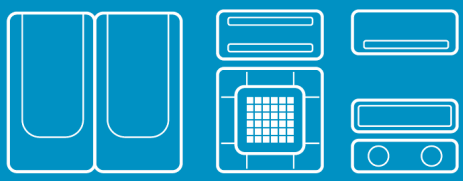
VRF

Technical Data Book

IDU 360 Cassette for EU (R410A/50Hz/HP/HR)



Model : AM***KN4DEH/EU

SAMSUNG

History

Version	Modification	Date	Remark
Ver 1.0	Release 360 Cassette TDB	16.02.05	

Nomenclature

Indoor Units

Model Names

AM	045	K	N	4	D	E	H	/	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	VRF

(2) Capacity

x 1/10 HP (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

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

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
4	4Way Cassette S / 360 Cassette
N	4Way Cassette S(600x600)
L	LSP Duct
M	MSP Duct
H	HSP Duct
T	Neo Forte
Q	Neo Forte(EEV)
C	Ceiling
J	Console
F	Floor Standing
K	ERV Plus
B	Hydro Unit
P	PAC

(6) Feature

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Rating Voltage

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

(8) Mode

B	Heat Pump (R134A)
H	Heat Pump (R410A)

360 Cassette

1 Specifications

360 Cassette

Type				360 Cassette	360 Cassette	360 Cassette	360 Cassette
Model				AM045KN4DEH/EU	AM056KN4DEH/EU	AM071KN4DEH/EU	AM090KN4DEH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	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 (Nominal)	Cooling	W	26.00	30.00	34.00	55.00
		Heating		26.00	30.00	34.00	55.00
	Current Input (Nominal)	Cooling	A	0.18	0.21	0.25	0.42
		Heating		0.18	0.21	0.25	0.42
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	w	65 x 1	65 x 1	65 x 1	65 x 1
	Air Flow Rate	H/M/L (UL)	CMM	14.50 / 13.50 / 12.50	16.00 / 14.50 / 13.50	18.00 / 16.00 / 14.00	22.00 / 18.50 / 16.00
			l/s	241.67 / 225.00 / 208.33	266.67 / 241.67 / 225.00	300.00 / 266.67 / 233.33	366.67 / 308.33 / 266.67
	External Pressure	Min/Std/Max	mmAq	-	-	-	-
			Pa	-	-	-	-
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	9.52	9.52
			Ø, inch	1/4"	1/4"	3/8"	3/8"
	Gas Pipe		Ø, mm	12.70	12.70	15.88	15.88
			Ø, inch	1/2"	1/2"	5/8"	5/8"
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm²	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5
	Transmission Cable		mm²	0.75 - 1.50	0.75 - 1.50	0.75 - 1.50	0.75 - 1.50
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Pressure	High / Mid / Low	dB(A)	33 / 31 / 29	34 / 32 / 29	36 / 33 / 30	40 / 36 / 32
	Power	Cooling		50	51	53	57
Dimension	Net Weight		kg	21.00	21.00	21.00	21.00
	Shipping Weight		kg	25.00	25.00	25.00	25.00
	Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
	Shipping Dimensions (WxHxD)		mm	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990
Panel Size	Panel model		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	Panel Net Weight		kg	3.60	3.60	3.60	3.60
	Shipping Weight		kg	6.00	6.00	6.00	6.00
	Net Dimensions (WxHxD)		mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000
	Shipping Dimensions (WxHxD)		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
Additional Accessories	Drain Pump	Drain Pump	- / Model	-	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-	-
	Air Filter		-	-	-	-	-

* Specifications may be subject to change without prior notice.
1) Nominal cooling capacities are based on;
- Indoor temperature : 27°C DB, 19°C WB
- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
2) Nominal heating capacities are based on;
- Indoor temperature : 20°C DB, 15°C WB
- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
4) These products contain R410A which is fluorinated greenhouse gas.
5) Panel type is option. (Ceiling Type/Open Type)
About each detail spec, please refer to Dimensional Drawing pages.

