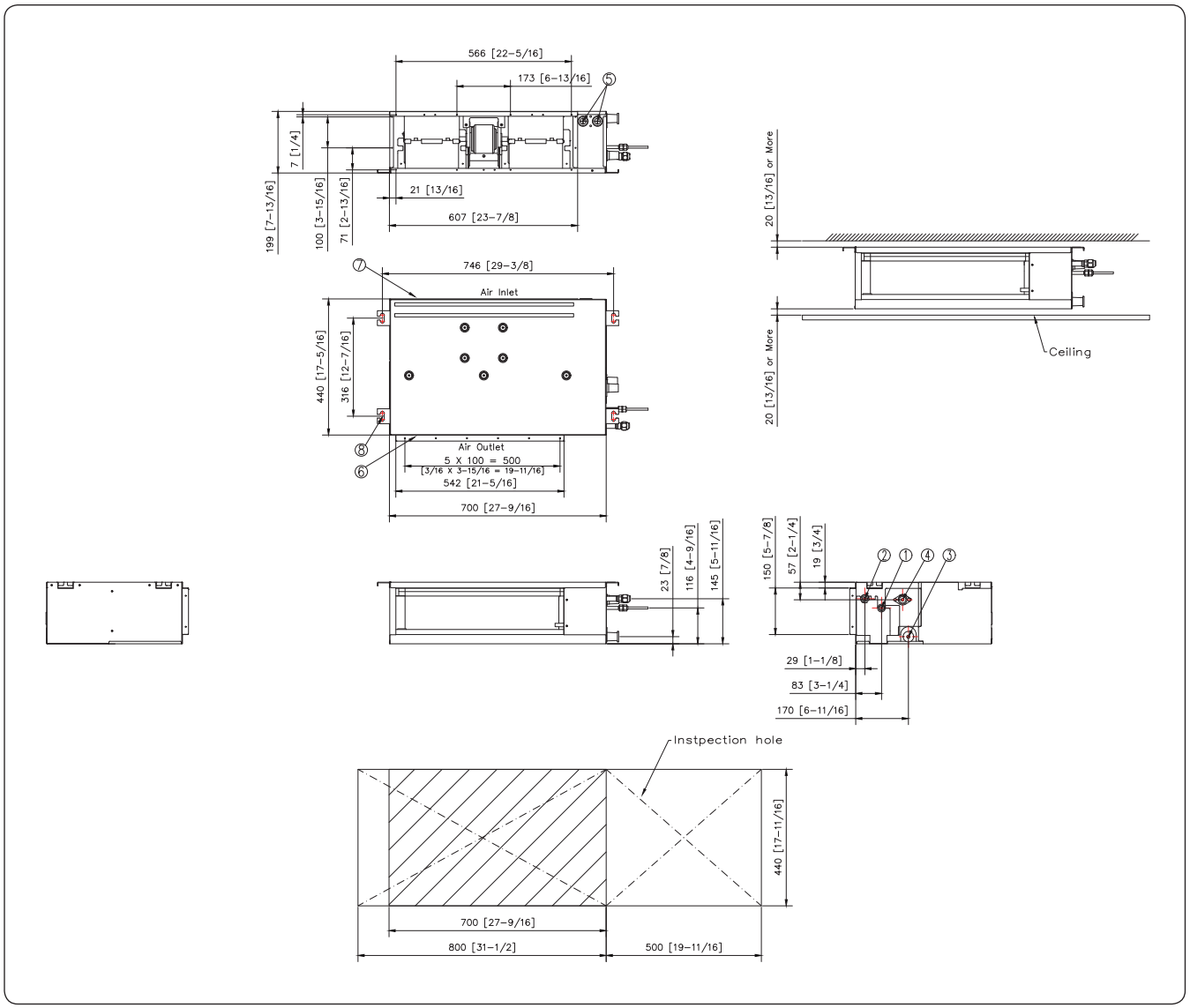
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

LSP Duct

AM017DNLDKG/EU, AM022DNLDKG/EU, AM028DNLDKG/EU, AM036DNLDKG/EU

Units : mm [inches]



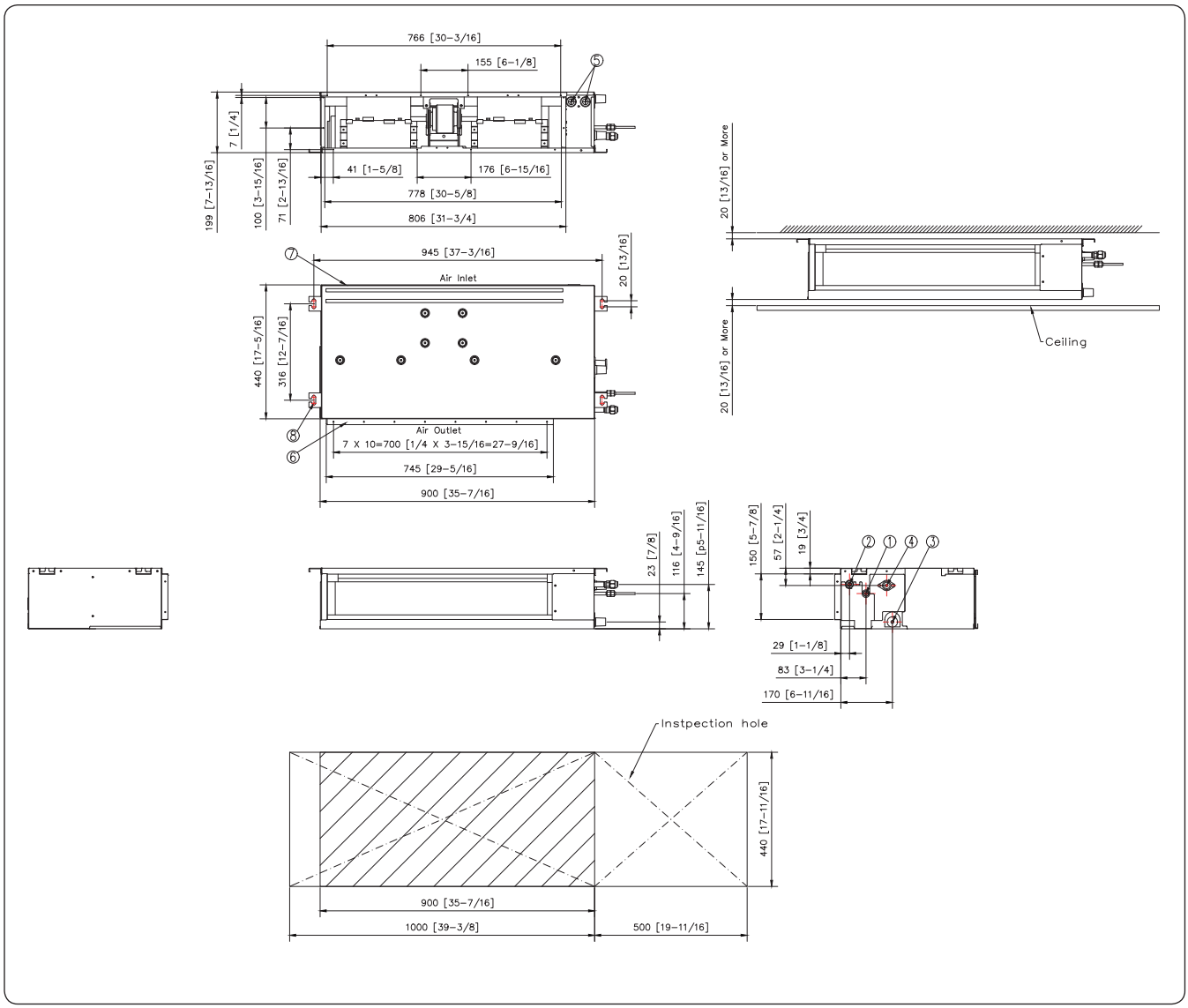
No.	Name	Description
①	Liquid pipe connection	Ø6.35 (1/4)
②	Gas pipe connection	Φ12.70 (1/2)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)
④	Drain pipe connection (With drain pump)	-
⑤	Power & Communication Conduits	-
⑥	Air discharge grille flange	-
⑦	Return Air Side	-
⑧	Hook	Ø9.52 or M10

4. Dimensional Drawing

LSP Duct

AM045DNLDKG/EU, AM056DNLDKG/EU

Units : mm [inches]



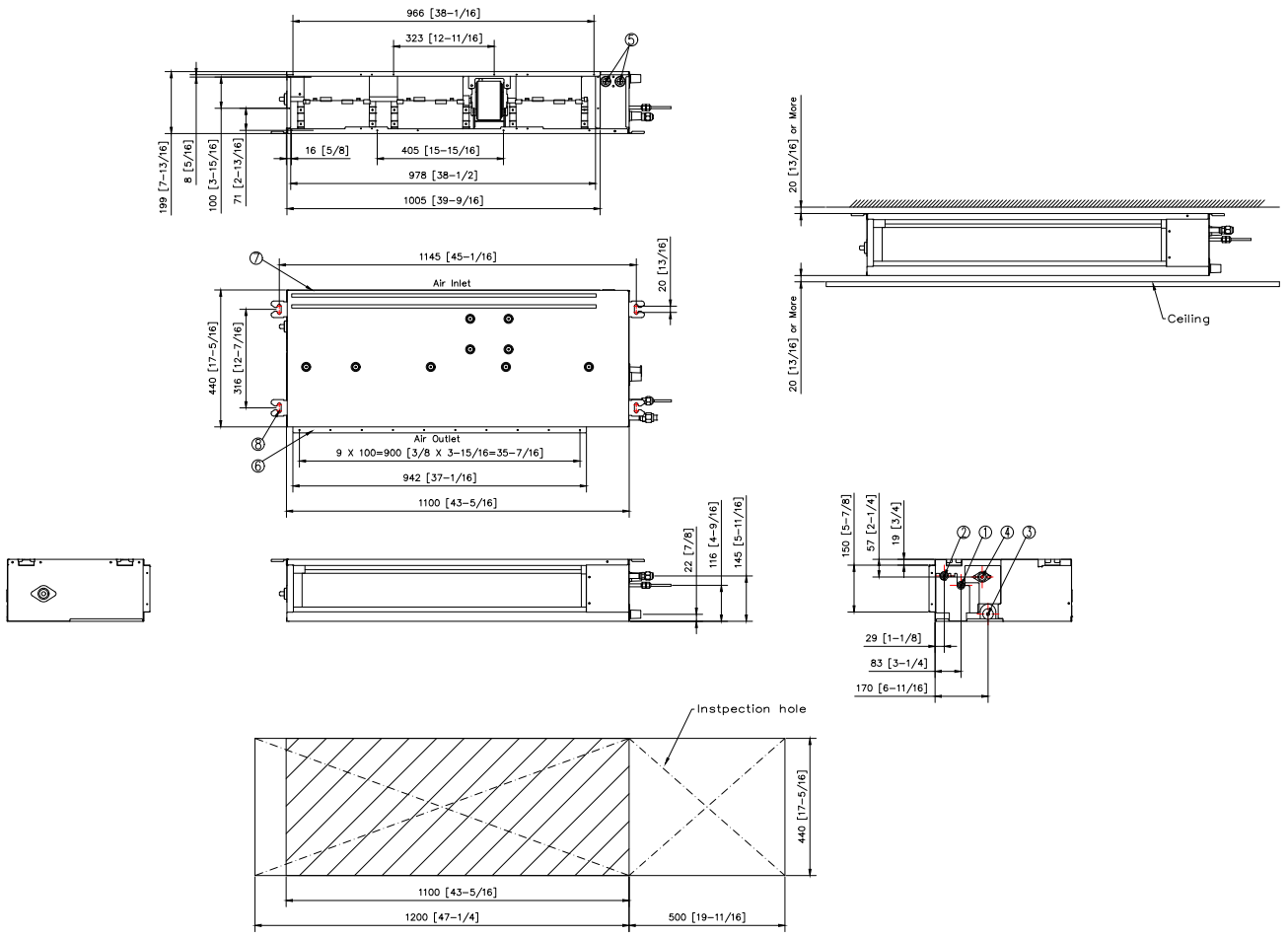
No.	Name	Description
①	Liquid pipe connection	Ø6.35 (1/4)
②	Gas pipe connection	Φ12.70 (1/2)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)
④	Drain pipe connection (With drain pump)	-
⑤	Power & Communication Conduits	-
⑥	Air discharge grille flange	-
⑦	Return Air Side	-
⑧	Hook	Ø9.52 or M10

4. Dimensional Drawing

LSP Duct

AM071DNLDKG/EU

Units : mm [inches]

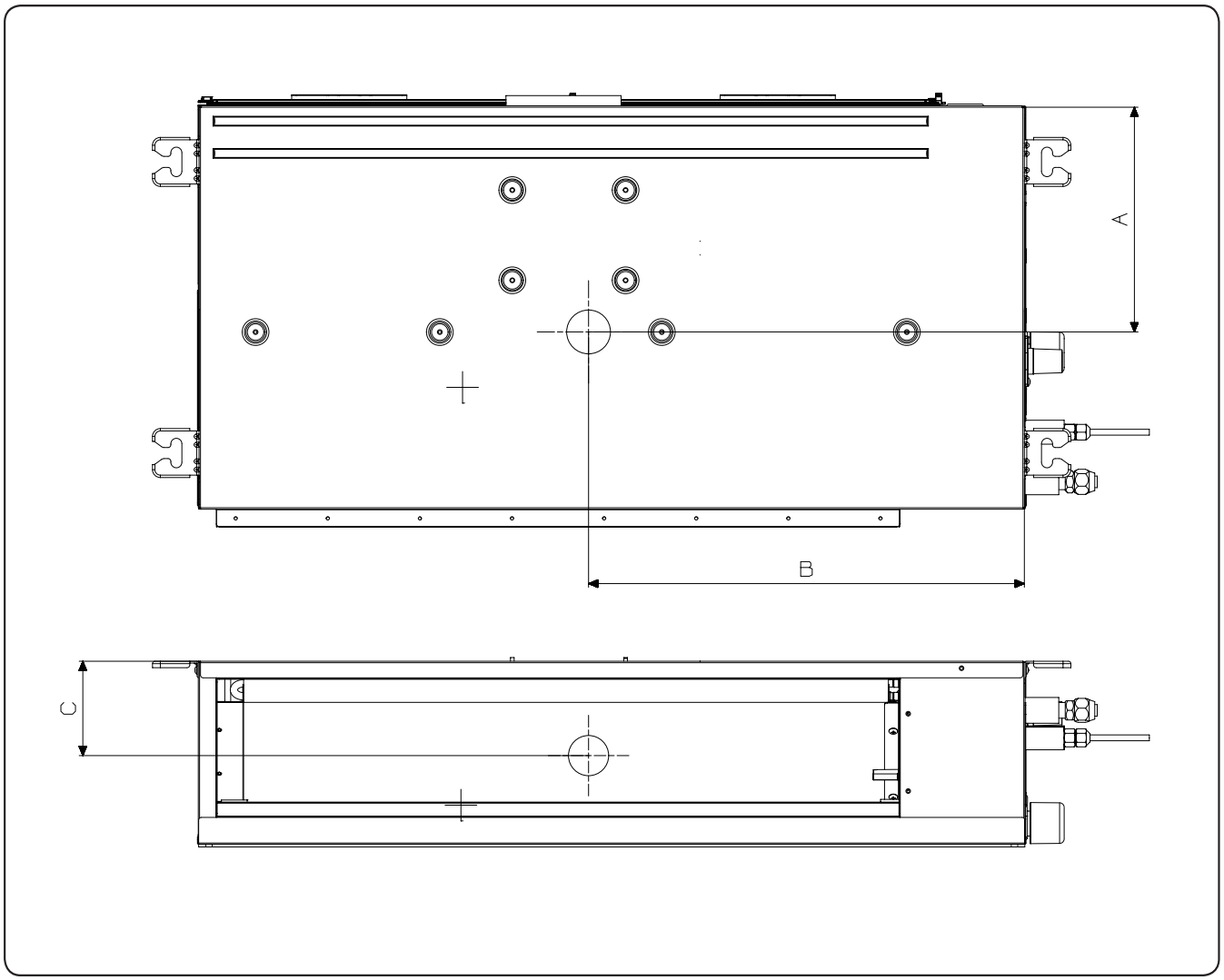


No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8)
②	Gas pipe connection	Φ15.88 (5/8)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)
④	Drain pipe connection (With drain pump)	-
⑤	Power & Communication Conduits	-
⑥	Air discharge grille flange	-
⑦	Return Air Side	-
⑧	Hook	Ø9.52 or M10

5. Center of Gravity

LSP Duct

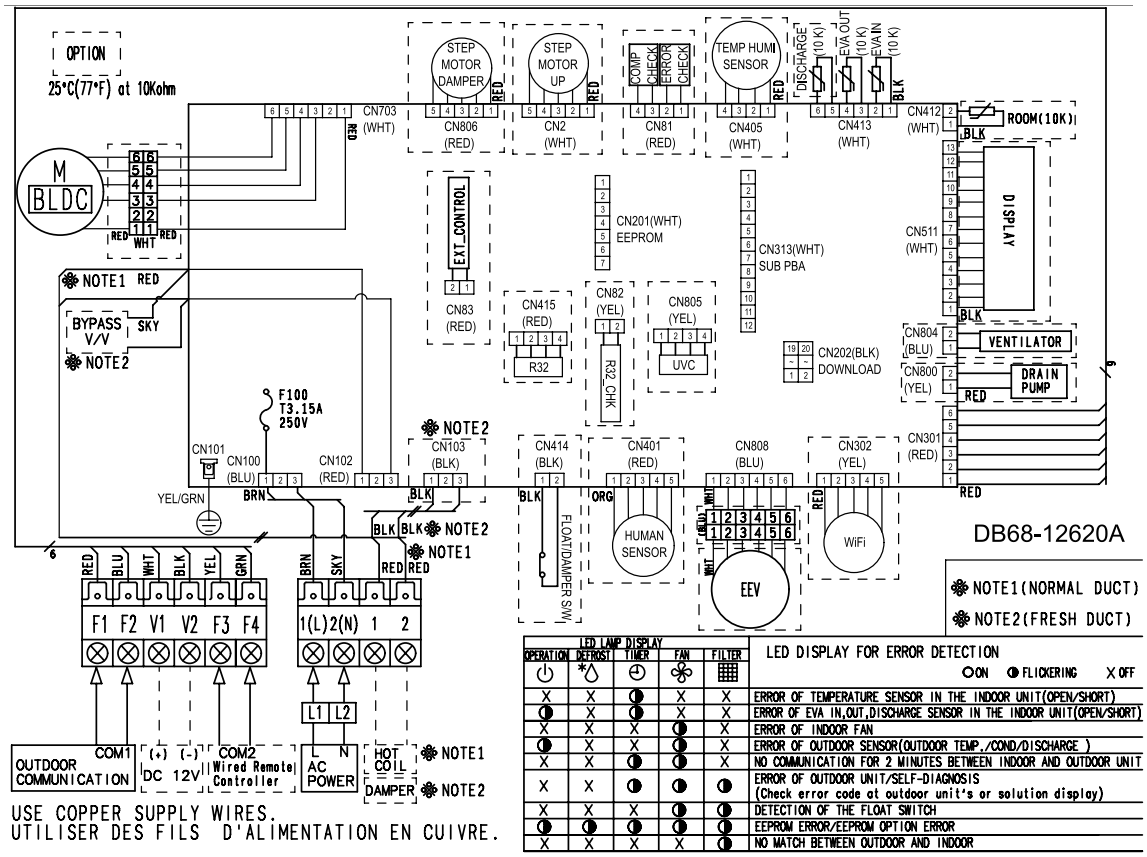
Units : mm [inches]



Model	A	B	C
AM017DNLDKG/EU, AM022DNLDKG/EU AM028DNLDKG/EU, AM036DNLDKG/EU	230 [9-1/16]	356 [14]	100 [3-15/16]
AM045DNLDKG/EU, AM056DNLDKG/EU	233 [9-3/16]	436 [17-3/16]	100 [3-15/16]
AM071DNLDKG/EU	240 [9-7/16]	540 [21-1/4]	100 [3-15/16]

6. Electrical Wiring Diagram

LSP Duct



M-BLDC	BLDC Motor	EEV	Electronic Expansion Valve	EVA-IN (10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE (10K)			EVA-OUT (10K)	Thermistor EVA OUT(10K)

NOTE

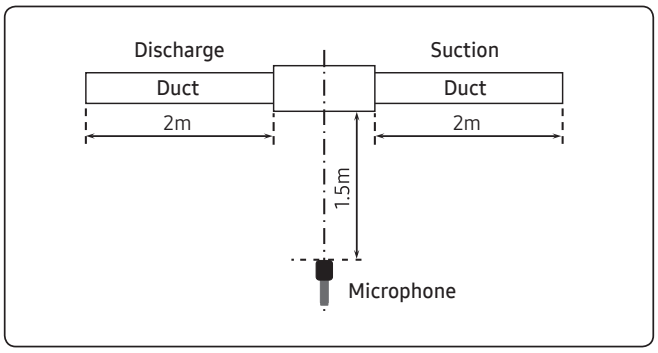
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow : BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏚ Protective earth(screw), ▭▭▭ : connector, N/ : The wire quantity

7. Sound Data

LSP Duct

Sound Pressure level

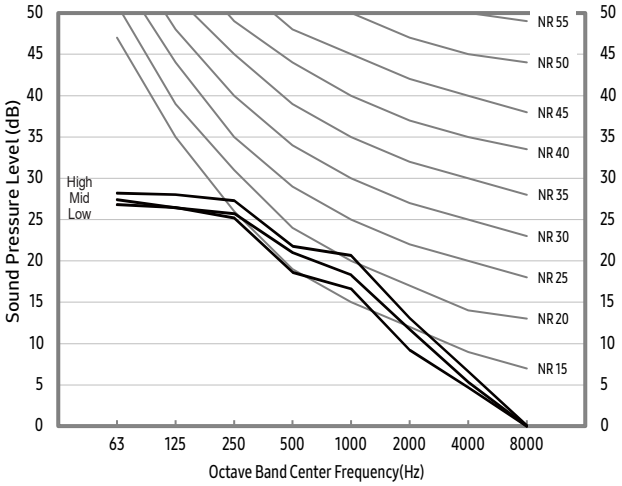
Unit: dB(A)



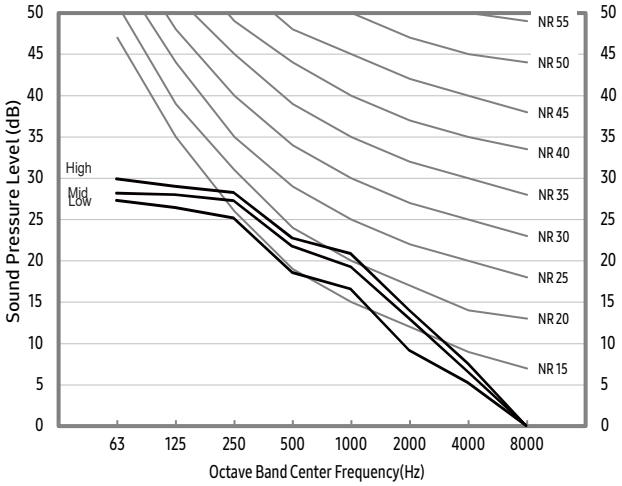
Model	High	Mid	Low
AM017DNLDKG/EU	25	22	19
AM022DNLDKG/EU	26	23	19
AM028DNLDKG/EU	28	24	19
AM036DNLDKG/EU	31	26	20

- NR Curve

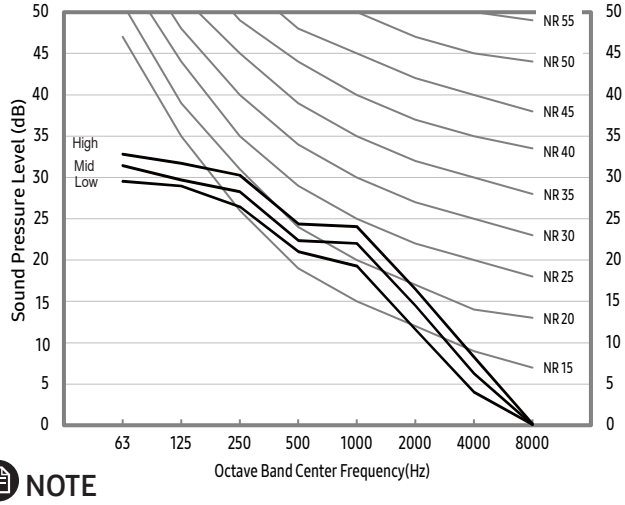
1) AM017DNLDKG/EU



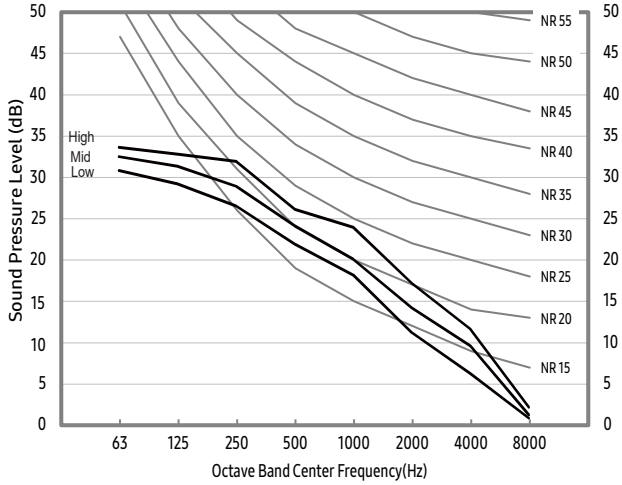
2) AM022DNLDKG/EU



3) AM028DNLDKG/EU



4) AM036DNLDKG/EU



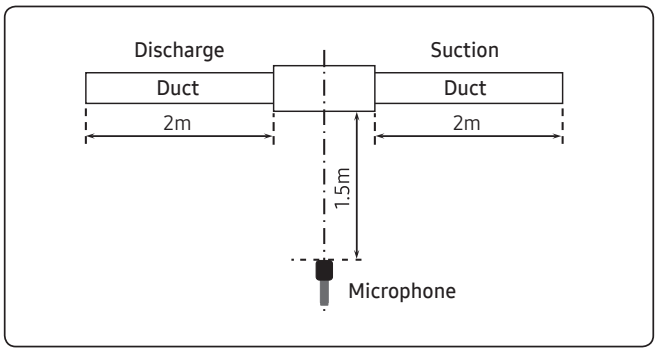
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

LSP Duct

Sound Pressure level

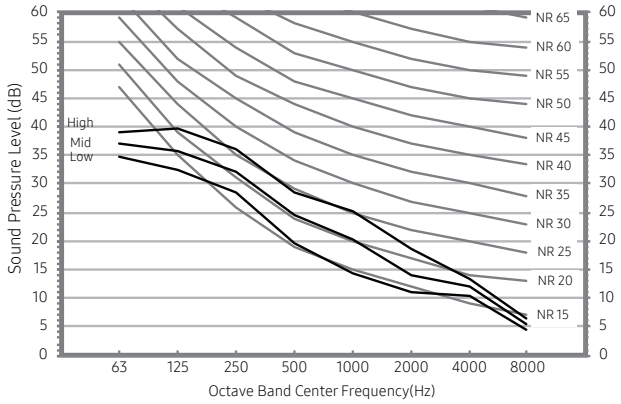


Unit: dB(A)

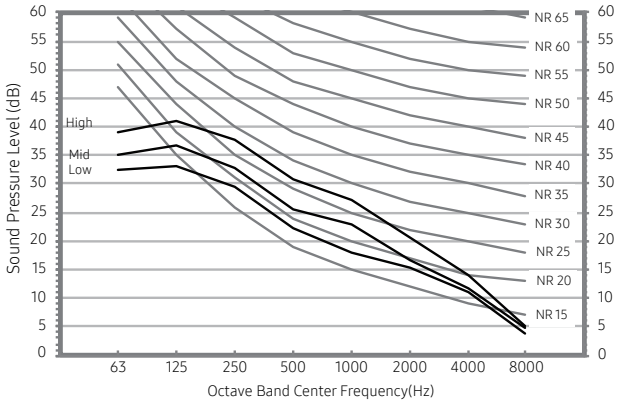
Model	High	Mid	Low
AM045DNLDKG/EU	32	28	25
AM056DNLDKG/EU	34	30	26
AM071DNLDKG/EU	34	30	27

- NR Curve

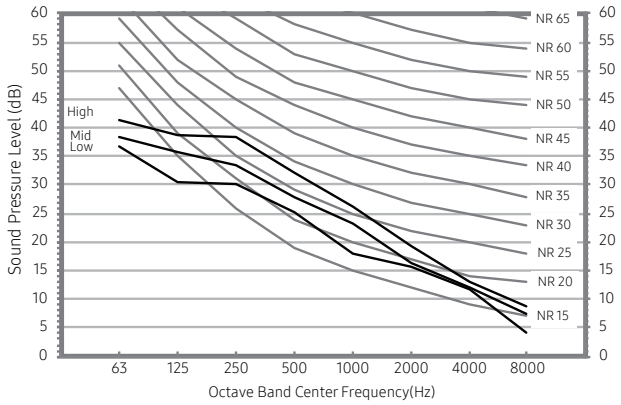
1) AM045DNLDKG/EU



2) AM056DNLDKG/EU



3) AM071DNLDKG/EU



NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

LSP Duct

Sound Power level

NOTE

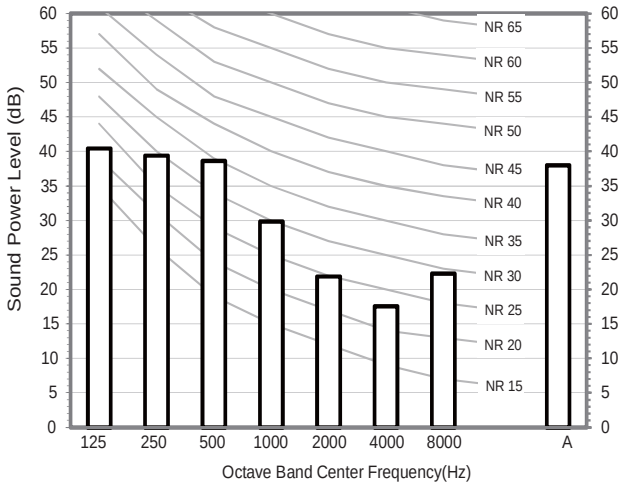
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

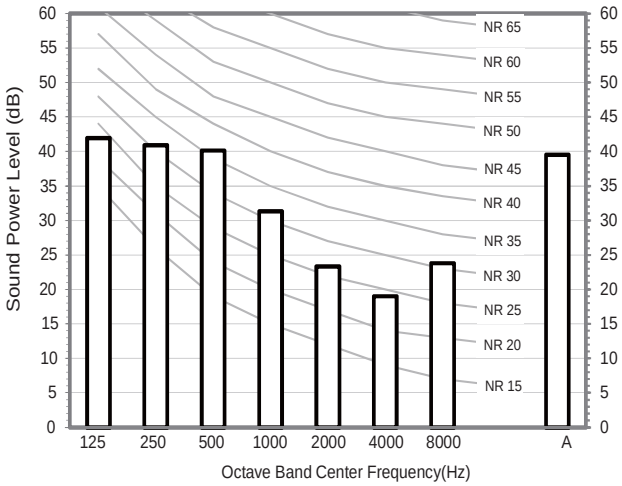
Model	Power
AM017DNLDKG/EU	40
AM022DNLDKG/EU	42
AM028DNLDKG/EU	44
AM036DNLDKG/EU	46

- NR Curve

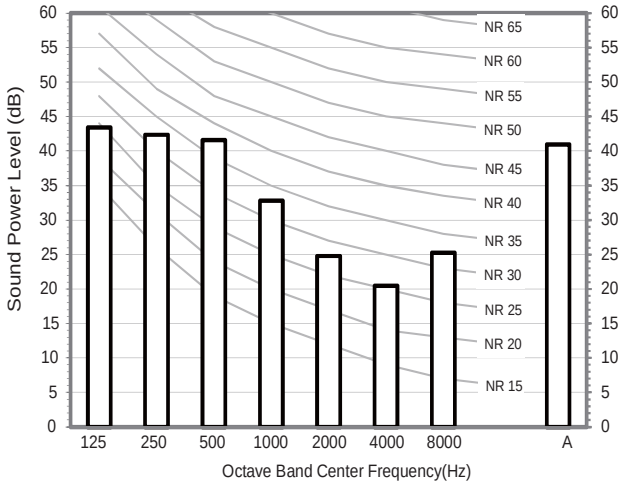
1) AM017DNLDKG/EU



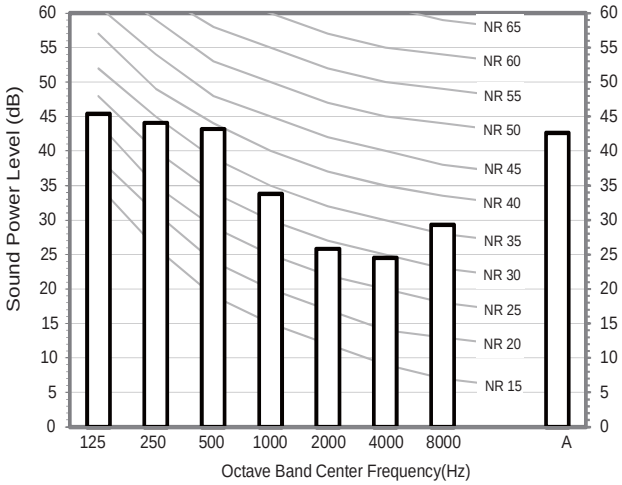
2) AM022DNLDKG/EU



3) AM028DNLDKG/EU



4) AM036DNLDKG/EU



7. Sound Data

LSP Duct

Sound Power level

NOTE

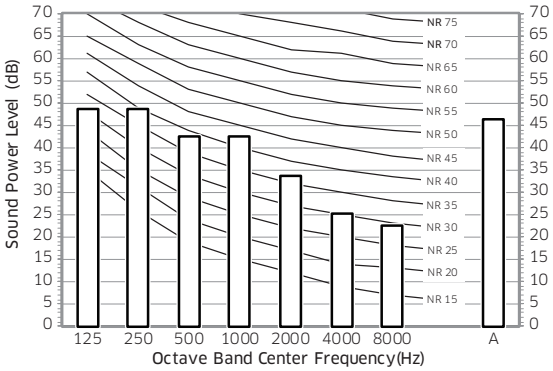
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

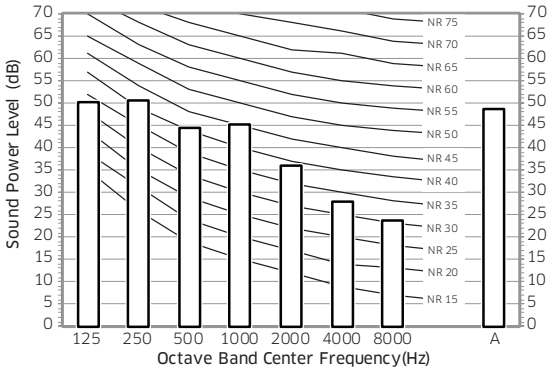
Model	Power
AM045DNLDKG/EU	47
AM056DNLDKG/EU	49
AM071DNLDKG/EU	49

- NR Curve

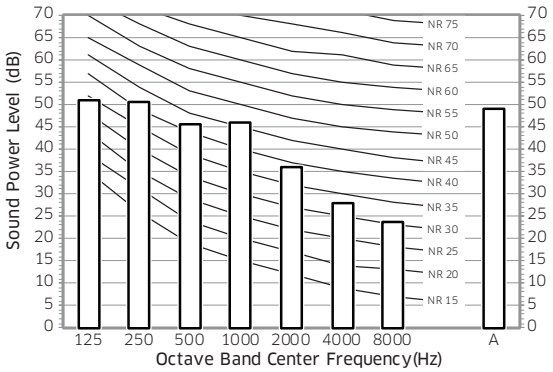
1) AM045DNLDKG/EU



2) AM056DNLDKG/EU



3) AM071DNLDKG/EU

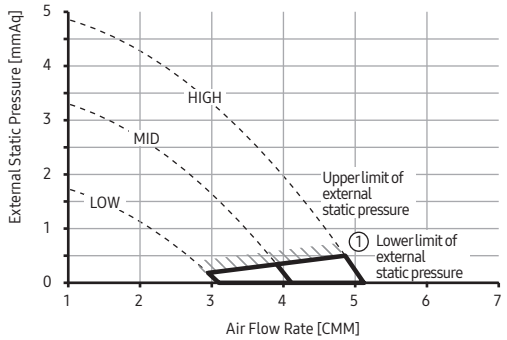


8. Fan Characteristics

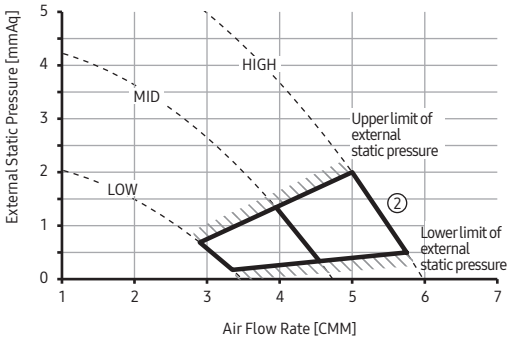
LSP Duct

AM017DNLDKG/EU

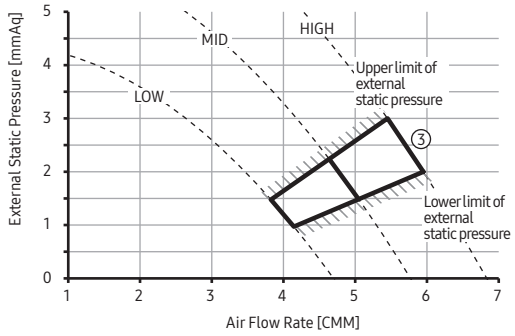
①	External Static Pressure(mmAq)	Option Code
	0 < SP≤0.5	010054-12549E-201111-331110



②	External Static Pressure(mmAq)	Option Code
	0.5 < SP≤2	010054-1255B1-201111-331110



③	External Static Pressure(mmAq)	Option Code
	2 < SP≤3	010054-1255F5-201111-331110

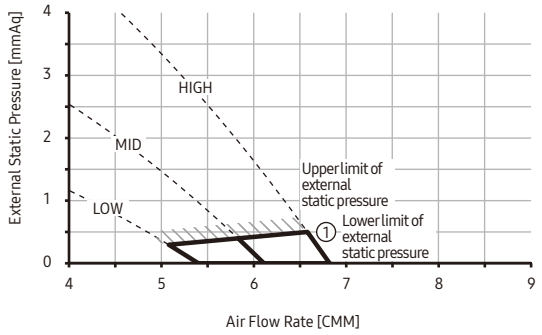


8. Fan Characteristics

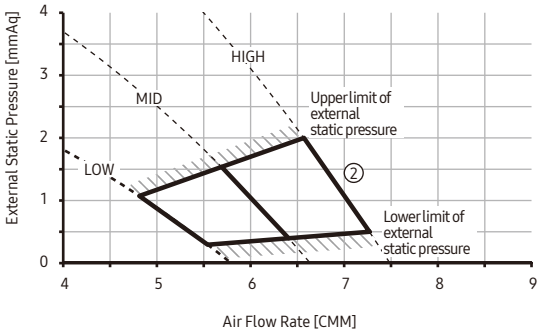
LSP Duct

AM022DNLDKG/EU

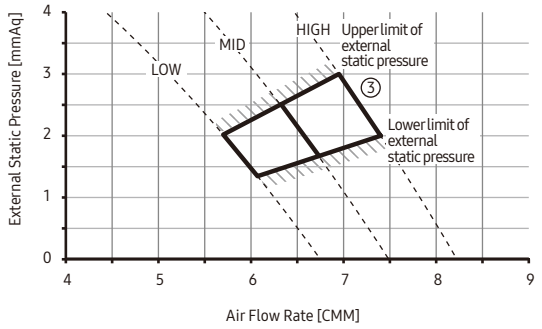
①	External Static Pressure(mmAq)	Option Code
	0 < SP≤0.5	010054-125A80-201616-331110



②	External Static Pressure(mmAq)	Option Code
	0.5 < SP≤2	010054-125AC3-201616-331110



③	External Static Pressure(mmAq)	Option Code
	2 < SP≤3	010054-125E08-201616-331110

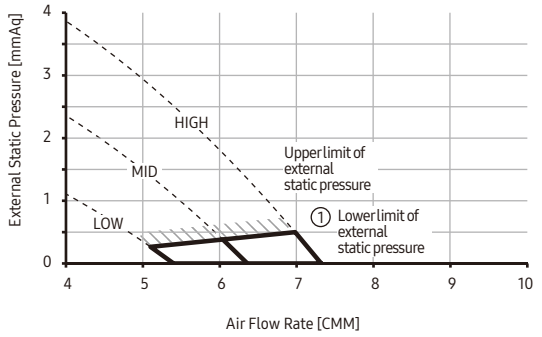


8. Fan Characteristics

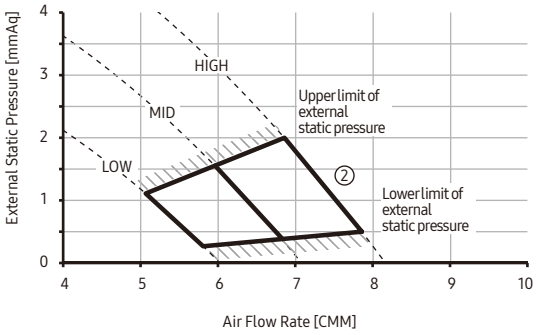
LSP Duct

AM028DNLDKG/EU

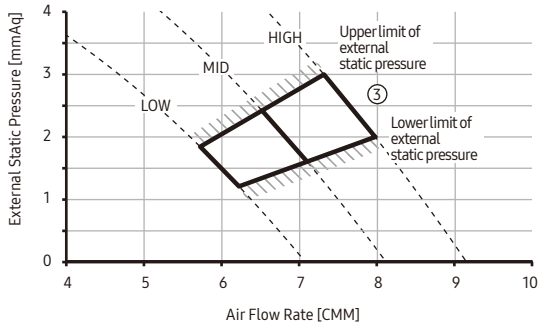
①	External Static Pressure(mmAq)	Option Code
	0 < SP≤0.5	010054-125AE2-201C1C-331110



②	External Static Pressure(mmAq)	Option Code
	0.5 < SP≤2	010054-125E15-201C1C-331110



③	External Static Pressure(mmAq)	Option Code
	2 < SP≤3	010054-125E7A-201C1C-331110

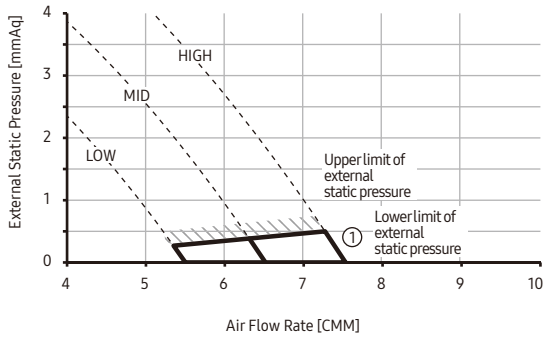


8. Fan Characteristics

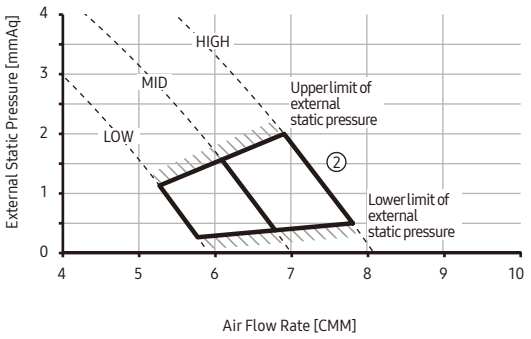
LSP Duct

AM036DNLDKG/EU

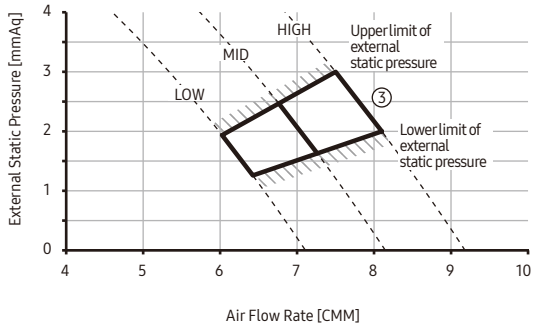
①	External Static Pressure(mmAq)	Option Code
	0 < SP≤0.5	010054-125E35-202424-331110



②	External Static Pressure(mmAq)	Option Code
	0.5 < SP≤2	010054-125E68-202424-331110



③	External Static Pressure(mmAq)	Option Code
	2 < SP≤3	010054-125ECD-202424-331110



8. Fan Characteristics

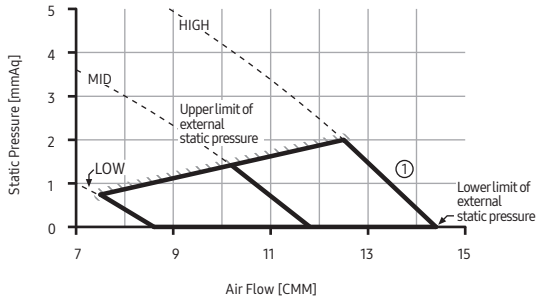
LSP Duct

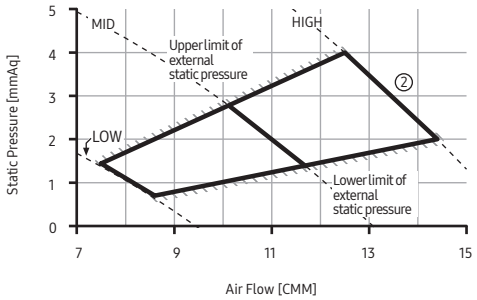
AM045DNLDKG/EU

External Static Pressure(mmAq)	Option Code	Air Flow [CMM]		
		High	Mid	Low
0	010454-1C5458-202D2D-301110	7.5	10.0	12.5

①	External Static Pressure(mmAq)	Option Code
	0 < P ≤ 2	010454-1C54EA-202D2D-301110

②	External Static Pressure(mmAq)	Option Code
	2 < P ≤ 4	010454-1C585F-202D2D-301110



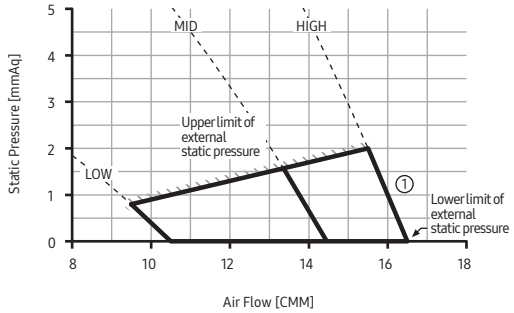


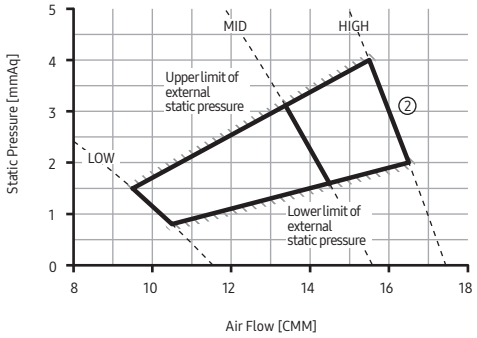
AM056DNLDKG/EU

External Static Pressure(mmAq)	Option Code	Air Flow [CMM]		
		High	Mid	Low
0	010454-1C54FC-203838-301110	9.5	12.5	15.5

①	External Static Pressure(mmAq)	Option Code
	0 < P ≤ 2	010454-1C5950-203838-301110

②	External Static Pressure(mmAq)	Option Code
	2 < P ≤ 4	010454-1C59C4-203838-301110



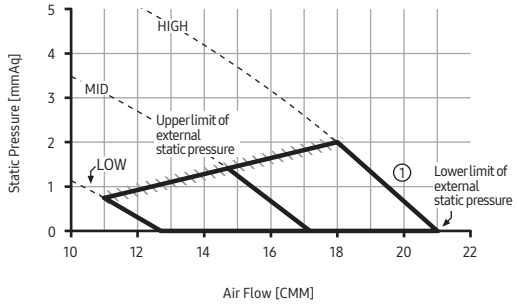


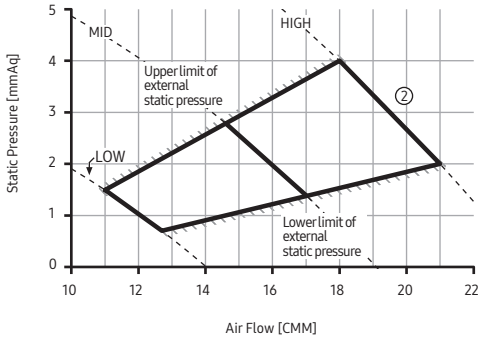
AM071DNLDKG/EU

External Static Pressure(mmAq)	Option Code	Air Flow [CMM]		
		High	Mid	Low
0	010454-1C54D9-204747-301110	11.0	14.5	18.0

①	External Static Pressure(mmAq)	Option Code
	0 < P ≤ 2	010454-1C584E-204747-301110