1 Specifications

360 Cassette

Type				360 Cassette	360 Cassette	360 Cassette
Model				AM112KN4DEH/EU	AM128KN4DEH/EU	AM140KN4DEH/EU
Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	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 (Nominal)	Cooling	W	53.00	77.00	91.00
		Heating		53.00	77.00	91.00
	Current Input (Nominal)	Cooling	A	0.41	0.62	0.75
		Heating		0.41	0.62	0.75
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	w	97 x 1	97 x 1	97 x 1
	Air Flow Rate	H/M/L (UL)	CMM	25.50 / 21.00 / 17.50	29.50 / 24.00 / 19.00	31.50 / 26.50 / 21.00
			l/s	425.00 / 350.00 / 291.67	491.67 / 400.00 / 316.67	525.00 / 441.67 / 350.00
	External Pressure	Min/Std/Max	mmAq	-	-	-
			Pa	-	-	-
Piping Connections	Liquid Pipe		Ø, mm	9.52	9.52	9.52
			Ø, inch	3/8"	3/8"	3/8"
	Gas Pipe		Ø, mm	15.88	15.88	15.88
			Ø, inch	5/8"	5/8"	5/8"
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Field Wiring	Power Source Wire		mm^2	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5
	Transmission Cable		mm^2	0.75 - 1.50	0.75 - 1.50	0.75 - 1.50
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Pressure	High / Mid / Low	dB(A)	40 / 36 / 32	42 / 38 / 33	44 / 40 / 35
	Power	Cooling		58	60	61
Dimension	Net Weight		kg	24.00	24.00	24.00
	Shipping Weight		kg	29.00	29.00	29.00
	Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
	Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
Panel Size	Panel model		-	PC4NUDMAN	PC4NUDMAN	PC4NUDMAN
	Panel Net Weight		kg	3.60	3.60	3.60
	Shipping Weight		kg	6.00	6.00	6.00
	Net Dimensions (WxHxD)		mm	1,000 x 66 x 1,000	1,000 x 66 x 1,000	1,000 x 66 x 1,000
	Shipping Dimensions (WxHxD)		mm	1,093 x 85 x 1,083	1,093 x 85 x 1,083	1,093 x 85 x 1,083
Additional Accessories	Drain Pump	Drain Pump	- / Model	-	-	-
		Max. lifting Height / Displacement	mm/liter/h	-	-	-
	Air Filter		-	-	-	-

* Specifications may be subject to change without prior notice.
1) Nominal cooling capacities are based on;
- Indoor temperature : 27°C DB, 19°C WB
- Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
2) Nominal heating capacities are based on;
- Indoor temperature : 20°C DB, 15°C WB
- Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 5m, Level differences : 0m
3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
4) These products contain R410A which is fluorinated greenhouse gas.
5) Panel type is option. (Ceiling Type/Open Type)
About each detail spec, please refer to Dimensional Drawing pages.

2 Capacity table

360 Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (DB)	Indoor temperature													
		20 (ºC, DB) 14 (ºC, WB)		23 (ºC, DB) 16 (ºC, WB)		26 (ºC, DB) 18 (ºC, WB)		27 (ºC, DB) 19 (ºC, WB)		28 (ºC, DB) 20 (ºC, WB)		30 (ºC, DB) 22 (ºC, WB)		32 (ºC, DB) 24 (ºC, WB)	
		TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)
4.50	10.0	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.40	2.90
	12.0	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.40	2.90
	14.0	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.70	3.10	5.00	3.10	5.40	2.90
	16.0	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
	18.0	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
	20.0	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
	21.0	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
	23.0	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
	25.0	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
	27.0	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
	29.0	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
	31.0	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
	33.0	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
	35.0	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
	37.0	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.60	3.00	4.90	3.00	5.20	2.70
	39.0	3.10	2.70	3.70	2.80	4.20	3.00	4.50	3.10	4.60	3.00	4.90	3.00	5.10	2.60
5.60	10.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.30	3.90	6.70	3.70
	12.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.30	3.90	6.70	3.70
	14.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.70	3.70
	16.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	18.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	20.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	21.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	23.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	25.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	27.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	29.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	31.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	33.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	35.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.60
	37.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.50
	39.0	3.90	3.20	4.60	3.50	5.30	3.90	5.60	3.90	5.80	3.90	6.20	3.80	6.60	3.40
7.10	10.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	8.00	5.10	8.50	4.80
	12.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.50	4.80
	14.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.40	5.00	7.90	5.00	8.50	4.80
	16.0	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
	18.0	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
	20.0	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
	21.0	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
	23.0	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
	25.0	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
	27.0	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
	29.0	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
	31.0	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
	33.0	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
	35.0	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
	37.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.30	4.90	7.80	4.90	8.20	4.70
	39.0	4.90	4.00	5.80	4.50	6.70	4.80	7.10	5.00	7.30	4.90	7.70	4.80	8.10	4.60
9.00	10.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.40	6.30	10.10	6.30	10.80	6.30
	12.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.40	6.30	10.10	6.30	10.80	6.30
	14.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.70	6.20
	16.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.70	6.20
	18.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	20.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	21.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	23.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	25.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	27.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	29.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	31.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	33.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	35.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	10.00	6.20	10.60	6.10
	37.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.30	9.30	6.30	9.90	6.10	10.40	6.00
	39.0	6.20	5.20	7.30	5.70	8.40	6.30	9.00	6.40	9.20	6.20	9.70	6.00	10.20	5.90
11.20	10.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.40	7.90
	12.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.40	7.90
	14.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.30	7.80
	16.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.50	7.90	13.30	7.80
	18.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	20.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	21.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	23.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	25.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	27.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	29.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	31.0	7.70	6.40	9.10	7.10	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	33.0	7.70	6.30	9.10	7.00	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	35.0	7.70	6.30	9.10	7.00	10.50	7.80	11.20	7.90	11.60	7.90	12.40	7.90	13.20	7.70
	37.0	7.70	6.30	9.10	7.00	10.50	7.80	11.20	7.90	11.60	7.90	12.30	7.80	13.00	7.60
	39.0	7.70	6.30	9.10	7.00	10.50	7.80	11.20	8.00	11.50	7.80	12.10	7.70	12.70	7.50