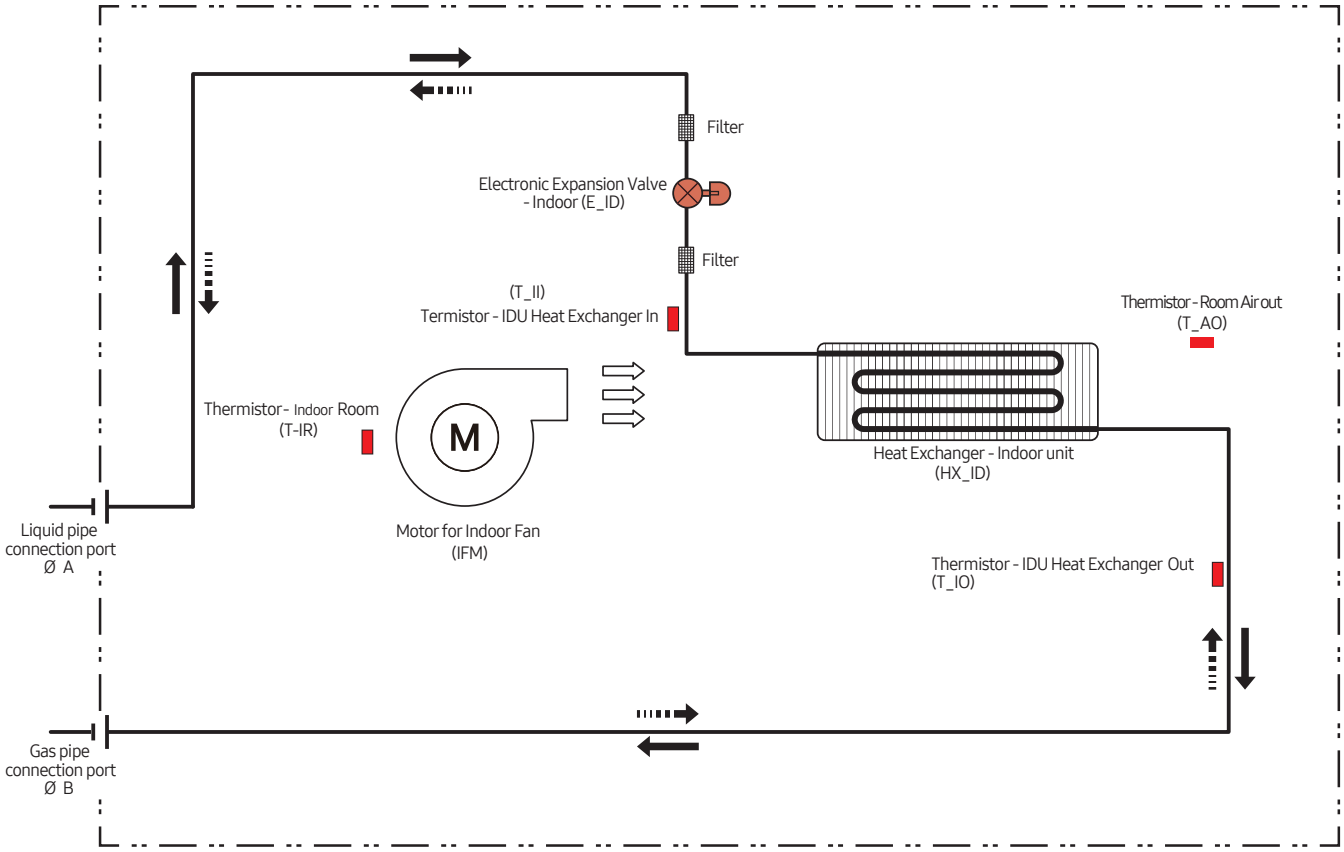
②	External Static Pressure(mmAq)	Option Code
	2 < P ≤ 4	010454-1C59B2-204747-301110





9. Piping Diagram

LSP Duct



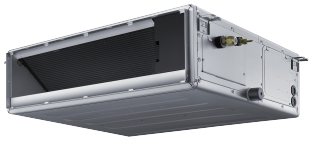
Refrigerant flow	
Cooling	Heating
→	⇢

MSP Duct

Line-up

MSP Duct

Deluxe

Capacity (kW)										
2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	12.8	14.0	16.0
										

Flagship

Capacity (kW)					
2.2	2.8	3.6	4.5	5.6	7.1
					

1. Specification

MSP Duct

Model Name				AM022DNMDKG/EU	AM028DNMDKG/EU	AM036DNMDKG/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	153	153
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	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	27.0	27.0	27.0
	Shipping Weight		kg	30.5	30.5	30.5
	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	1,064 x 320 x 784	1,064 x 320 x 784	1,064 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		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

MSP Duct

Model Name				AM045DNMDKG/EU	AM056DNMDKG/EU	AM071DNMDKG/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	153	153
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	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	27.0	27.0	27.0
	Shipping Weight		kg	30.5	30.5	30.5
	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	1,064 x 320 x 784	1,064 x 320 x 784	1,064 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		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

MSP Duct

Model Name				AM090DNMDKG/EU	AM112DNMDKG/EU	AM128DNMDKG/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	m³/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	244	244
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	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	34.2	39.4	39.4
	Shipping Weight		kg	38.9	45.8	45.8
	Net Dimensions (W×H×D)		mm	1,200 x 250 x 700	1,300 x 300 x 700	1,300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1,429 x 320 x 779	1,529 x 370 x 779	1,529 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		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

MSP Duct

Model Name				AM140DNMDKG/EU	AM160DNMDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	14.0	16.0
			Btu/h	47,800	54,600
		Heating	kW	16.0	18.0
			Btu/h	54,600	61,400
Power	Power Input	Cooling	W	210.0	300.0
		Heating		210.0	300.0
	Current Input	Cooling	A	1.70	2.45
		Heating		1.70	2.45
	Current	MCA	A	2.38	3.60
		MFA		15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3
	Air Flow Rate	H/M/L	m³/min	40 / 34 / 24	45 / 35 / 25
			l/s	667 / 567 / 400	750 / 583 / 417
	External Pressure	Min/Std/Max	mmAq	0 / 5.2 / 15	0 / 5.2 / 15
			Pa	0 / 50.99 / 147.1	0 / 50.99 / 147.1
Fan Motor	Type		-	BLDC	BLDC
	Output x n		W	244 x 1	350 x 1
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75
			-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Control Method		-	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	39 / 36 / 33	43 / 39 / 35
	Sound Power Level	Cooling		64	65
External Dimension	Net Weight		kg	39.4	44.5
	Shipping Weight		kg	45.8	51.1
	Net Dimensions (W×H×D)		mm	1,300 x 300 x 700	1,300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1,529 x 370 x 779	1,529 x 370 x 779
Casing	Material		-	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-
		Internal Model	-	Built in	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24
	Air Filter		-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

MSP Duct

Model Name				AM022DNMFKG/EU	AM028DNMFKG/EU	AM036DNMFKG/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	25.0	30.0	40.0
		Heating		25.0	30.0	40.0
	Current Input	Cooling	A	0.19	0.22	0.29
		Heating		0.19	0.22	0.29
	Current	MCA	A	0.78	0.91	1.04
		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	10 / 9.5 / 9	12.5 / 11 / 10.5	15 / 13 / 12
			l/s	167 / 158 / 150	208 / 183 / 175	250 / 217 / 200
	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	153	153
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	33 / 31 / 29	33 / 31 / 29	34 / 31 / 28
	Sound Power Level	Cooling		55	56	57
External Dimension	Net Weight		kg	34.2	34.2	34.2
	Shipping Weight		kg	38.9	38.9	38.9
	Net Dimensions (W×H×D)		mm	1,200 x 250 x 700	1,200 x 250 x 700	1,200 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1,429 x 320 x 779	1,429 x 320 x 779	1,429 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		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

MSP Duct

Model Name				AM045DNMFKG/EU	AM056DNMFKG/EU	AM071DNMFKG/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	50.0	90.0	135.0
		Heating		50.0	90.0	135.0
	Current Input	Cooling	A	0.37	0.66	0.98
		Heating		0.37	0.66	0.98
	Current	MCA	A	1.22	1.45	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	m³/min	18.5 / 16 / 13.5	24 / 21.5 / 18.5	32 / 28.5 / 24.5
			l/s	308 / 267 / 225	400 / 358 / 308	533 / 475 / 408
	External Pressure	Min/Std/Max	mmAq	0 / 3 / 15	0 / 5.2 / 15	0 / 5.2 / 15
			Pa	0 / 29.42 / 147.1	0 / 51.0 / 147.1	0 / 51.0 / 147.1
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	153	244	244
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 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75	0.75
			-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Control Method		-	EEV	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	34 / 31 / 28	38 / 35 / 31	39 / 35 / 30
	Sound Power Level	Cooling		57	63	63
External Dimension	Net Weight		kg	34.2	39.4	39.4
	Shipping Weight		kg	38.9	45.8	45.8
	Net Dimensions (W×H×D)		mm	1,200 x 250 x 700	1,300 x 300 x 700	1,300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1,429 x 320 x 779	1,529 x 370 x 779	1,529 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		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

2. Summary Table

MSP Duct

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity [kW]			Airflow [CMM]	Sound Pressure [dBA]	Sound Power [dBA]	Static Pressure (Min/Std/Max) [mmAq]
		Cooling	Sensible	Heating				
AM022DNMDKG/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	-	
AM028DNMDKG/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	-	
AM036DNMDKG/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	-	
AM045DNMDKG/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	-	
AM056DNMDKG/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	-	
AM071DNMDKG/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	-	
AM090DNMDKG/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	-	
AM112DNMDKG/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	-	
AM128DNMDKG/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	-	
AM140DNMDKG/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	-	
AM160DNMDKG/EU	High	16.0	12.1	18.0	45	43	65	0 / 5.2 / 15
	Mid	12.8	9.7	15.9	35	39	-	
	Low	9.1	6.9	13.4	25	35	-	

2. Summary Table

MSP Duct

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity [kW]			Airflow [CMM]	Sound Pressure [dBA]	Sound Power [dBA]	Static Pressure (Min/Std/Max) [mmAq]
		Cooling	Sensible	Heating				
AM022DNMFKG/EU	High	2.2	2.1	2.5	10.0	33	55	0 / 3 / 15
	Mid	2.1	2.0	2.4	9.5	31	-	
	Low	2.0	1.9	2.4	9.0	29	-	
AM028DNMFKG/EU	High	2.8	2.7	3.2	12.5	33	56	0 / 3 / 15
	Mid	2.5	2.4	3.0	11.0	31	-	
	Low	2.4	2.3	2.9	10.5	29	-	
AM036DNMFKG/EU	High	3.6	3.4	4.0	15.0	34	57	0 / 3 / 15
	Mid	3.2	3.0	3.7	13.0	31	-	
	Low	3.0	2.8	3.6	12.0	28	-	
AM045DNMFKG/EU	High	4.5	4.2	5.0	18.5	34	57	0 / 3 / 15
	Mid	4.0	3.7	4.6	16.0	31	-	
	Low	3.4	3.2	4.3	13.5	28	-	
AM056DNMFKG/EU	High	5.6	5.3	6.3	24.0	38	63	0 / 5.2 / 15
	Mid	5.1	4.8	6.0	21.5	35	-	
	Low	4.4	4.2	5.5	18.5	31	-	
AM071DNMFKG/EU	High	7.1	6.7	8.0	32.0	39	63	0 / 5.2 / 15
	Mid	6.4	6.0	7.5	28.5	35	-	
	Low	5.6	5.3	7.0	24.5	30	-	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM022DNMDKG/EU	1,2,220~240,50/60	42	0.4	0.67	15	0.54
AM028DNMDKG/EU		42	0.4	0.67	15	0.54
AM036DNMDKG/EU		45	0.4	0.81	15	0.64
AM045DNMDKG/EU		55	0.5	0.89	15	0.71
AM056DNMDKG/EU		70	0.6	1.08	15	0.86
AM071DNMDKG/EU		110	1.0	1.48	15	1.19
AM090DNMDKG/EU		135	1.2	1.78	15	1.42
AM112DNMDKG/EU		130	1.2	1.97	15	1.57
AM128DNMDKG/EU		160	1.4	2.17	15	1.74
AM140DNMDKG/EU		210	1.7	2.38	15	1.90
AM160DNMDKG/EU		300	2.45	3.60	15	2.88
AM022DNMFKG/EU		25	0.19	0.78	15	0.62
AM028DNMFKG/EU		30	0.22	0.91	15	0.73
AM036DNMFKG/EU		40	0.29	1.04	15	0.83
AM045DNMFKG/EU		50	0.37	1.22	15	0.98
AM056DNMFKG/EU		90	0.66	1.45	15	1.16
AM071DNMFKG/EU		135	0.98	2.17	15	1.74

NOTE

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

3. Capacity Table

MSP Duct

DELUXE

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	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
028	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
036	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
045	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
056	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
071	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
090	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
112	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
128	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
140	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
160	35	11.1	9.6	13.0	10.9	15.0	11.8	16.0	12.1	16.6	12.1	17.7	12.1	18.9	11.9

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			14(℃,DB)	16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
022	7.0	6.0	2.8	2.7	2.5	2.3	2.2	2.2	2.2
028	7.0	6.0	3.3	3.2	3.2	3.0	2.7	2.7	2.6
036	7.0	6.0	4.3	4.1	4.1	4.0	3.7	3.4	3.2
045	7.0	6.0	5.4	5.1	5.1	5.0	4.6	4.2	3.9
056	7.0	6.0	6.9	6.5	6.4	6.3	5.8	5.3	4.9
071	7.0	6.0	8.6	8.2	8.1	8.0	7.4	6.8	6.4
090	7.0	6.0	10.9	10.3	10.1	10.0	9.2	8.4	7.8
112	7.0	6.0	13.6	12.9	12.7	12.5	11.5	10.6	9.9
128	7.0	6.0	15.0	14.2	14.0	13.8	12.7	11.7	10.9
140	7.0	6.0	17.4	16.5	16.2	16.0	14.8	13.5	12.6
160	7.0	6.0	18.8	18.6	18.2	18.0	16.7	15.2	14.5

NOTE

- The performance table shows the average value of each conditions.

3. Capacity Table

MSP Duct

FLAGSHIP

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	35	1.1	1.1	1.5	1.5	2.0	2.0	2.2	2.1	2.3	2.1	2.6	2.3	2.9	2.4
028	35	1.4	1.4	2.0	2.0	2.5	2.5	2.8	2.7	3.0	2.8	3.3	2.9	3.6	3.0
036	35	1.8	1.8	2.5	2.5	3.2	3.1	3.6	3.4	3.8	3.5	4.2	3.6	4.7	3.8
045	35	2.3	2.3	3.2	3.2	4.1	3.9	4.5	4.2	4.8	4.3	5.3	4.5	5.9	4.7
056	35	2.8	2.8	3.9	3.9	5.0	4.9	5.6	5.3	5.9	5.4	6.6	5.7	7.3	5.9
071	35	3.6	3.6	5.0	5.0	6.4	6.2	7.1	6.7	7.5	6.9	8.4	7.2	9.2	7.4

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			14(℃,DB)	16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
022	7.0	6.0	3.0	2.8	2.7	2.5	2.3	2.0	1.6
028	7.0	6.0	3.8	3.6	3.4	3.2	2.9	2.6	2.1
036	7.0	6.0	4.7	4.5	4.2	4.0	3.6	3.2	2.6
045	7.0	6.0	5.9	5.6	5.3	5.0	4.5	4.0	3.3
056	7.0	6.0	7.4	7.1	6.7	6.3	5.7	5.0	4.1
071	7.0	6.0	9.4	9.0	8.5	8.0	7.2	6.4	5.2

NOTE

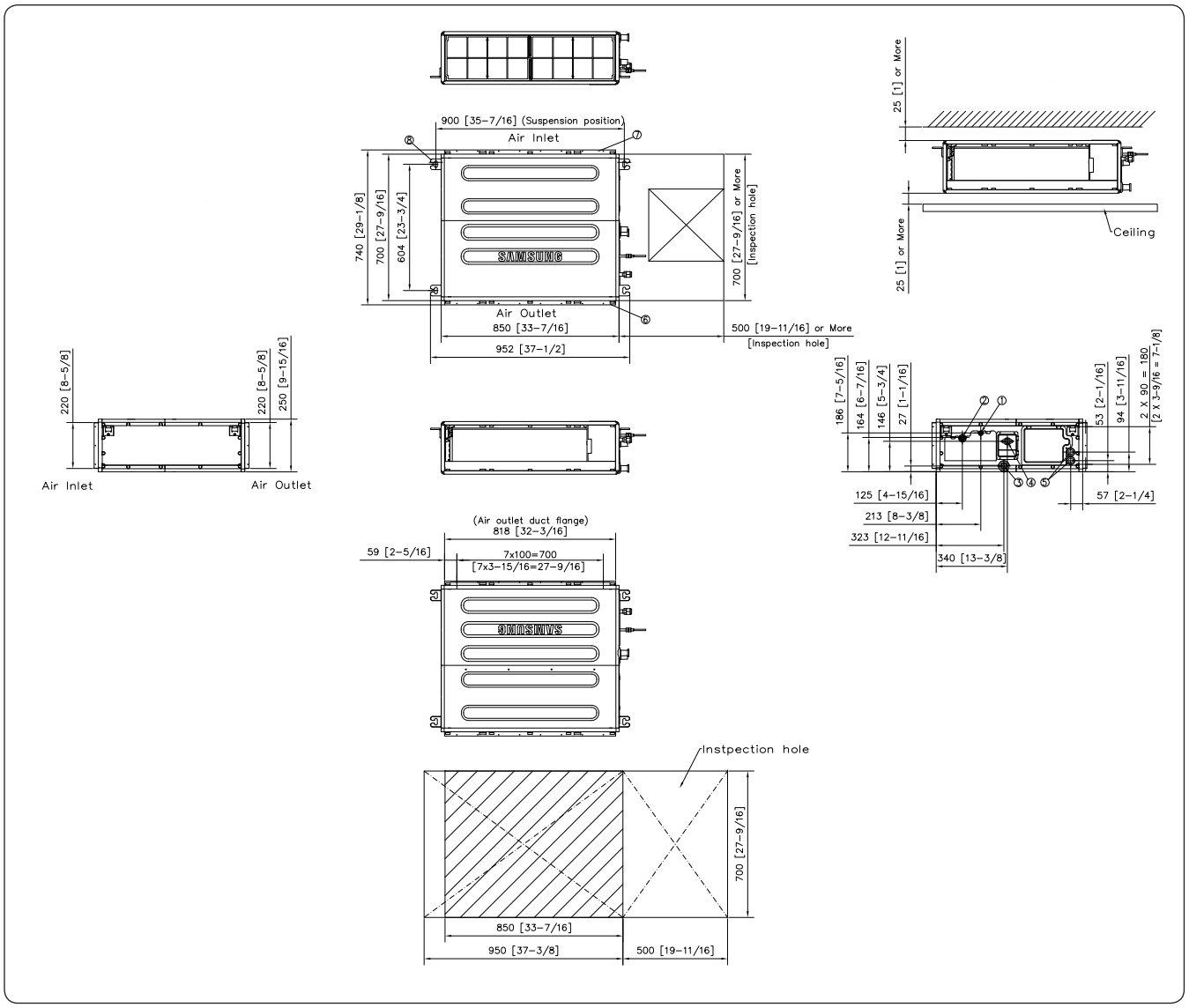
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

MSP Duct

AM022DNMDKG/EU, AM028DNMDKG/EU, AM036DNMDKG/EU, AM045DNMDKG/EU AM056DNMDKG/EU, AM071DNMDKG/EU

Units : mm [inches]



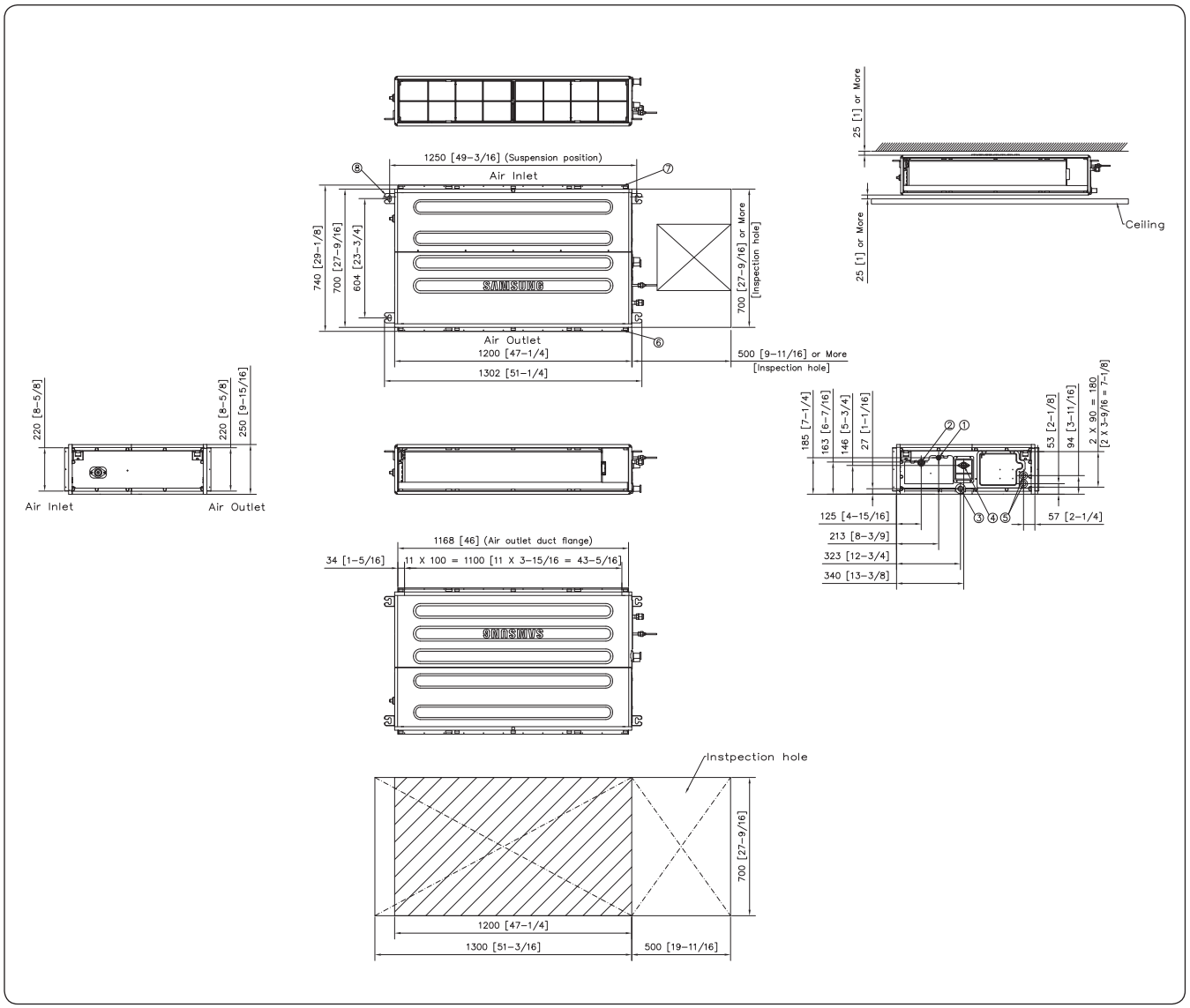
No.	Name	Description	
		AM022DNMDKG/EU, AM028DNMDKG/EU, AM036DNMDKG/EU AM045DNMDKG/EU, AM056DNMDKG/EU	AM071DNMDKG/EU
①	Liquid pipe connection	Ø6.35 (1/4)	Ø9.52 (3/8)
②	Gas pipe connection	Φ12.70 (1/2)	Φ15.88 (5/8)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)	
④	Drain pipe connection (With drain pump)	-	
⑤	Power & Communication Conduits	-	
⑥	Air discharge grille flange	-	
⑦	Return Air Side	-	
⑧	Hook	Ø9.52 or M10	

4. Dimensional Drawing

MSP Duct

AM090DNMDKG/EU, AM022DNMFKG/EU, AM028DNMFKG/EU, AM036DNMFKG/EU AM045DNMFKG/EU

Units : mm [inches]



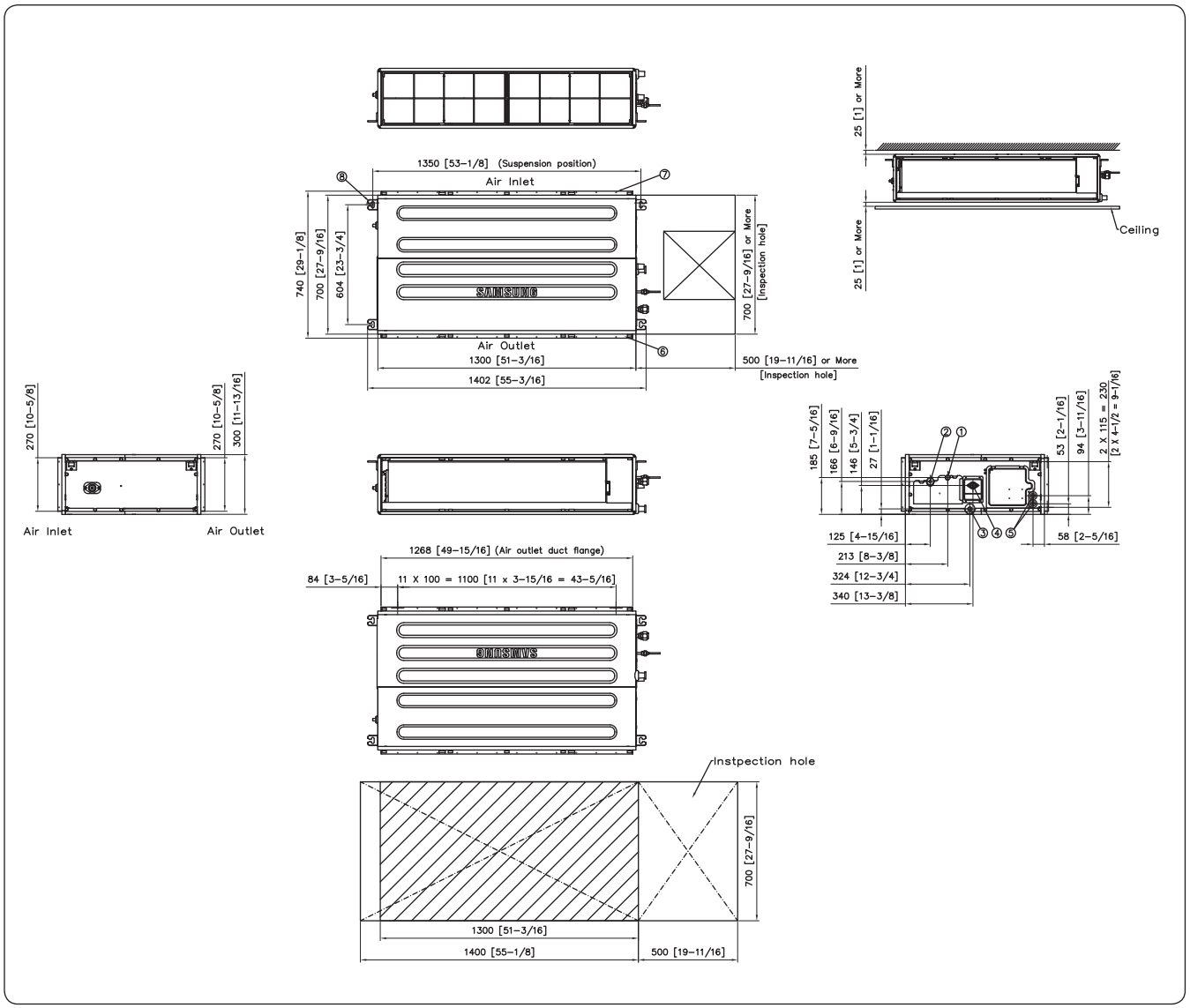
No.	Name	Description	
		AM022DNMFKG/EU, AM028DNMFKG/EU, AM036DNMFKG/EU AM045DNMFKG/EU	AM090DNHDKG/EU
①	Liquid pipe connection	Ø6.35 (1/4)	Ø9.52 (3/8)
②	Gas pipe connection	Φ12.70 (1/2)	Φ15.88 (5/8)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)	
④	Drain pipe connection (With drain pump)	-	
⑤	Power & Communication Conduits	-	
⑥	Air discharge grille flange	-	
⑦	Return Air Side	-	
⑧	Hook	Ø9.52 or M10	

4. Dimensional Drawing

MSP Duct

AM112DNMDKG/EU, AM128DNMDKG/EU, AM140DNMDKG/EU, AM160DNMDKG/EU
AM056DNMFKG/EU, AM071DNMFKG/EU

Units : mm [inches]

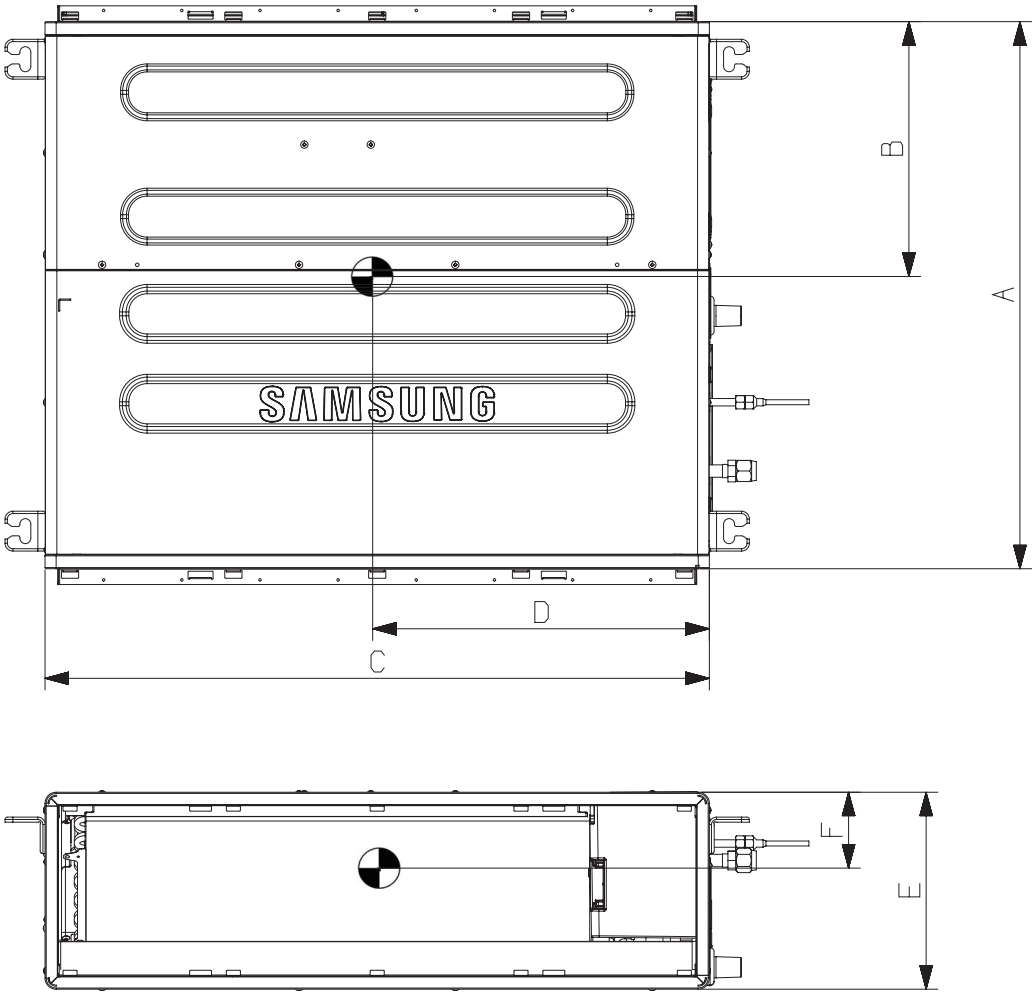


No.	Name	Description	
		AM056DNMFKG/EU	AM112DNMDKG/EU, AM128DNMDKG/EU, AM140DNMDKG/EU AM160DNMDKG/EU, AM071DNMFKG/EU
①	Liquid pipe connection	Ø6.35 (1/4)	Ø9.52 (3/8)
②	Gas pipe connection	Φ12.70 (1/2)	Φ15.88 (5/8)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)	
④	Drain pipe connection (With drain pump)	-	
⑤	Power & Communication Conduits	-	
⑥	Air discharge grille flange	-	
⑦	Return Air Side	-	
⑧	Hook	Ø9.52 or M10	

5. Center of Gravity

MSP Duct

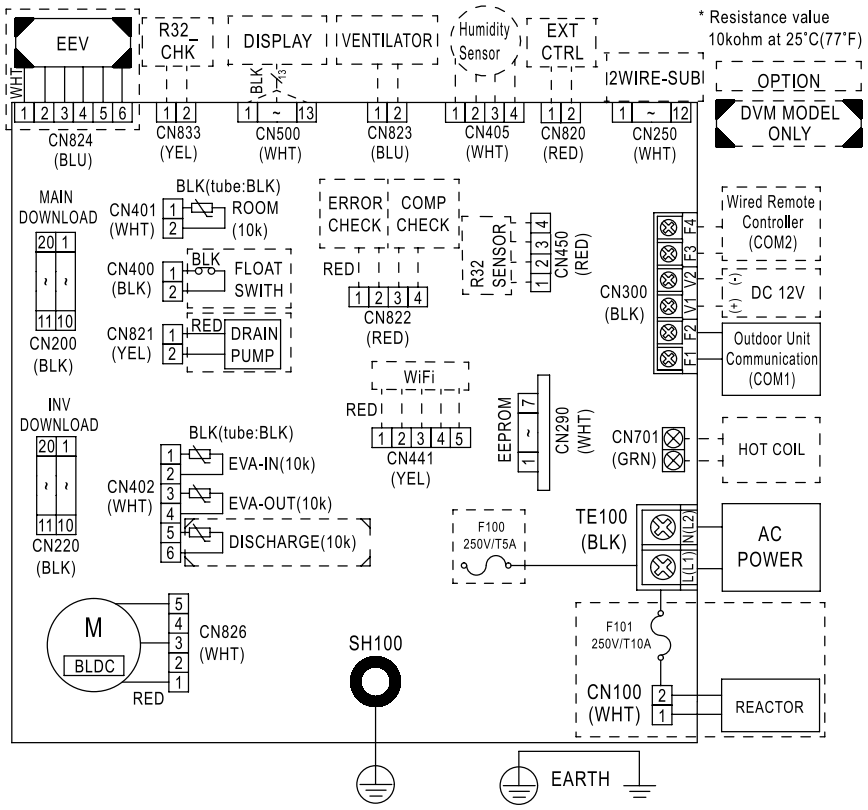
Units : mm [inches]



Model	A	B	C	D	E	F
AM022DNMDKG/EU, AM028DNMDKG/EU AM036DNMDKG/EU, AM045DNMDKG/EU AM056DNMDKG/EU, AM071DNMDKG/EU	700 [27-9/16]	335 [14]	900 [35-7/16]	405 [15-15/16]	250 [9-13/16]	125 [4-15/16]
AM090DNMDKG/EU, AM022DNMFKG/EU AM028DNMFKG/EU, AM036DNMFKG/EU AM045DNMFKG/EU	700 [27-9/16]	265 [10-7/16]	1200 [47-1/4]	540 [21-17/64]	250 [9-13/16]	125 [4-15/16]
AM112DNMDKG/EU, AM128DNMDKG/EU AM140DNMDKG/EU, AM160DNMDKG/EU AM056DNMFKG/EU, AM071DNMFKG/EU	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

MSP Duct



USE COPPER SUPPLY WIRES. UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

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

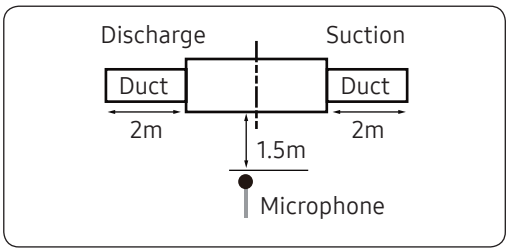
NOTE

- 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

MSP Duct

Sound pressure level

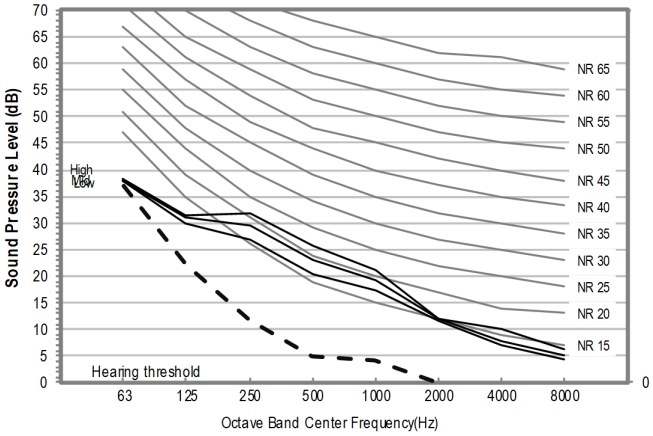


Unit: dB(A)

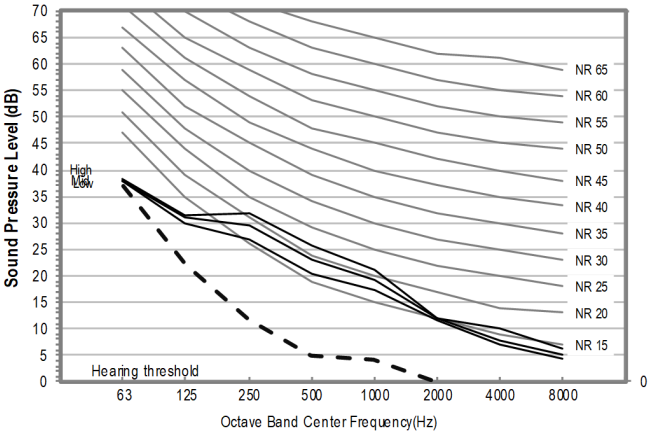
MODEL	High	Mid	Low
AM022DNMDKG/EU	28	26	24
AM028DNMDKG/EU	28	26	24
AM036DNMDKG/EU	30	27	24
AM045DNMDKG/EU	31	28	25

- NR Curve

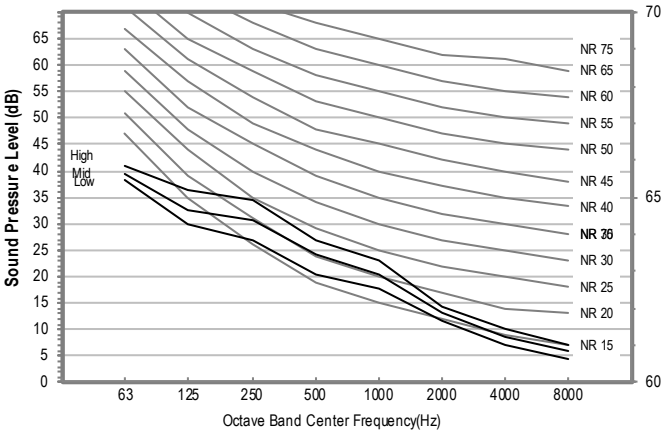
1) AM022DNMDKG/EU



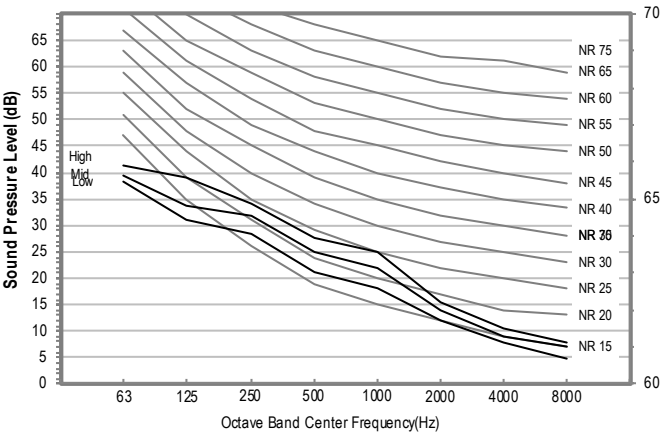
2) AM028DNMDKG/EU



3) AM036DNMDKG/EU



4) AM045DNMDKG/EU



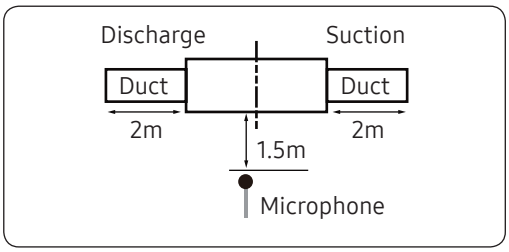
NOTE

- 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

MSP Duct

Sound pressure level

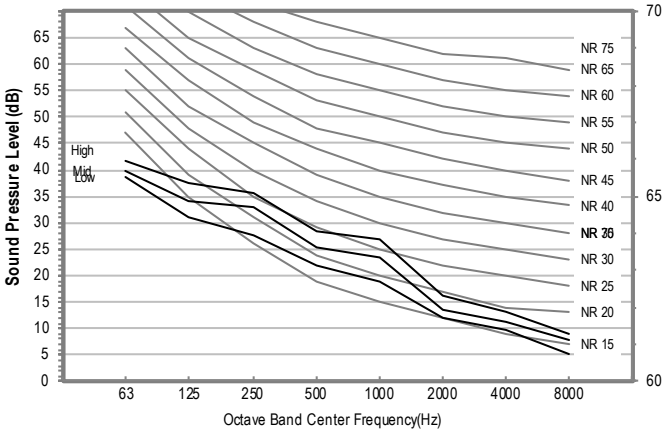


Unit: dB(A)

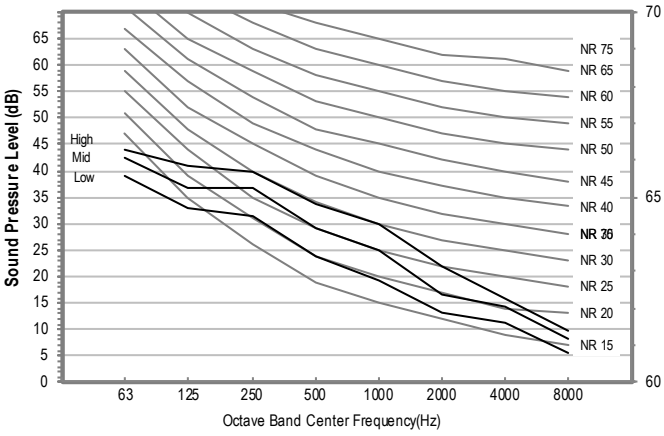
MODEL	High	Mid	Low
AM056DNMDKG/EU	32	29	25
AM071DNMDKG/EU	36	32	27
AM090DNMDKG/EU	37	33	29
AM112DNMDKG/EU	36	33	30

- NR Curve

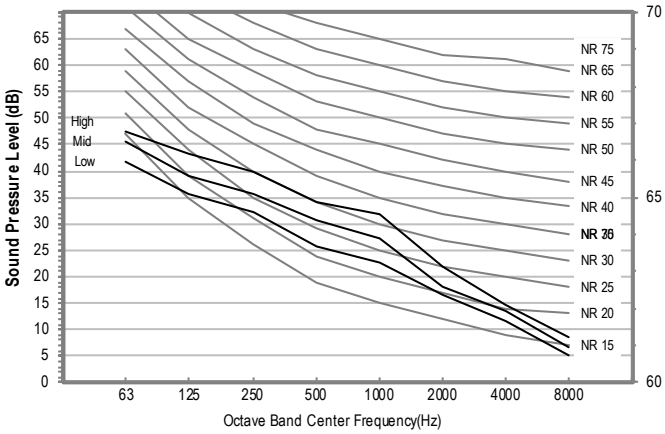
1) AM056DNMDKG/EU



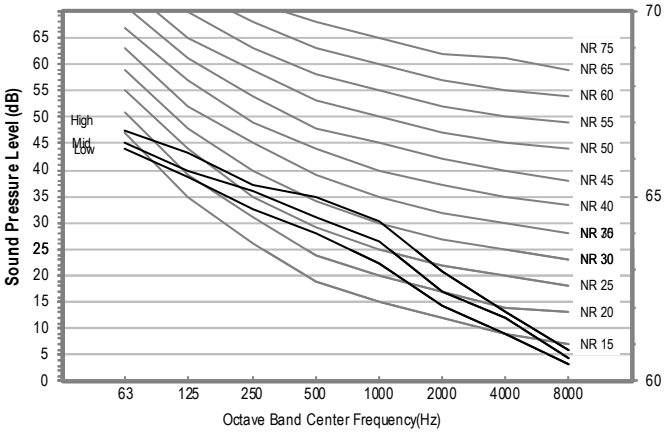
2) AM071DNMDKG/EU



3) AM090DNMDKG/EU



4) AM112DNMDKG/EU



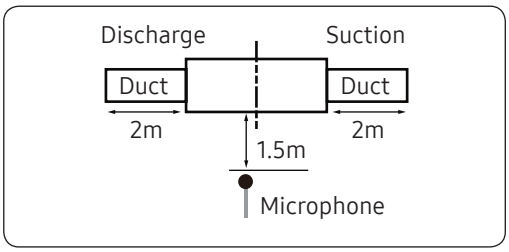
NOTE

- 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

MSP Duct

Sound pressure level

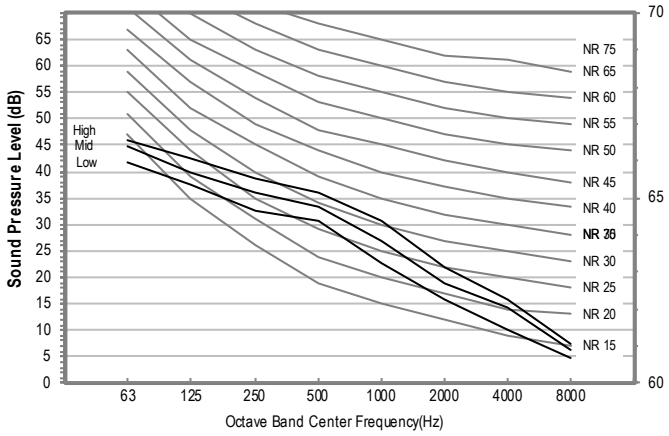


Unit: dB(A)

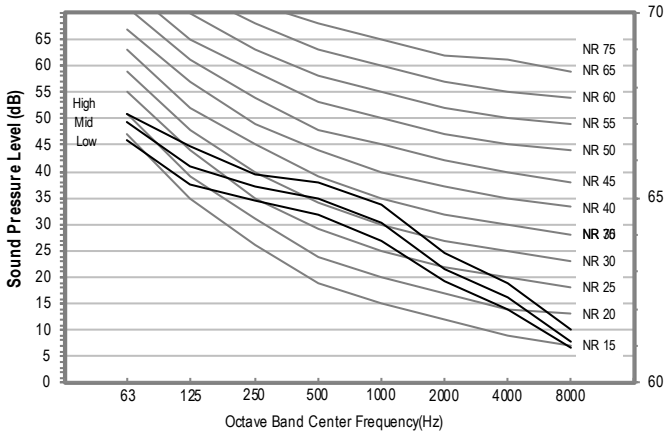
MODEL	High	Mid	Low
AM128DNMDKG/EU	37	34	31
AM140DNMDKG/EU	39	36	33
AM160DNMDKG/EU	43	39	35

- NR Curve

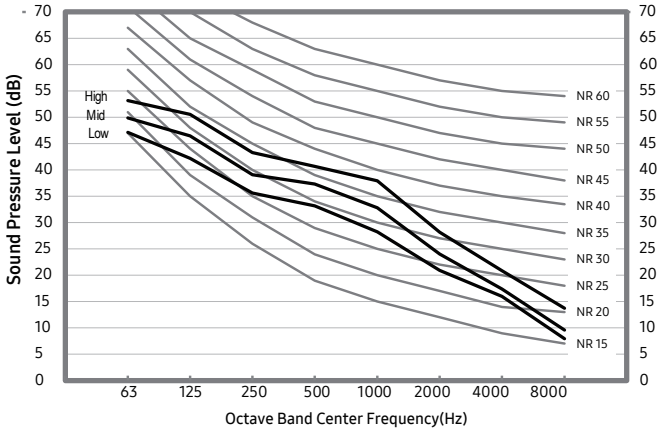
1) AM128DNMDKG/EU



2) AM140DNMDKG/EU



3) AM160DNMDKG/EU



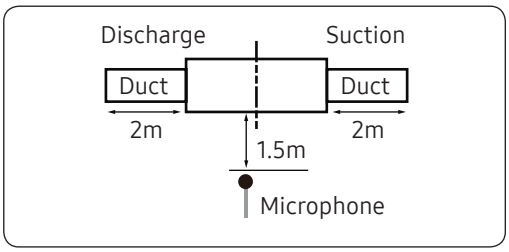
NOTE

- 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

MSP Duct

Sound pressure level

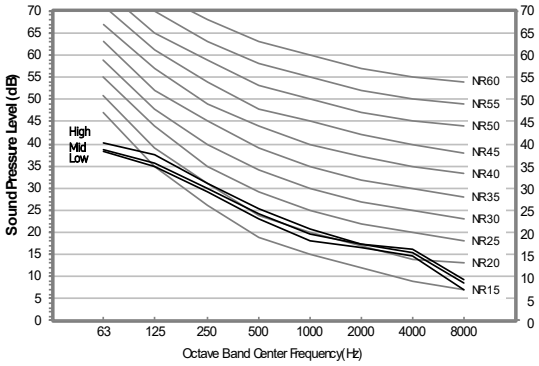


Unit: dB(A)

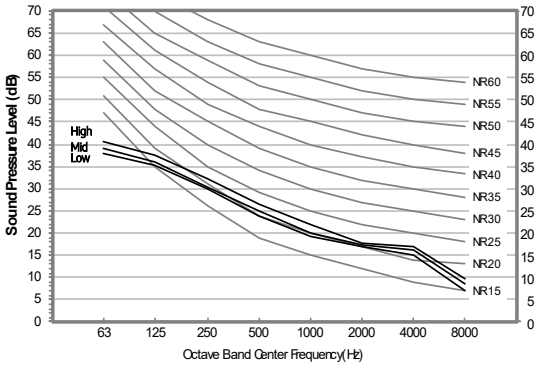
MODEL	High	Mid	Low
AM022DNMFKG/EU	33	31	29
AM028DNMFKG/EU	33	31	29
AM036DNMFKG/EU	34	31	28
AM045DNMFKG/EU	34	31	28