2 Capacity table

360 Cassette

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (DB)	Indoor temperature													
		20 (ºC, DB) 14 (ºC, WB)		23 (ºC, DB) 16 (ºC, WB)		26 (ºC, DB) 18 (ºC, WB)		27 (ºC, DB) 19 (ºC, WB)		28 (ºC, DB) 20 (ºC, WB)		30 (ºC, DB) 22 (ºC, WB)		32 (ºC, DB) 24 (ºC, WB)	
		TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)	TC(kW)	SHC(kW)
12.80	10.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.30	9.10	15.40	9.10
	12.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.30	9.10	15.30	9.00
	14.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.30	9.10	15.30	9.00
	16.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.20	8.90
	18.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	20.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	21.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	23.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	25.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	27.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	29.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	31.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	33.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	35.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.30	9.10	14.20	9.00	15.10	8.80
	37.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.10	13.20	9.00	14.00	8.90	14.90	8.70
	39.0	8.80	7.30	10.40	8.10	12.00	9.00	12.80	9.20	13.10	8.90	13.80	8.80	14.50	8.60
14.00	10.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.60	9.60	15.70	9.50	16.80	9.70
	12.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.60	9.60	16.70	9.60
	14.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.60	9.60	16.70	9.60
	16.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.60	9.60	16.60	9.50
	18.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.60	9.50
	20.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	21.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	23.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	25.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	27.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	29.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	31.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	33.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	35.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.50	9.50	16.50	9.40
	37.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.50	9.60	15.40	9.40	16.30	9.20
	39.0	9.70	7.70	11.40	8.50	13.10	9.40	14.00	9.60	14.40	9.40	15.10	9.30	15.90	9.00