- NR Curve

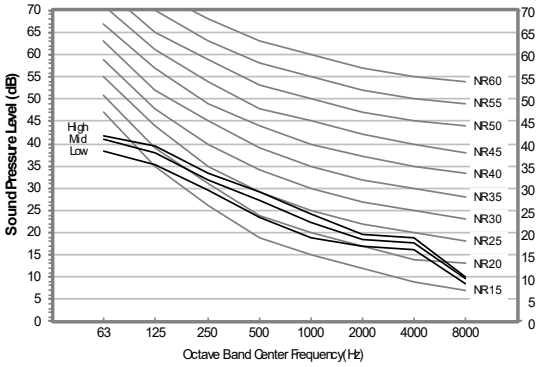
1) AM022DNMFKG/EU



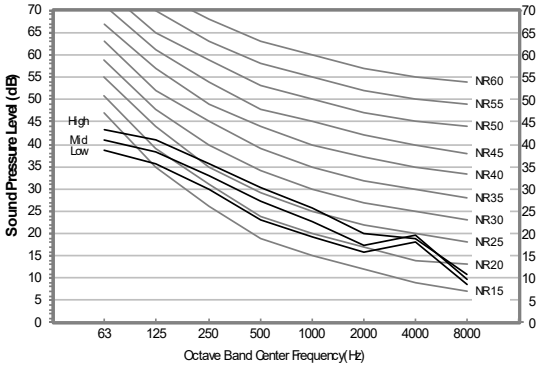
2) AM028DNMFKG/EU



3) AM036DNMFKG/EU



4) AM045DNMFKG/EU



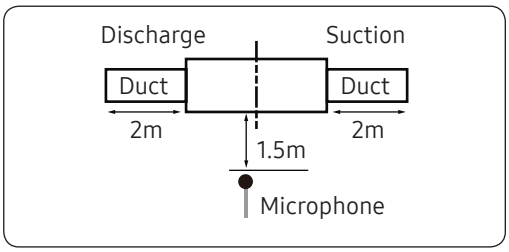
NOTE

- 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

MSP Duct

Sound pressure level

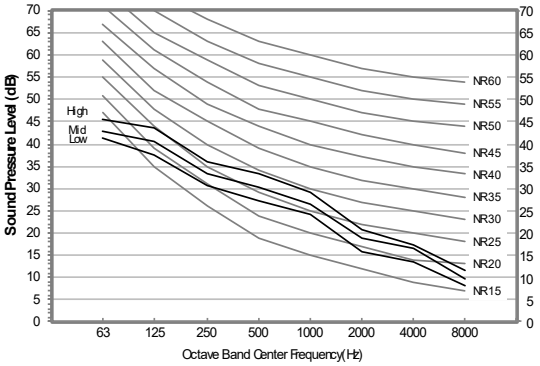


Unit: dB(A)

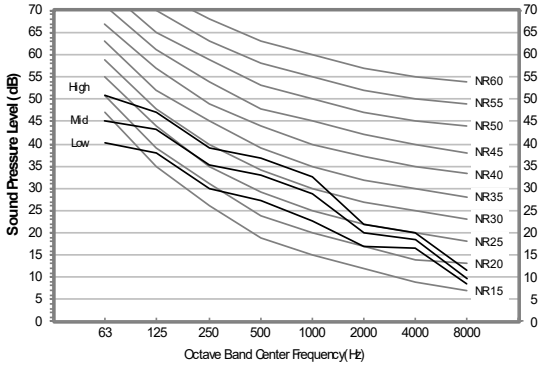
MODEL	High	Mid	Low
AM056DNMFKG/EU	38	35	31
AM071DNMFKG/EU	39	35	30

- NR Curve

1) AM056DNMFKG/EU



2) AM071DNMFKG/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

MSP Duct

Sound Power level

NOTE

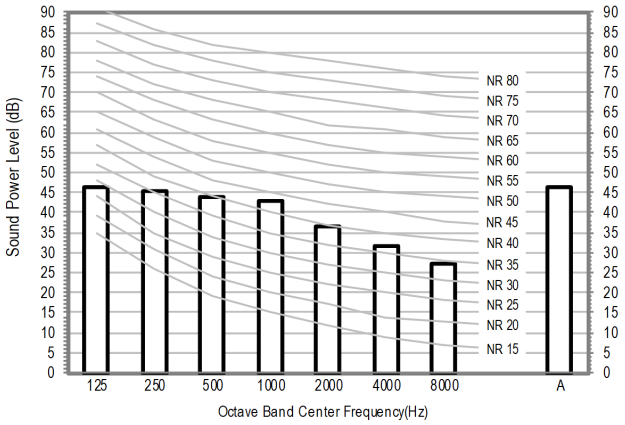
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

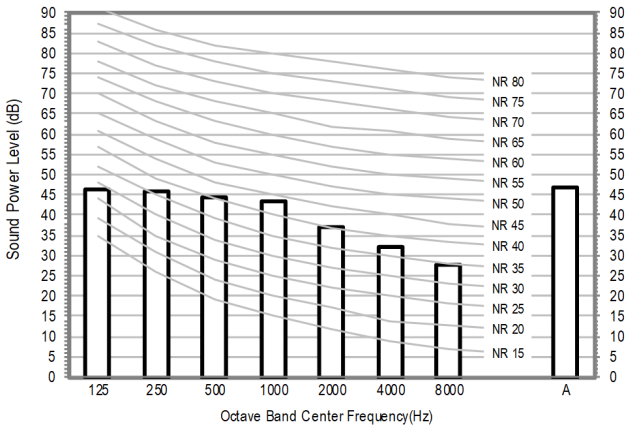
Model	Power
AM022DNMDKG/EU	50
AM028DNMDKG/EU	51
AM036DNMDKG/EU	53
AM045DNMDKG/EU	54

- NR Curve

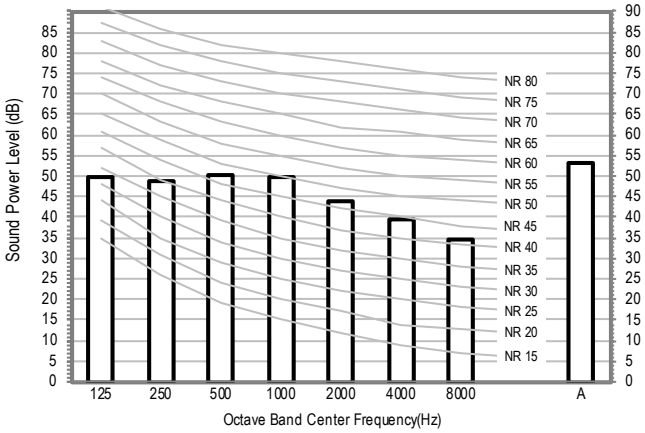
1) AM022DNMDKG/EU



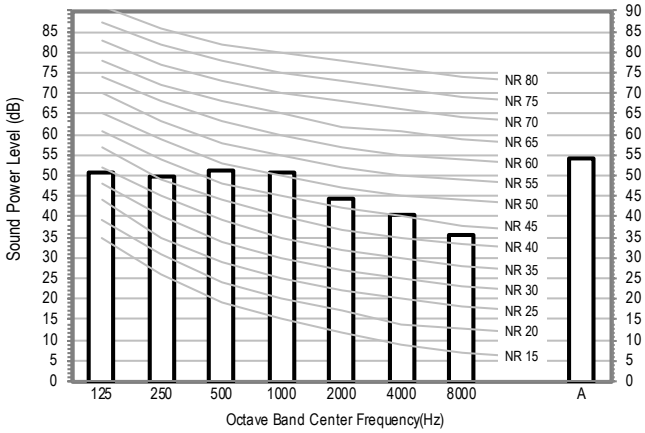
2) AM028DNMDKG/EU



3) AM036DNMDKG/EU



4) AM045DNMDKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

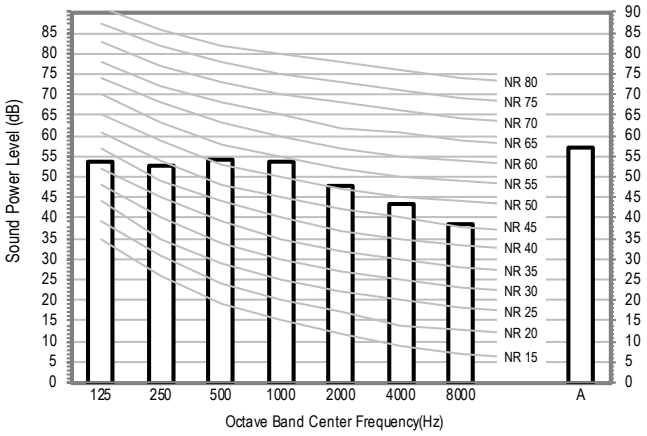
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

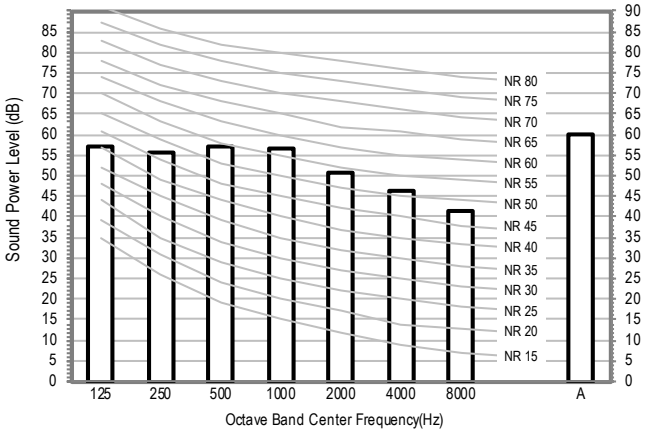
Model	Power
AM056DNMDKG/EU	57
AM071DNMDKG/EU	60
AM090DNMDKG/EU	61
AM112DNMDKG/EU	61

- NR Curve

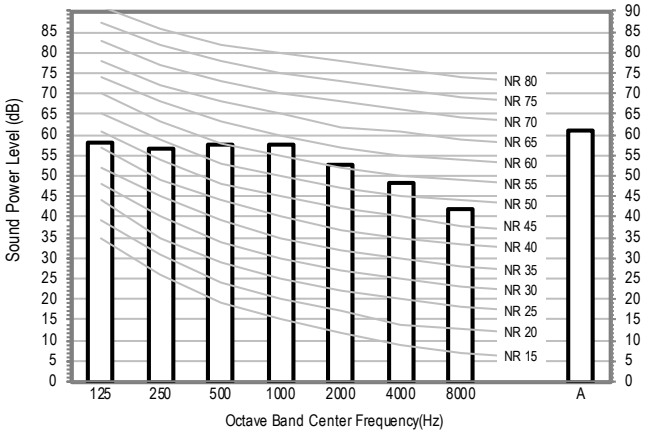
1) AM056DNMDKG/EU



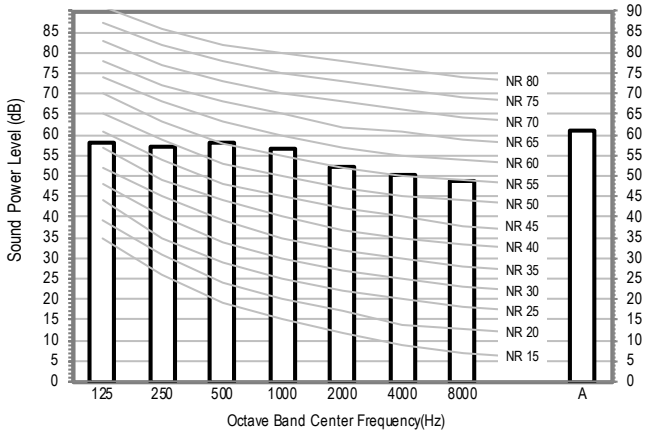
2) AM071DNMDKG/EU



3) AM090DNMDKG/EU



4) AM112DNMDKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

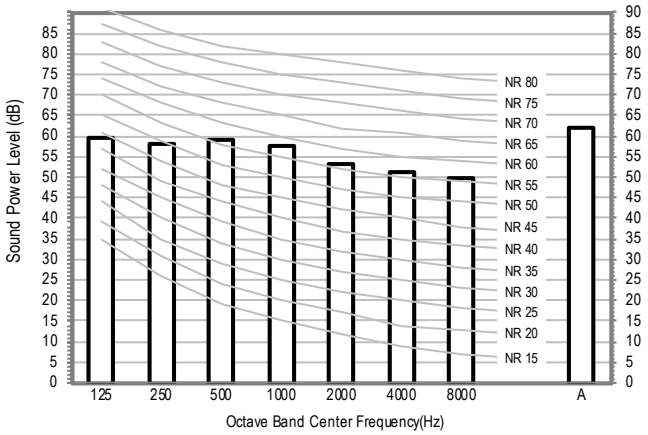
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

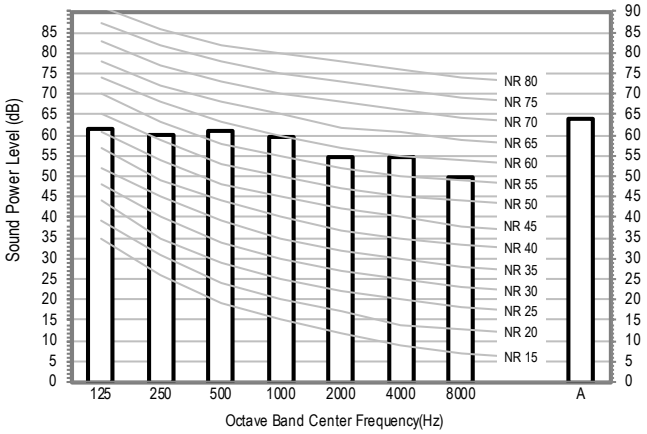
Model	Power
AM128DNMDKG/EU	62
AM140DNMDKG/EU	64
AM160DNMDKG/EU	65

- NR Curve

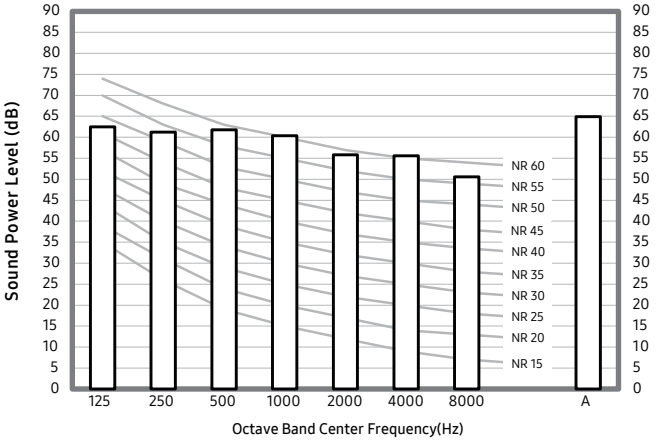
1) AM128DNMDKG/EU



2) AM140DNMDKG/EU



3) AM160DNMDKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

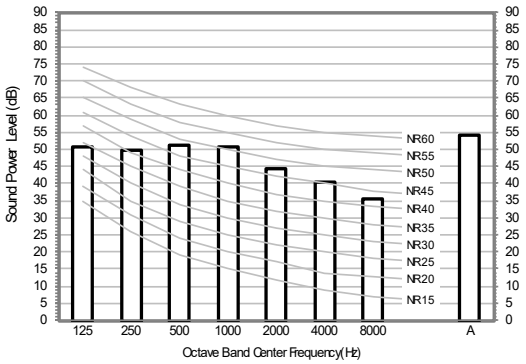
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

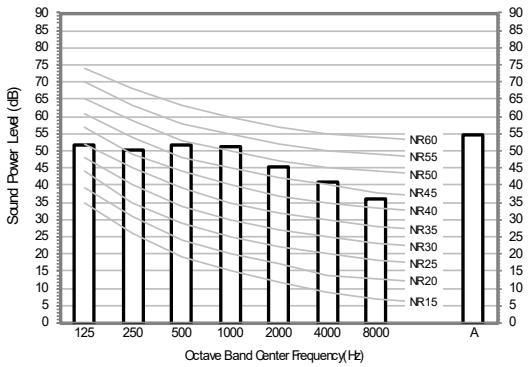
Model	Power
AM022DNMFKG/EU	55
AM028DNMFKG/EU	56
AM036DNMFKG/EU	57
AM045DNMFKG/EU	57

- NR Curve

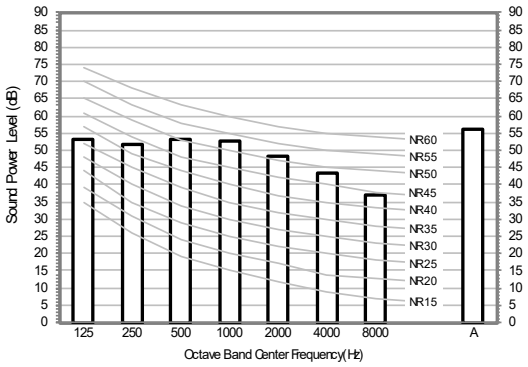
1) AM022DNMFKG/EU



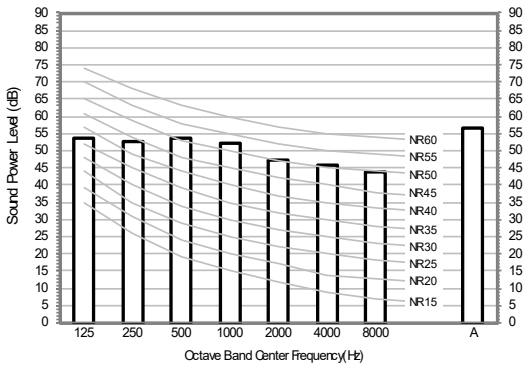
2) AM028DNMFKG/EU



3) AM036DNMFKG/EU



4) AM045DNMFKG/EU



7. Sound Data

MSP Duct

Sound Power level

NOTE

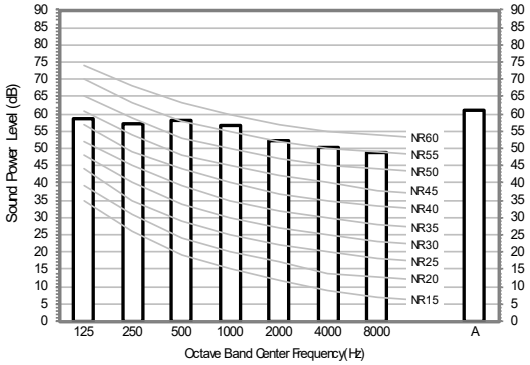
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

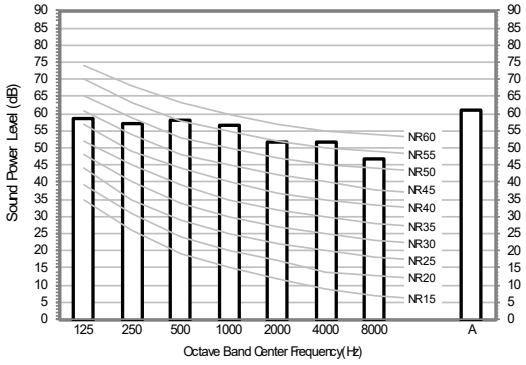
Model	Power
AM056DNMFKG/EU	63
AM071DNMFKG/EU	63

- NR Curve

1) AM056DNMFKG/EU



2) AM071DNMFKG/EU

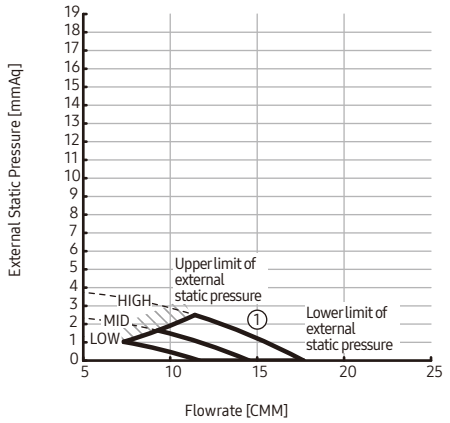


8. Fan Characteristics

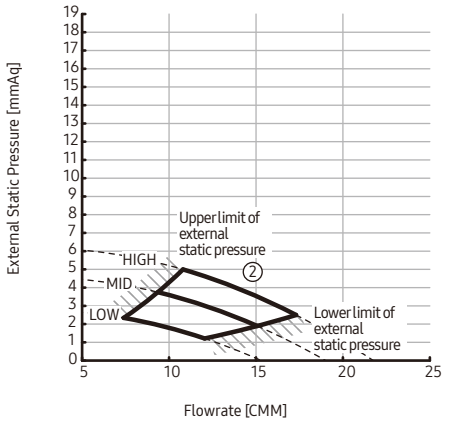
MSP Duct

AM022DNMDKG/EU

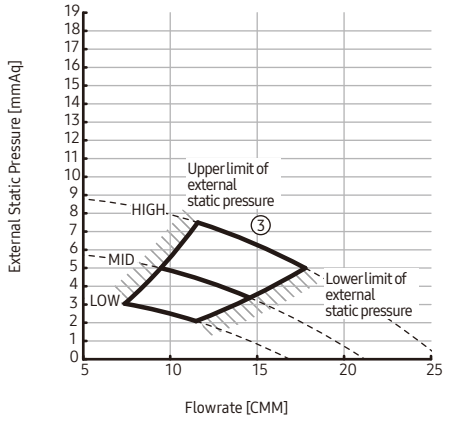
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5 (Std.)	010054-1E50A2-201616-331100



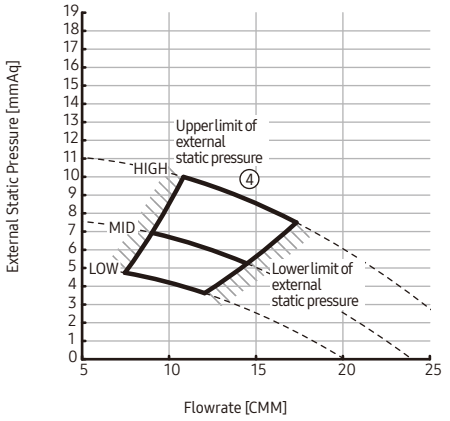
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	010054-1E5417-201616-331100



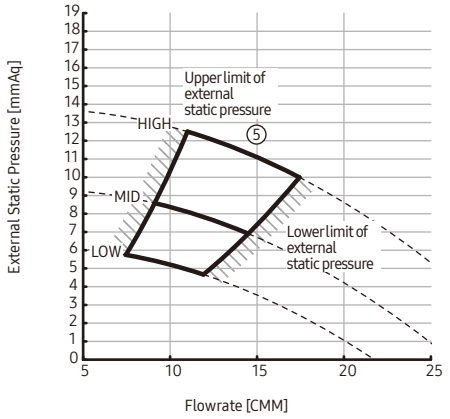
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	010054-1E5489-201616-331100



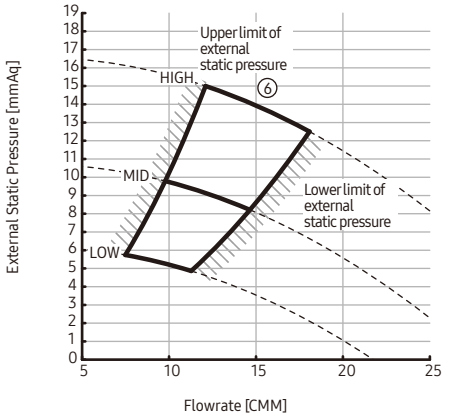
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	010054-1E54DE-201616-331100



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

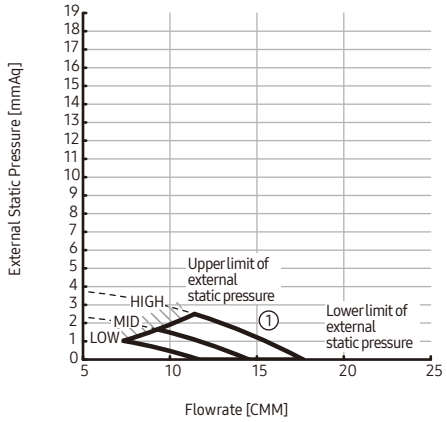


8. Fan Characteristics

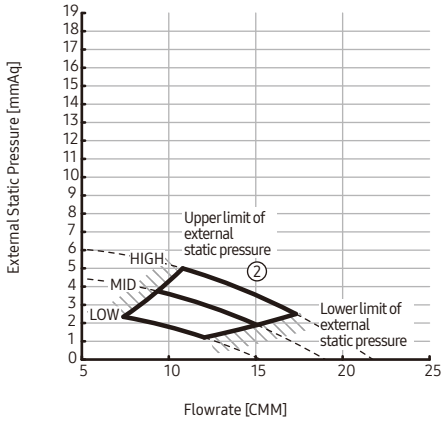
MSP Duct

AM028DNMDKG/EU

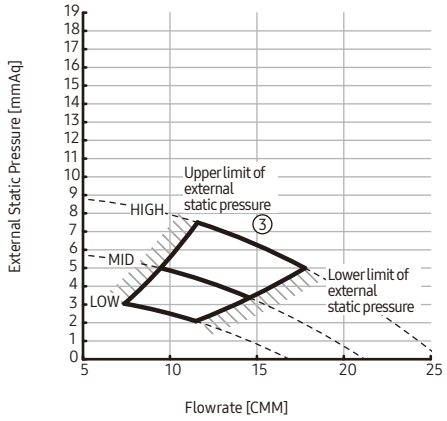
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5 (Std.)	010054-1E50A2-201C1C-331100



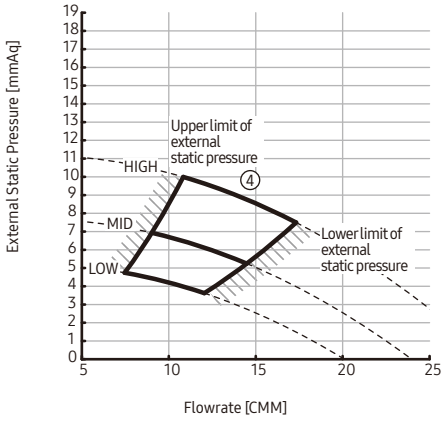
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	010054-1E5417-201C1C-331100



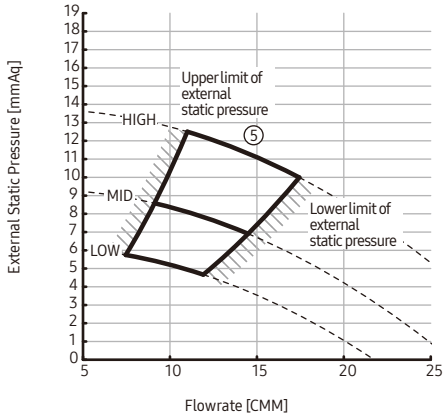
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	010054-1E5489-201C1C-331100



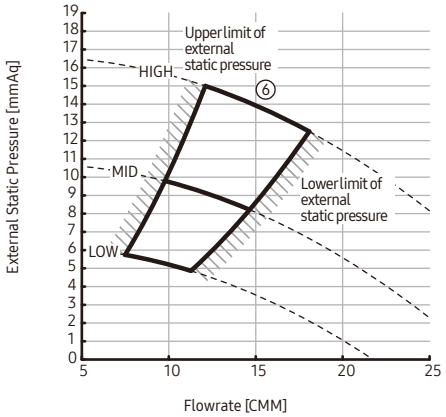
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	010054-1E54DE-201C1C-331100



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

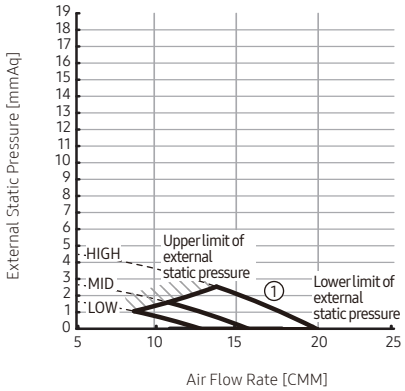


8. Fan Characteristics

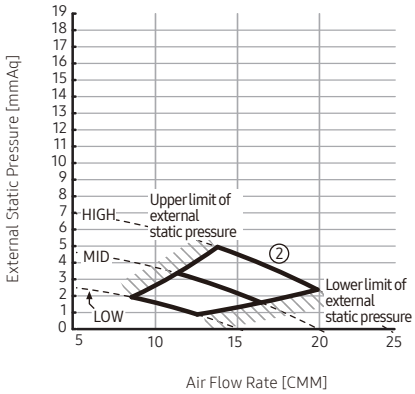
MSP Duct

AM036DNMDKG/EU

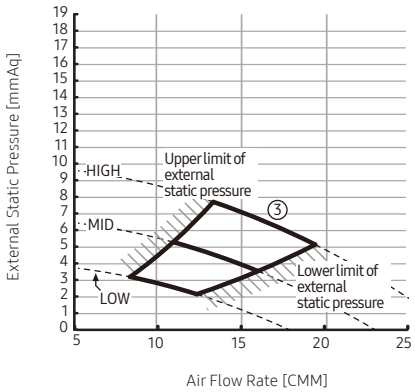
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤2.5	010054-1E50B2-202424-331100



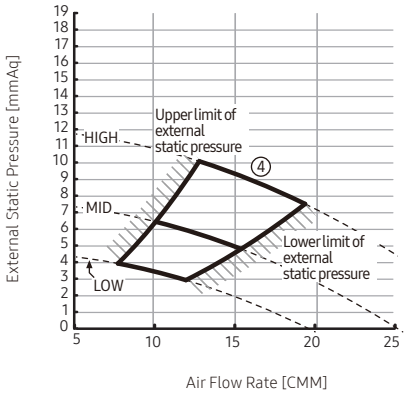
②	External Static Pressure(mmAq)	Option Code
	2.5<SP≤5	010054-1E5436-202424-331100



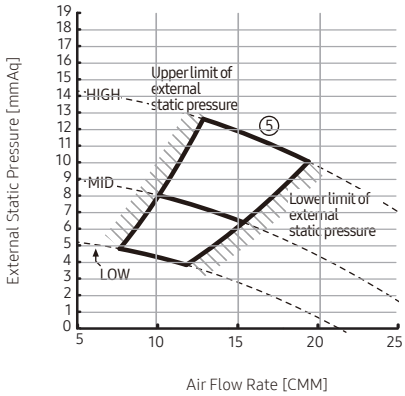
③	External Static Pressure(mmAq)	Option Code
	5<SP≤7.5	010054-1E5499-202424-331100



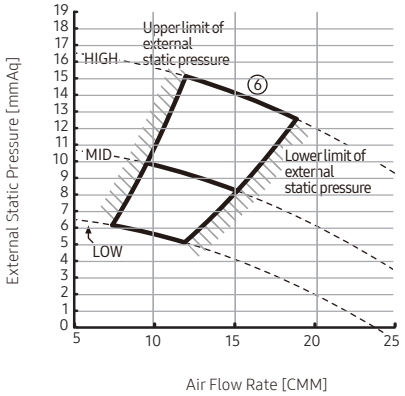
④	External Static Pressure(mmAq)	Option Code
	7.5<SP≤10	010054-1E54EB-202424-331100



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



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

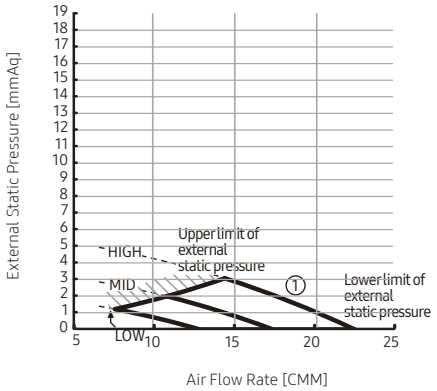


8. Fan Characteristics

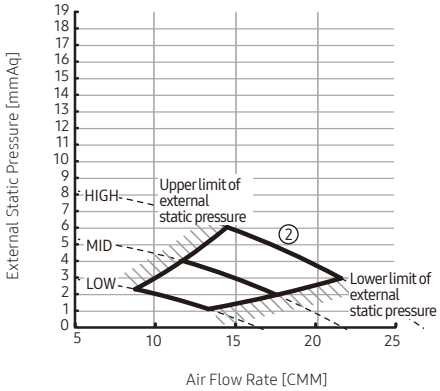
MSP Duct

AM045DNMDKG/EU

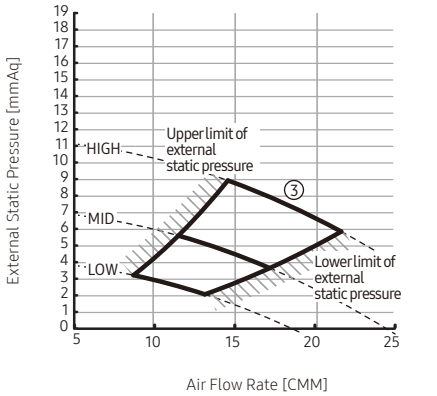
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3	010054-1E50E3-202D2D-331100



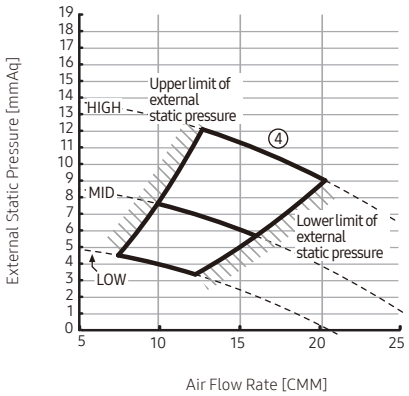
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E5467-202D2D-331100



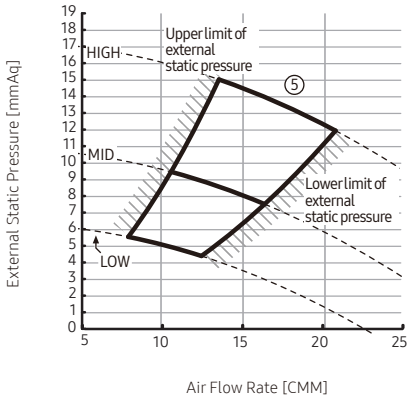
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E54DA-202D2D-331100



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



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

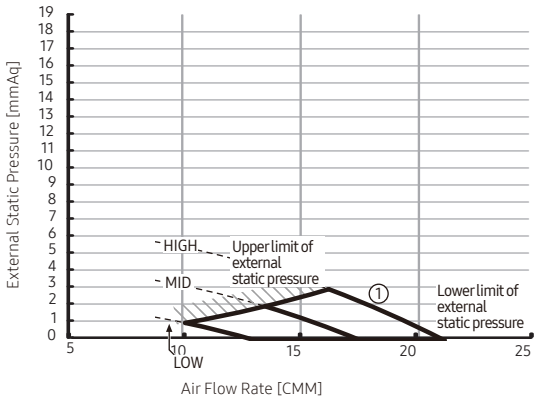


8. Fan Characteristics

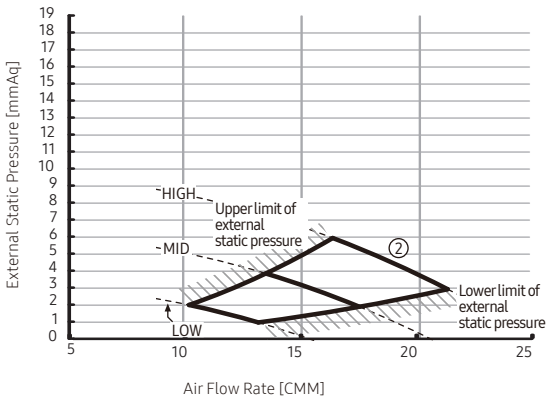
MSP Duct

AM056DNMDKG/EU

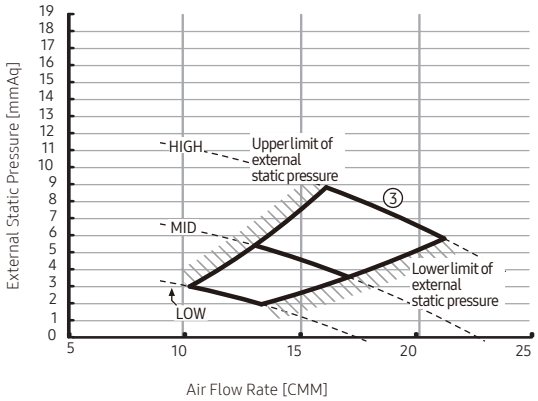
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3	010054-1E5413-203838-331100



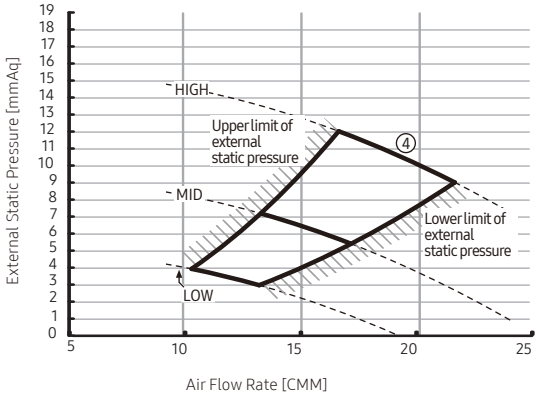
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E5497-203838-331100



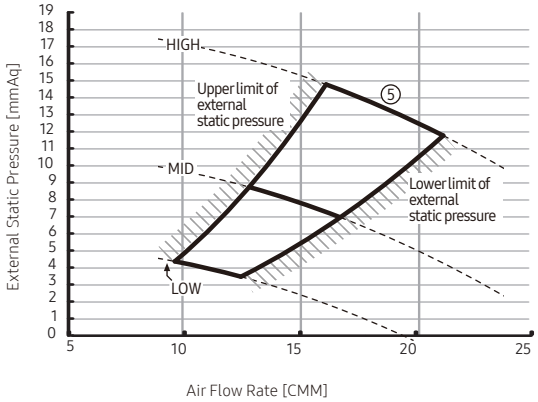
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E54FA-203838-331100



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



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

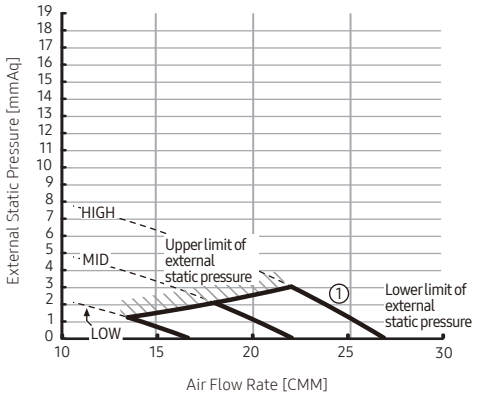


8. Fan Characteristics

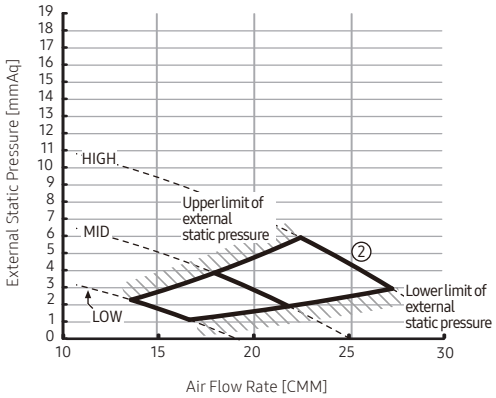
MSP Duct

AM071DNMDKG/EU

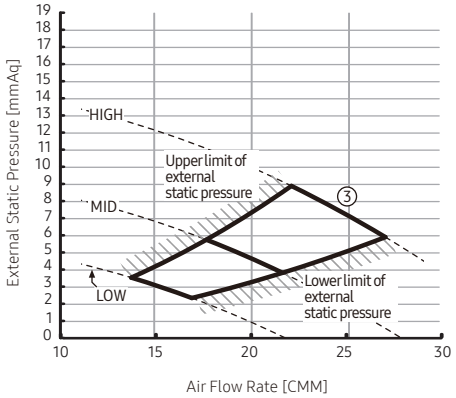
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3	010054-1E5488-204747-331100



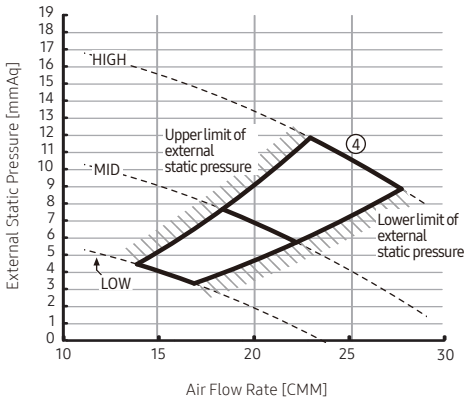
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E54FB-204747-331100



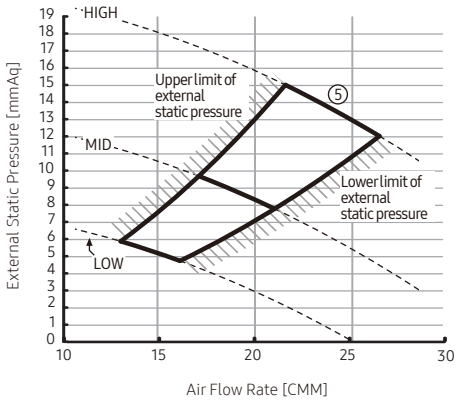
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E584F-204747-331100



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



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

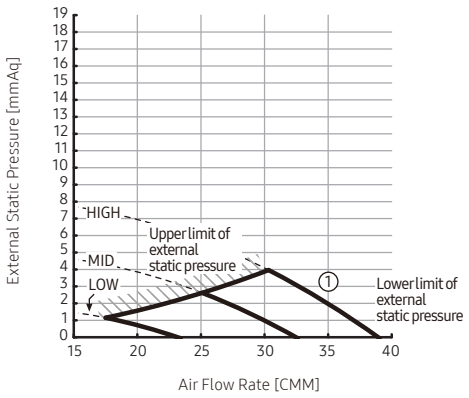


8. Fan Characteristics

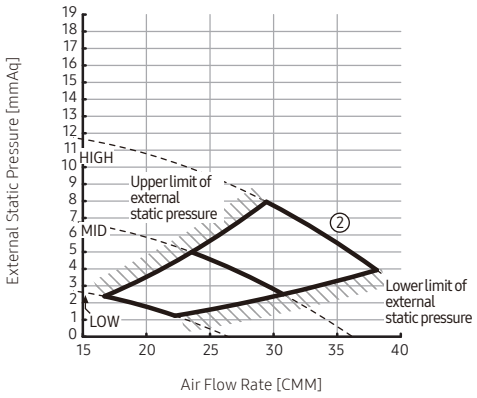
MSP Duct

AM090DNMDKG/EU

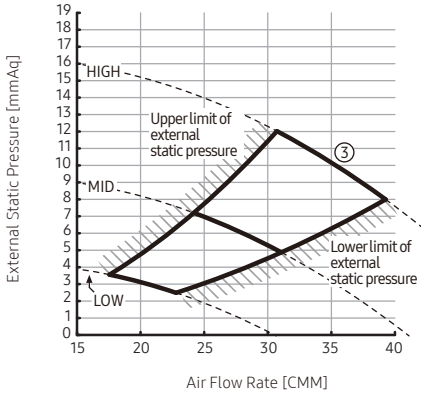
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤4	010054-1E5477-205A5A-331110



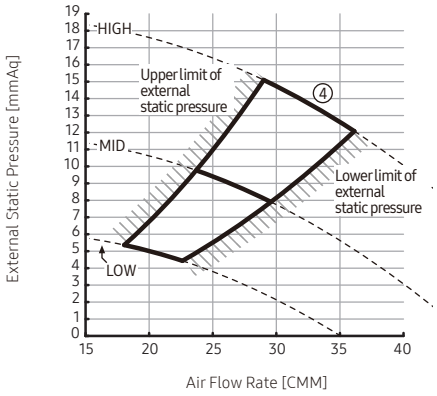
②	External Static Pressure(mmAq)	Option Code
	4<SP≤8	010054-1E580A-205A5A-331110



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



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

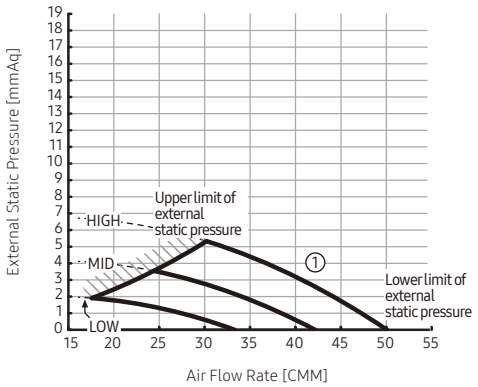


8. Fan Characteristics

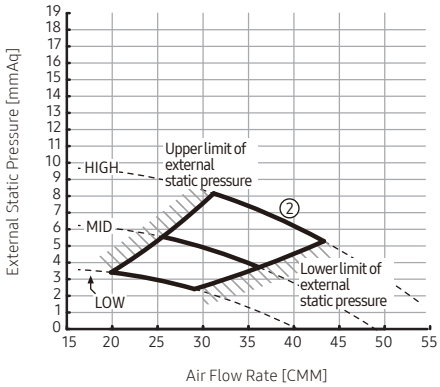
MSP Duct

AM112DNMDKG/EU

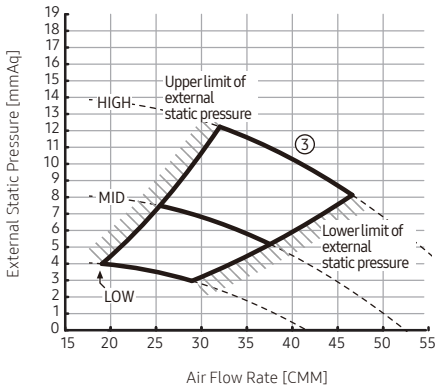
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2	010054-1E5405-207070-331120



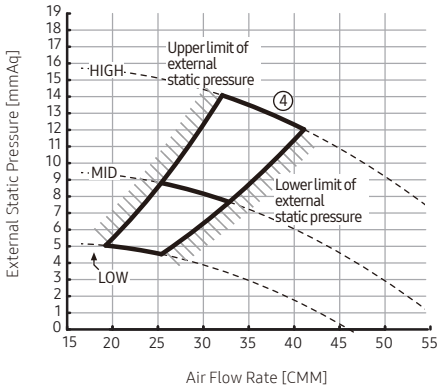
②	External Static Pressure(mmAq)	Option Code
	5.2<SP≤8	010054-1E5469-207070-331120



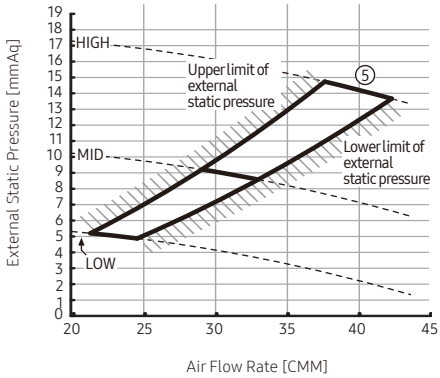
③	External Static Pressure(mmAq)	Option Code
	8<SP≤12	010054-1E54DA-207070-331120



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



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

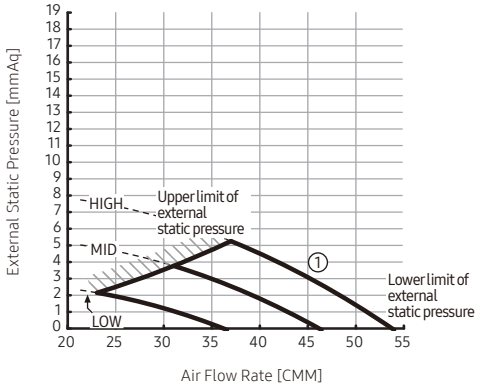


8. Fan Characteristics

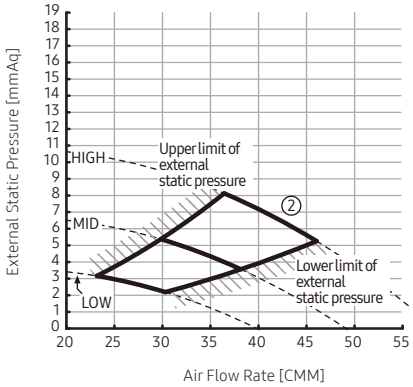
MSP Duct

AM128DNMDKG/EU

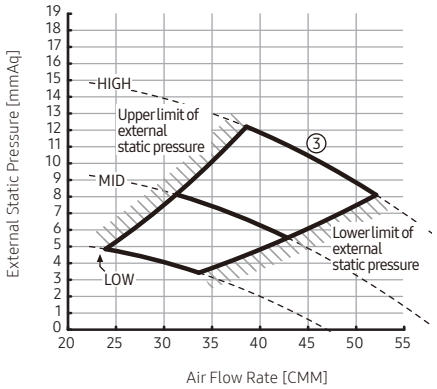
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2	010054-1E5437-208080-331120



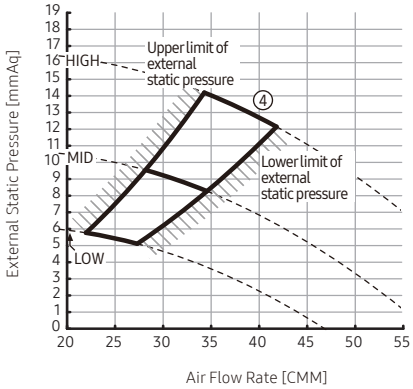
②	External Static Pressure(mmAq)	Option Code
	5.2<SP≤8	010054-1E5489-208080-331120



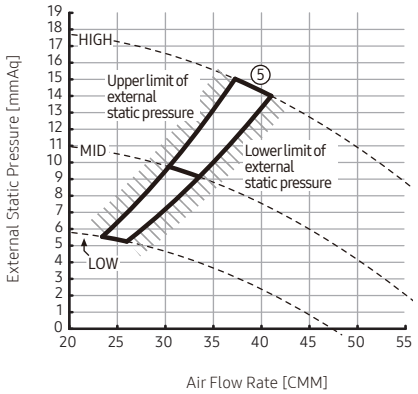
③	External Static Pressure(mmAq)	Option Code
	8<SP≤12	010054-1E54FD-208080-331120



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



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

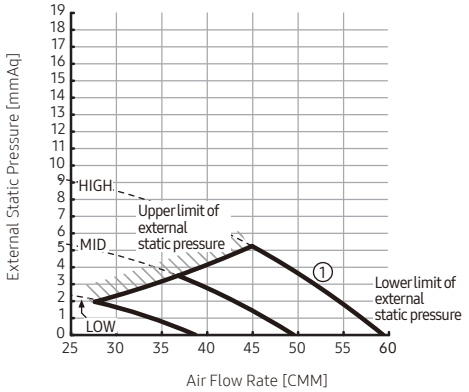


8. Fan Characteristics

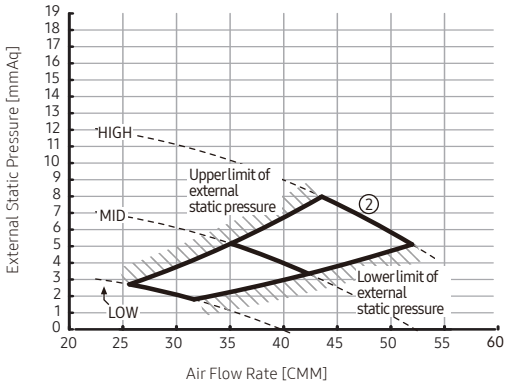
MSP Duct

AM140DNMDKG/EU

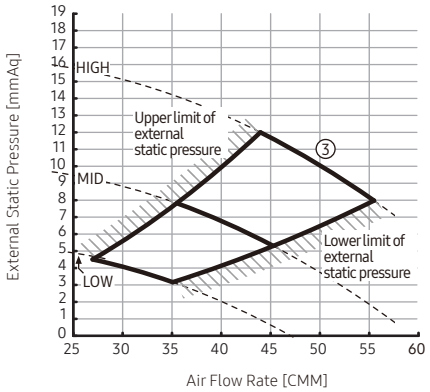
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2	010054-1E5467-208C8C-331120



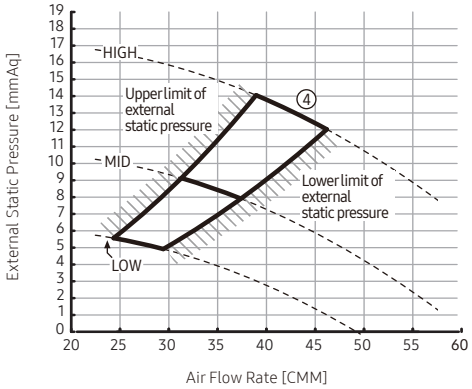
②	External Static Pressure(mmAq)	Option Code
	5.2<SP≤8	010054-1E54B9-208C8C-331120



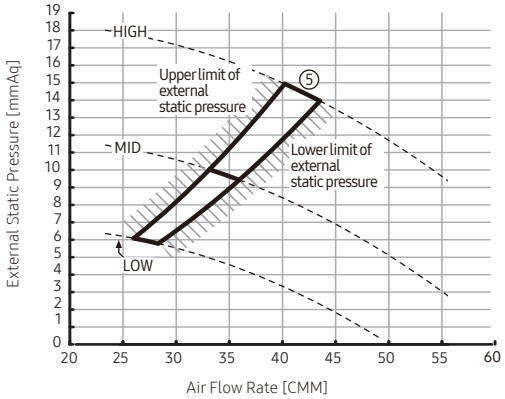
③	External Static Pressure(mmAq)	Option Code
	8<SP≤12	010054-1E581D-208C8C-331120



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



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

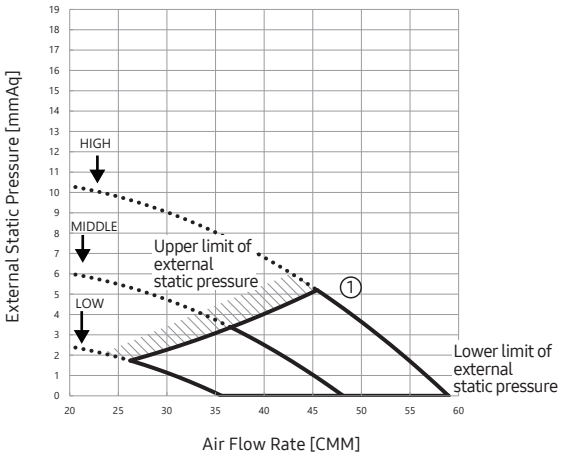


8. Fan Characteristics

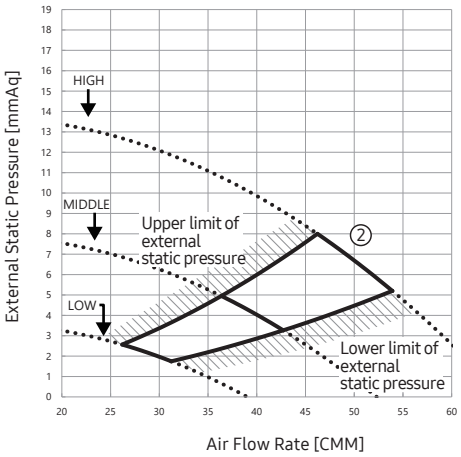
MSP Duct

AM160DNMDKG/EU

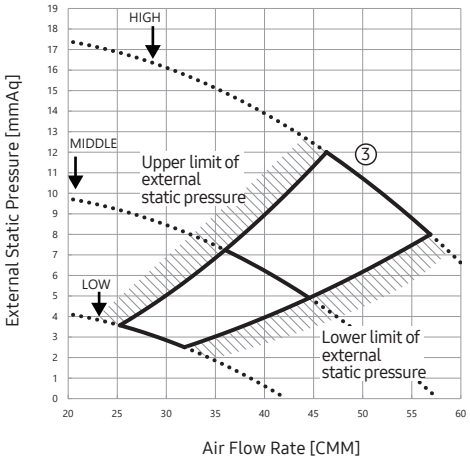
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤5.2	010054-1E54B9-20A0A0-331120



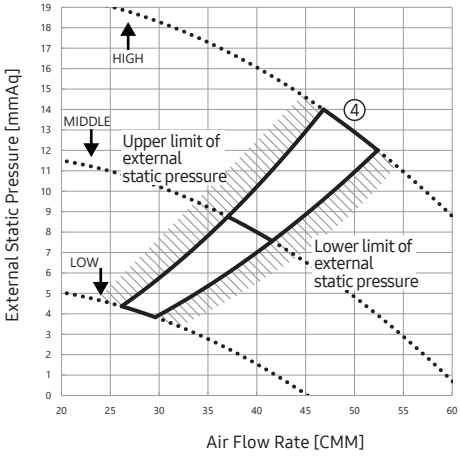
②	External Static Pressure(mmAq)	Option Code
	5.2<SP≤8	010054-1E580A-20A0A0-331120



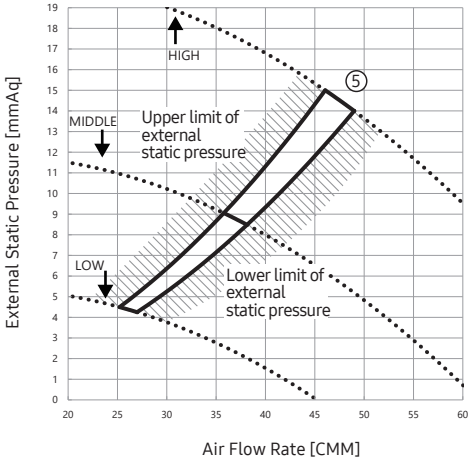
③	External Static Pressure(mmAq)	Option Code
	8<SP≤12	010054-1E583C-20A0A0-331120



④	External Static Pressure(mmAq)	Option Code
	12<SP≤14	010054-1E586D-20A0A0-331120



⑤	External Static Pressure(mmAq)	Option Code
	14<SP≤15	010054-1E589E-20A0A0-331120

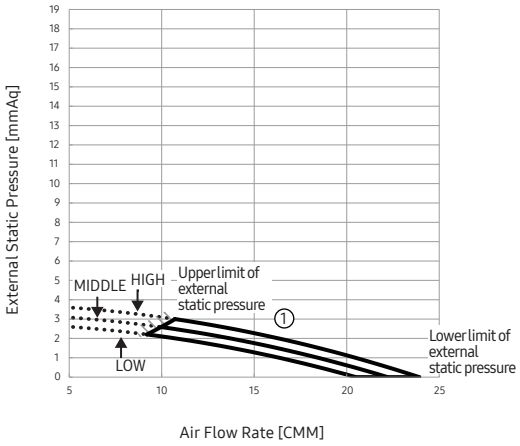


8. Fan Characteristics

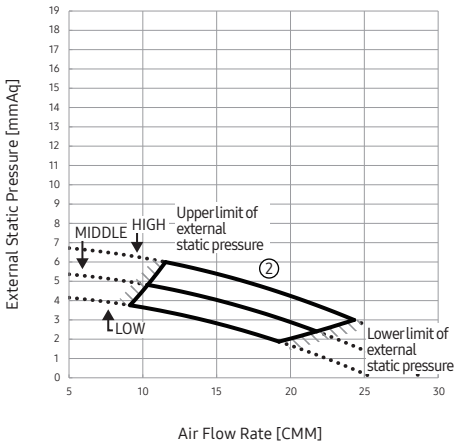
MSP Duct

AM022DNMFKG/EU

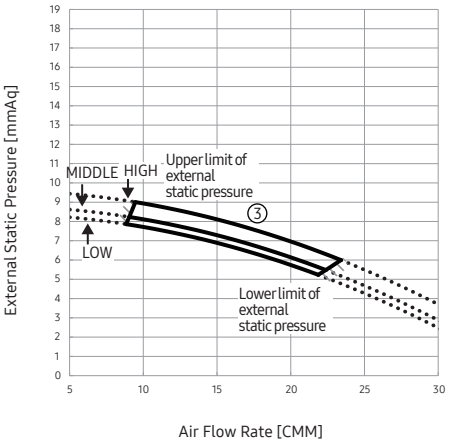
①	External Static Pressure(mmAq)	Option Code
	0<SP≤3	010054-1E5086-201616-331110



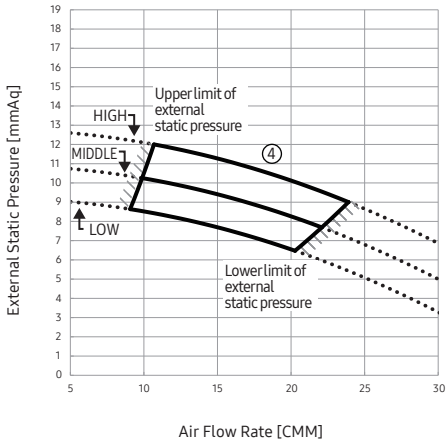
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E540C-201616-331110



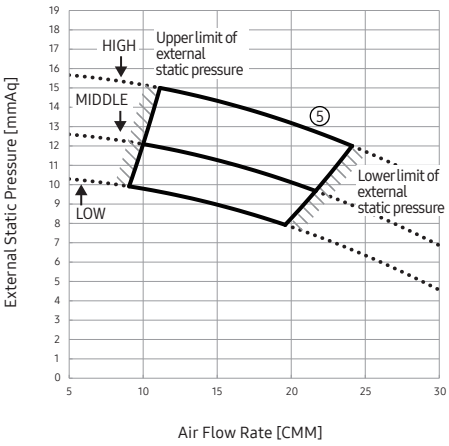
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E5584-201616-331110



④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E55F9-201616-331110



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E5A51-201616-331110

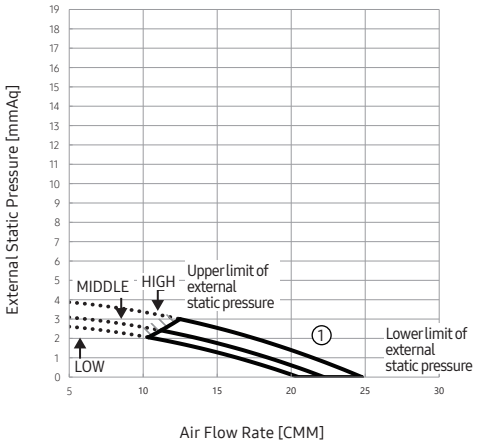


8. Fan Characteristics

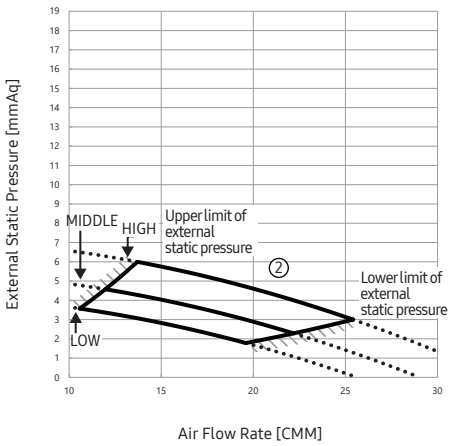
MSP Duct

AM028DNMFKG/EU

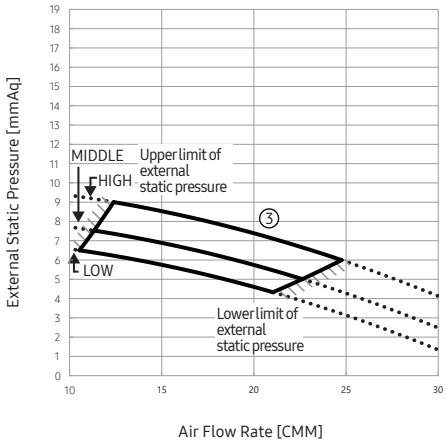
①	External Static Pressure(mmAq)	Option Code
	0<SP≤3	010054-1E5096-201C1C-331110



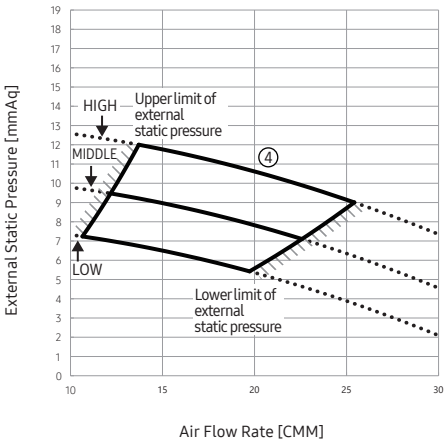
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E541D-201C1C-331110



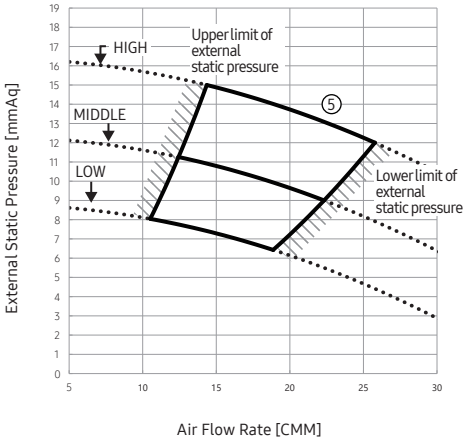
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E5592-201C1C-331110



④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E5905-201C1C-331110



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E596A-201C1C-331110

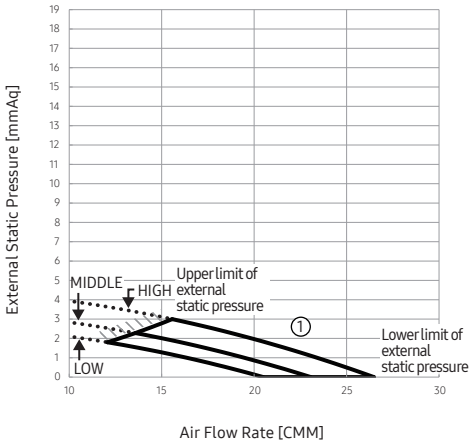


8. Fan Characteristics

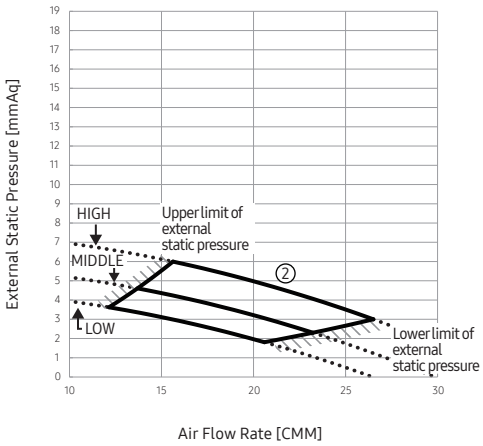
MSP Duct

AM036DNMFKG/EU

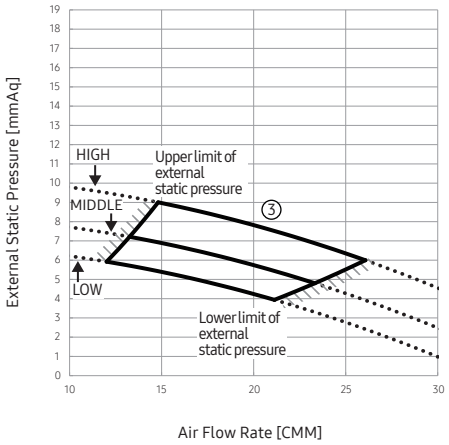
①	External Static Pressure(mmAq)	Option Code
	0<SP≤3	010054-1E50A6-202424-331110



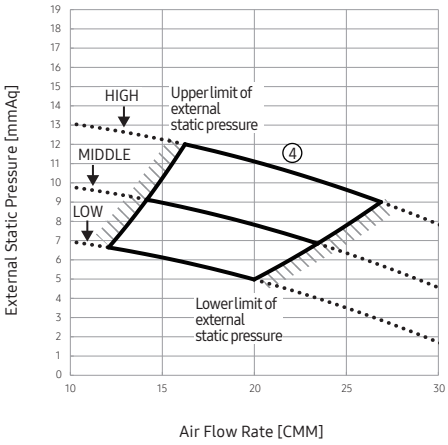
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E543A-202424-331110



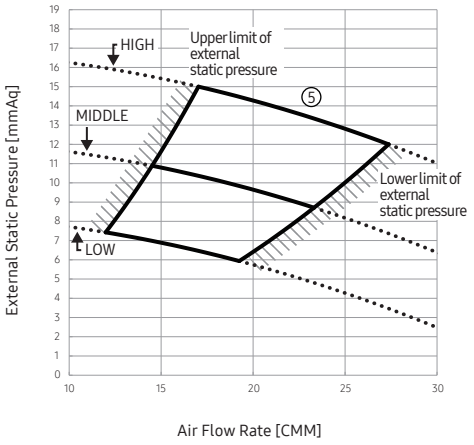
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E55A2-202424-331110



④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E5915-202424-331110



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E597A-202424-331110

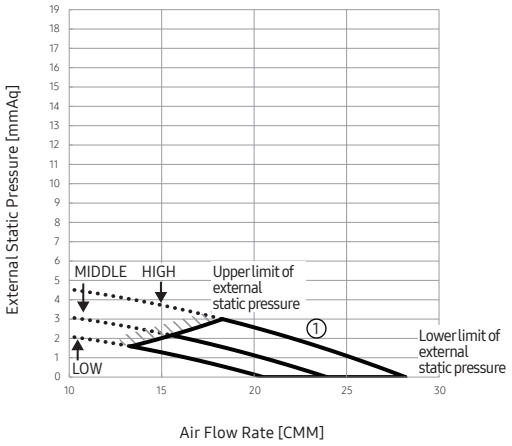


8. Fan Characteristics

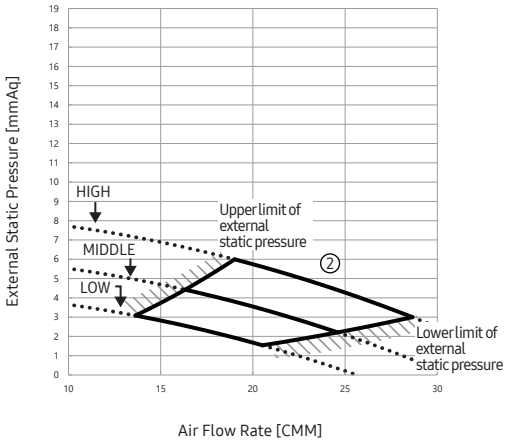
MSP Duct

AM045DNMFKG/EU

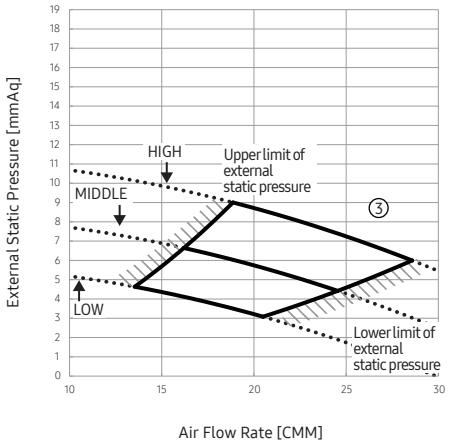
①	External Static Pressure(mmAq)	Option Code
	0<SP≤3	010054-1E50C6-202D2D-331110



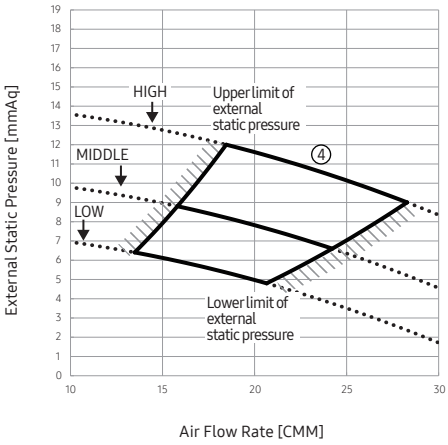
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E545A-202D2D-331110



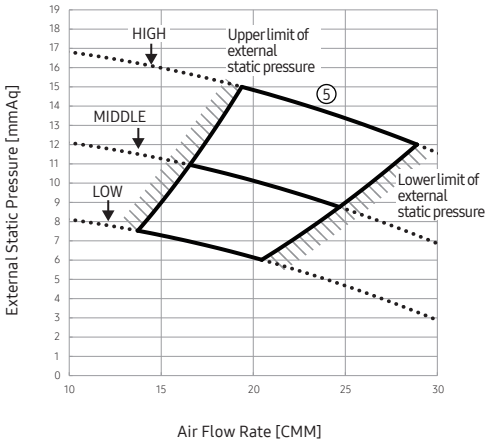
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E55C0-202D2D-331110



④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E5930-202D2D-331110



⑤	External Static Pressure(mmAq)	Option Code
	12<SP≤15	010054-1E598C-202D2D-331110

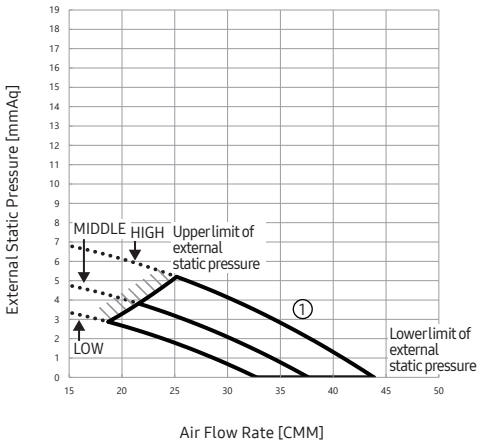


8. Fan Characteristics

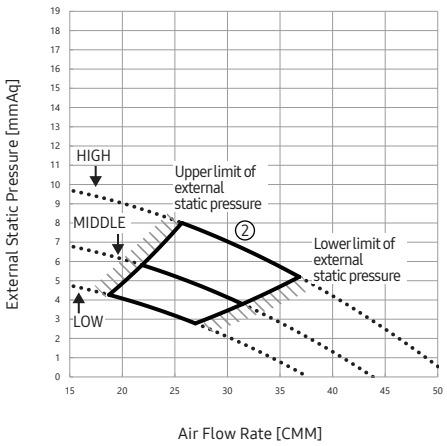
MSP Duct

AM056DNMFKG/EU

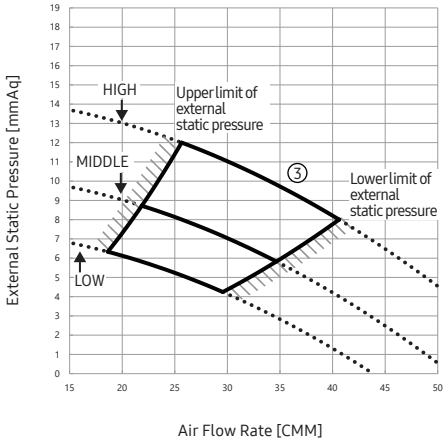
①	External Static Pressure(mmAq)	Option Code
	0<SP≤5.2	010054-1E50D7-203838-331120



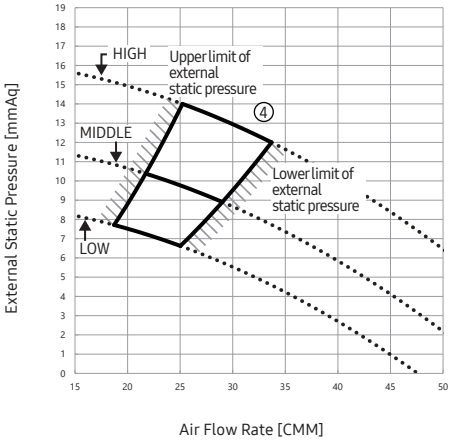
②	External Static Pressure(mmAq)	Option Code
	5.2<SP≤8	010054-1E543A-203838-331120



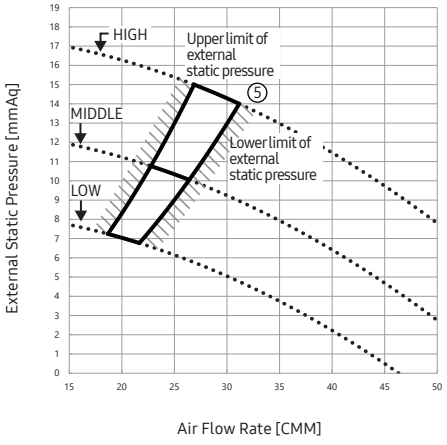
③	External Static Pressure(mmAq)	Option Code
	8<SP≤12	010054-1E54BF-203838-331120



④	External Static Pressure(mmAq)	Option Code
	12<SP≤14	010054-1E54FF-203838-331120



⑤	External Static Pressure(mmAq)	Option Code
	14<SP≤15	010054-1E5906-203838-331120

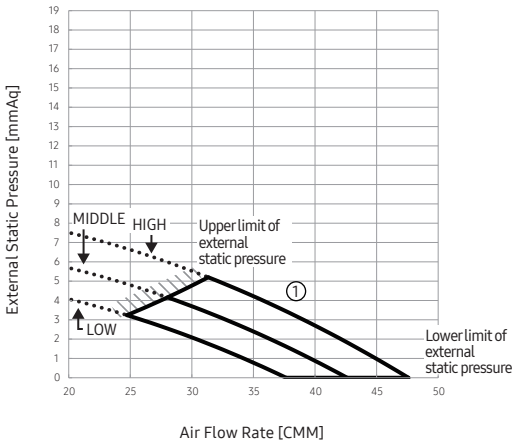


8. Fan Characteristics

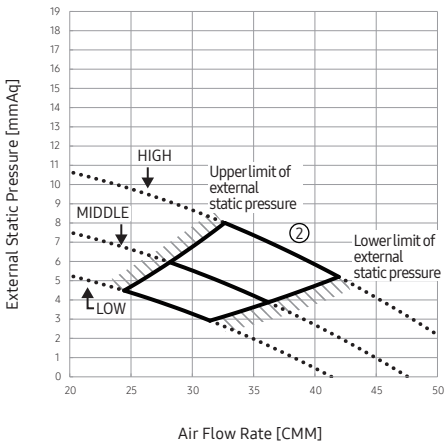
MSP Duct

AM071DNMFKG/EU

①	External Static Pressure(mmAq)	Option Code
	0<SP≤5.2	010054-1E5419-204747-331120



②	External Static Pressure(mmAq)	Option Code
	5.2<SP≤8	010054-1E547B-204747-331120



③	External Static Pressure(mmAq)	Option Code
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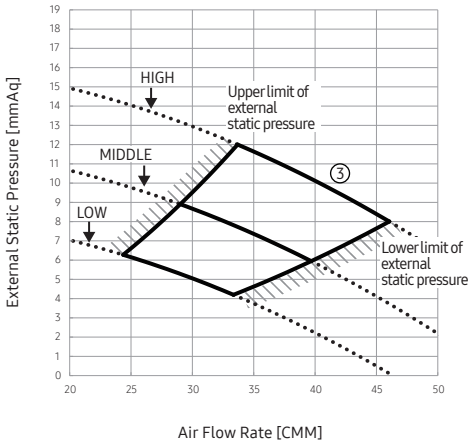

④	External Static Pressure(mmAq)	Option Code
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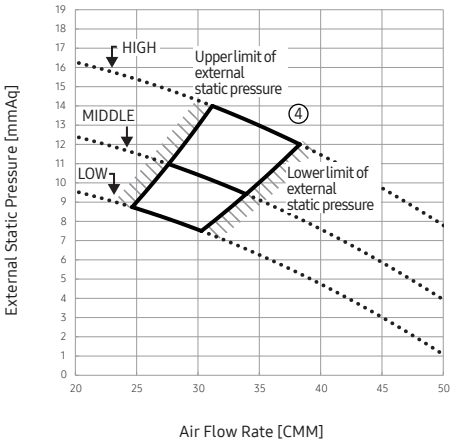

⑤	External Static Pressure(mmAq)	Option Code
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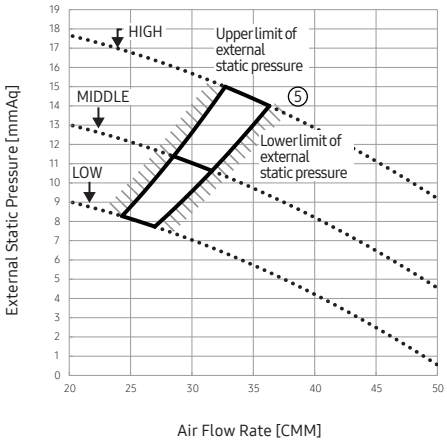
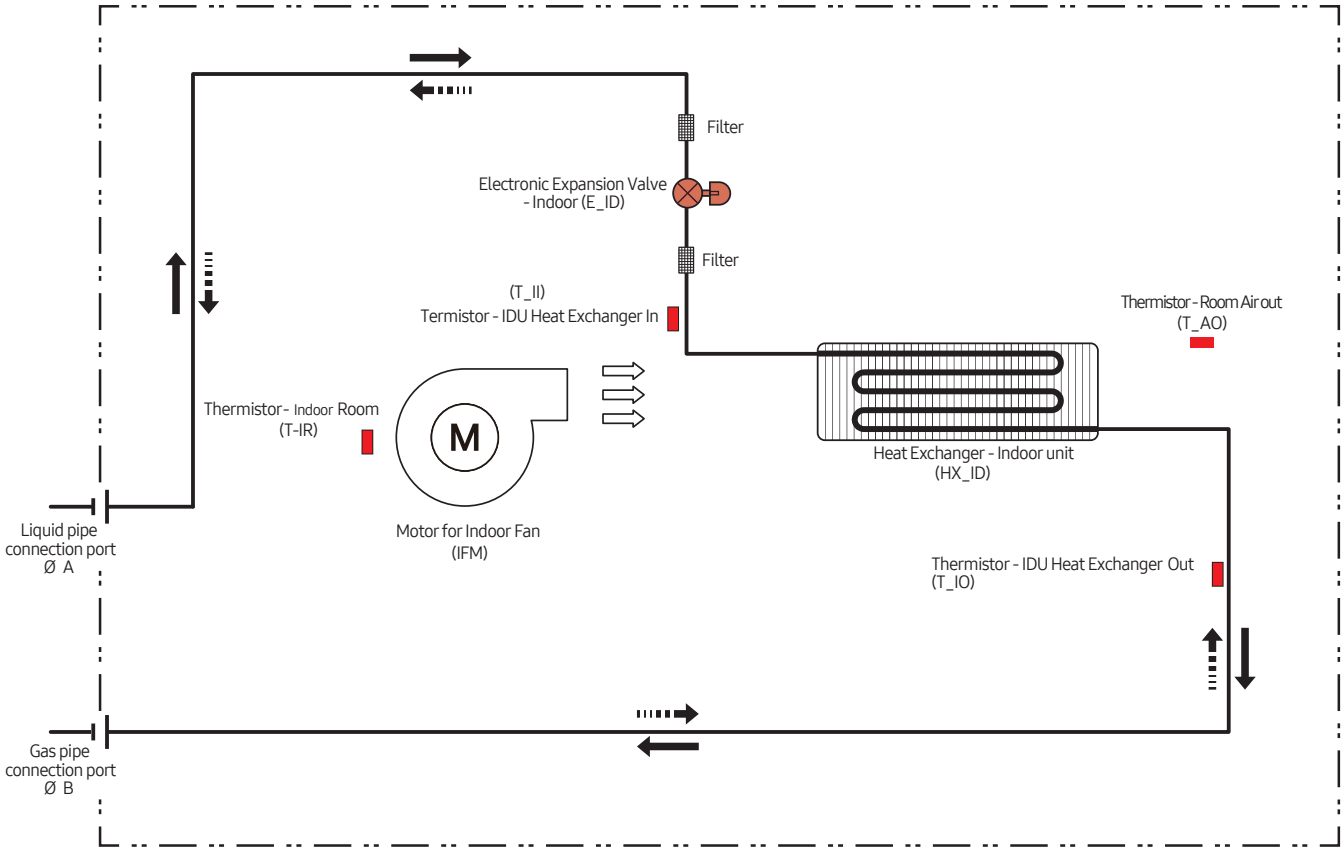


9. Piping Diagram

MSP Duct

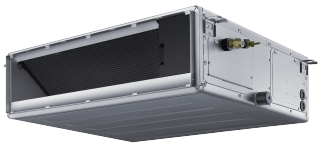


Refrigerant flow	
Cooling	Heating
→	⇢

HSP Duct

Line-up

HSP Duct

Capacity (kW)			
9.0	11.2	12.8	14.0
			

1. Specification

HSP Duct

Model Name				AM090DNHDKG/EU	AM112DNHDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	9.0	11.2
			Btu/h	30,700	38,200
		Heating	kW	10.0	12.5
			Btu/h	34,100	42,700
Power	Power Input	Cooling	W	145.0	130.0
		Heating		145.0	130.0
	Current Input	Cooling	A	1.2	1.2
		Heating		1.2	1.2
	Current	MCA	A	2.05	2.41
		MFA		15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3
	Air Flow Rate	H/M/L	m³/min	29 / 25 / 22	32 / 26 / 20
			l/s	483 / 417 / 367	533 / 433 / 333
	External Pressure	Min/Std/Max	mmAq	0 / 3 / 20	3 / 6.2 / 20
			Pa	0 / 29.42 / 196.13	29.42 / 60.8 / 196.13
Fan Motor	Type		-	BLDC	BLDC
	Output x n		W	153	350
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75
			-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Control Method		-	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	34 / 31 / 28	36 / 33 / 30
	Sound Power Level	Cooling		60	61
External Dimension	Net Weight		kg	34.2	44.5
	Shipping Weight		kg	38.9	51.1
	Net Dimensions (W×H×D)		mm	1,200 x 250 x 700	1,300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1,429 x 320 x 779	1,529 x 370 x 779
Casing	Material		-	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-
		Internal Model	-	Built in	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24
	Air Filter		-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

1. Specification

HSP Duct

Model Name				AM128DNHDKG/EU	AM140DNHDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60
Performance	Capacity	Cooling	kW	12.8	14.0
			Btu/h	43,700	47,800
		Heating	kW	13.8	16.0
			Btu/h	47,100	54,600
Power	Power Input	Cooling	W	185.0	220.0
		Heating		185.0	220.0
	Current Input	Cooling	A	1.3	1.5
		Heating		1.3	1.5
	Current	MCA	A	2.96	3.23
		MFA		15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	hydrophilic	hydrophilic
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Quantity		EA	3	3
	Air Flow Rate	H/M/L	m³/min	37 / 30 / 22	41 / 34 / 25
			l/s	617 / 500 / 367	683 / 567 / 417
	External Pressure	Min/Std/Max	mmAq	3 / 6.2 / 20	3 / 6.2 / 20
			Pa	29.42 / 60.8 / 196.13	29.42 / 60.8 / 196.13
Fan Motor	Type		-	BLDC	BLDC
	Output x n		W	350	350
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,inch	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication (Min.)		㎟	0.75	0.75
			-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Control Method		-	EEV	EEV
Sound	Sound Pressure Level	H/M/L	dB(A)	39 / 36 / 33	42 / 38 / 34
	Sound Power Level	Cooling		64	65
External Dimension	Net Weight		kg	44.5	44.5
	Shipping Weight		kg	51.1	51.1
	Net Dimensions (W×H×D)		mm	1,300 x 300 x 700	1,300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1,529 x 370 x 779	1,529 x 370 x 779
Casing	Material		-	Steel	Steel
Additional Accessories	Drain pump	External Model	-	-	-
		Internal Model	-	Built in	Built in
		Max. lifting	mm / Liter/h	750 / 24	750 / 24
	Air Filter		-	-	-

NOTE

- Specification may be subject to change without prior notice.
  1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
     - 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
  2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
  4) Select wire size based on the value of MCA

2. Summary Table

HSP Duct

Performance Characteristics

Model Code	Fan Speed	Nominal Capacity [kW]			Airflow [CMM]	Sound Pressure [dBA]	Sound Power [dBA]	Static Pressure (Min/Std/Max) [mmAq]
		Cooling	Sensible	Heating				
AM090DNHDKG/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	-	
AM112DNHDKG/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	-	
AM128DNHDKG/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	-	
AM140DNHDKG/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	-	

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model Code	Power Supply (Φ, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM090DNHDKG/EU	1,2,220~240,50/60	145	1.2	2.05	15	1.64
AM112DNHDKG/EU		130	1.2	2.41	15	1.93
AM128DNHDKG/EU		185	1.3	2.96	15	2.37
AM140DNHDKG/EU		220	1.5	3.23	15	2.59

NOTE

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

3. Capacity Table

HSP Duct

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	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
112	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
128	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
140	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

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)						
			14(℃,DB)	16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)	27(℃,DB)
			TC	TC	TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW	kW	kW
090	7.0	6.0	10.9	10.3	10.1	10.0	9.2	8.4	7.8
112	7.0	6.0	13.6	12.9	12.7	12.5	11.5	10.6	9.9
128	7.0	6.0	15.0	14.2	14.0	13.8	12.7	11.7	10.9
140	7.0	6.0	17.4	16.5	16.2	16.0	14.8	13.5	12.6

NOTE

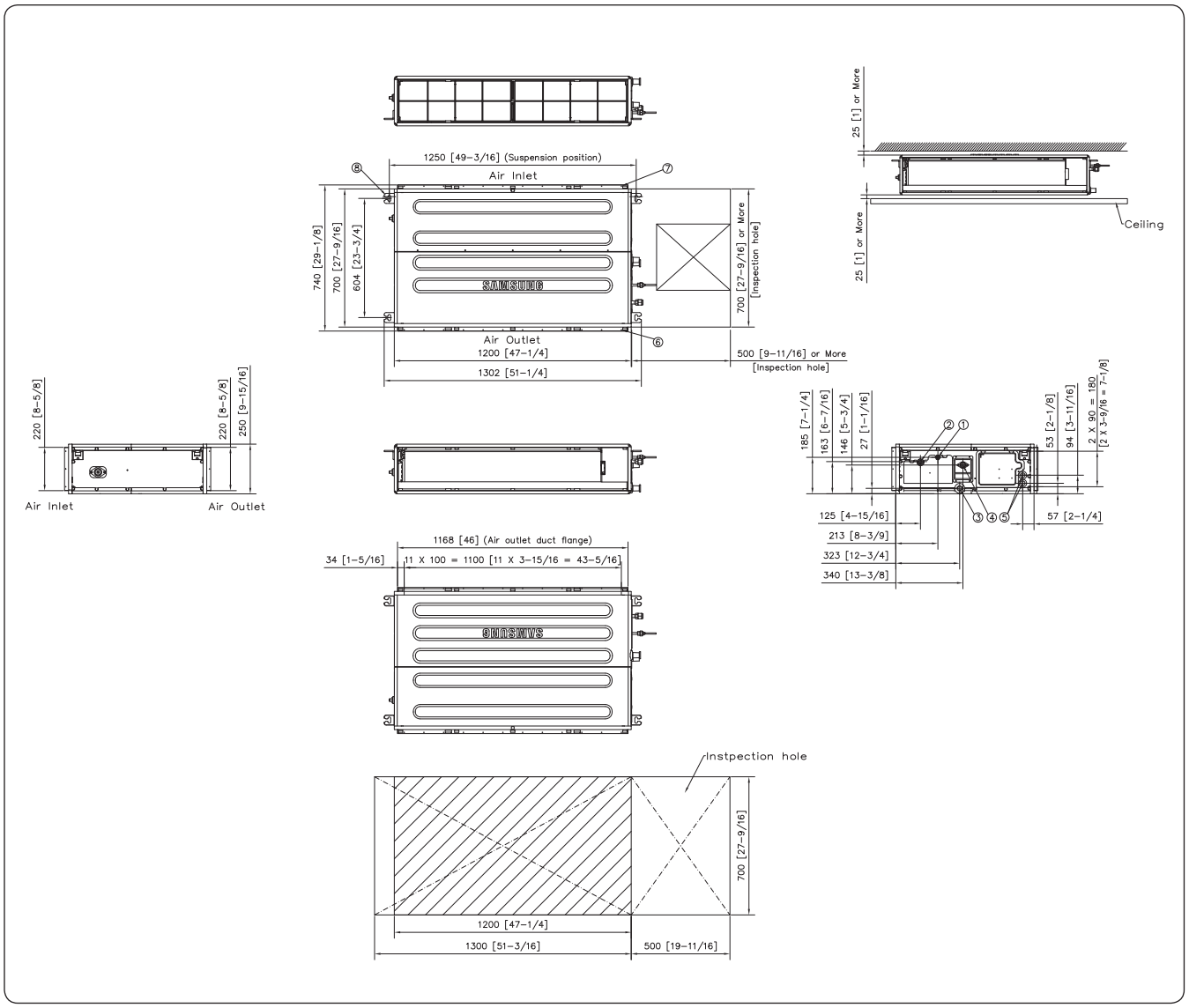
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

HSP Duct

AM090DNHDKG/EU

Units : mm [inches]



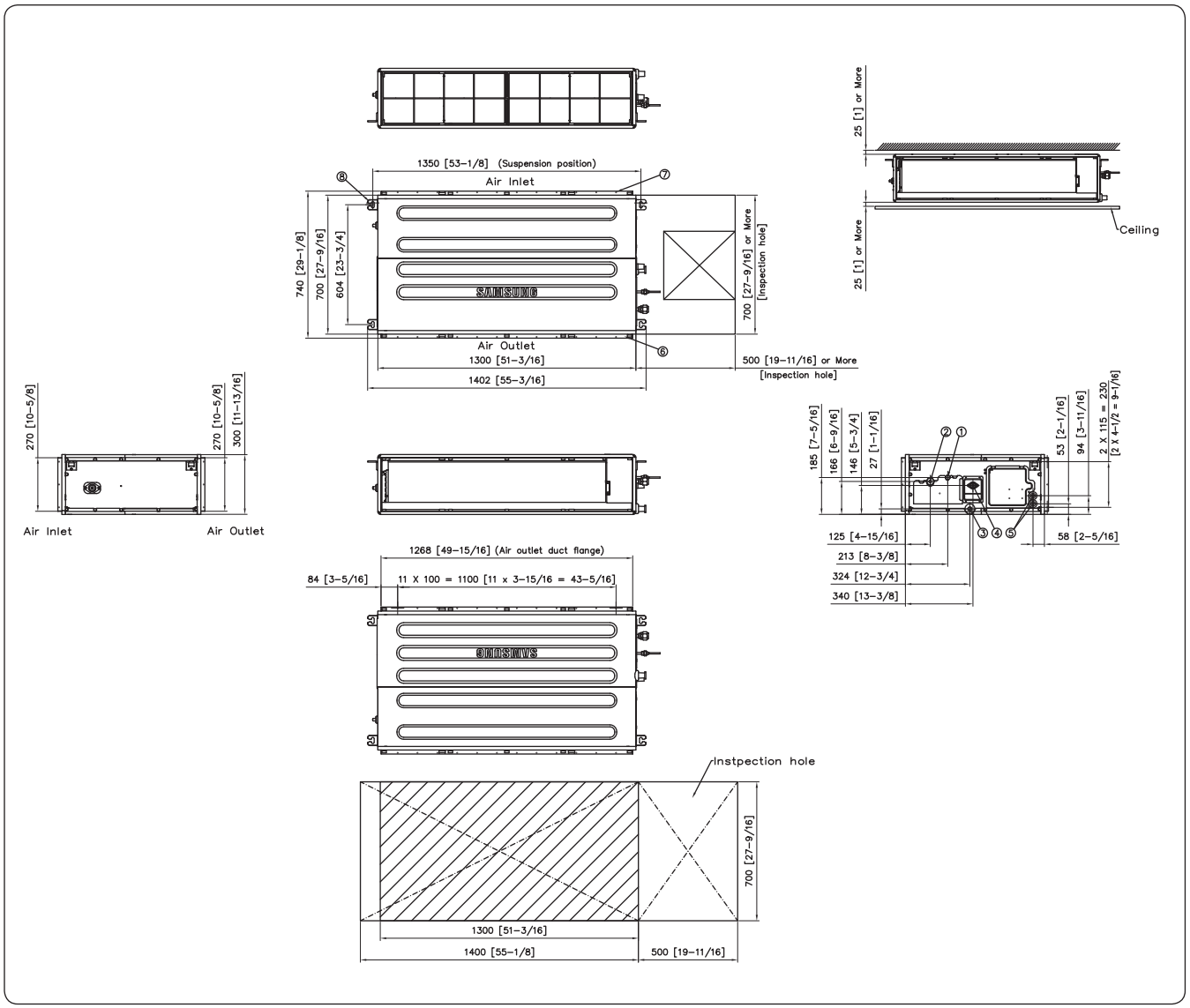
No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8)
②	Gas pipe connection	Φ15.88 (5/8)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)
④	Drain pipe connection (With drain pump)	-
⑤	Power & Communication Conduits	-
⑥	Air discharge grille flange	-
⑦	Air suction flange	-
⑧	Hook	Use M8~M10 bolt(4ea)

4. Dimensional Drawing

HSP Duct

AM112DNHDKG/EU, AM128DNHDKG/EU, AM140DNHDKG/EU

Units : mm [inches]

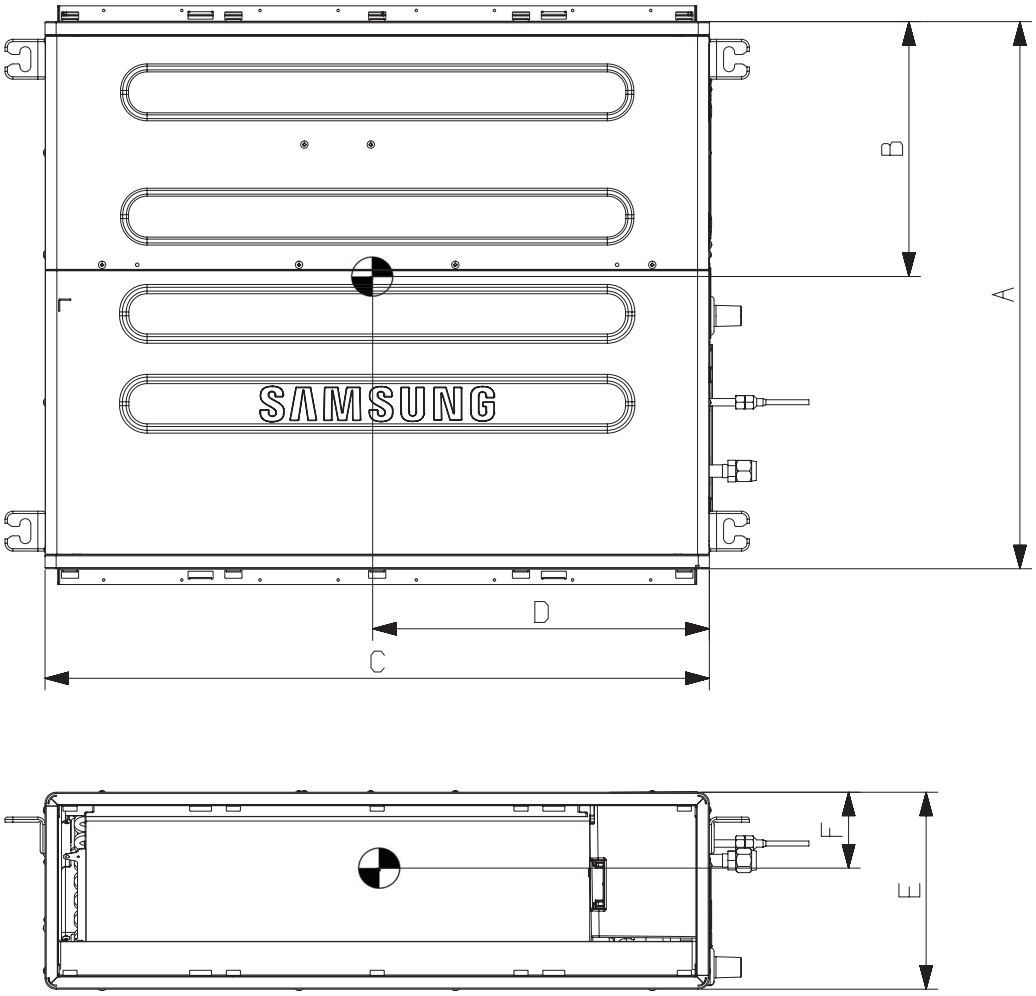


No.	Name	Description
①	Liquid pipe connection	Ø9.52 (3/8)
②	Gas pipe connection	Φ15.88 (5/8)
③	Drain pipe connection (Without drain pump)	VP25 (OD 32, ID 25)
④	Drain pipe connection (With drain pump)	-
⑤	Power & Communication Conduits	-
⑥	Air discharge grille flange	-
⑦	Air suction flange	-
⑧	Hook	Use M8~M10 bolt(4ea)

5. Center of Gravity

HSP Duct

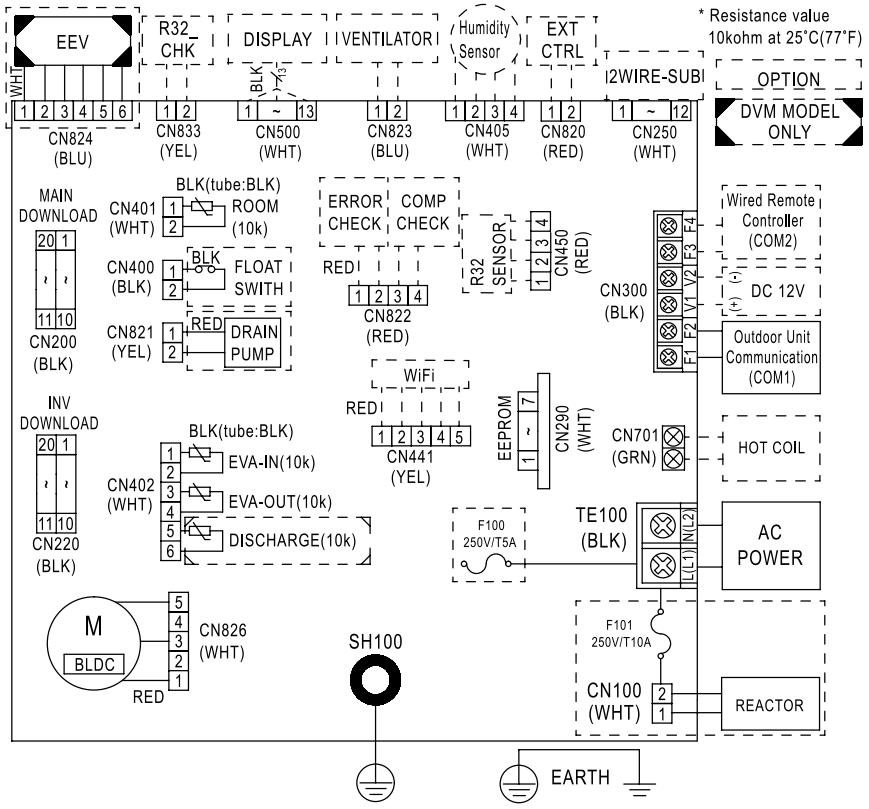
Units : mm [inches]



Model	A	B	C	D	E	F
AM090DNHDKG/EU	700 [27-9/16]	265 [10-7/16]	1200 [47-1/4]	540 [21-17/64]	250 [9-13/16]	125 [4-15/16]
AM112DNHDKG/EU, AM128DNHDKG/EU AM140DNHDKG/EU	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

HSP Duct



USE COPPER SUPPLY WIRES. UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

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

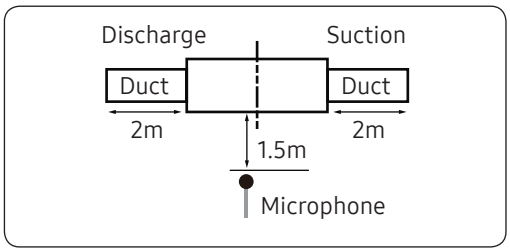
NOTE

- 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

HSP Duct

Sound pressure level

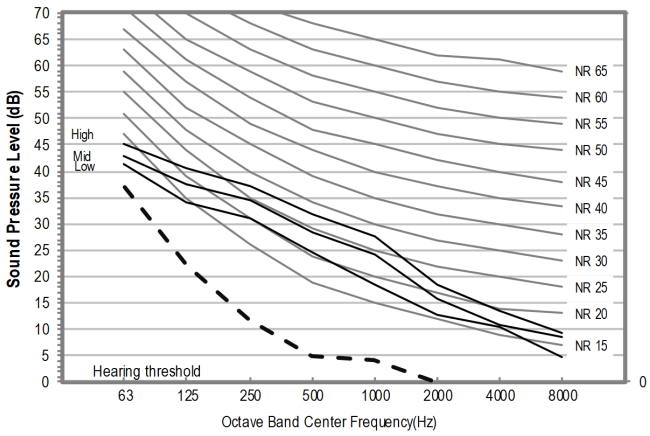


Unit: dB(A)

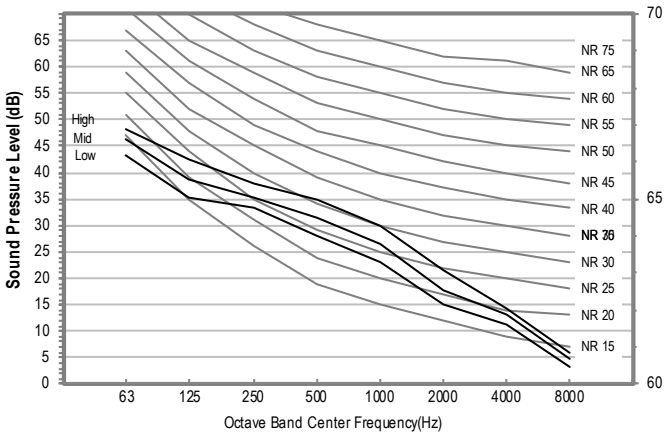
MODEL	High	Mid	Low
AM090DNHDKG/EU	34	31	28
AM112DNHDKG/EU	36	33	30
AM128DNHDKG/EU	39	36	33
AM140DNHDKG/EU	42	38	34

- NR Curve

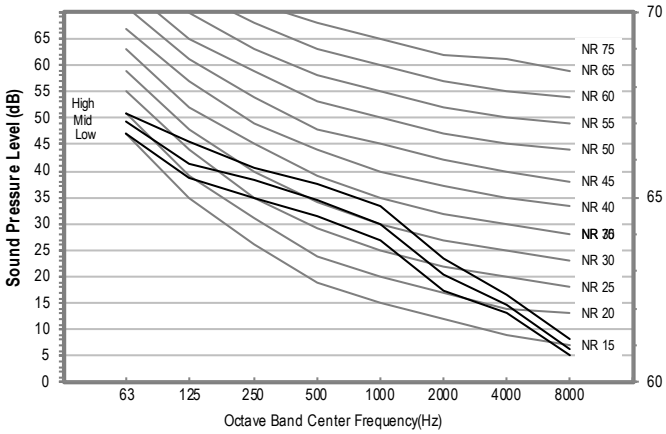
1) AM090DNHDKG/EU



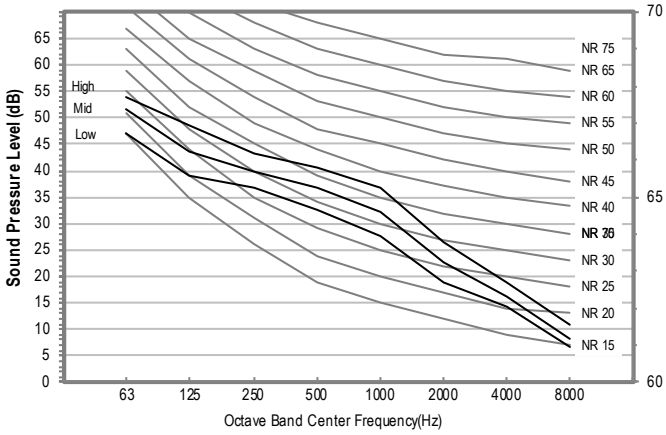
2) AM112DNHDKG/EU



3) AM128DNHDKG/EU



4) AM140DNHDKG/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

HSP Duct

Sound Power level

NOTE

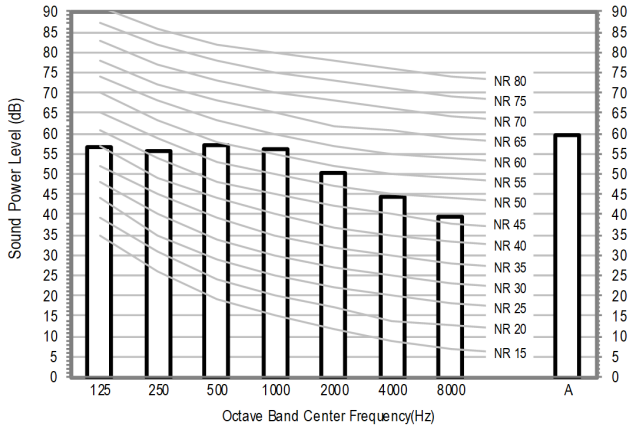
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

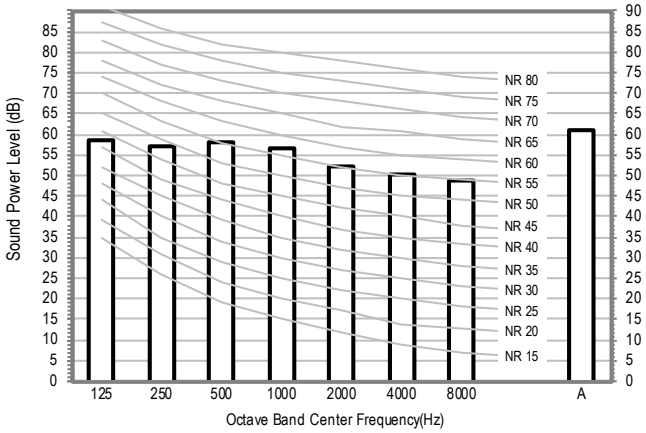
Model	Power
AM090DNHDKG/EU	60
AM112DNHDKG/EU	61
AM128DNHDKG/EU	64
AM140DNHDKG/EU	65

- NR Curve

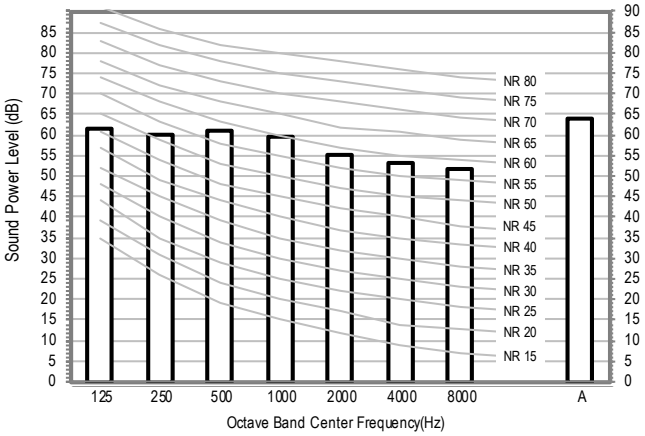
1) AM090DNHDKG/EU



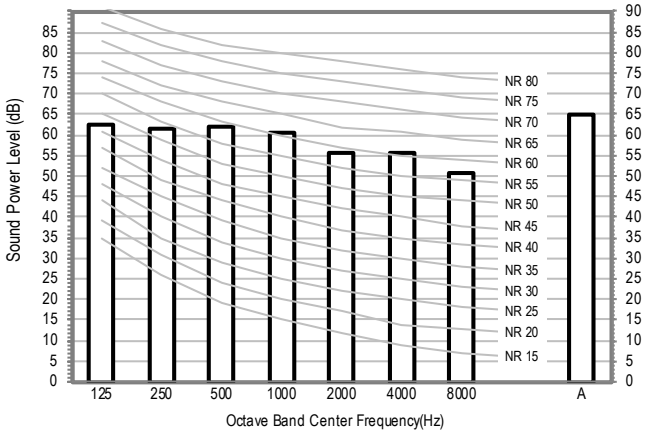
2) AM112DNHDKG/EU



3) AM128DNHDKG/EU



4) AM140DNHDKG/EU

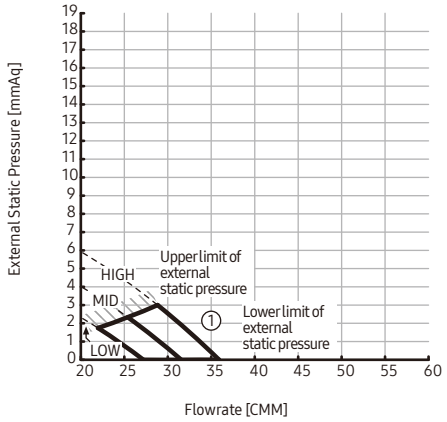


8. Fan Characteristics

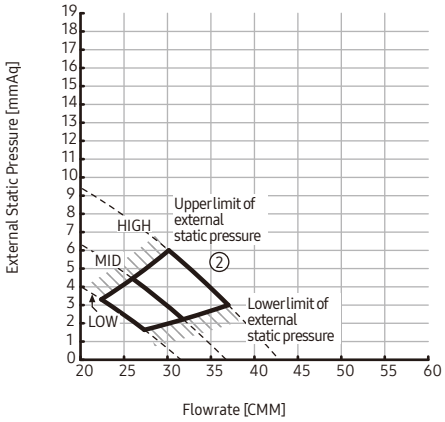
HSP Duct

AM090DNHDKG/EU

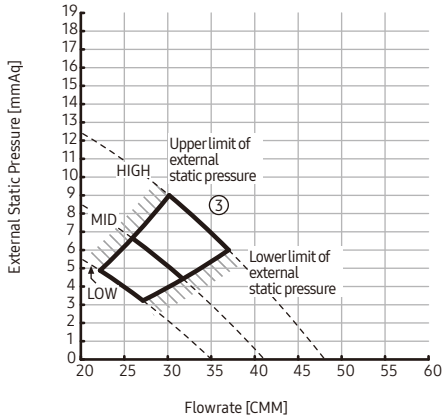
①	External Static Pressure(mmAq)	Option Code
	0≤SP≤3 (Std.)	010054-1E546C-205A5A-331100



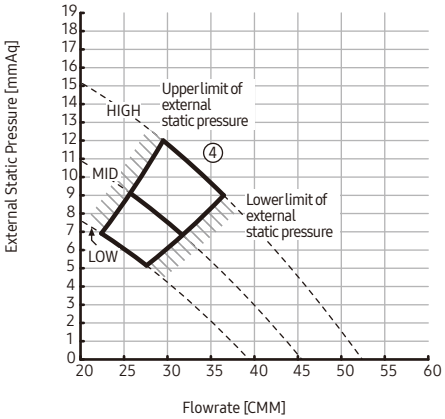
②	External Static Pressure(mmAq)	Option Code
	3<SP≤6	010054-1E55E1-205A5A-331100



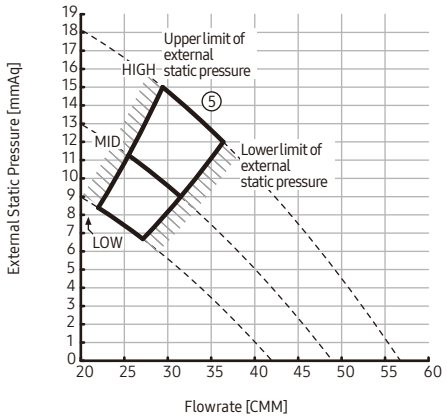
③	External Static Pressure(mmAq)	Option Code
	6<SP≤9	010054-1E5945-205A5A-331100



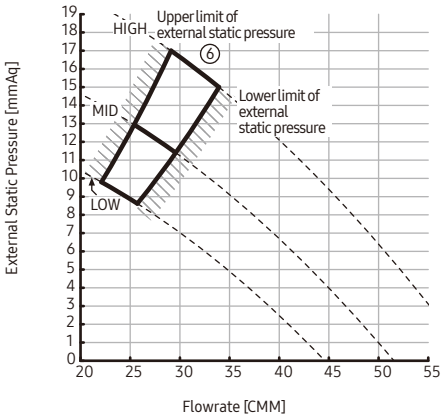
④	External Static Pressure(mmAq)	Option Code
	9<SP≤12	010054-1E599A-205A5A-331100



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

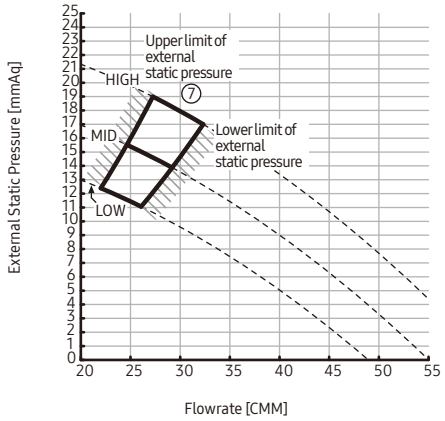


8. Fan Characteristics

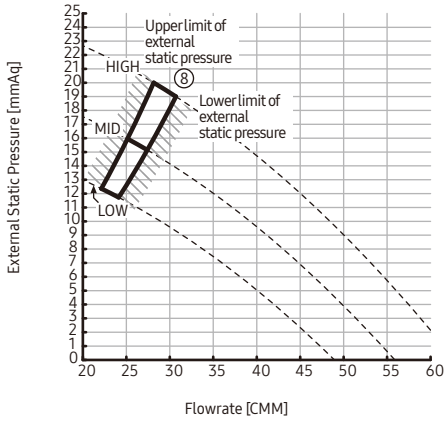
HSP Duct

AM090DNHDKG/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

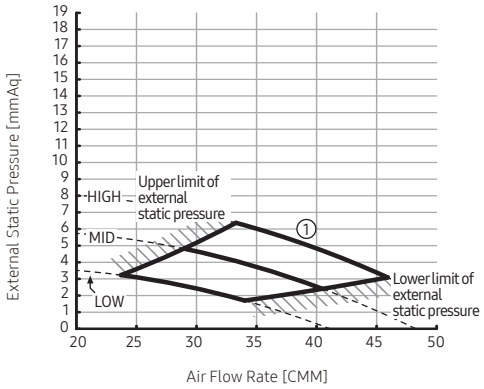


8. Fan Characteristics

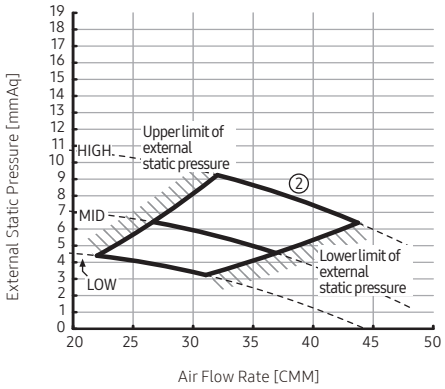
HSP Duct

AM112DNHDKG/EU

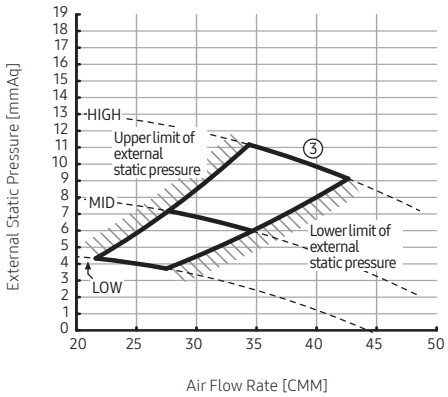
①	External Static Pressure(mmAq)	Option Code
	3≤SP≤6.2	010054-1E5439-207070-331120



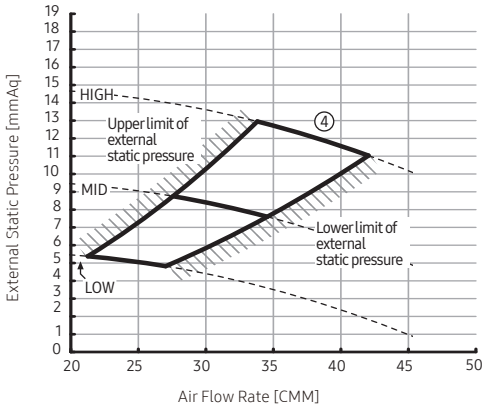
②	External Static Pressure(mmAq)	Option Code
	6.2<SP≤9	010054-1E548B-207070-331120



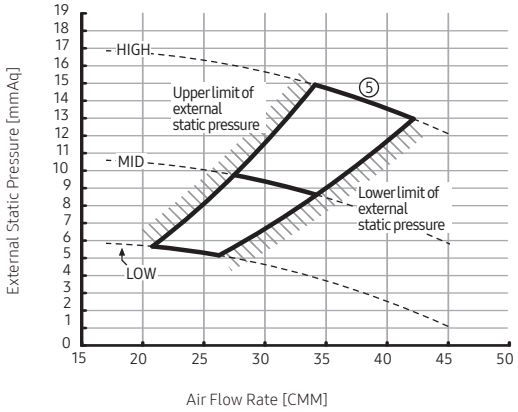
③	External Static Pressure(mmAq)	Option Code
	9<SP≤11	010054-1E54CB-207070-331120



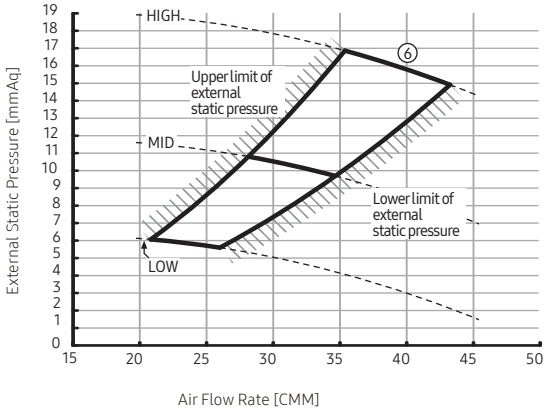
④	External Static Pressure(mmAq)	Option Code
	11<SP≤13	010054-1E54FD-207070-331120



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



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

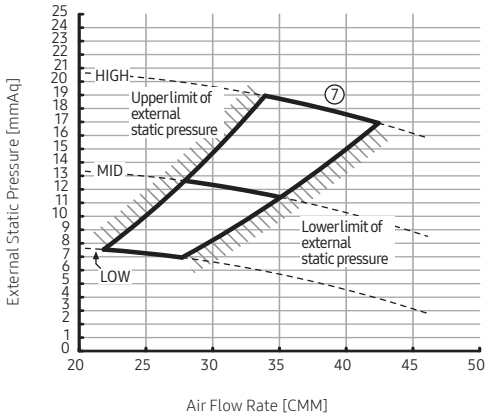


8. Fan Characteristics

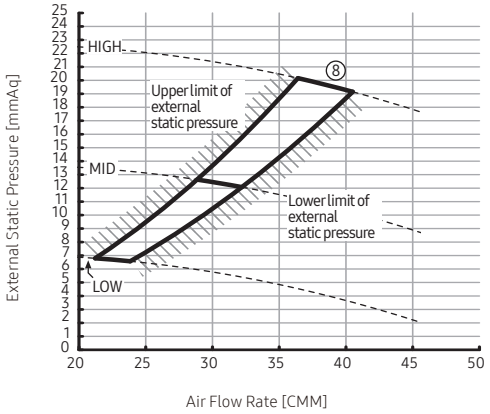
HSP Duct

AM112DNHDKG/EU

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



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

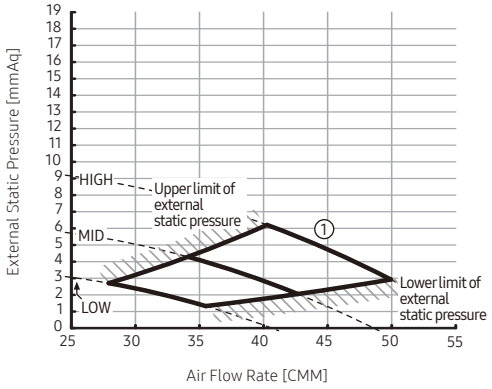


8. Fan Characteristics

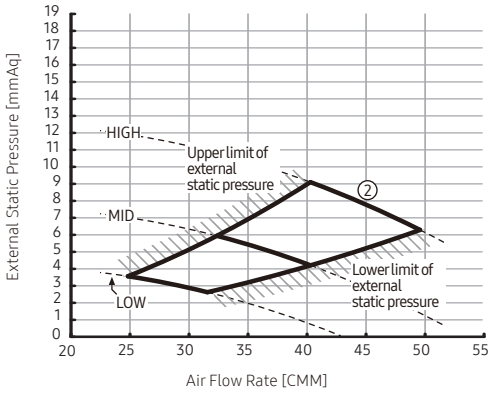
HSP Duct

AM128DNHDKG/EU

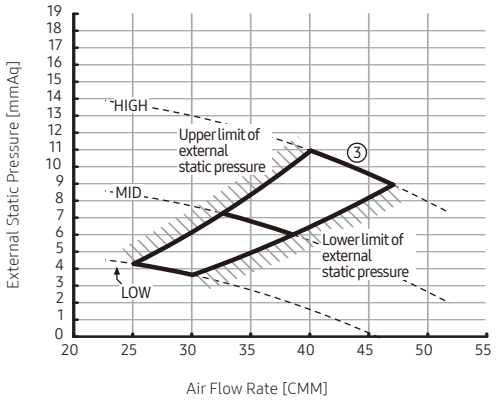
①	External Static Pressure(mmAq)	Option Code
	3≤SP≤6.2	010054-1E5469-208080-331120



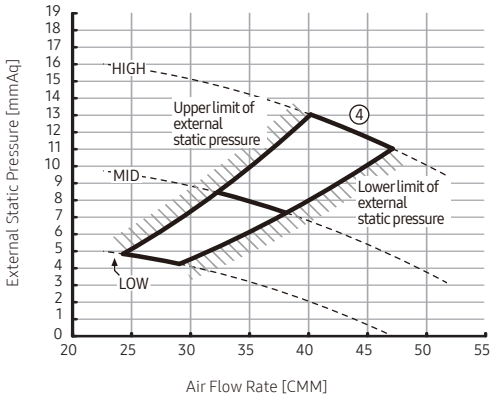
②	External Static Pressure(mmAq)	Option Code
	6.2<SP≤9	010054-1E54BA-208080-331120



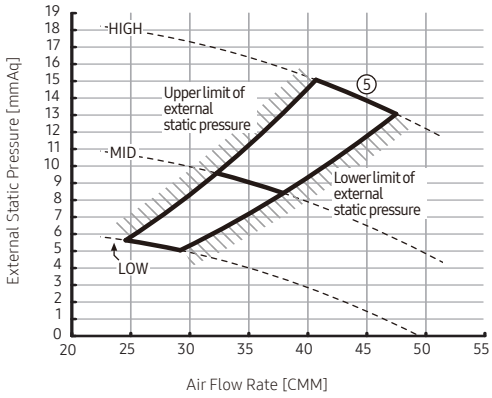
③	External Static Pressure(mmAq)	Option Code
	9<SP≤11	010054-1E54EC-208080-331120



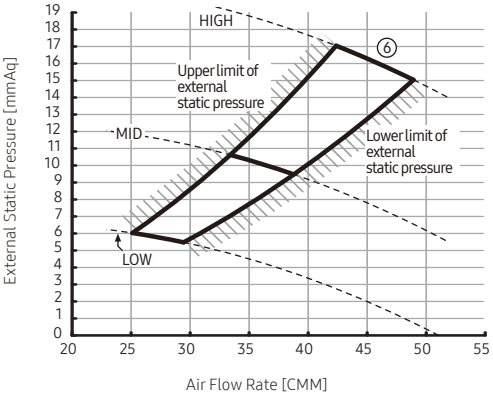
④	External Static Pressure(mmAq)	Option Code
	11<SP≤13	010054-1E581D-208080-331120



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



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



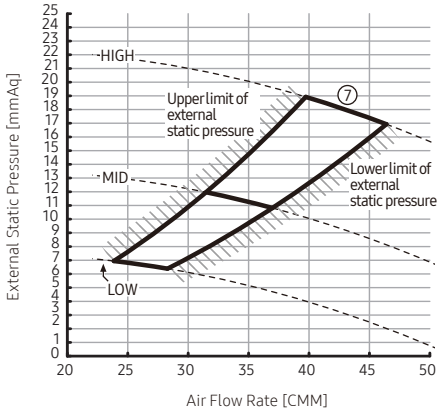
8. Fan Characteristics

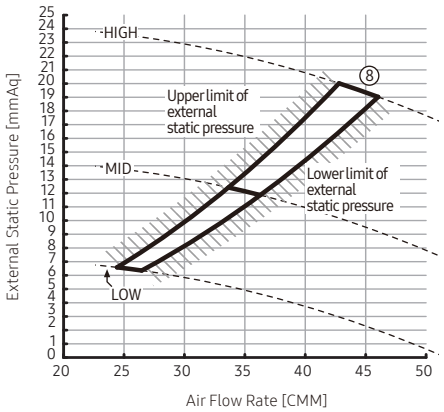
HSP Duct

AM128DNHDKG/EU

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

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



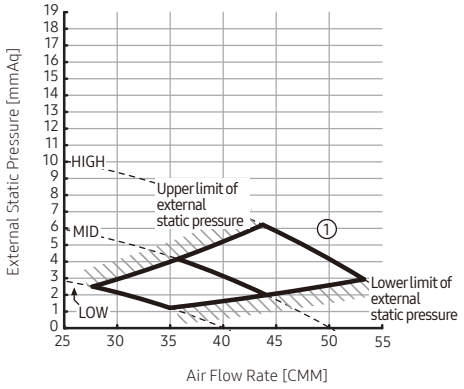


8. Fan Characteristics

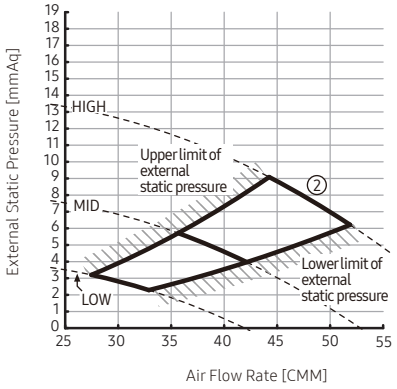
HSP Duct

AM140DNHDKG/EU

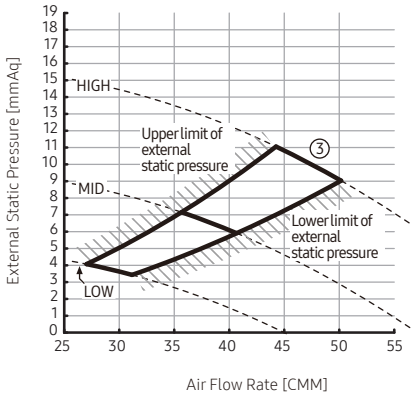
①	External Static Pressure(mmAq)	Option Code
	3≤SP≤6.2	010054-1E5489-208C8C-331120



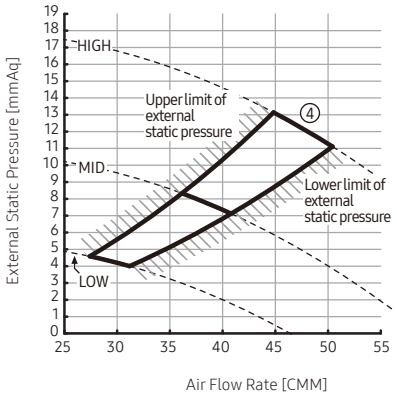
②	External Static Pressure(mmAq)	Option Code
	6.2<SP≤9	010054-1E54DA-208C8C-331120



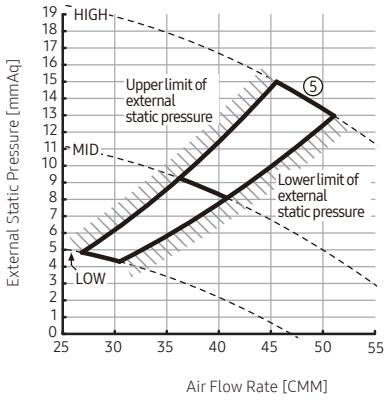
③	External Static Pressure(mmAq)	Option Code
	9<SP≤11	010054-1E580C-208C8C-331120



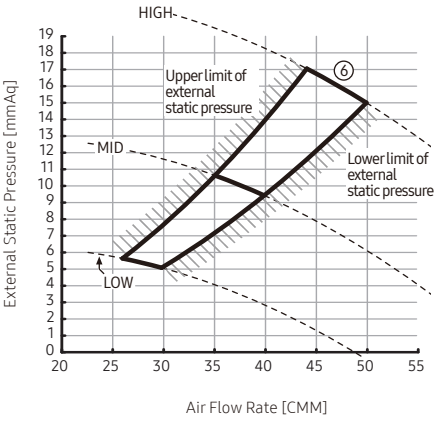
④	External Static Pressure(mmAq)	Option Code
	11<SP≤13	010054-1E583D-208C8C-331120



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



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

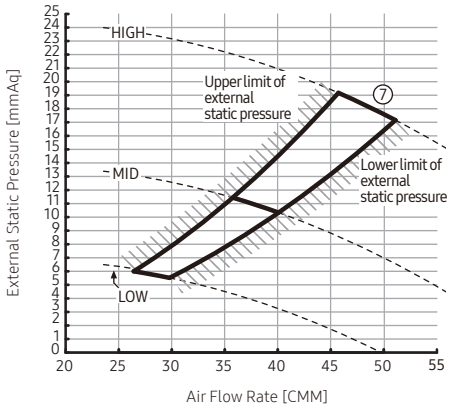


8. Fan Characteristics

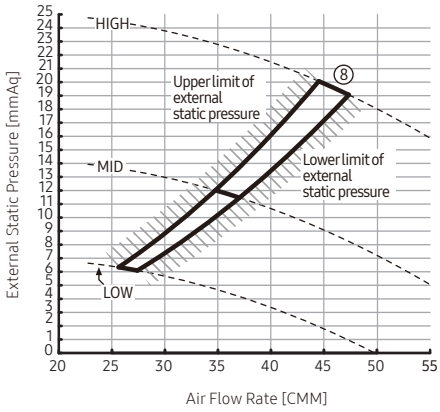
HSP Duct

AM140DNHDKG/EU

⑦	External Static Pressure(mmAq)	Option Code
	17<SP≤19	010054-1E59B0-208C8C-331120

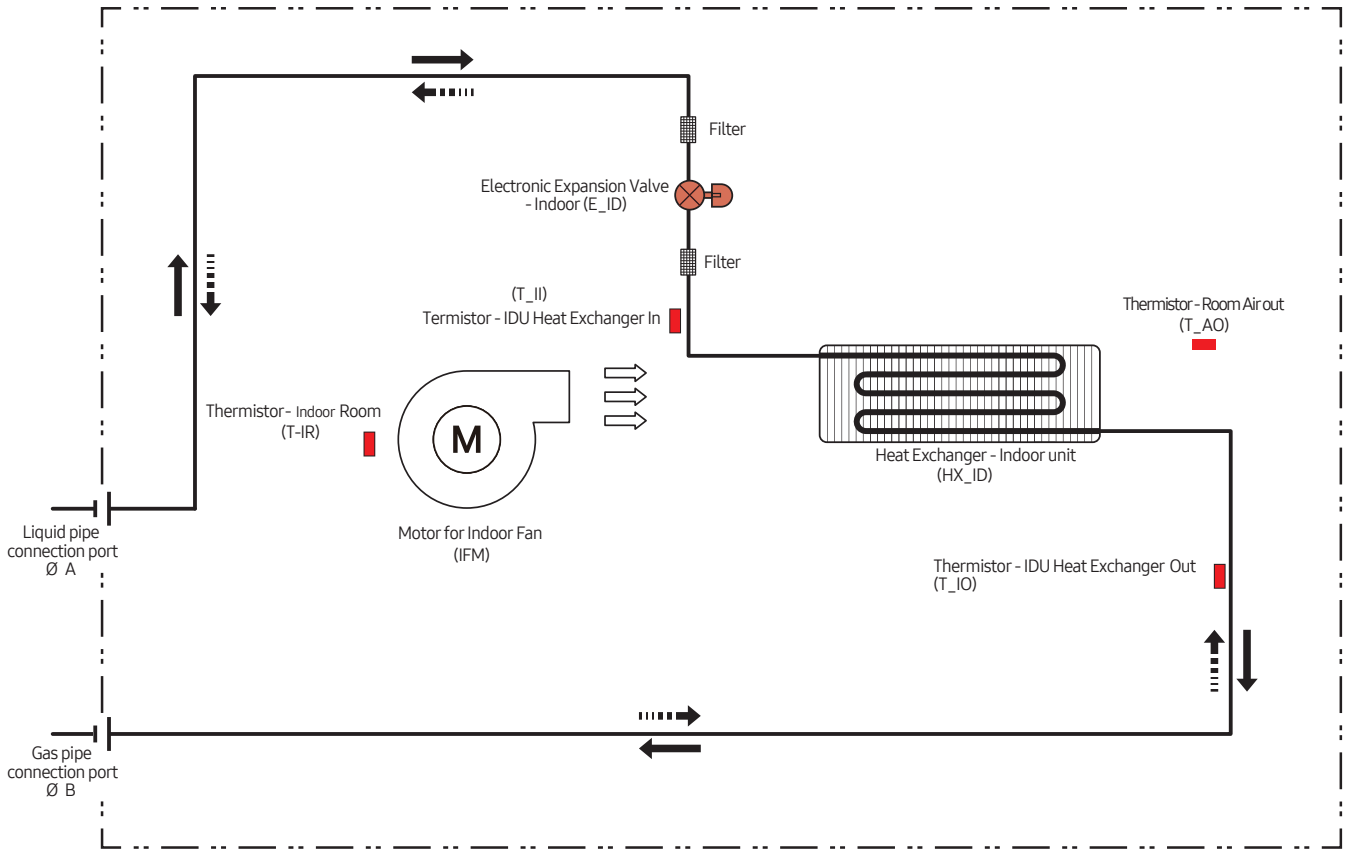


⑧	External Static Pressure(mmAq)	Option Code
	19<SP≤20	010054-1E59C1-208C8C-331120



9. Piping Diagram

HSP Duct



Refrigerant flow	
Cooling	Heating
→	⇢

Wall mounted

Line-up

Wall mounted

Capacity (kW)								
1.5	2.2	2.8	3.6	4.5	5.6	7.1	8.2	9.3
								

1. Specification

Wall mounted

Model Name				AM015DNVDKG/EU	AM022DNVDKG/EU	AM028DNVDKG/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	1.5	2.2	2.8
			Btu/h	5,100	7,500	9,600
		Heating	kW	1.7	2.5	3.2
			Btu/h	5,800	8,500	10,900
Power	Power Input	Cooling	W	20.0	24.0	30.0
		Heating		20.0	24.0	30.0
	Current Input	Cooling	A	0.13	0.16	0.2
		Heating		0.13	0.16	0.2
	Current	MCA	A	0.16	0.20	0.25
		MFA		15.0	15.0	15.0
Heat exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	4.9/4.5/4.1	5.7/5.0/4.5	8.5/7.7/6.9
			l/s	81.7/75.0/68.3	95.0/83.3/75.0	141.7/128.3/115.0
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	27	27	27
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, ㎜ (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, ㎜ (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe		Φ,mm	ID 18mm Hose	ID 18mm Hose	ID 18mm Hose
Wiring connections	Communication	Minimum	㎟	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High/Mid/Low/Windfree	dB(A)	31/30/27/26	34/32/30/27	34/33/32/26
	Sound Power	Cooling		50	51	52
Dimensions	Net Weight		kg	9.0	8.7	9.5
	Shipping Weight		kg	10.5	10.5	11.0
	Net Dimensions (W×H×D)		mm	820 x 299 x 215	820 x 299 x 215	820 x 299 x 215
	Shipping Dimensions (W×H×D)		mm	880 x 290 x 375	880 x 290 x 375	880 x 290 x 375
Additional Accessories	Drain pump		-	-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-	-
	EASY FILTER PLUS		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

Wall mounted

Model Name				AM036DNVDKG/EU	AM045DNVDKG/EU	AM056DNVDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Performance	Capacity	Cooling	kW	3.6	4.5	5.6
			Btu/h	12,300	15,400	19,100
		Heating	kW	4.0	5.0	6.3
			Btu/h	13,600	17,100	21,500
Power	Power Input	Cooling	W	37.0	40.0	52.0
		Heating		37.0	40.0	52.0
	Current Input	Cooling	A	0.25	0.27	0.35
		Heating		0.25	0.27	0.35
	Current	MCA	A	0.31	0.34	0.44
		MFA		15.0	15.0	15.0
Heat exchanger	Type		-	F&T	F&T	F&T
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1	1
	Air Flow Rate	H/M/L	CMM	10.3/9.1/8.3	12.5/11.4/10.5	15.7/13.8/12.0
			l/s	171.7/151.7/138.3	208.3/190.0/175.0	261.7/230.0/200.0
Fan Motor	Type		-	BLDC	BLDC	BLDC
	Output x n		W	27	27	27
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, ㎜ (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection
			Φ, ㎜ (inch)	12.7 (1/2)	12.7 (1/2)	12.7 (1/2)
	Drain Pipe		Φ,mm	ID 18mm Hose	ID 18mm Hose	ID 18mm Hose
Wiring connections	Communication	Minimum	㎟	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High/Mid/Low/Windfree	dB(A)	40/36/34/26	37/34/33/29	40/37/34/29
	Sound Power	Cooling		56	55	58
Dimensions	Net Weight		kg	9.5	12.0	12.0
	Shipping Weight		kg	11.0	14.0	14.0
	Net Dimensions (W×H×D)		mm	820 x 299 x 215	1,055 x 299 x 215	1,055 x 299 x 215
	Shipping Dimensions (W×H×D)		mm	880 x 290 x 375	1,115 x 290 x 375	1,115 x 290 x 375
Additional Accessories	Drain pump		-	-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-	-
	EASY FILTER PLUS		-	-	-	-

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

Wall mounted

Model Name				AM071DNVDKG/EU	AM082DNVDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60
Performance	Capacity	Cooling	kW	6.8	8.2
			Btu/h	23,200	28,000
		Heating	kW	7.0	8.5
			Btu/h	23,900	29,000
Power	Power Input	Cooling	W	60.0	65.0
		Heating		60.0	65.0
	Current Input	Cooling	A	0.4	0.43
		Heating		0.4	0.43
	Current	MCA	A	0.50	0.54
		MFA		15.0	15.0
Heat exchanger	Type		-	F&T	F&T
	Material	Fin	-	Al	Al
		Tube	-	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile
Fan	Type		-	Crossflow Fan	Crossflow Fan
	Quantity		ea	1	1
	Air Flow Rate	H/M/L	CMM	16.8/15.0/13.2	17.5/15.6/13.8
			l/s	280.0/250.0/220.0	291.7/260.0/230.0
Fan Motor	Type		-	BLDC	BLDC
	Output x n		W	27	27
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
			Φ, ㎜ (inch)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Type	Flare connection	Flare connection
			Φ, ㎜ (inch)	15.88 (5/8)	15.88 (5/8)
	Drain Pipe		Φ,mm	ID 18mm Hose	ID 18mm Hose
Wiring connections	Communication	Minimum	㎟	0.75	0.75
		Remark	-	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure	High/Mid/Low/Windfree	dB(A)	43/40/37/29	46/45/43/30
	Sound Power	Cooling		62	64
Dimensions	Net Weight		kg	12.0	13.0
	Shipping Weight		kg	14.0	15.0
	Net Dimensions (W×H×D)		mm	1,055 x 299 x 215	1,055 x 299 x 215
	Shipping Dimensions (W×H×D)		mm	1,115 x 290 x 375	1,115 x 290 x 375
Additional Accessories	Drain pump		-	-	-
		Max. lifting Height / Displacement	mm / Liter/h	-	-
	EASY FILTER PLUS		-	-	-

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

1. Specification

Wall mounted

Model Name				AM093DNQDKG/EU
Power Supply			Φ, #, V, Hz	1, 2, 220-240, 50/60
Performance	Capacity	Cooling	kW	9.3
			Btu/h	31,700
		Heating	kW	9.8
			Btu/h	33,400
Power	Power Input	Cooling	W	66
		Heating		76
	Current Input	Cooling	A	0.47
		Heating		0.54
	Current	MCA	A	0.68
		MFA		15
Heat exchanger	Type		-	Fin & Tube
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	Green Hydrophile
Fan	Type		-	Crossflow Fan
	Quantity		EA	1
	Air Flow Rate	H/M/L	m^3/min	23 / 20 / 17
			l/s	383 / 333 / 283
Fan Motor	Type		-	BLDC Motor
	Output x n		W	58
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)
	Heat insulation		-	Both liquid and gas pipes
	Drain Pipe		Φ,mm	ID 18mm Hose
Wiring connections	Communication	Min.	㎟	0.75
		Remark	-	F1, F2
Refrigerant	Type		-	R32
	Electronic Expansion Valve		-	EEV INCLUDED
Sound	Sound Pressure Level	H/M/L	dB(A)	49/46/42
	Sound Power	Cooling		66
Dimensions	Net Weight		kg	19.0
	Shipping Weight		kg	22.0
	Net Dimensions (W×H×D)		mm	1,280 x 345 x 253
	Shipping Dimensions (W×H×D)		mm	1,352 x 326 x 420
Casing	Material		-	HIPS

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

2. Summary Table

Wall mounted

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity			Airflow (CMM)	Sound Pressure	Sound Power
			Cooling (kW)	Sensible	Heating			
AM015DNVDKG/EU	9.0	High	1.5	1.0	1.7	4.9	31	50
		Mid	1.2	0.9	1.6	4.5	30	-
		Low	1.0	0.8	1.5	4.1	27	-
AM022DNVDKG/EU	8.7	High	2.2	1.5	2.5	5.7	34	51
		Mid	1.6	1.4	2.3	5.0	32	-
		Low	1.3	1.2	2.2	4.5	30	-
AM028DNVDKG/EU	9.5	High	2.8	1.9	3.2	8.5	34	52
		Mid	2.1	1.7	3.0	7.7	33	-
		Low	1.7	1.5	2.8	6.9	32	-
AM036DNVDKG/EU	9.5	High	3.6	2.4	4.0	10.3	40	56
		Mid	2.6	2.2	3.8	9.1	36	-
		Low	2.1	1.8	3.5	8.3	34	-
AM045DNVDKG/EU	12.0	High	4.5	3.1	5.0	12.5	37	55
		Mid	3.2	2.7	4.7	11.4	34	-
		Low	2.6	2.1	4.5	10.5	33	-
AM056DNVDKG/EU	12.0	High	5.6	3.8	6.3	15.7	40	58
		Mid	4.0	3.3	6.0	13.8	37	-
		Low	3.1	2.7	5.6	12.0	34	-
AM071DNVDKG/EU	12.0	High	6.8	4.6	7.0	16.8	43	62
		Mid	4.7	4.0	6.6	15.0	40	-
		Low	3.7	2.9	6.3	13.2	37	-
AM082DNVDKG/EU	13.0	High	8.2	5.6	8.5	17.5	46	64
		Mid	6.4	5.2	7.9	15.6	45	-
		Low	5.3	4.4	7.5	13.8	43	-
AM093DNQDKG/EU	19.0	High	9.3	6.3	9.8	23.0	49	66
		Mid	7.2	5.2	9.1	20.0	46	-
		Low	6.0	4.6	8.4	17.0	42	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model Code	Power Supply (Ø, #, V, Hz)	Power Input (W) (C / H)	Current Input (A) (C / H)	MCA (A)	MFA (A)	FLA (A)
AM015DNVDKG/EU	1,2,220-240,50/60	20 / 20	0.13 / 0.13	0.16	15	0.13
AM022DNVDKG/EU	1,2,220-240,50/60	24 / 24	0.16 / 0.16	0.20	15	0.16
AM028DNVDKG/EU	1,2,220-240,50/60	30 / 30	0.20 / 0.20	0.25	15	0.20
AM036DNVDKG/EU	1,2,220-240,50/60	37 / 37	0.25 / 0.25	0.31	15	0.25
AM045DNVDKG/EU	1,2,220-240,50/60	40 / 40	0.27 / 0.27	0.34	15	0.27
AM056DNVDKG/EU	1,2,220-240,50/60	52 / 52	0.35 / 0.35	0.44	15	0.35
AM071DNVDKG/EU	1,2,220-240,50/60	60 / 60	0.40 / 0.40	0.50	15	0.40
AM082DNVDKG/EU	1,2,220-240,50/60	65 / 65	0.43 / 0.43	0.54	15	0.43
AM093DNQDKG/EU	1,2,220-240,50/60	66 / 76	0.47 / 0.54	0.68	15	0.54

NOTE

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

3. Capacity Table

Wall mounted

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Capacity Index	Outdoor Air Temp. (°C,DB)	Indoor temperature													
		20(°C,DB)		23(°C,DB)		26(°C,DB)		27(°C,DB)		28(°C,DB)		30(°C,DB)		32(°C,DB)	
		14(°C,WB)		16(°C,WB)		18(°C,WB)		19(°C,WB)		20(°C,WB)		22(°C,WB)		24(°C,WB)	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	35	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.6	1.0	1.6	1.1	1.8	1.0
022	35	1.5	1.3	1.8	1.5	2.1	1.5	2.2	1.5	2.3	1.5	2.4	1.5	2.6	1.4
028	35	1.9	1.6	2.3	1.8	2.6	2.0	2.8	1.9	2.9	1.9	3.1	1.9	3.3	1.8
036	35	2.5	2.1	2.9	2.2	3.4	2.3	3.6	2.4	3.7	2.4	4.0	2.4	4.2	2.3
045	35	3.1	2.4	3.7	2.8	4.3	3.0	4.5	3.1	4.7	3.1	5.0	3.1	5.3	2.9
056	35	3.9	3.0	4.6	3.4	5.3	3.7	5.6	3.8	5.8	3.8	6.2	3.8	6.6	3.5
071	35	4.5	4.1	5.4	4.6	6.3	4.6	6.8	4.6	7.3	4.6	7.3	5.1	8.2	4.6
082	35	5.7	4.4	6.7	5.0	7.8	5.4	8.2	5.6	8.5	5.6	9.1	5.6	9.7	5.1
093	35	6.4	5.1	7.5	5.6	8.8	6.2	9.3	6.3	9.6	6.3	10.3	6.2	10.9	5.8

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (°C)		Indoor temperature (°C,DB)				
			16(°C,DB)	18(°C,DB)	20(°C,DB)	22(°C,DB)	24(°C,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
015	7.0	6.0	1.9	1.8	1.7	1.6	1.5
022	7.0	6.0	2.8	2.7	2.5	2.3	2.2
028	7.0	6.0	3.3	3.2	3.2	3.0	2.7
036	7.0	6.0	4.1	4.1	4.0	3.7	3.4
045	7.0	6.0	5.2	5.1	5.0	4.6	4.2
056	7.0	6.0	6.5	6.4	6.3	5.8	5.3
071	7.0	6.0	7.8	7.4	7.0	6.6	6.2
082	7.0	6.0	8.8	8.6	8.5	7.8	7.2
093	7.0	6.0	10.1	9.9	9.8	9.1	8.3

NOTE

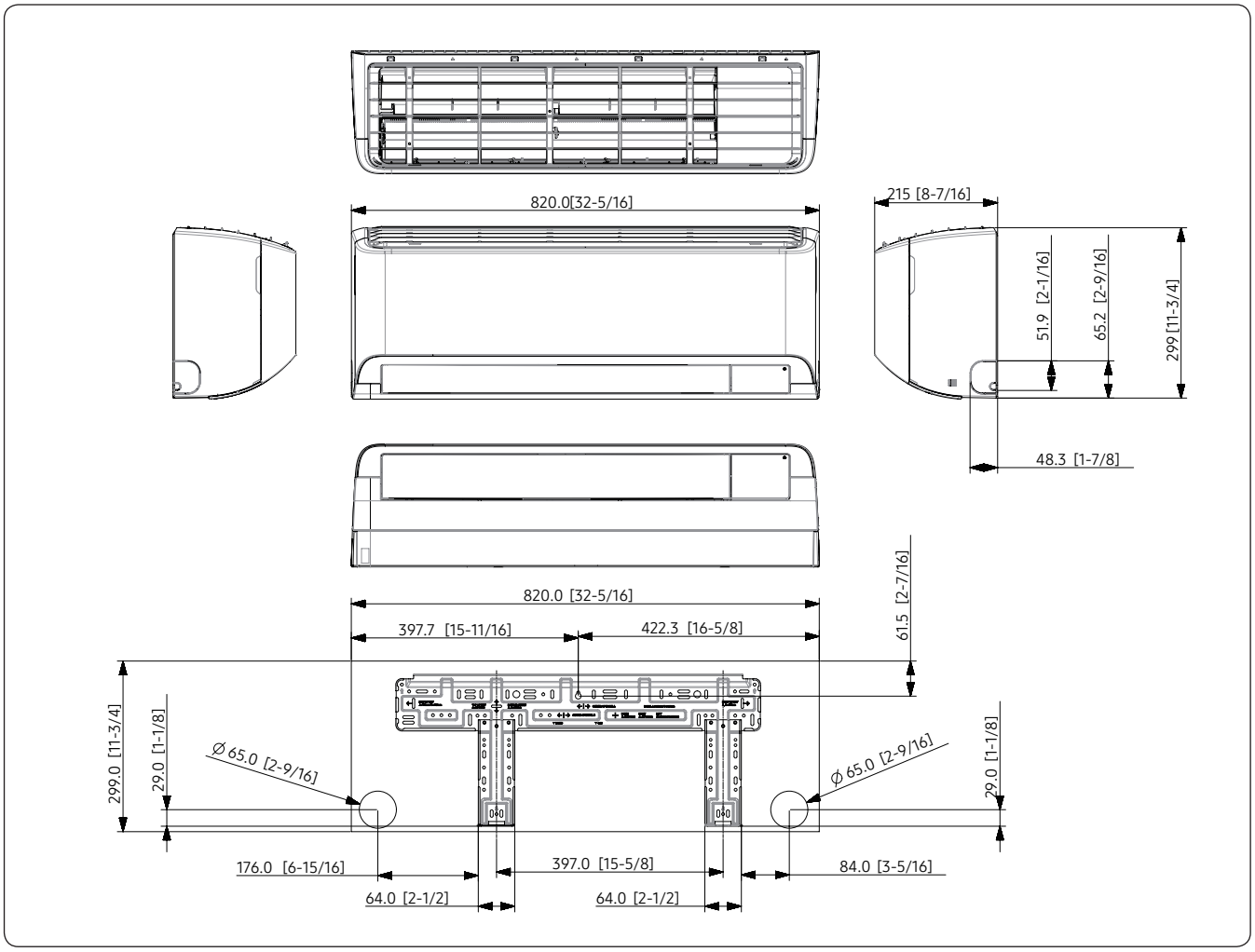
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Wall mounted

AM015DNVDKG/EU, AM022DNVDKG/EU, AM028DNVDKG/EU, AM036DNVDKG/EU

Units : mm [inches]

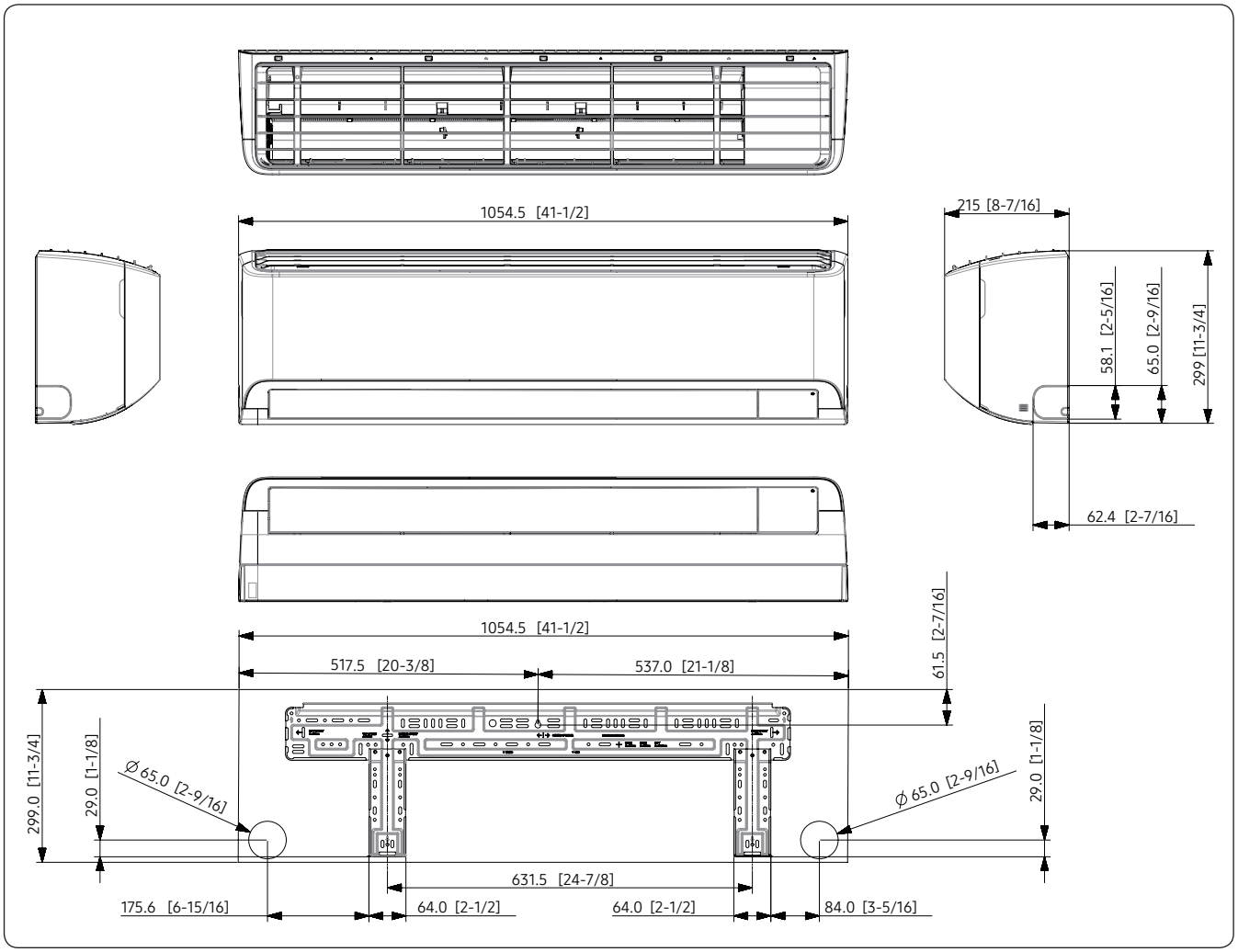


4. Dimensional Drawing

Wall mounted

AM045DNVDKG/EU, AM056DNVDKG/EU, AM071DNVDKG/EU, AM082DNVDKG/EU

Units : mm [inches]

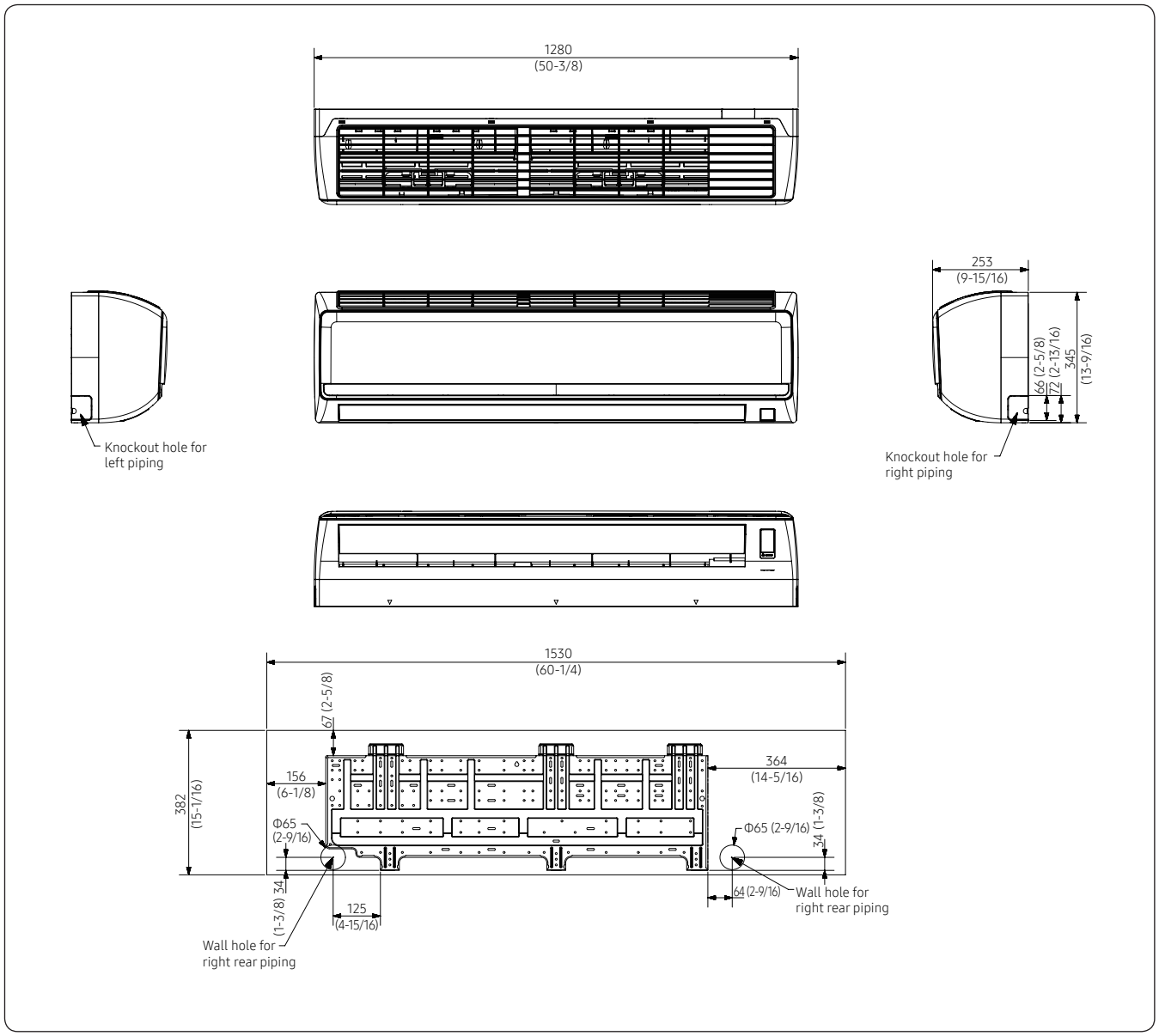


4. Dimensional Drawing

Wall mounted

AM093DNQDKG/EU

Units : mm [inches]

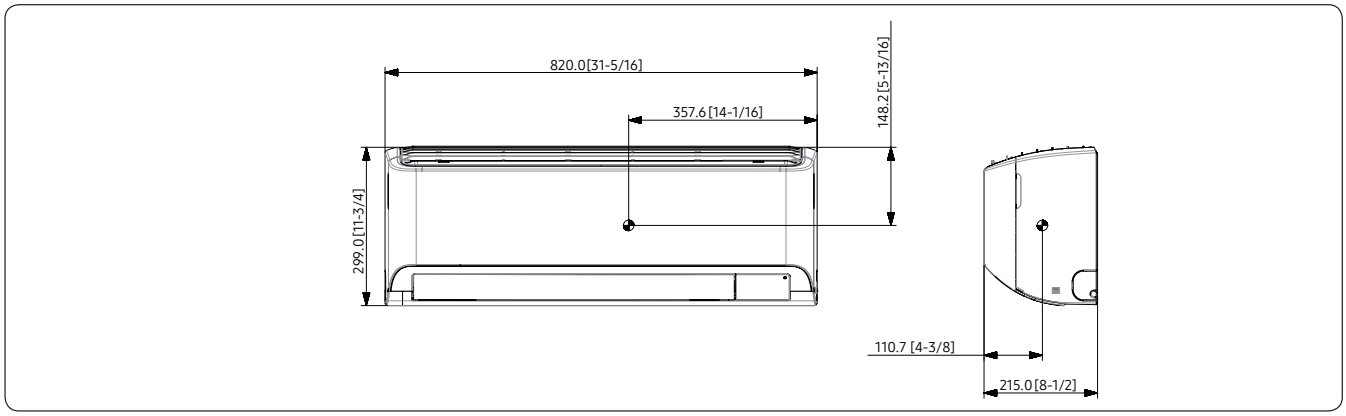


5. Center of Gravity

Wall mounted

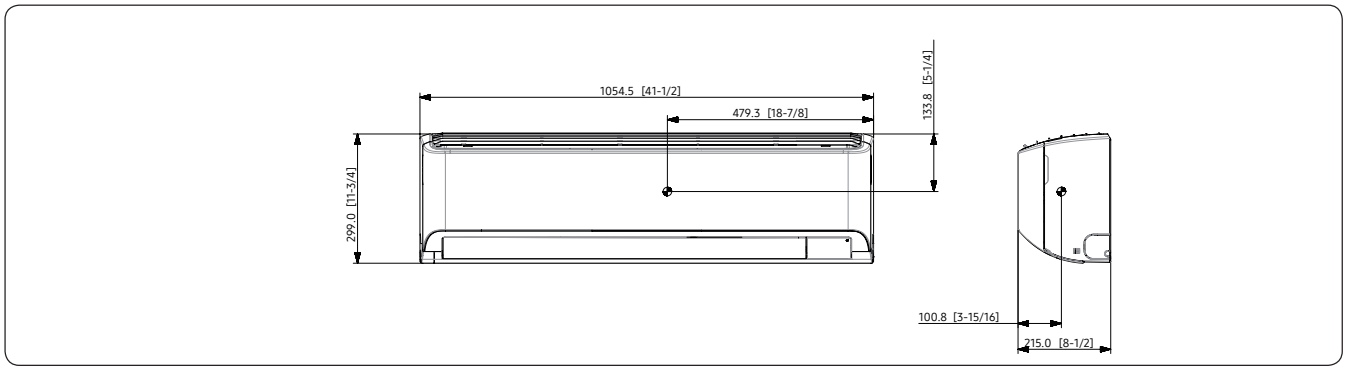
AM015DNVDKG/EU, AM022DNVDKG/EU, AM028DNVDKG/EU, AM036DNVDKG/EU

Unit: mm (inches)



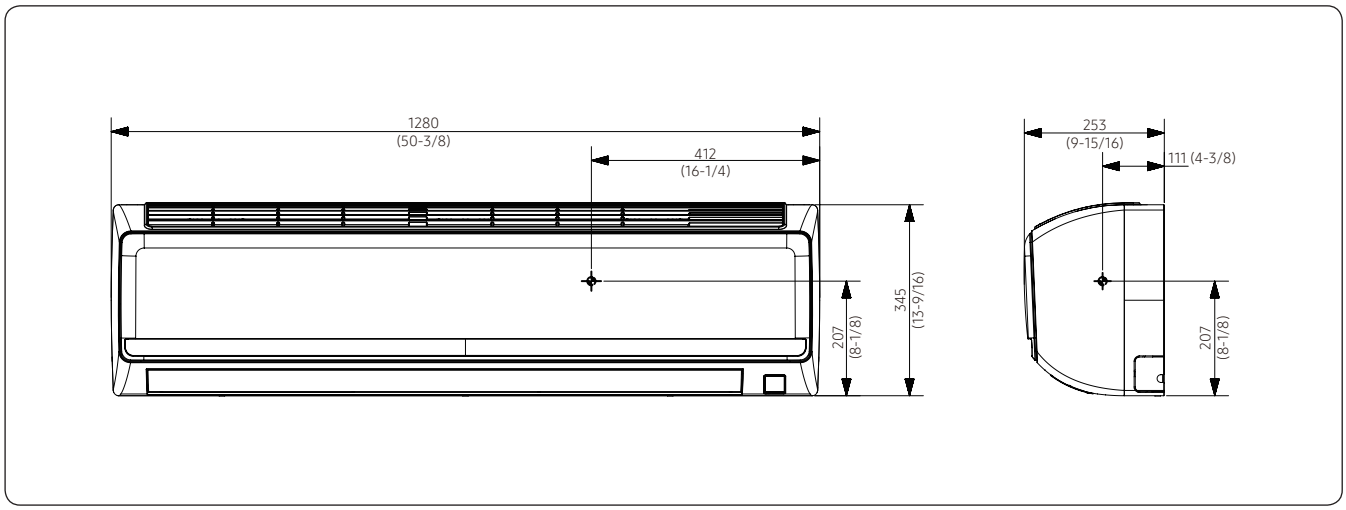
AM045DNVDKG/EU, AM056DNVDKG/EU, AM071DNVDKG/EU, AM082DNVDKG/EU

Unit: mm (inches)



AM093DNQDKG/EU

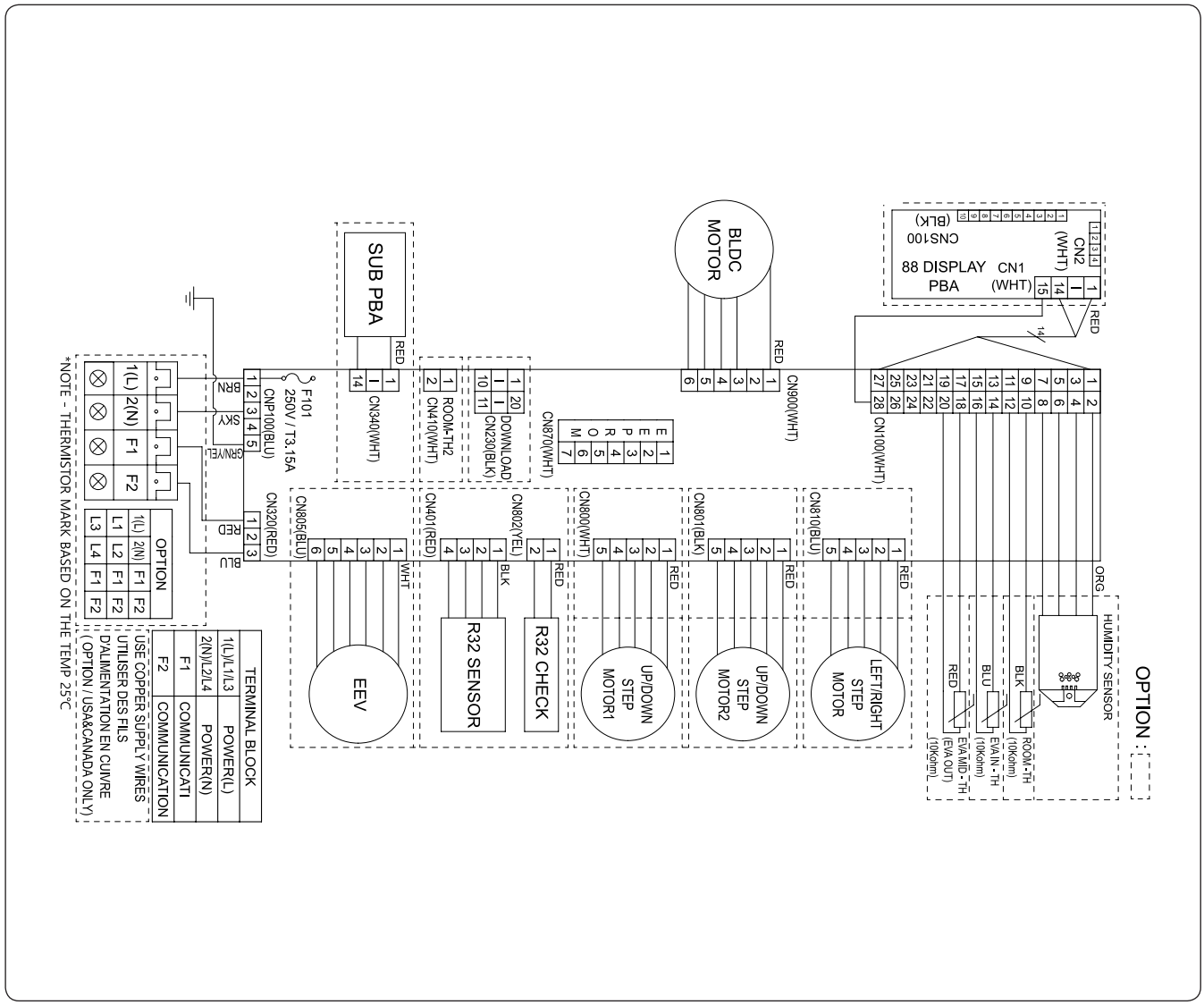
Unit: mm (inch)



6. Electrical Wiring Diagram

Wall mounted

AM015DNVDKG/EU, AM022DNVDKG/EU, AM028DNVDKG/EU, AM036DNVDKG/EU, AM045DNVDKG/EU AM056DNVDKG/EU, AM071DNVDKG/EU, AM082DNVDKG/EU



SUB PBA	Printed Circuit Board(SUB)	EEV	Electronic expansion valve	EVA-OUT(10K)	Thermistor EVA OUT(10K)
MOTOR	BLDC	ROOM(10K)	Thermistor ROOM In(10K)	EVA-IN(10K)	Thermistor EVA IN(10K)

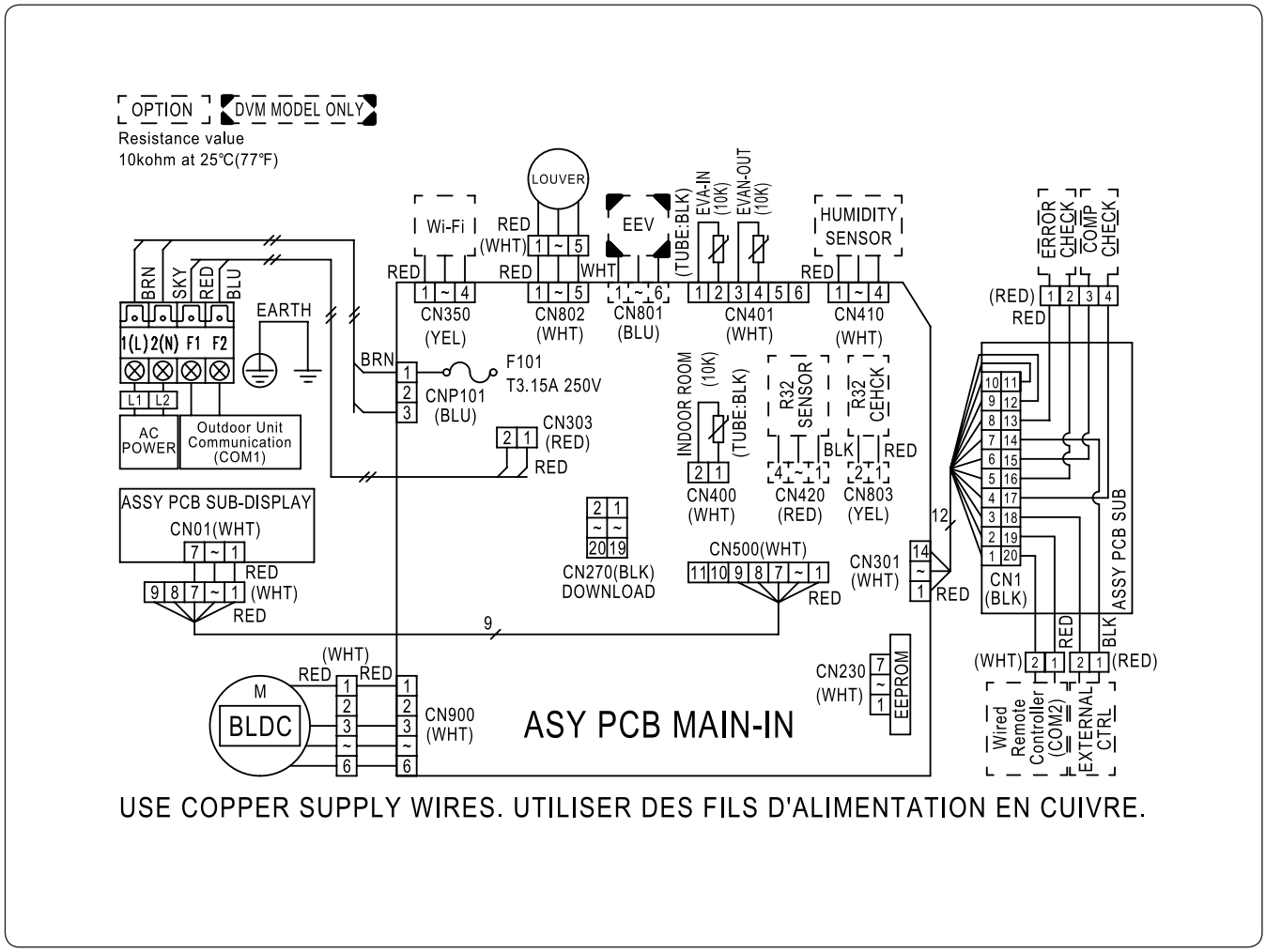
NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
  BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, sky: sky blue, GRN: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- EARTH EARTH Protective earth(SCREW)

6. Electrical Wiring Diagram

Wall mounted

AM093DNQDKG/EU



USE COPPER SUPPLY WIRES. UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

MAIN PCB	Print circuit board(MAIN)	EEV	Electronics expansion valve	EVA-IN TEMP	Thermistor EVAPORATE
DISPLAY	Print circuit board(DISPLAY)	M-BLDC	BLDC Motor	EVA-OUT TEMP	Thermistor EVAPORATE
ASSY PCB SUB	Print circuit board(SUB COMM)	ROOM-TEMP	Thermistor AMBIENT		

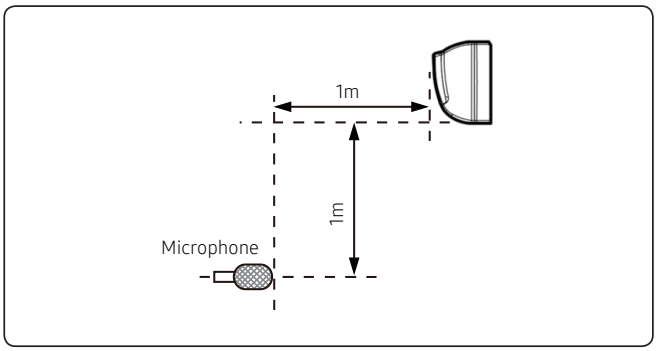
NOTE

- This wiring diagram applies only to the Indoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortciruit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.
- ⏚ : Protective earth(screw), ▭ : connector, N : The wire quantity

7. Sound Data

Wall mounted

Sound Pressure level

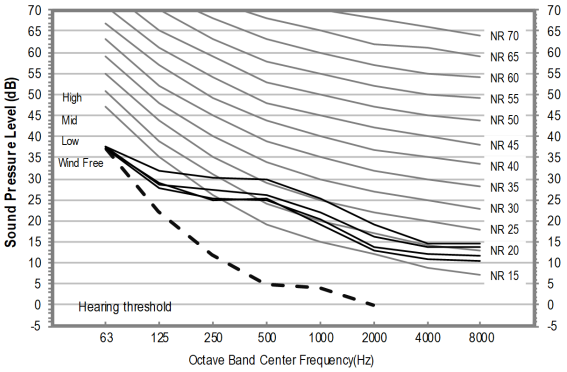


Unit: dB(A)

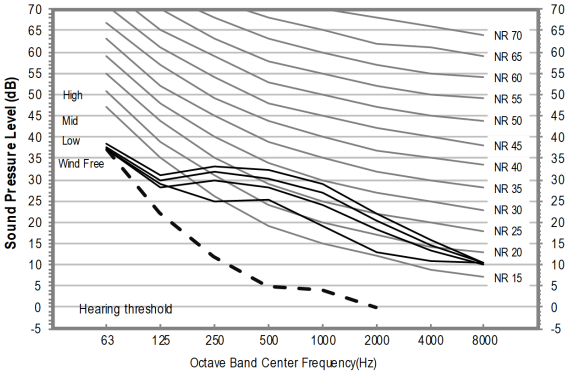
Model	High	Mid	Low	Wind-Free
AM015DNVDKG/EU	31	30	27	26
AM022DNVDKG/EU	34	32	30	27
AM028DNVDKG/EU	34	33	32	26
AM036DNVDKG/EU	40	36	34	26

- NR Curve

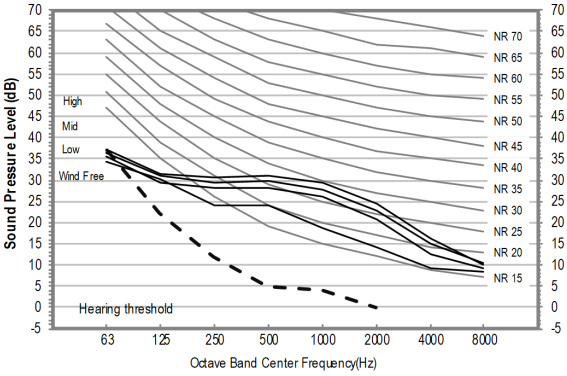
1) AM015DNVDKG/EU



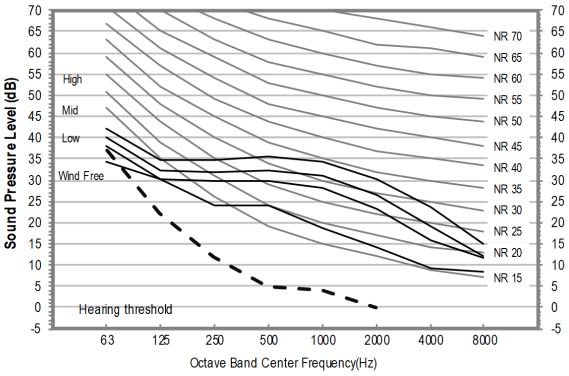
2) AM022DNVDKG/EU



3) AM028DNVDKG/EU



4) AM036DNVDKG/EU



NOTE

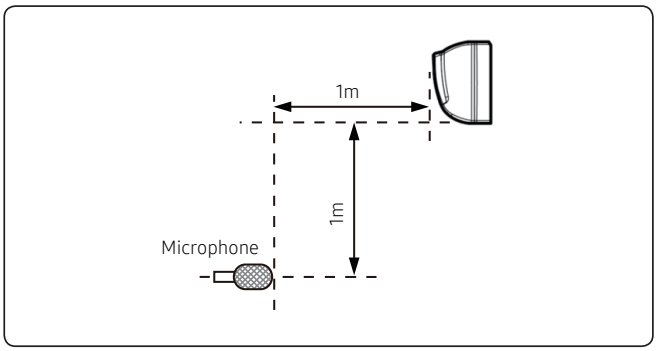
- Specifications may be subject to change without prior notice.
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A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

※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

7. Sound Data

Wall mounted

Sound Pressure level

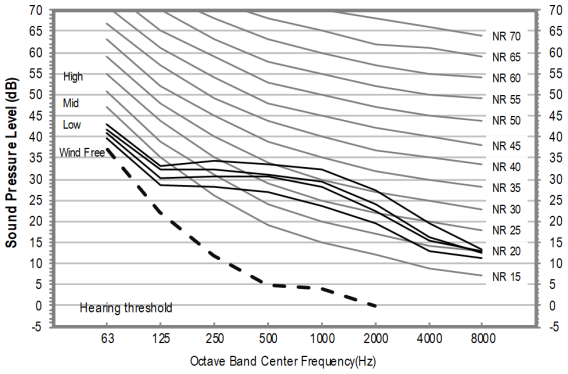


Unit: dB(A)

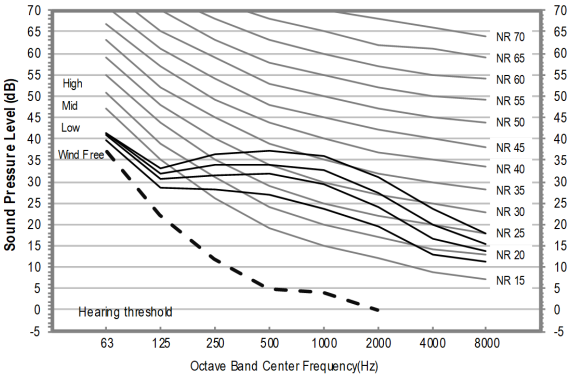
Model	High	Mid	Low	Wind-Free
AM045DNVDKG/EU	37	34	33	29
AM056DNVDKG/EU	40	37	34	29
AM071DNVDKG/EU	43	40	37	29
AM082DNVDKG/EU	46	45	43	30

- NR Curve

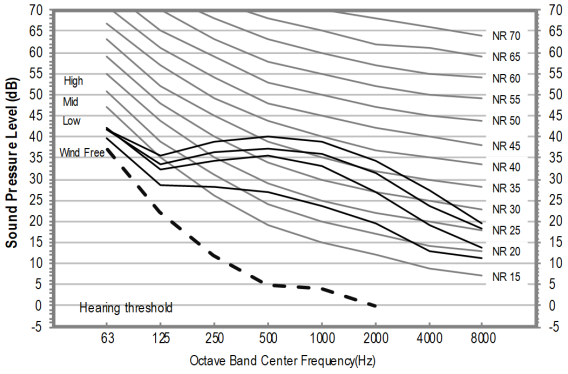
1) AM045DNVDKG/EU



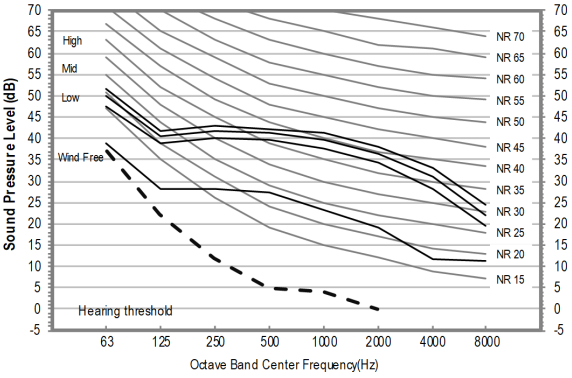
2) AM056DNVDKG/EU



3) AM071DNVDKG/EU



4) AM082DNVDKG/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

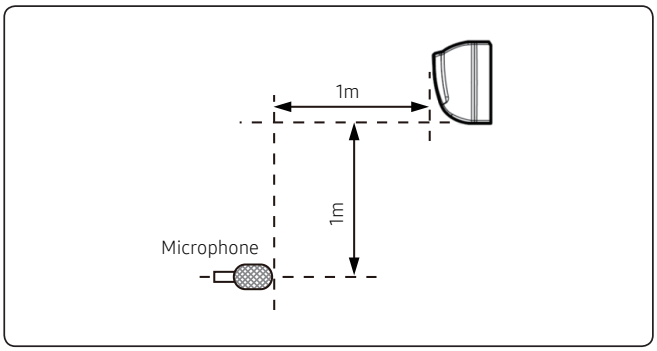
※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

7. Sound Data

Wall mounted

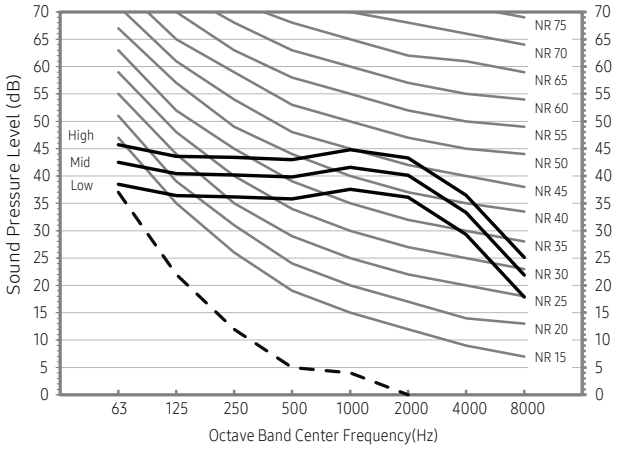
Sound Pressure level

Unit: dB(A)



Model	High	Mid	Low
AM093DNQDKG/EU	49	46	42

- NR Curve
  1) AM093DNQDKG/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

※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

7. Sound Data

Wall mounted

Sound Power level

NOTE

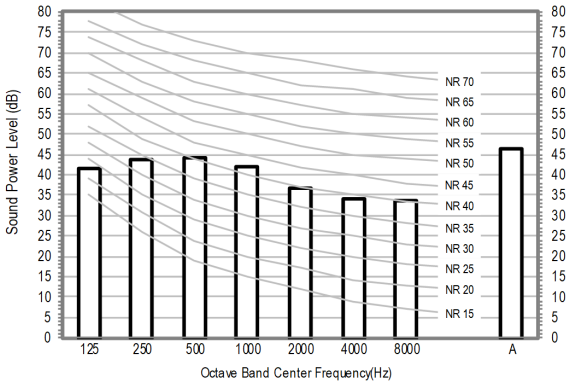
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

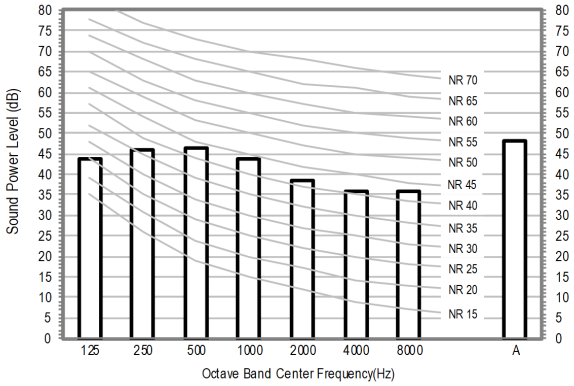
Model	Power
AM015DNVDKG/EU	50
AM022DNVDKG/EU	51
AM028DNVDKG/EU	52
AM036DNVDKG/EU	56

- NR Curve

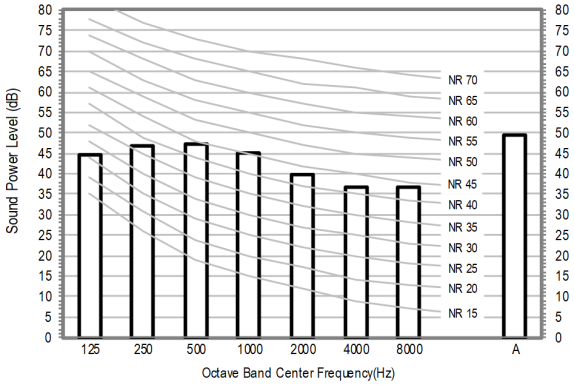
1) AM015DNVDKG/EU



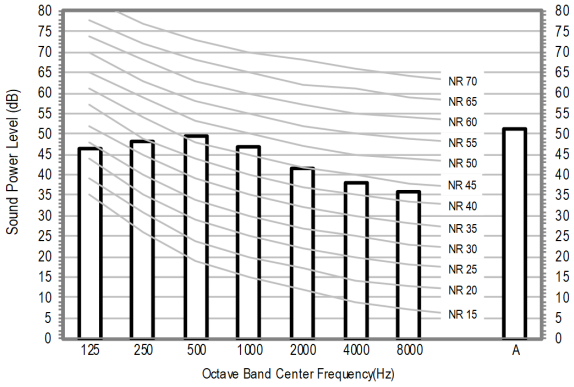
2) AM022DNVDKG/EU



3) AM028DNVDKG/EU



4) AM036DNVDKG/EU



※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

7. Sound Data

Wall mounted

Sound Power level

NOTE

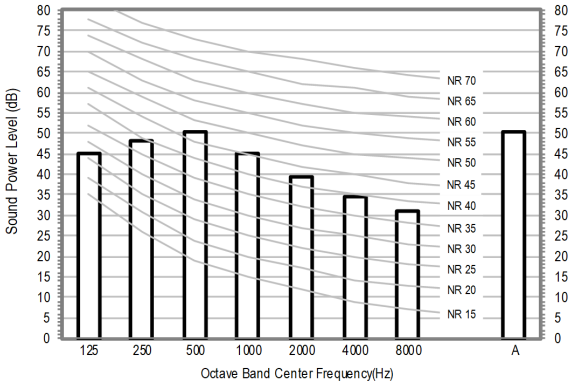
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

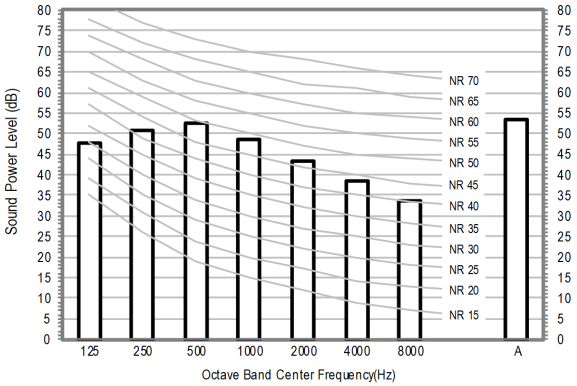
Model	Power
AM045DNVDKG/EU	55
AM056DNVDKG/EU	58
AM071DNVDKG/EU	62
AM082DNVDKG/EU	64

- NR Curve

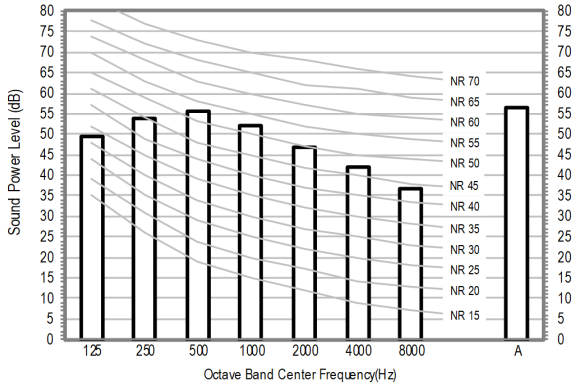
1) AM045DNVDKG/EU



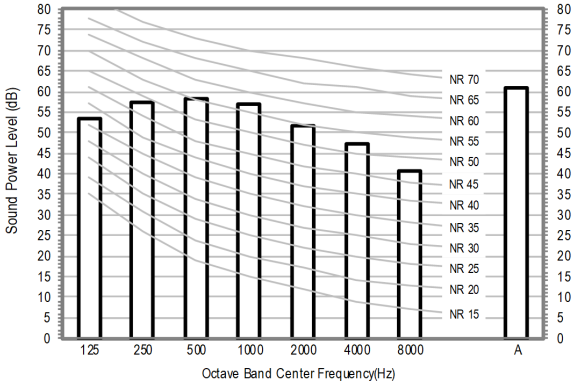
2) AM056DNVDKG/EU



3) AM071DNVDKG/EU



4) AM082DNVDKG/EU



※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

7. Sound Data

Wall mounted

Sound Power level

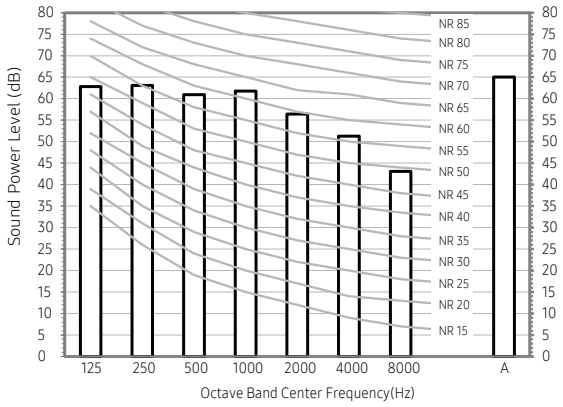
NOTE

- 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
AM093DNQDKG/EU	66

- NR Curve
  1) AM093DNQDKG/EU



※ The concept of Wall mounted with EEV included is commercial application only. Residential application such as Hotel, Hospital, Houses where the very quiet surrounding is required should be avoided to prevent a noise claim.

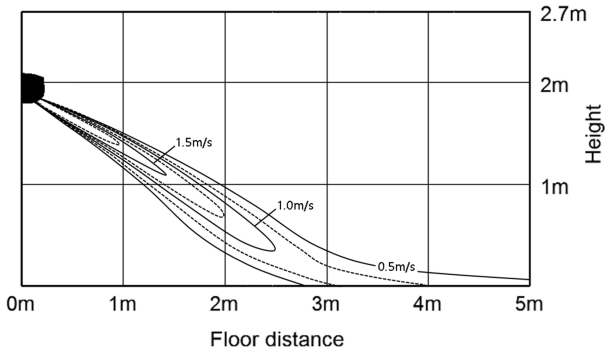
8.Temperature and air flow distribution

Wall mounted

AM015DNVDKG/EU

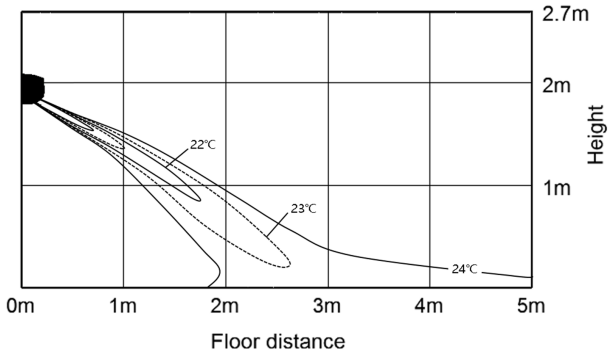
1) Cooling air velocity distribution

Discharge angle : 20˚



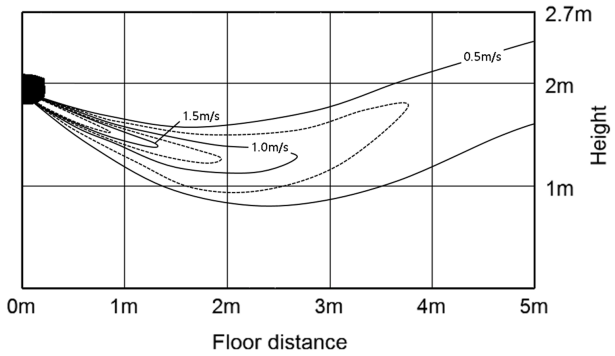
2) Cooling temperature distribution

Discharge angle : 20˚



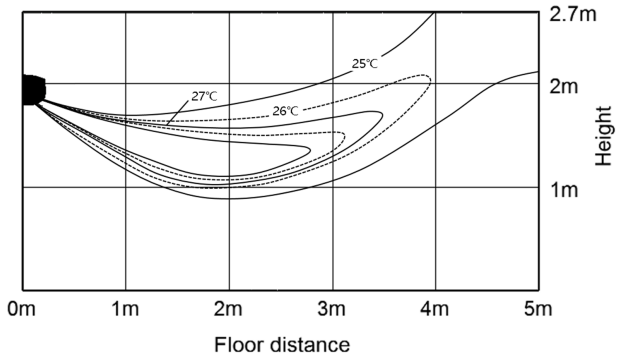
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



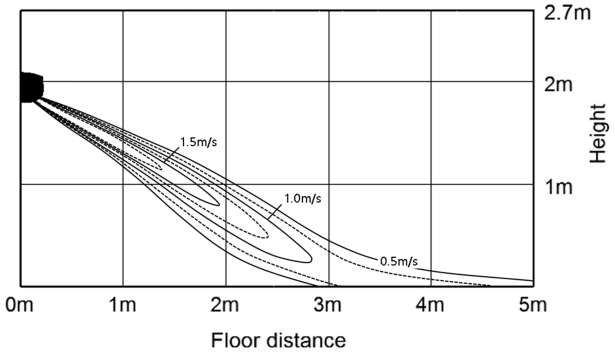
8.Temperature and air flow distribution

Wall mounted

AM022DNVDKG/EU

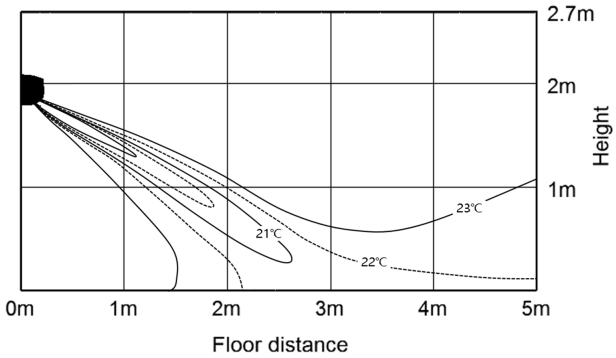
1) Cooling air velocity distribution

Discharge angle : 20˚



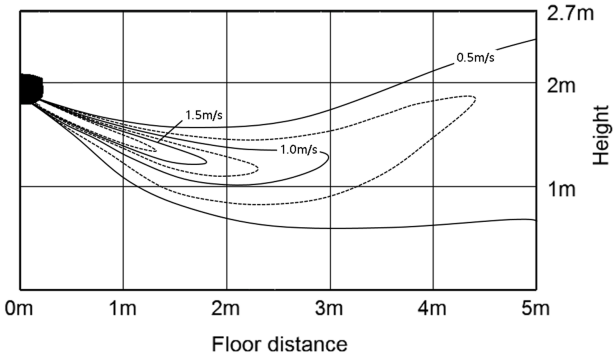
2) Cooling temperature distribution

Discharge angle : 20˚



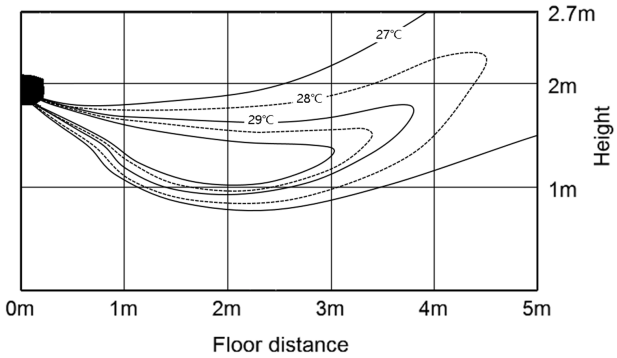
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



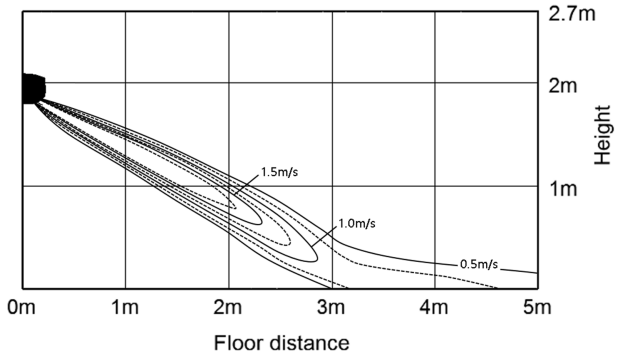
8.Temperature and air flow distribution

Wall mounted

AM028DNVDKG/EU

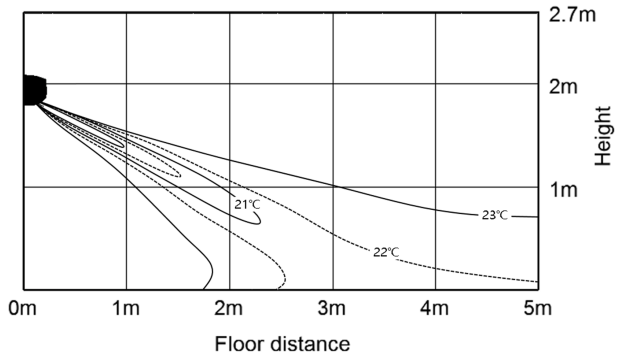
1) Cooling air velocity distribution

Discharge angle : 20˚



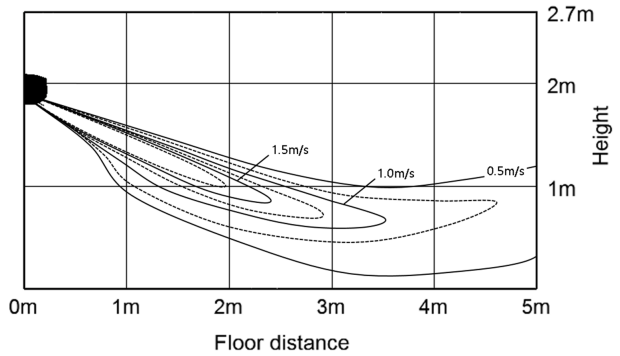
2) Cooling temperature distribution

Discharge angle : 20˚



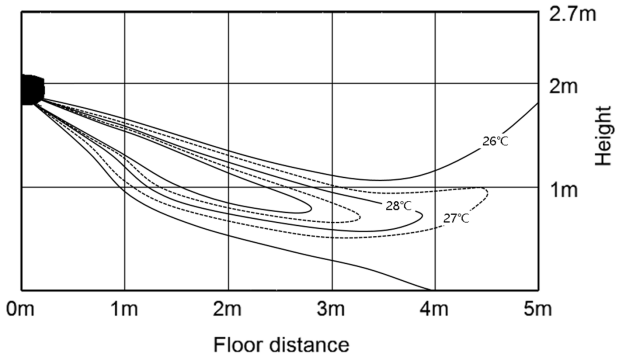
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



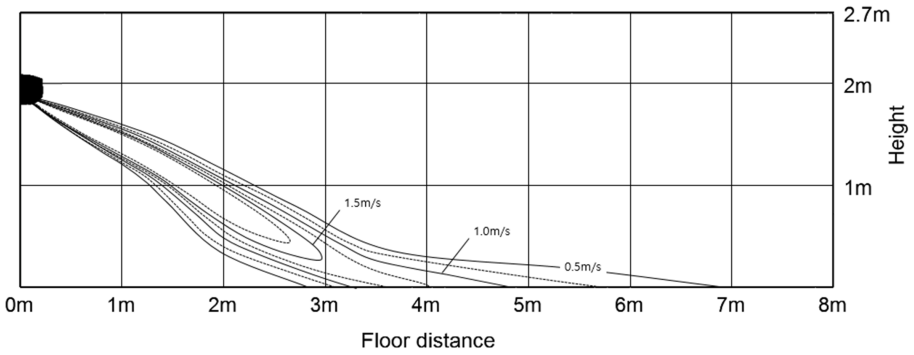
8.Temperature and air flow distribution

Wall mounted

AM036DNVDKG/EU

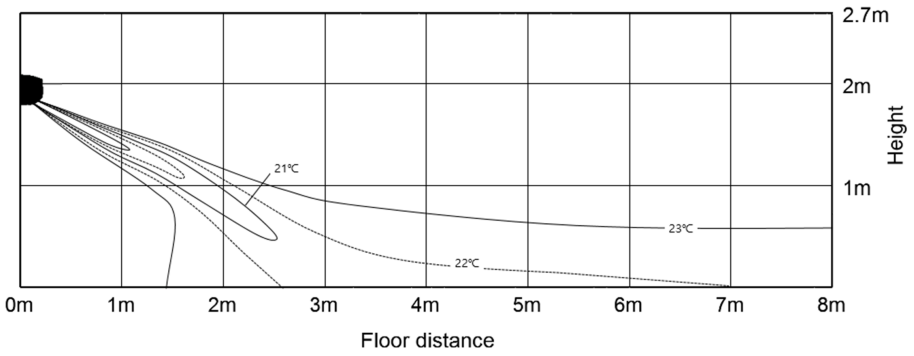
1) Cooling air velocity distribution

Discharge angle : 20˚



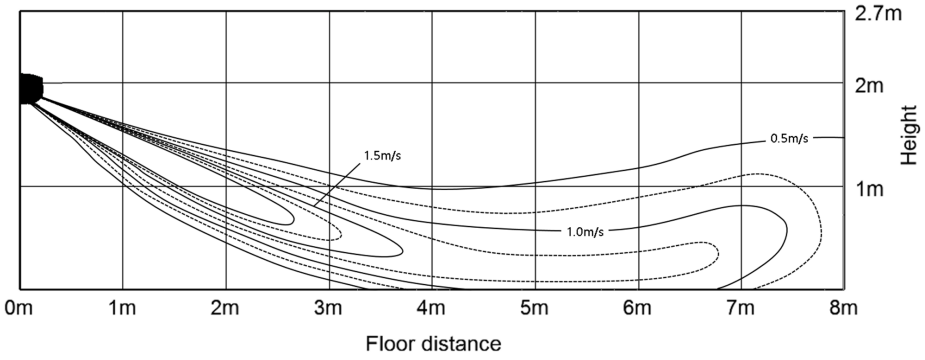
2) Cooling temperature distribution

Discharge angle : 20˚



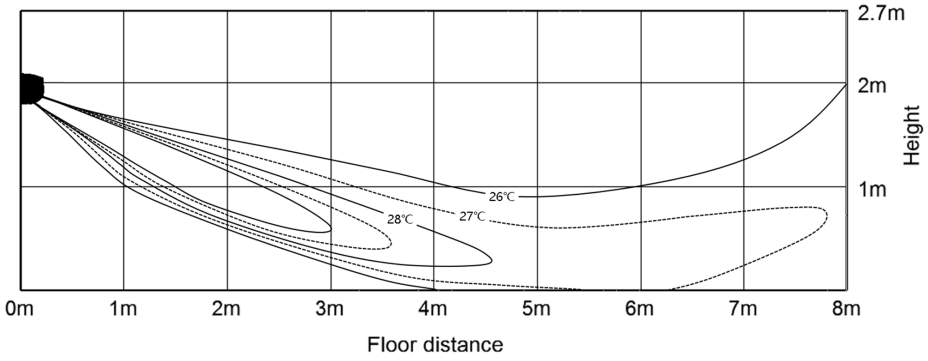
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



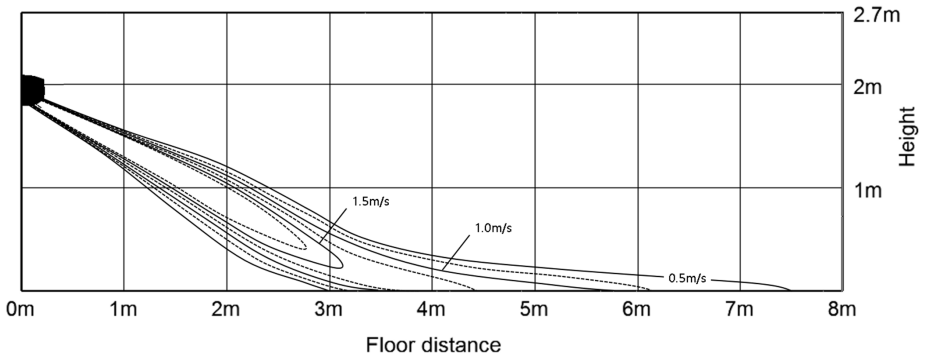
8.Temperature and air flow distribution

Wall mounted

AM045DNVDKG/EU

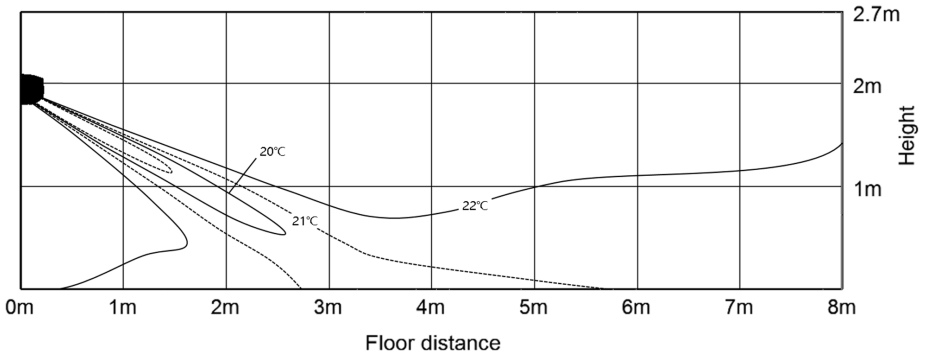
1) Cooling air velocity distribution

Discharge angle : 20˚



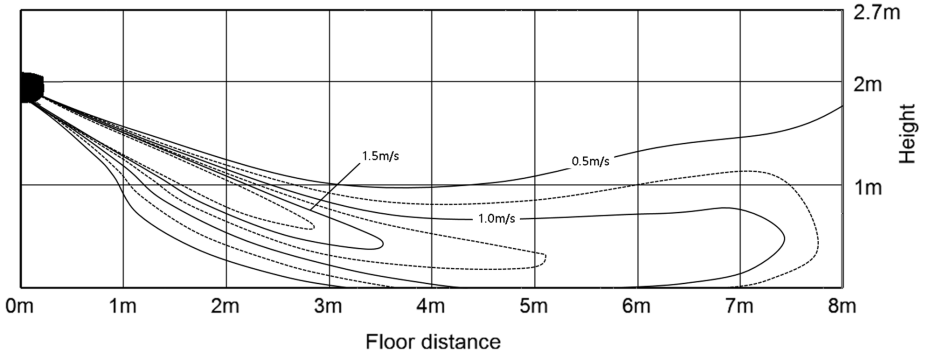
2) Cooling temperature distribution

Discharge angle : 20˚



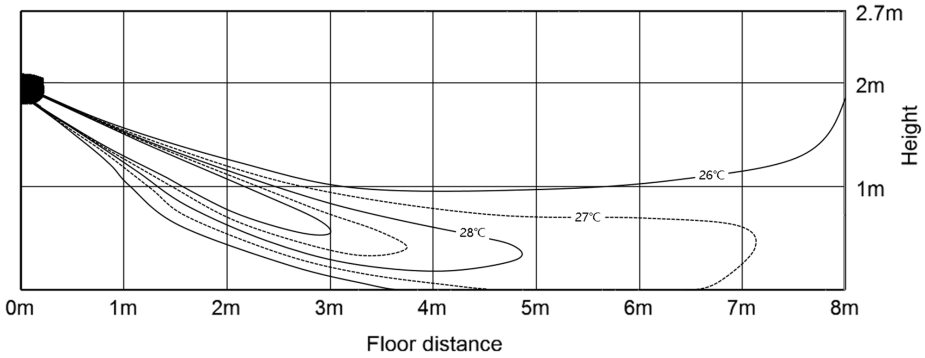
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



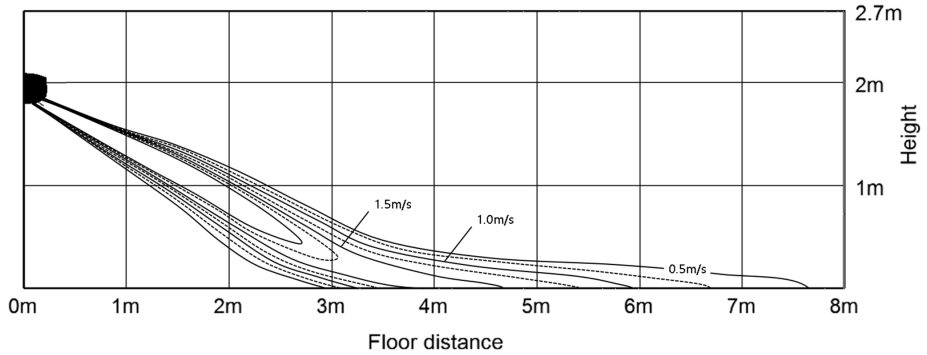
8.Temperature and air flow distribution

Wall mounted

AM056DNVDKG/EU

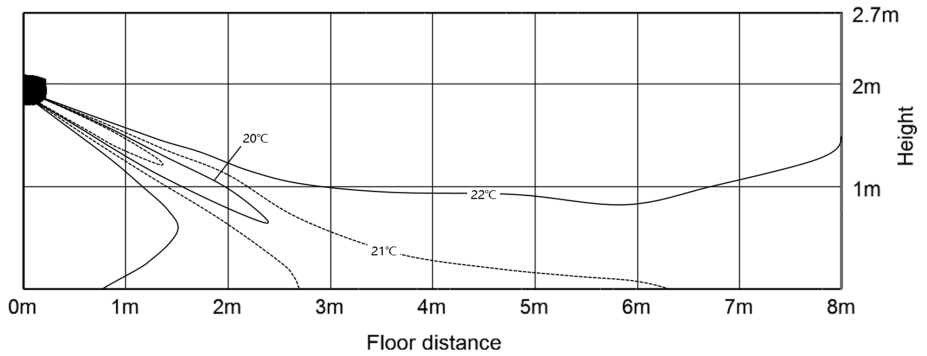
1) Cooling air velocity distribution

Discharge angle : 20˚



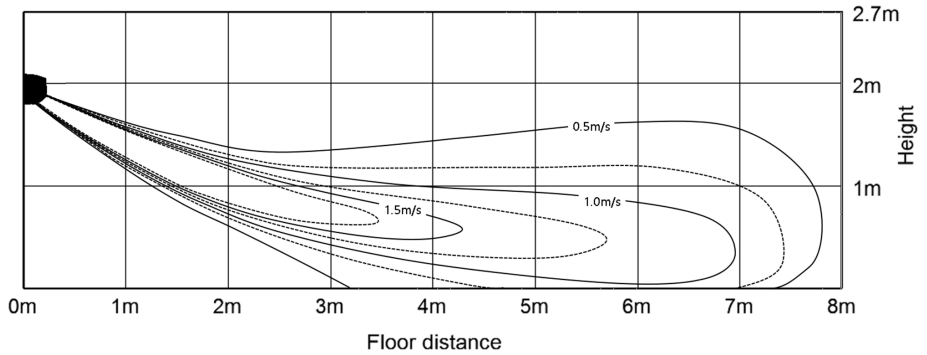
2) Cooling temperature distribution

Discharge angle : 20˚



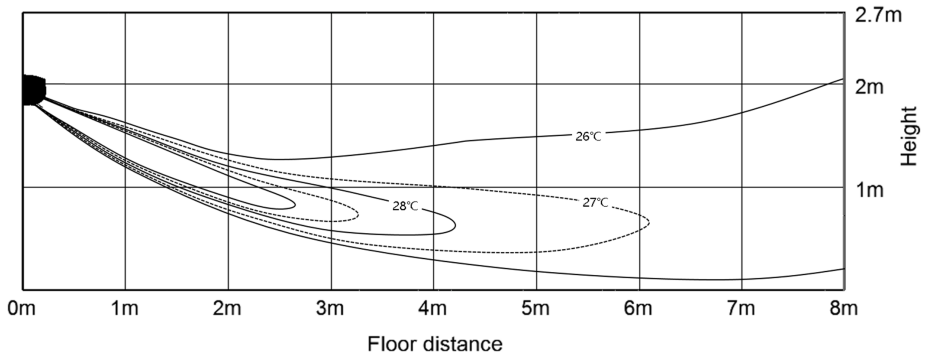
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



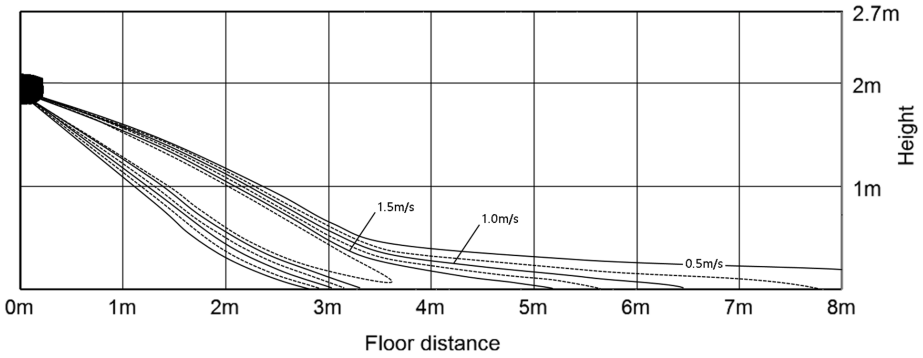
8.Temperature and air flow distribution

Wall mounted

AM071DNVDKG/EU

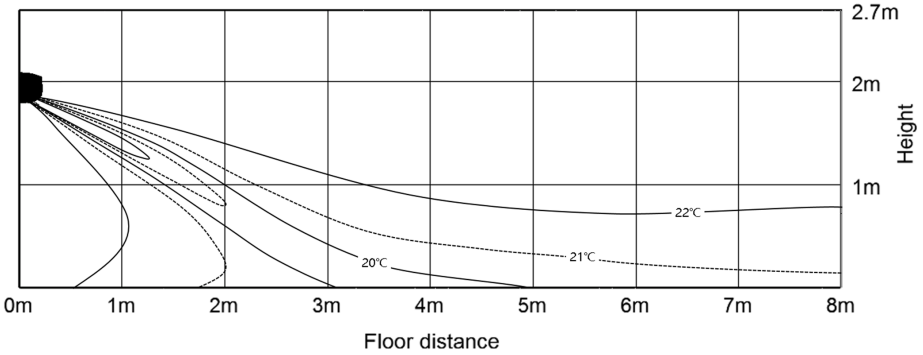
1) Cooling air velocity distribution

Discharge angle : 20˚



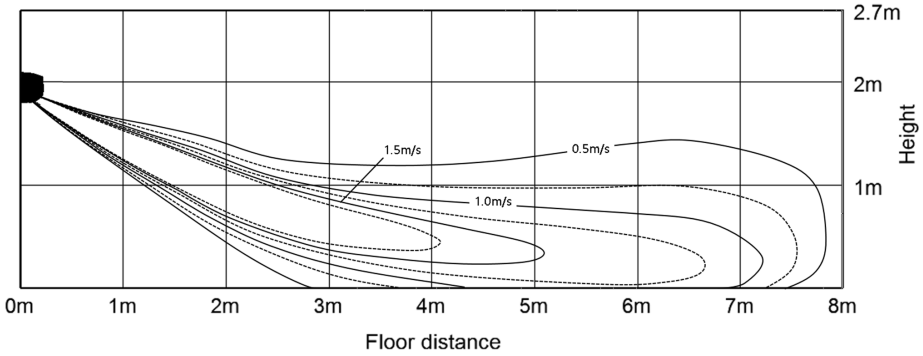
2) Cooling temperature distribution

Discharge angle : 20˚



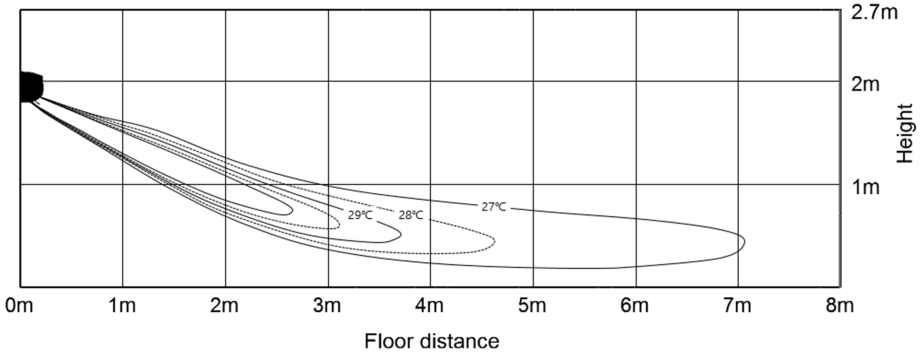
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



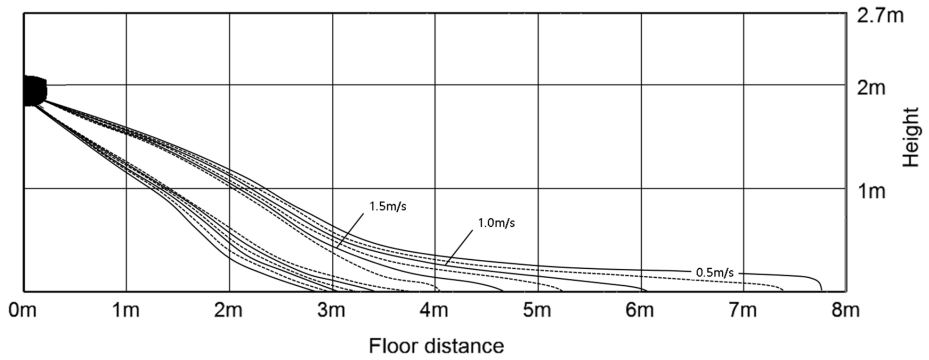
8.Temperature and air flow distribution

Wall mounted

AM082DNVDKG/EU

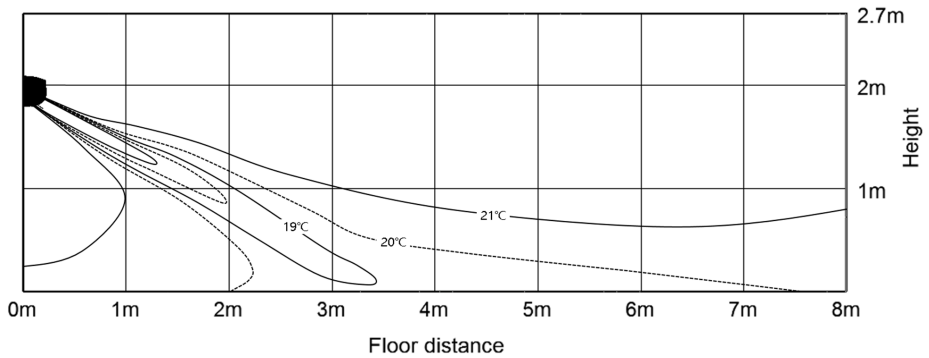
1) Cooling air velocity distribution

Discharge angle : 20˚



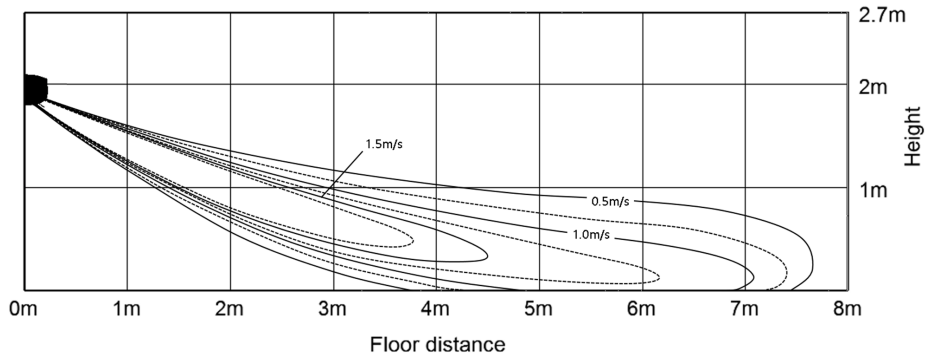
2) Cooling temperature distribution

Discharge angle : 20˚



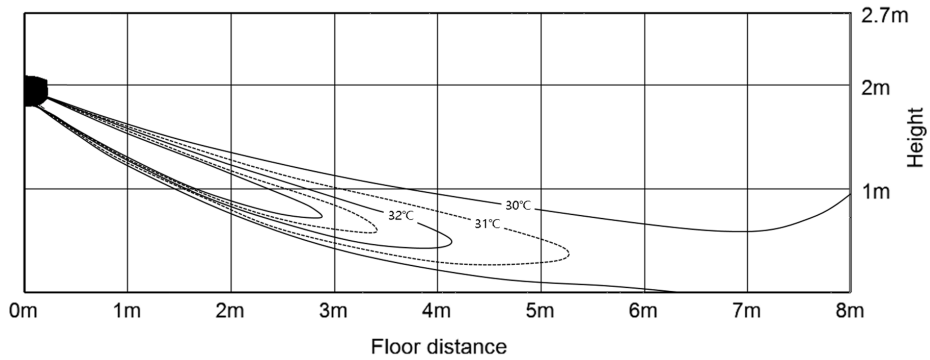
3) Heating air velocity distribution

Discharge angle : 30˚



4) Heating temperature distribution

Discharge angle : 30˚



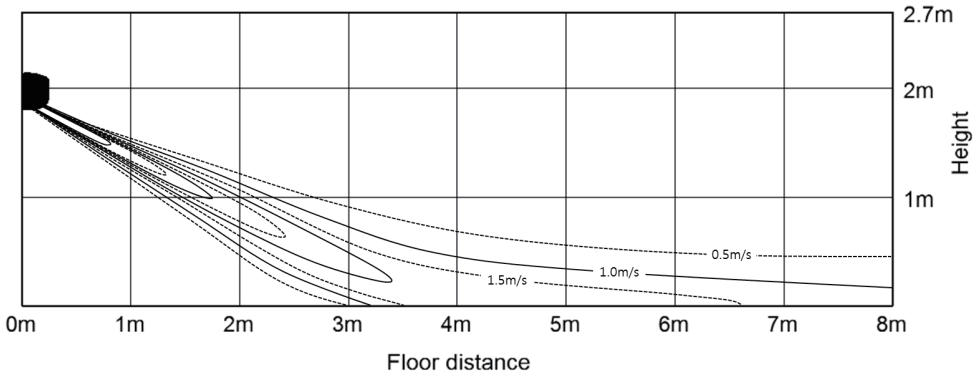
8.Temperature and air flow distribution

Wall mounted

AM093DNQDKG/EU

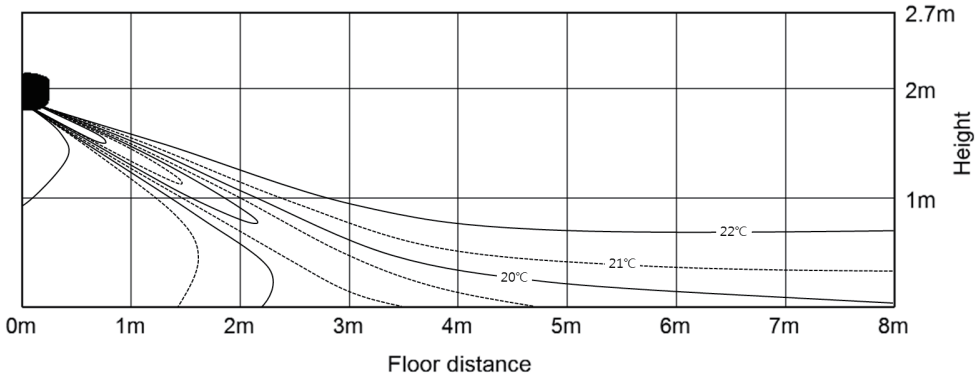
1) Cooling air velocity distribution

Discharge angle : 27˚



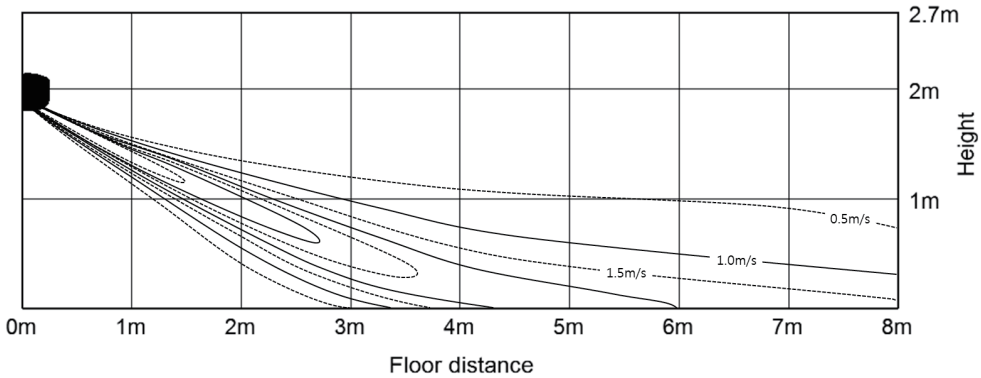
2) Cooling temperature distribution

Discharge angle : 27˚



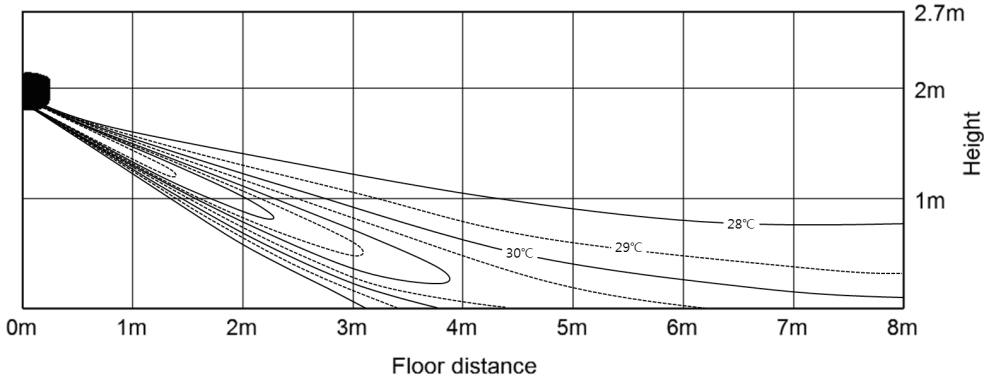
3) Heating air velocity distribution

Discharge angle : 27˚



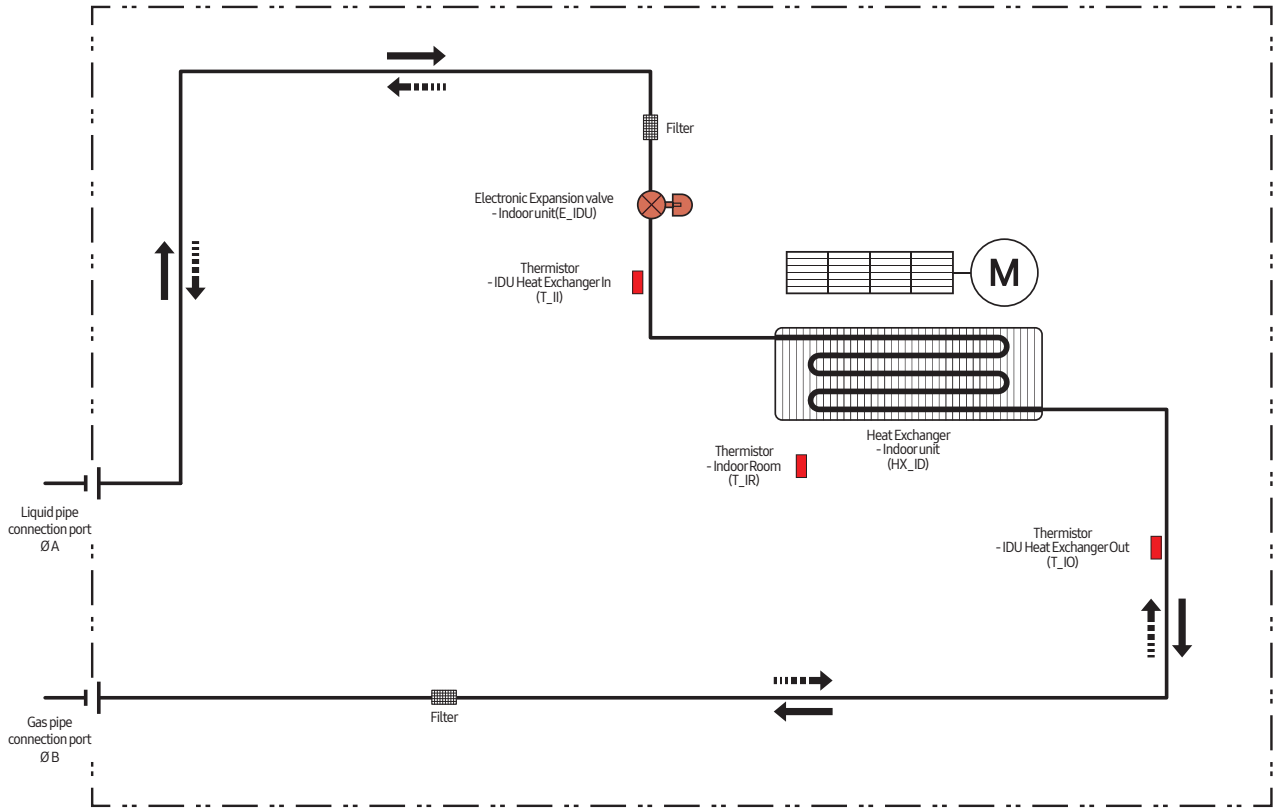
4) Heating temperature distribution

Discharge angle : 27˚



9. Piping Diagram

Wall mounted



Refrigerant flow	
Cooling	Heating
→	⇢

Ceiling

Line-up

Ceiling

Capacity (kW)			
5.6	7.1	11.2	14.0
			

1. Specification

Ceiling

Model Name				AM056DNCDKG/EU	AM071DNCDKG/EU	AM112DNCDKG/EU	AM140DNCDKG/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	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	11.2	14.0
			Btu/h	19,100	24,200	38200	47800
		Heating	kW	6.3	8.0	12.5	16.0
			Btu/h	21,500	27,300	42700	54600
Power	Power Input	Cooling	W	50.0	51.0	92.0	160.0
		Heating		50.0	51.0	80.0	160.0
	Current Input	Cooling	A	0.43	0.47	0.94	1.45
		Heating		0.43	0.47	0.83	1.45
	Current	MCA	A	0.60	0.60	3.00	3.30
		MFA		15	15	15	15
Heat exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al	Al
		Tube	-	Cu	Cu	Cu	Cu
	Fin Treatment		-	NEO SILICA	NEO SILICA	NEO SILICA	NEO SILICA
Fan	Type	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Quantity		ea	2	3	3	3
	Air Flow Rate	H/M/L	CMM	12.6 / 11.3 / 10.0	18.4 / 16.4 / 14.3	29.3 / 23.9 / 18.5	36.4 / 30.8 / 26
			l/s	233 / 217 / 200	300 / 275 / 250	488 / 398 / 308	607 / 513 / 433
Fan Motor	Model		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output x n		W	40	153	153	244
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ,mm	6.35	9.52	9.52	9.52
			Φ, inch	1/4	3/8	3/8	3/8
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	Flare connection
			Φ,mm	12.70	15.88	15.88	15.88
			Φ, inch	1/2	5/8	5/8	5/8
	Heat insulation		-	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes	Both liquid & gas pipes
	Drain Pipe		Φ,mm	ID 18 hose	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Wiring connections	Communication	Min.	mm^2	0.75	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R32	R32	R32	R32
	Electronic Expansion Valve		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Level	Sound Pressure Level	H/M/L	dB(A)	41 / 39 / 36	37 / 35 / 33	45 / 41 / 37	46 / 43 / 38
	Sound Power Level	Cooling		60	56	61	63
Dimensions	Net Weight		kg	20.8	34.0	34.0	42.0
	Shipping Weight		kg	26.2	39.4	39.4	48.5
	Net Dimensions (W×H×D)		mm	1,000 x 650 x 200	1,350 x 235 x 675	1,350 x 235 x 675	1,650 x 235 x 675
	Shipping Dimensions (W×H×D)		mm	1,080 x 730 x 300	1,439 x 758 x 321	1,439 x 758 x 321	1,739 x 758 x 321
Drain Pump	Drain Pump		-	-	-	-	-
	Max. lifting Height / Displacement		mm / Liter/h	-	-	-	-

NOTE

- Specification may be subject to change without prior notice.

1) Capacities are based on (Equivalent refrigerant piping 7.5m, Level differences 0m);
   - 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
2) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
3) These products contain R32 (GWP=675) which is fluorinated greenhouse gas.
4) Select wire size based on the value of MCA

2. Summary Table

Ceiling

Performance Characteristics

Model Code	Net Weight (kg)	Fan Speed	Nominal Capacity (kW)			Airflow (CMM)	Sound Pressure (dBA)	Sound Power (dBA)
			Cooling	Sensible	Heating			
AM056DNCDKG/EU	20.8	High	5.6	3.9	6.3	12.6	41	60
		Mid	5.1	3.6	6.0	11.3	39	-
		Low	4.6	3.2	5.6	10.0	36	-
AM071DNCDKG/EU	34.0	High	7.1	5.0	8.0	18.4	37	56
		Mid	6.4	4.5	7.6	16.4	35	-
		Low	5.7	4.0	7.1	14.3	33	-
AM112DNCDKG/EU	34.0	High	11.2	7.9	12.5	29.3	45	61
		Mid	9.4	6.6	11.3	23.9	41	-
		Low	7.3	5.1	9.9	18.5	37	-
AM140DNCDKG/EU	42.0	High	14.0	9.6	16.0	36.4	46	63
		Mid	12.1	8.3	14.7	30.8	43	-
		Low	10.3	7.1	13.5	26.0	38	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Indoor Unit	Power Supply (Ø, #, V, Hz)	Power Input (W)	Current Input (A)	MCA (A)	MFA (A)	FLA (A)
AM056DNCDKG/EU	1,2,220~240,50/60	50.0	0.43	0.60	15	0.48
AM071DNCDKG/EU	1,2,220~240,50/60	51.0	0.47	0.60	15	0.48
AM112DNCDKG/EU	1,2,220~240,50/60	92.0	0.94	3.00	15	2.40
AM140DNCDKG/EU	1,2,220~240,50/60	160.0	1.45	3.30	15	2.64

NOTE

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

3. Capacity Table

Ceiling

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	35	3.9	3.2	4.6	3.5	5.3	3.9	5.6	3.9	5.8	3.9	6.2	3.8	6.6	3.6
071	35	4.9	4.0	5.8	4.5	6.7	4.8	7.1	5.0	7.4	5.0	7.9	5.0	8.4	4.8
112	35	7.7	6.3	9.1	7.0	10.5	7.8	11.2	7.9	11.6	7.9	12.4	7.9	13.2	7.7
140	35	9.7	7.7	11.4	8.5	13.1	9.4	14.0	9.6	14.5	9.6	15.5	9.5	16.5	9.4

Heating

TC : Total Capacity (kW)

Capacity Index	Outdoor Air Temp. (℃)		Indoor temperature (℃,DB)				
			16(℃,DB)	18(℃,DB)	20(℃,DB)	22(℃,DB)	24(℃,DB)
			TC	TC	TC	TC	TC
	DB	WB	kW	kW	kW	kW	kW
056	7.0	6.0	6.5	6.4	6.3	5.8	5.3
071	7.0	6.0	8.2	8.1	8.0	7.4	6.8
112	7.0	6.0	12.9	12.7	12.5	11.5	10.6
140	7.0	6.0	16.5	16.2	16.0	14.8	13.5

NOTE

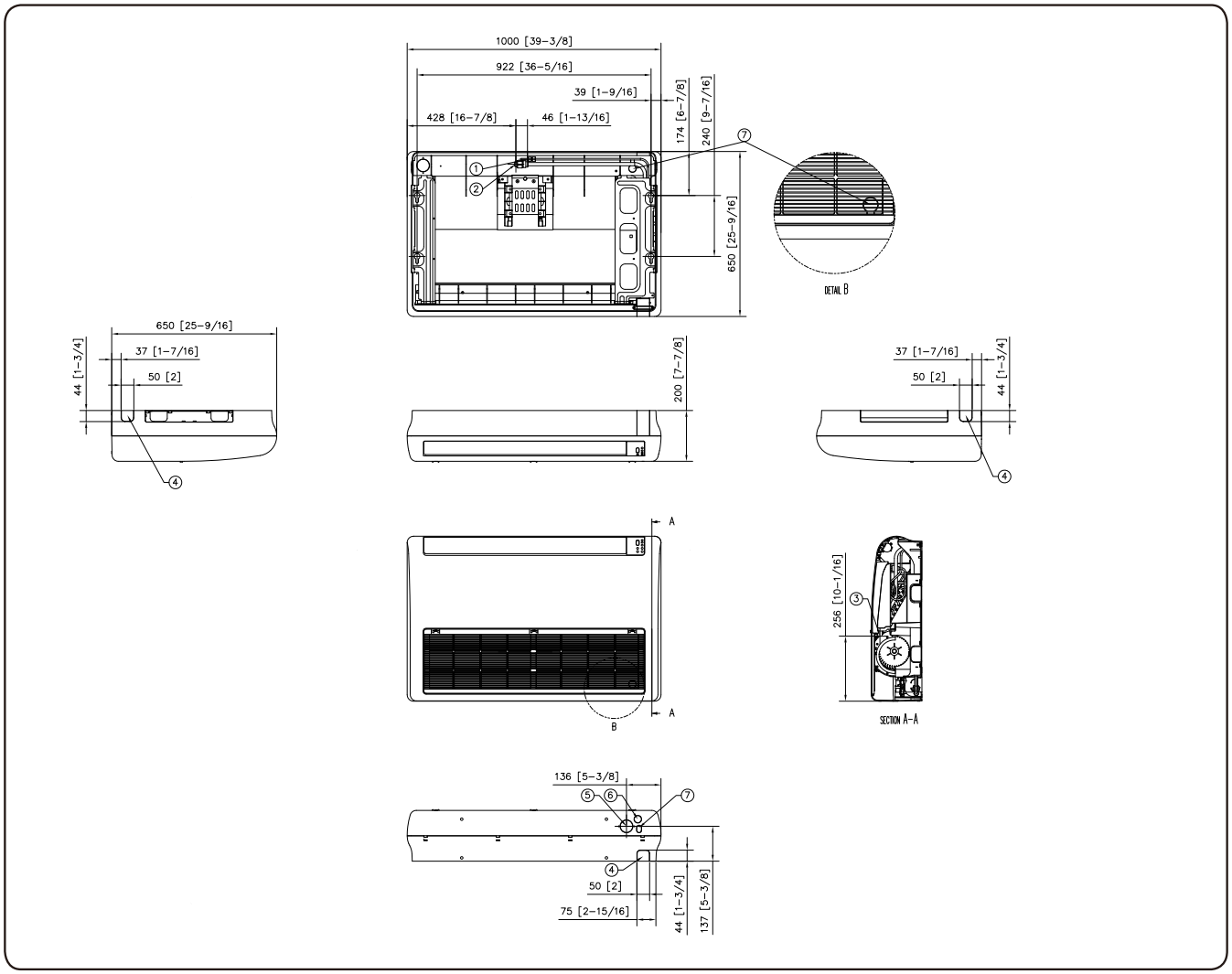
- The performance table shows the average value of each conditions.

4. Dimensional Drawing

Ceiling

AM056DNCDKG/EU

Units : mm [inches]



No.	Name	Description
1	Refrigerant liquid pipe	Φ6.35(1/4)
2	Refrigerant gas pipe	Φ12.7(1/2)
3	Condensate drain	ID18mm [11/16inch] Hose
4	Knockout hole for piping	
5	Knockout hole for air intake	Φ50 [2]
6	Knockout hole for drain pipe	
7	Knockout hole for wiring	

NOTE

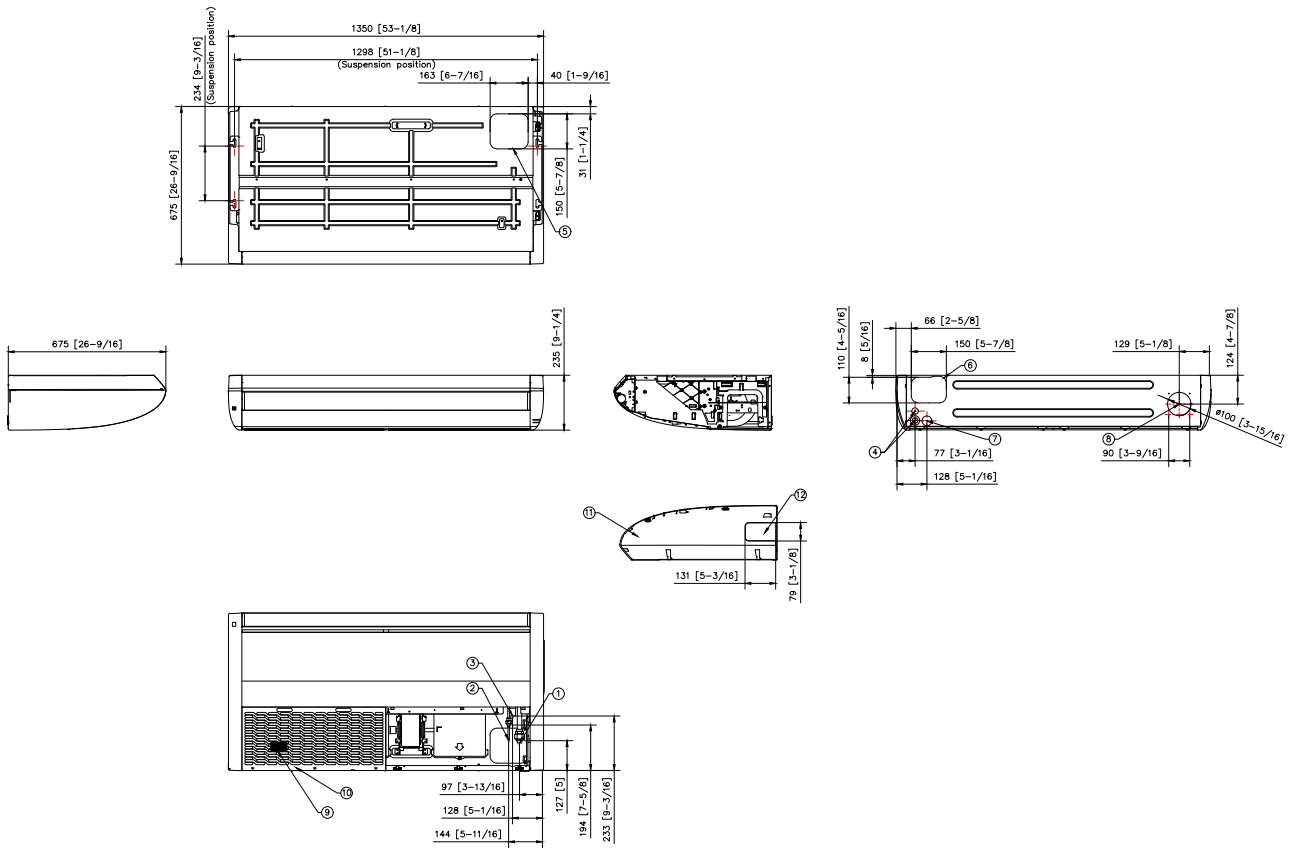
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

Ceiling

AM071DNCDKG/EU, AM112DNCDKG/EU

Units : mm [inches]



No.	Name	Description
1	Refrigerant gas pipe	Φ15.88 (5/8)
2	Refrigerant liquid pipe	Φ9.52 (3/8)
3	Condensate drain	VP25 (OD 25, ID 20)
4	Conduit hole	Φ28(1-1/8)
5	Knockout hole for upper piping arrangement	
6	Knockout hole for rear piping arrangement	
7	Knockout hole for drain pipe arrangement	
8	Knockout hole for fresh air intake	Φ42(Φ1-5/16)
9	Air filter	
10	Air suction grille	
11	Cover side	
12	Knockout hole for side piping arrangement	

NOTE

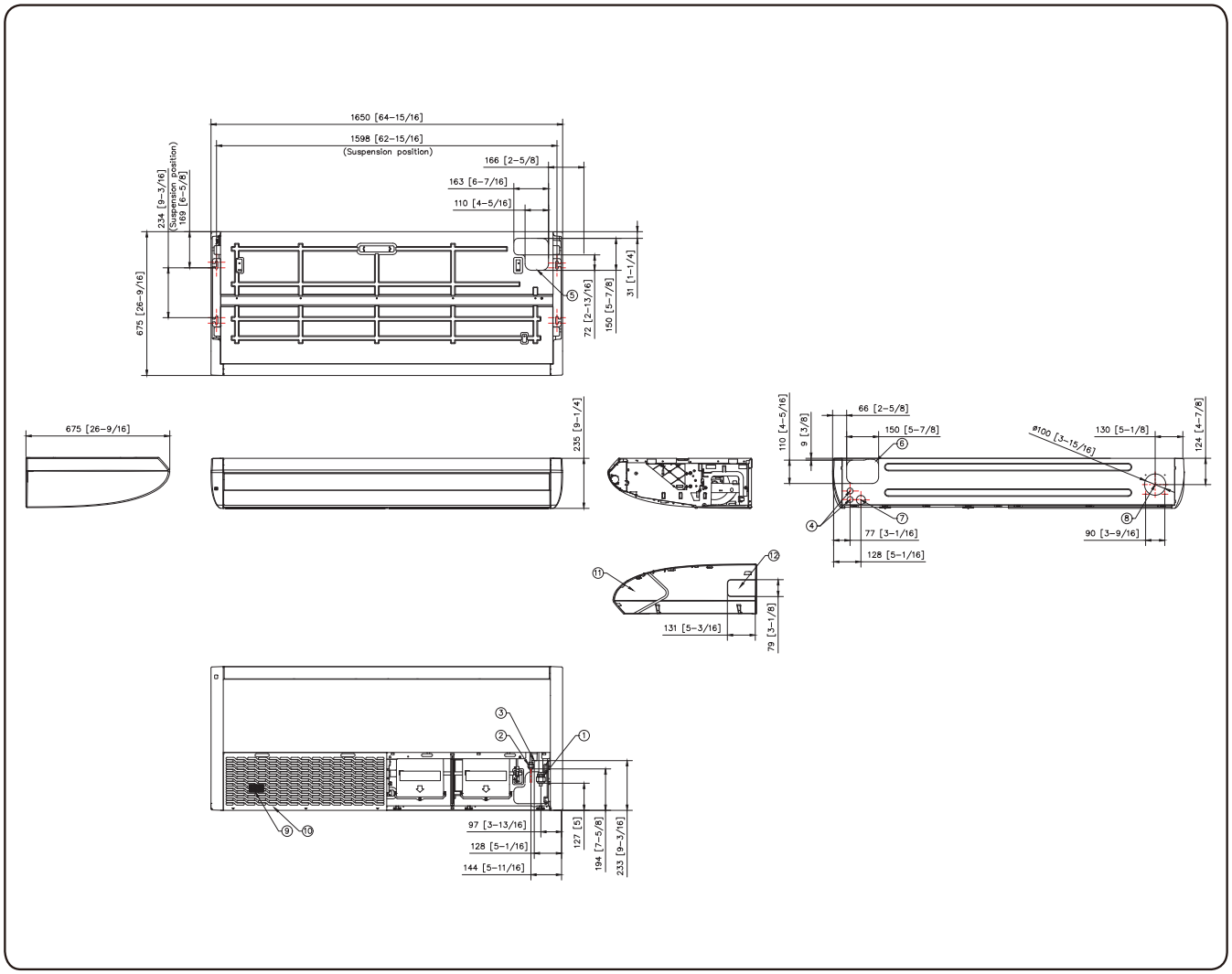
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

4. Dimensional Drawing

Ceiling

AM140DNCDKG/EU

Units : mm [inches]



No.	Name	Description
1	Gas pipe connection	Φ15.88[5/8]
2	Liquid pipe connection	Φ9.52[3/8]
3	Drain pipe connection	VP-25(OD32, ID25)
4	Conduit hole	Φ28[1-1/8]
5	Knockout hole for upper piping arrangement	-
6	Knockout hole for rear piping arrangement	-
7	Knockout hole for drain pipe arrangement	-
8	Knockout hole for fresh air intake	Φ42[1-5/16]
9	Air filter	-
10	Air suction grille	-
11	Cover side	-
12	Knockout hole for side piping arrangement	-

NOTE

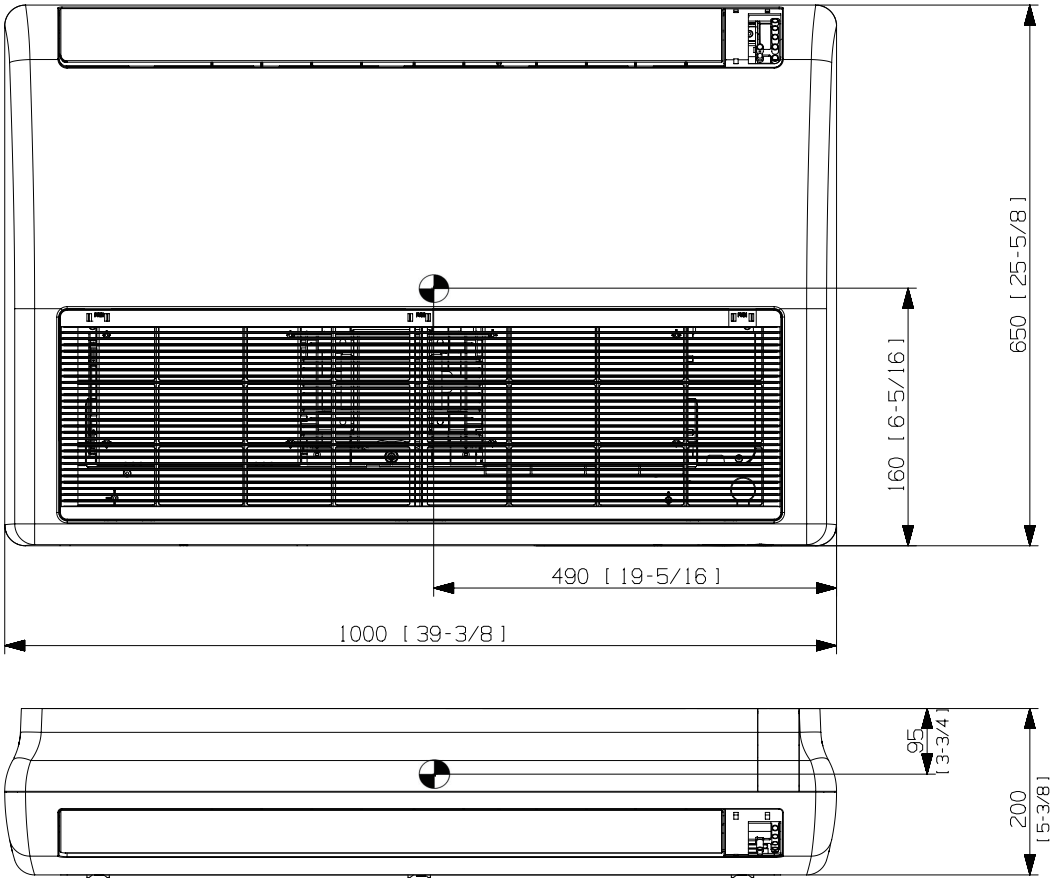
- As for suspension bolt, please use M8 ~ M10.
  (Procured at local site)

5. Center of Gravity

Ceiling

AM056DNCDKG/EU

Units : mm [inches]

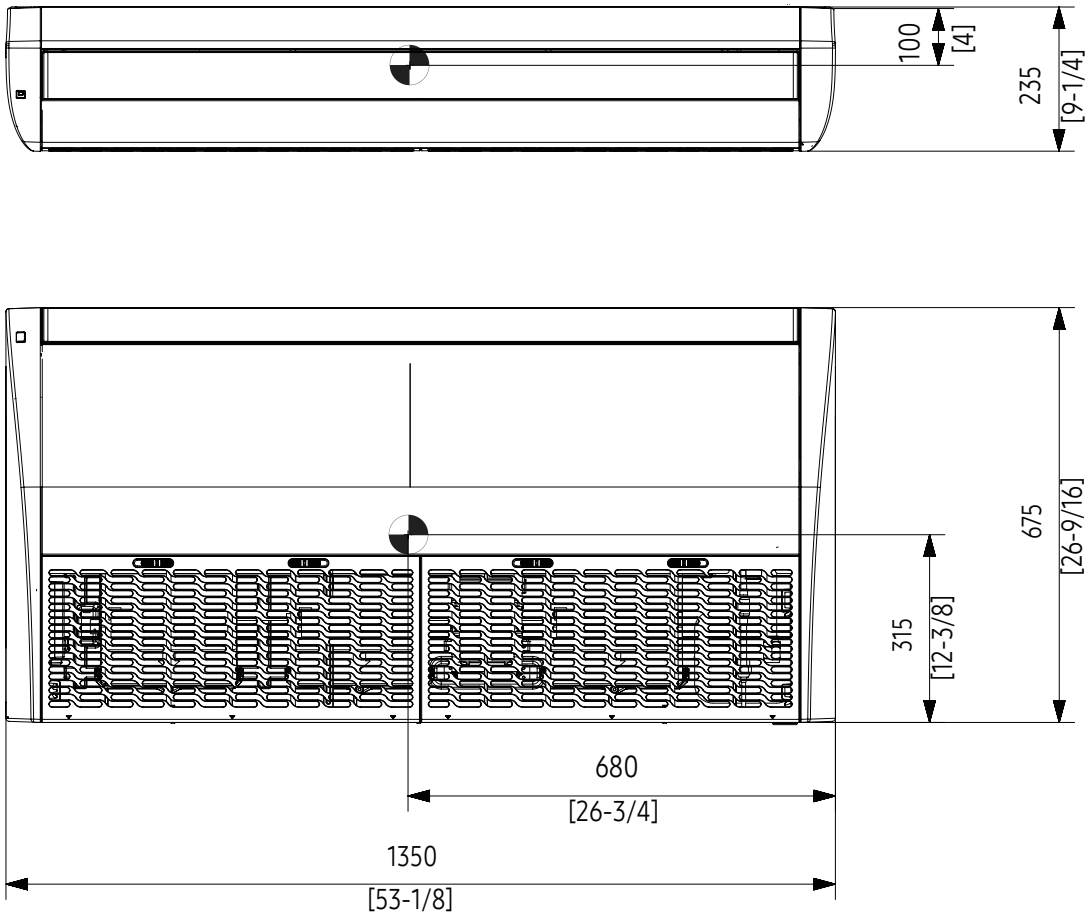


5. Center of Gravity

Ceiling

AM071DNCDKG/EU, AM112DNCDKG/EU

Units : mm [inches]

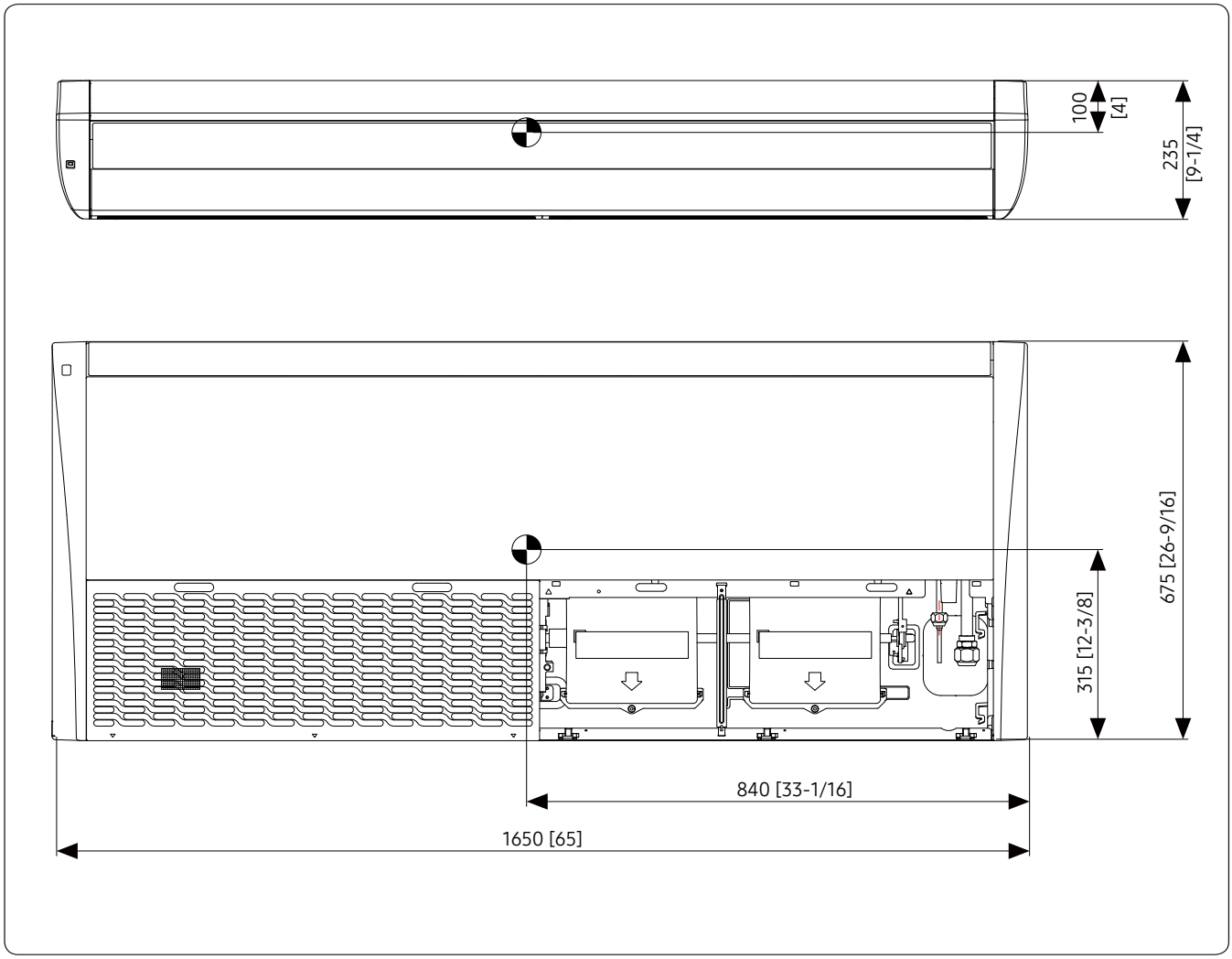


5. Center of Gravity

Ceiling

AM140DNCDKG/EU

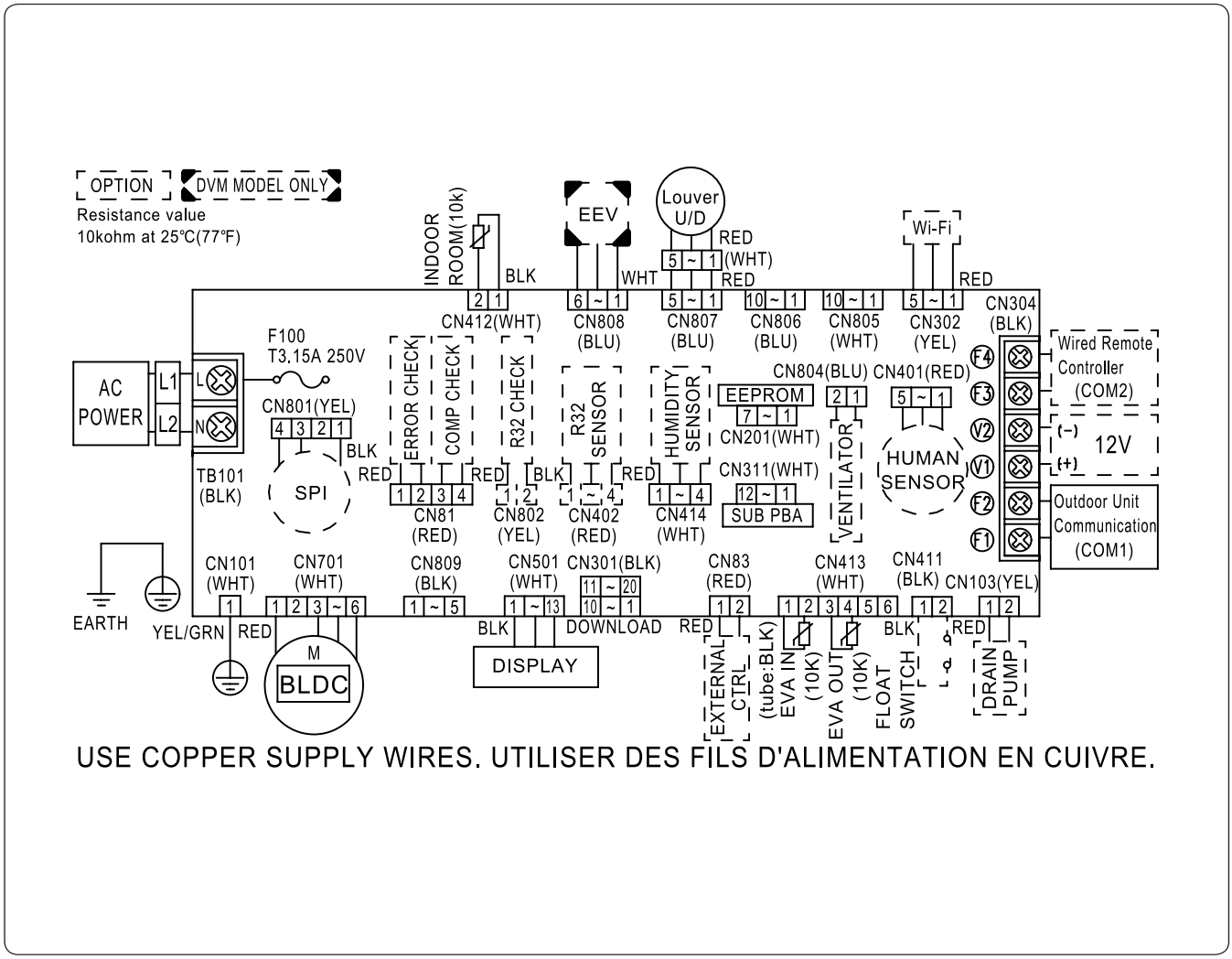
Units : mm [inches]



6. Electrical Wiring Diagram

Ceiling

AM056DNCDKG/EU, AM071DNCDKG/EU



F100	FUSE	EEV	Electronic Expansion Valve	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-IN(10K)	Thermistor EVA IN(10K)
				EVA-OUT(10K)	Thermistor EVA OUT(10K)

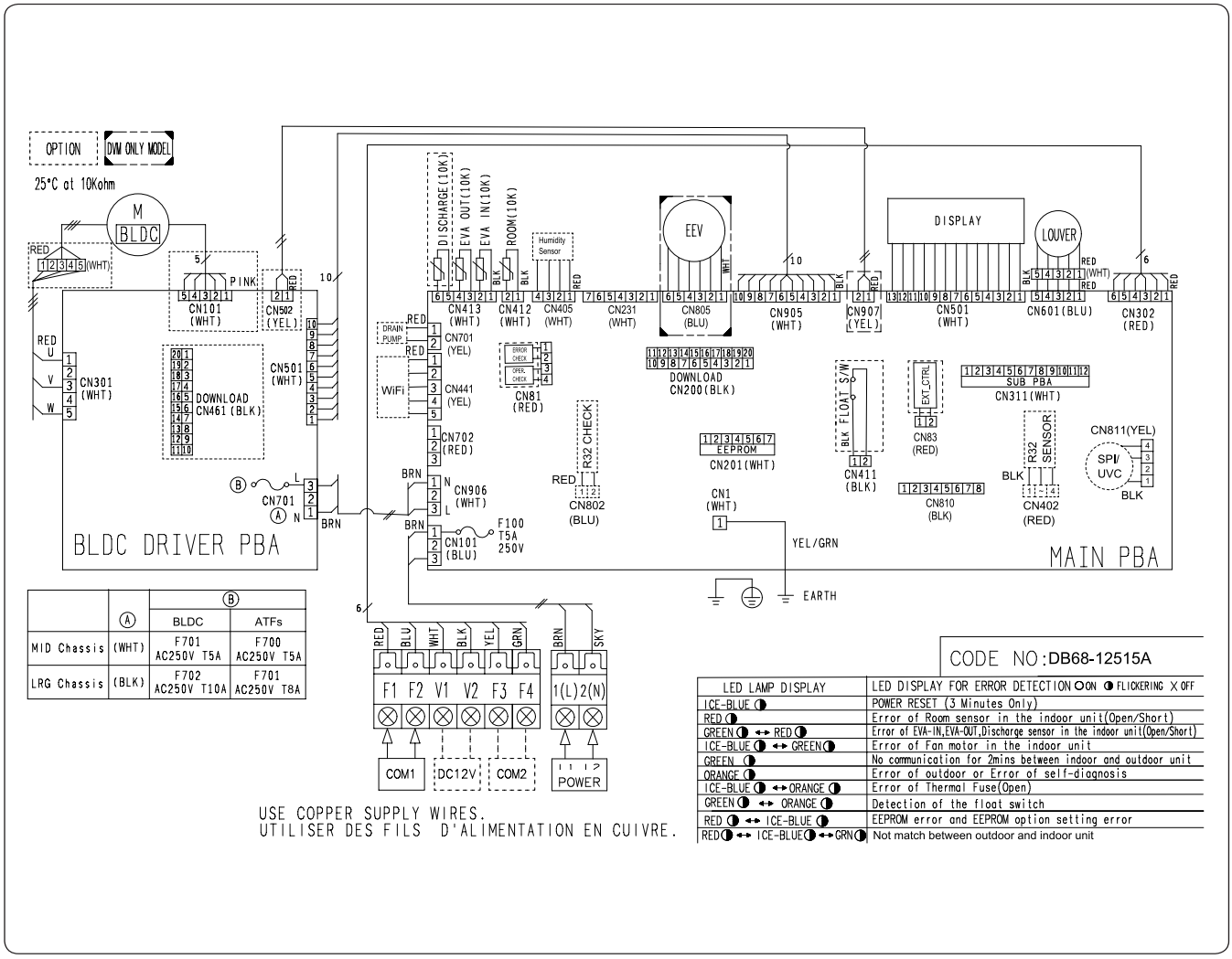
NOTE

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

6. Electrical Wiring Diagram

Ceiling

AM112DNCDKG/EU, AM140DNCDKG/EU



	Ⓐ	Ⓑ BLDC	Ⓑ ATFs
MID Chassis	(WHT)	F701 AC250V T5A	F700 AC250V T5A
LRG Chassis	(BLK)	F702 AC250V T10A	F701 AC250V T8A

F100	FUSE	EEV	Electronic Expansion Valve	ROOM(10K)	Thermistor ROOM OUT(10K)
M-BLDC	BLDC Motor	EXT_CONTROL	EXTERNAL_CONTROL	EVA-IN(10K)	Thermistor EVA IN(10K)
				EVA-OUT(10K)	Thermistor EVA OUT(10K)

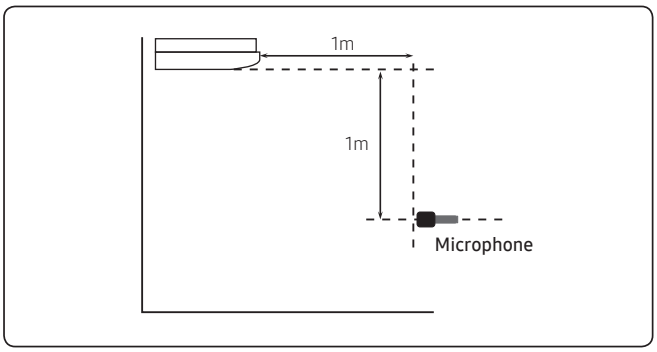
NOTE

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

7. Sound Data

Ceiling

Sound Pressure level

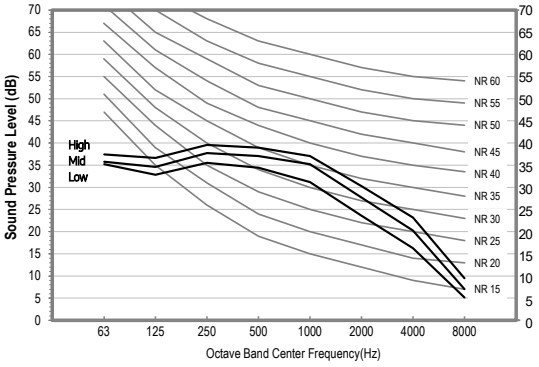


Unit: dB(A)

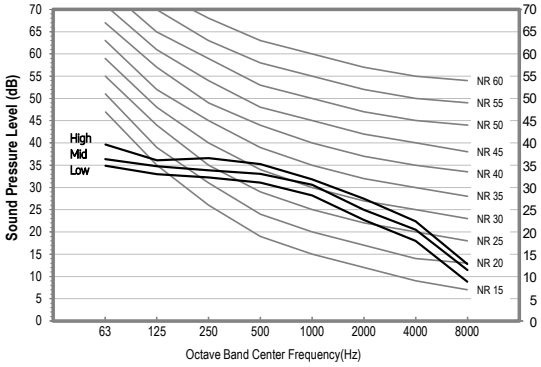
Model	High	Mid	Low
AM056DNCDKG/EU	41	39	36
AM071DNCDKG/EU	37	35	33
AM112DNCDKG/EU	45	41	37
AM140DNCDKG/EU	46	43	38

- NR Curve

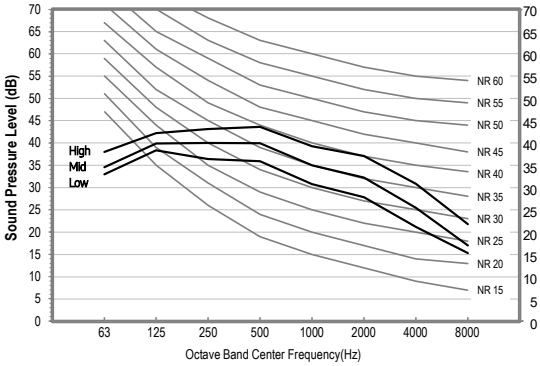
1) AM056DNCDKG/EU



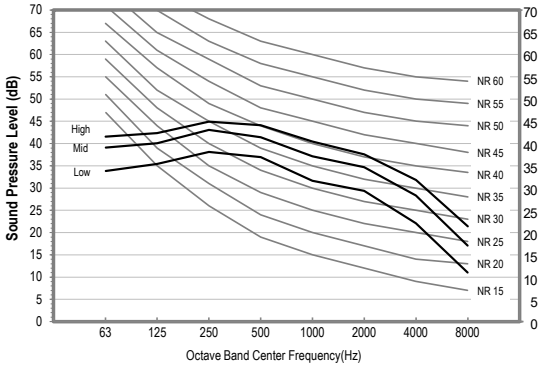
2) AM071DNCDKG/EU



3) AM112DNCDKG/EU



4) AM140DNCDKG/EU



NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - 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

Ceiling

Sound Power level

NOTE

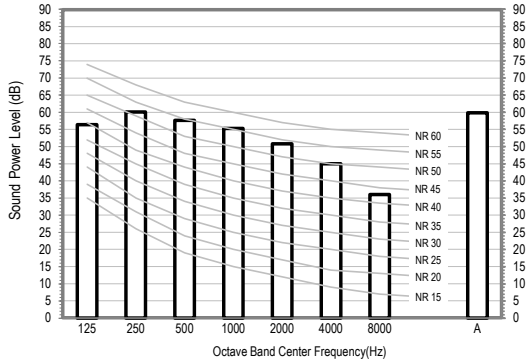
- Specifications may be subject to change without prior notice
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

Unit: dB(A)

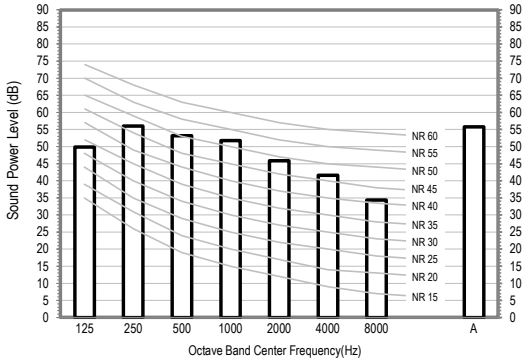
Model	Power
AM056DNCDKG/EU	60
AM071DNCDKG/EU	56
AM112DNCDKG/EU	61
AM140DNCDKG/EU	63

- NR Curve

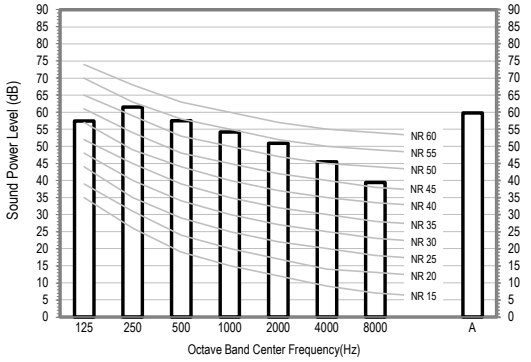
1) AM056DNCDKG/EU



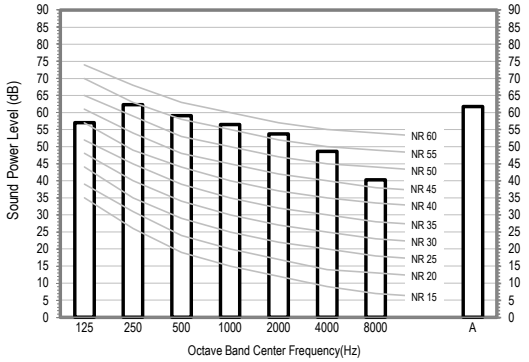
2) AM071DNCDKG/EU



3) AM112DNCDKG/EU



4) AM140DNCDKG/EU

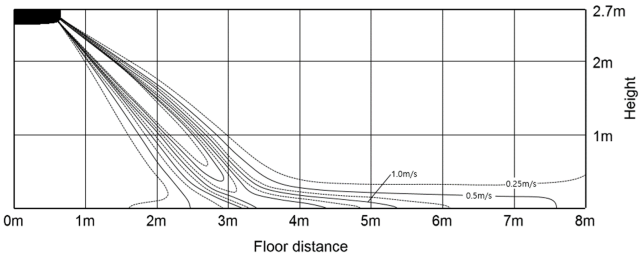


8.Temperature and air flow distribution

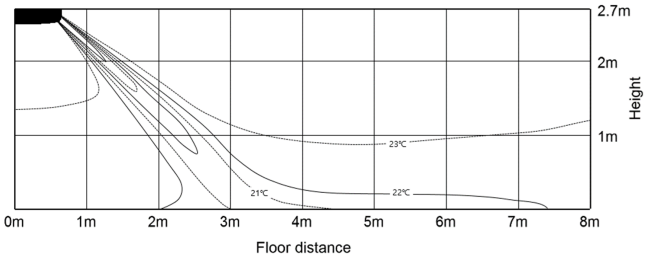
Ceiling

AM056DNCDKG/EU (Ceiling Installation)

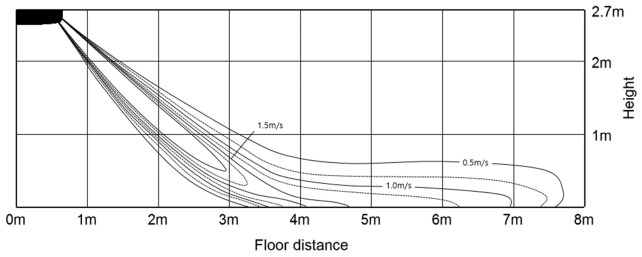
- Cooling Air Velocity distribution
  (Discharge angle : 50 degree)



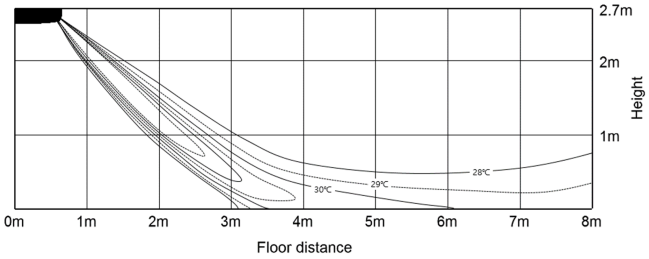
- Cooling temperature distribution
  (Discharge angle : 50 degree)



- Heating Air Velocity distribution
  (Discharge angle : 40 degree)

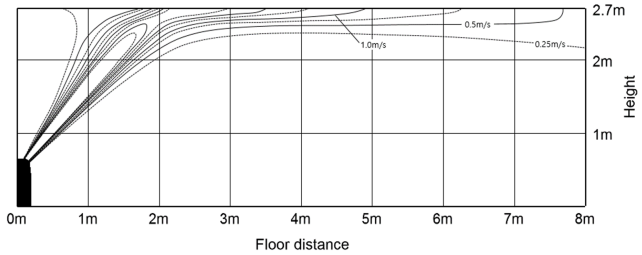


- Heating temperature distribution
  (Discharge angle : 40 degree)

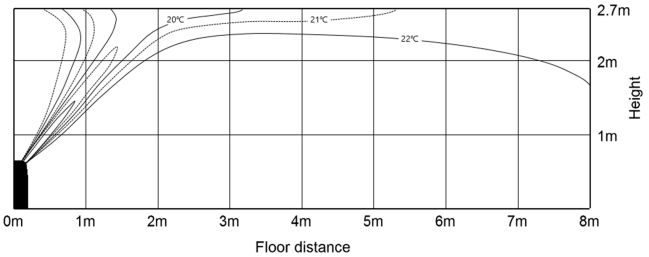


AM056DNCDKG/EU (Floor Installation)

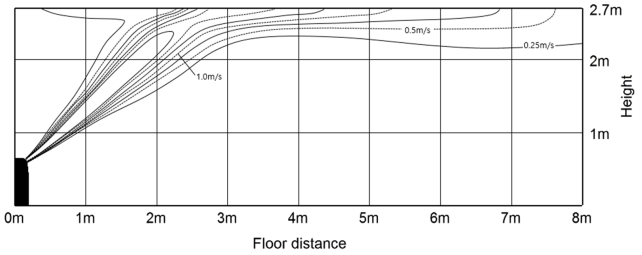
- Cooling Air Velocity distribution
  (Discharge angle : 50 degree)



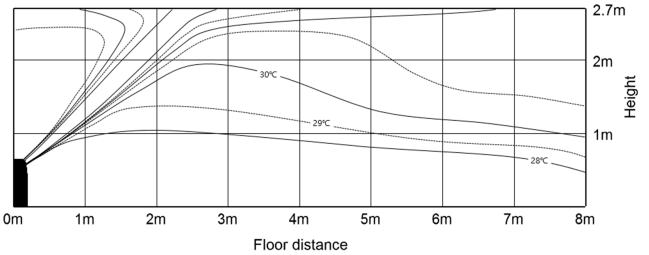
- Cooling temperature distribution
  (Discharge angle : 50 degree)



- Heating Air Velocity distribution
  (Discharge angle : 40 degree)



- Heating temperature distribution
  (Discharge angle : 40 degree)

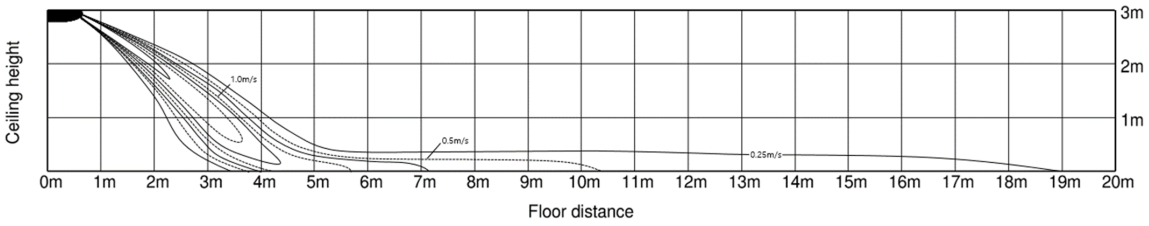


8.Temperature and air flow distribution

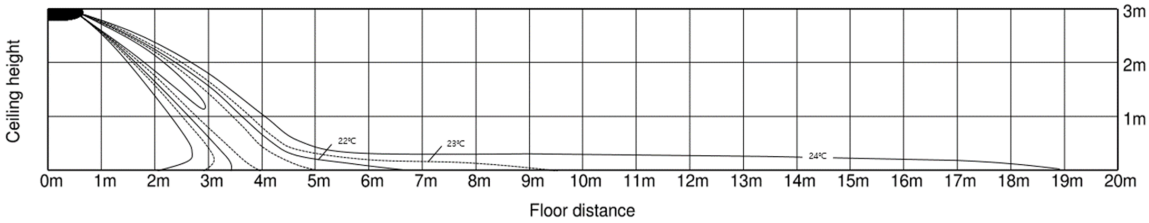
Ceiling

AM071DNCDKG/EU

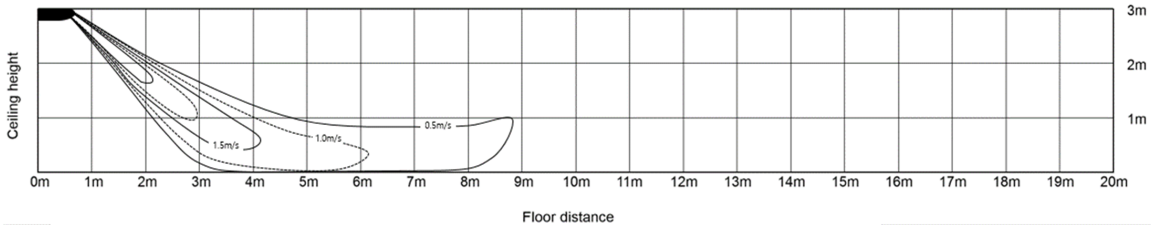
Cooling Air Velocity distribution (Discharge angle : 32 degree)



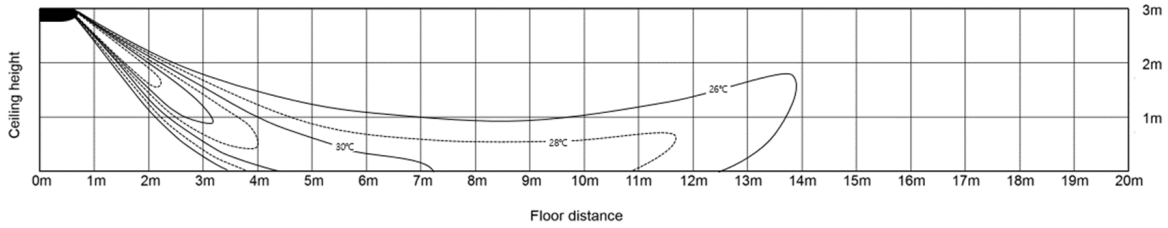
Cooling temperature distribution



Heating Air Velocity distribution (Discharge angle : 43 degree)



Heating temperature distribution

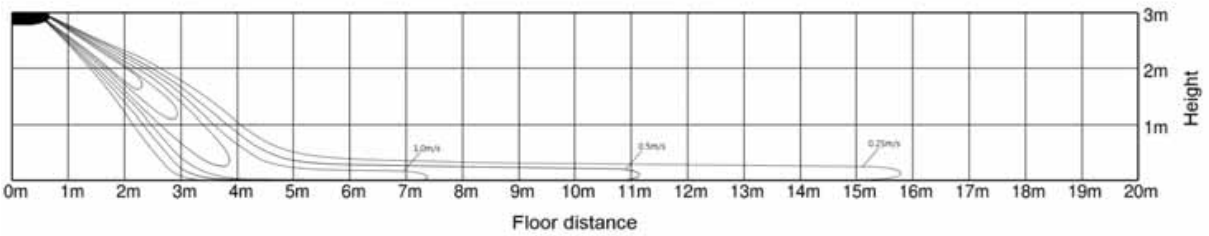


8.Temperature and air flow distribution

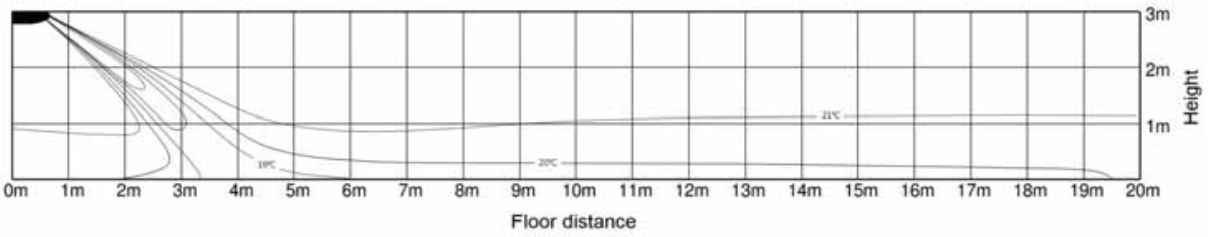
Ceiling

AM112DNCDKG/EU

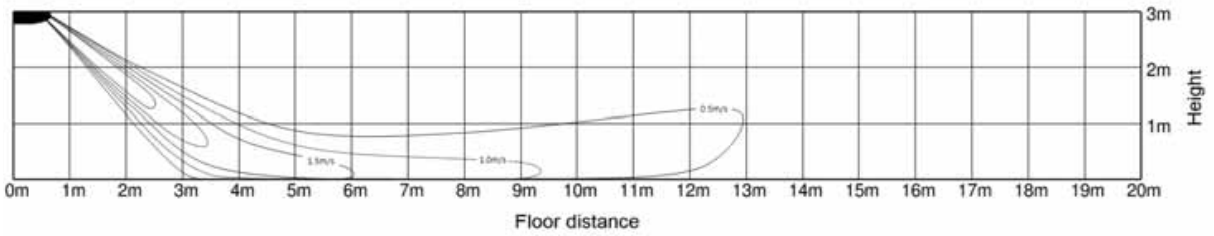
Cooling Air Velocity distribution (Discharge angle : 32 degree)



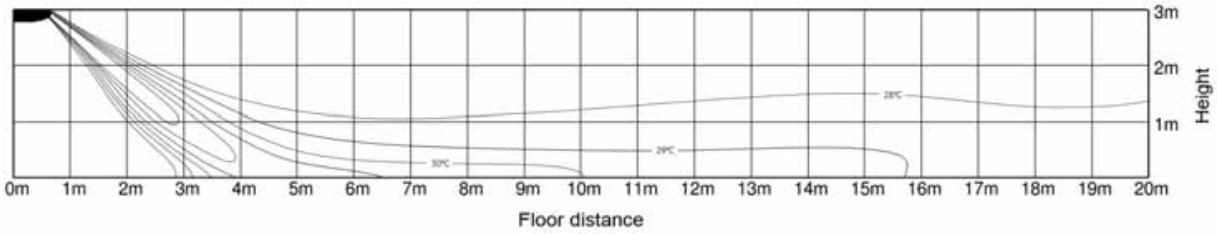
Cooling temperature distribution



Heating Air Velocity distribution (Discharge angle : 43 degree)



Heating temperature distribution

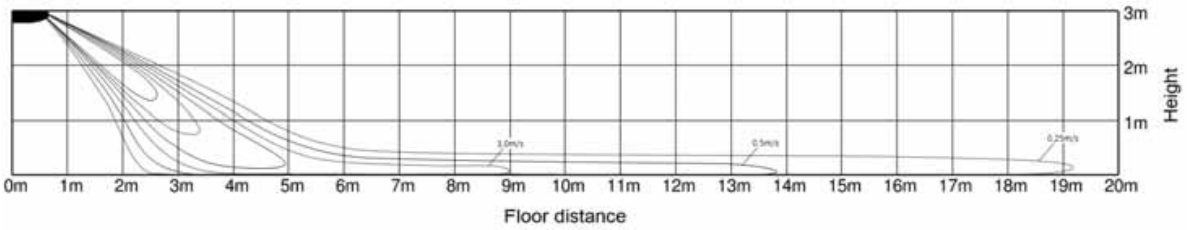


8.Temperature and air flow distribution

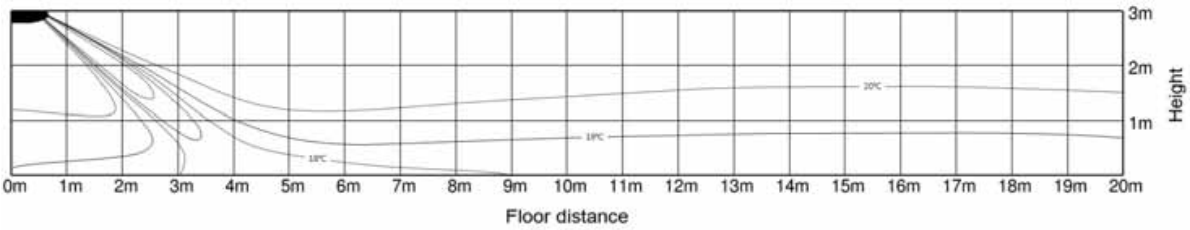
Ceiling

AM140DNCDKG/EU

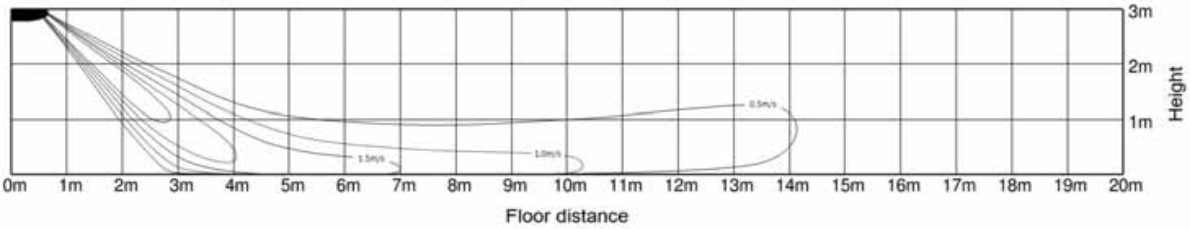
Cooling Air Velocity distribution (Discharge angle : 42 degree)



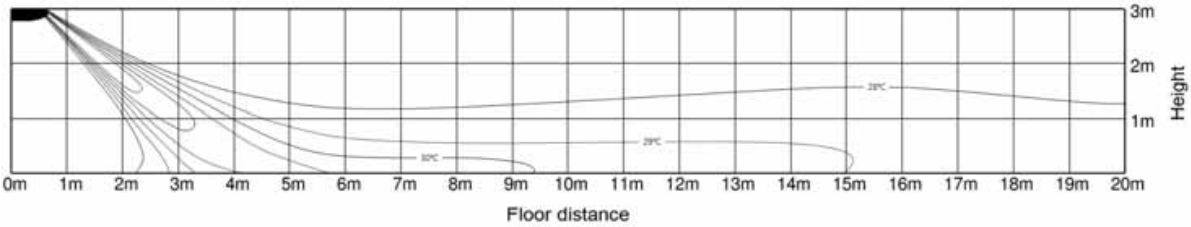
Cooling temperature distribution



Heating Air Velocity distribution (Discharge angle : 53 degree)

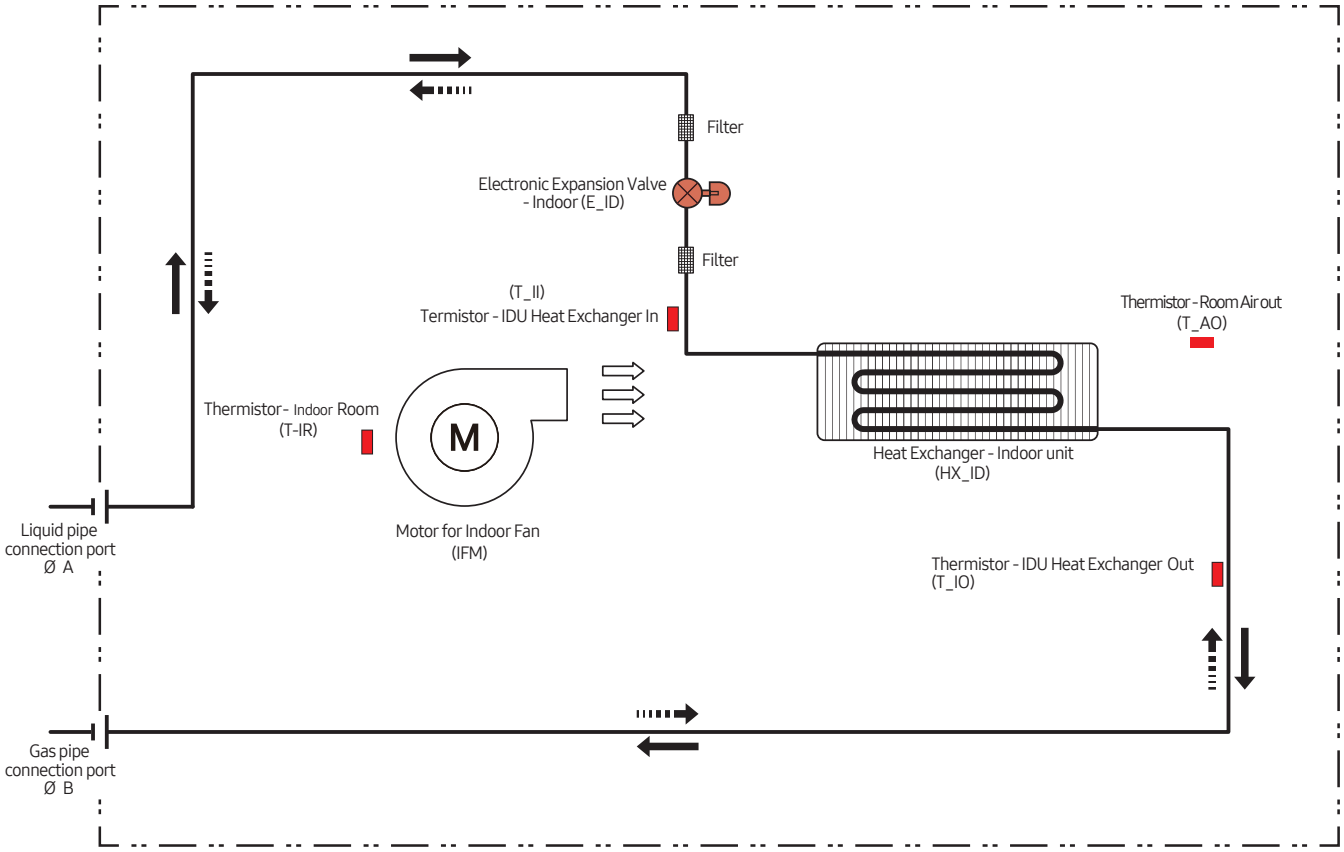


Heating temperature distribution



9. Piping Diagram

Ceiling



Refrigerant flow	
Cooling	Heating
→	⇢

2024.09
Ver. 1.1

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