2 Capacity table

360 Cassette

Heating

TC : Total Capacity

Model	Outdoor Air Temp. (ºC)		Indoor temperature				
			16 (ºC, DB)	18 (ºC, DB)	20 (ºC, DB)	22 (ºC, DB)	24 (ºC, DB)
	DB	WB	TC(kW)	TC(kW)	TC(kW)	TC(kW)	TC(kW)
4.50	-20.0	-21.0	3.10	3.10	2.90	2.90	2.90
	-17.0	-18.0	3.20	3.20	3.10	3.00	3.00
	-15.0	-16.0	3.30	3.30	3.20	3.10	3.00
	-12.0	-13.0	3.50	3.40	3.40	3.30	3.20
	-10.0	-11.0	3.70	3.60	3.60	3.50	3.50
	-7.0	-8.0	3.90	3.80	3.80	3.70	3.60
	-5.0	-6.0	4.10	4.00	4.00	3.90	3.70
	-3.0	-4.0	4.30	4.20	4.20	4.00	3.90
	0.0	-1.0	4.50	4.40	4.40	4.20	4.00
	3.0	2.2	4.70	4.70	4.60	4.40	4.20
	5.0	4.1	4.90	4.90	4.80	4.50	4.20
	7.0	6.0	5.10	5.10	5.00	4.60	4.20
	9.0	7.9	5.30	5.20	5.00	4.60	4.20
	11.0	9.8	5.50	5.20	5.00	4.60	4.20
	13.0	12.0	5.60	5.30	5.00	4.60	4.20
	15.0	14.0	5.80	5.40	5.00	4.60	4.20
5.60	-20.0	-21.0	3.90	3.80	3.80	3.70	3.70
	-17.0	-18.0	4.00	4.00	3.90	3.80	3.80
	-15.0	-16.0	4.20	4.10	4.00	3.90	3.80
	-12.0	-13.0	4.40	4.30	4.20	4.20	4.10
	-10.0	-11.0	4.60	4.60	4.50	4.40	4.40
	-7.0	-8.0	4.90	4.80	4.80	4.70	4.50
	-5.0	-6.0	5.20	5.10	5.00	4.90	4.70
	-3.0	-4.0	5.40	5.30	5.30	5.10	4.90
	0.0	-1.0	5.70	5.60	5.50	5.30	5.00
	3.0	2.2	5.90	5.90	5.80	5.60	5.30
	5.0	4.1	6.20	6.10	6.00	5.70	5.30
	7.0	6.0	6.50	6.40	6.30	5.80	5.30
	9.0	7.9	6.70	6.50	6.30	5.80	5.30
	11.0	9.8	6.90	6.60	6.30	5.80	5.30
	13.0	12.0	7.10	6.70	6.30	5.80	5.30
	15.0	14.0	7.30	6.80	6.30	5.80	5.30
7.10	-20.0	-21.0	4.90	4.90	4.80	4.70	4.70
	-17.0	-18.0	5.10	5.00	4.90	4.80	4.80
	-15.0	-16.0	5.30	5.20	5.10	4.90	4.80
	-12.0	-13.0	5.60	5.50	5.40	5.30	5.20
	-10.0	-11.0	5.90	5.80	5.70	5.60	5.60
	-7.0	-8.0	6.20	6.10	6.00	5.90	5.80
	-5.0	-6.0	6.50	6.50	6.40	6.20	6.00
	-3.0	-4.0	6.90	6.80	6.70	6.40	6.20
	0.0	-1.0	7.20	7.10	7.00	6.70	6.40
	3.0	2.2	7.60	7.50	7.30	7.10	6.80
	5.0	4.1	7.90	7.80	7.70	7.20	6.80
	7.0	6.0	8.20	8.10	8.00	7.40	6.80
	9.0	7.9	8.50	8.20	8.00	7.40	6.80
	11.0	9.8	8.70	8.40	8.00	7.40	6.80
	13.0	12.0	9.00	8.50	8.00	7.40	6.80
	15.0	14.0	9.20	8.60	8.00	7.40	6.80
9.00	-20.0	-21.0	6.00	6.00	5.90	5.80	5.80
	-17.0	-18.0	6.30	6.30	6.10	6.00	5.90
	-15.0	-16.0	6.70	6.50	6.30	6.10	6.00
	-12.0	-13.0	7.00	6.90	6.70	6.60	6.50
	-10.0	-11.0	7.30	7.20	7.10	7.00	7.00
	-7.0	-8.0	7.80	7.70	7.60	7.40	7.20
	-5.0	-6.0	8.20	8.10	8.00	7.70	7.50
	-3.0	-4.0	8.60	8.50	8.40	8.10	7.70
	0.0	-1.0	9.00	8.90	8.80	8.40	8.00
	3.0	2.2	9.40	9.30	9.20	8.80	8.40
	5.0	4.1	9.90	9.70	9.60	9.00	8.40
	7.0	6.0	10.30	10.10	10.00	9.20	8.40
	9.0	7.9	10.60	10.30	10.00	9.20	8.40
	11.0	9.8	10.90	10.50	10.00	9.20	8.40
	13.0	12.0	11.20	10.60	10.00	9.20	8.40
	15.0	14.0	11.60	10.80	10.00	9.20	8.40
11.20	-20.0	-21.0	7.40	7.40	7.30	7.30	7.30
	-17.0	-18.0	8.00	7.80	7.60	7.50	7.40
	-15.0	-16.0	8.40	8.10	7.90	7.70	7.50
	-12.0	-13.0	8.80	8.60	8.40	8.20	8.10
	-10.0	-11.0	9.20	9.00	8.90	8.80	8.70
	-7.0	-8.0	9.70	9.60	9.40	9.20	9.00
	-5.0	-6.0	10.20	10.10	9.90	9.60	9.30
	-3.0	-4.0	10.70	10.60	10.50	10.10	9.70
	0.0	-1.0	11.30	11.10	11.10	10.50	10.00
	3.0	2.2	11.80	11.60	11.50	11.00	10.60
	5.0	4.1	12.30	12.20	12.00	11.30	10.60
	7.0	6.0	12.90	12.70	12.50	11.50	10.60
	9.0	7.9	13.30	12.90	12.50	11.50	10.60
	11.0	9.8	13.70	13.10	12.50	11.50	10.60
	13.0	12.0	14.00	13.30	12.50	11.50	10.60
	15.0	14.0	14.40	13.50	12.50	11.50	10.60

2 Capacity table

360 Cassette

Heating

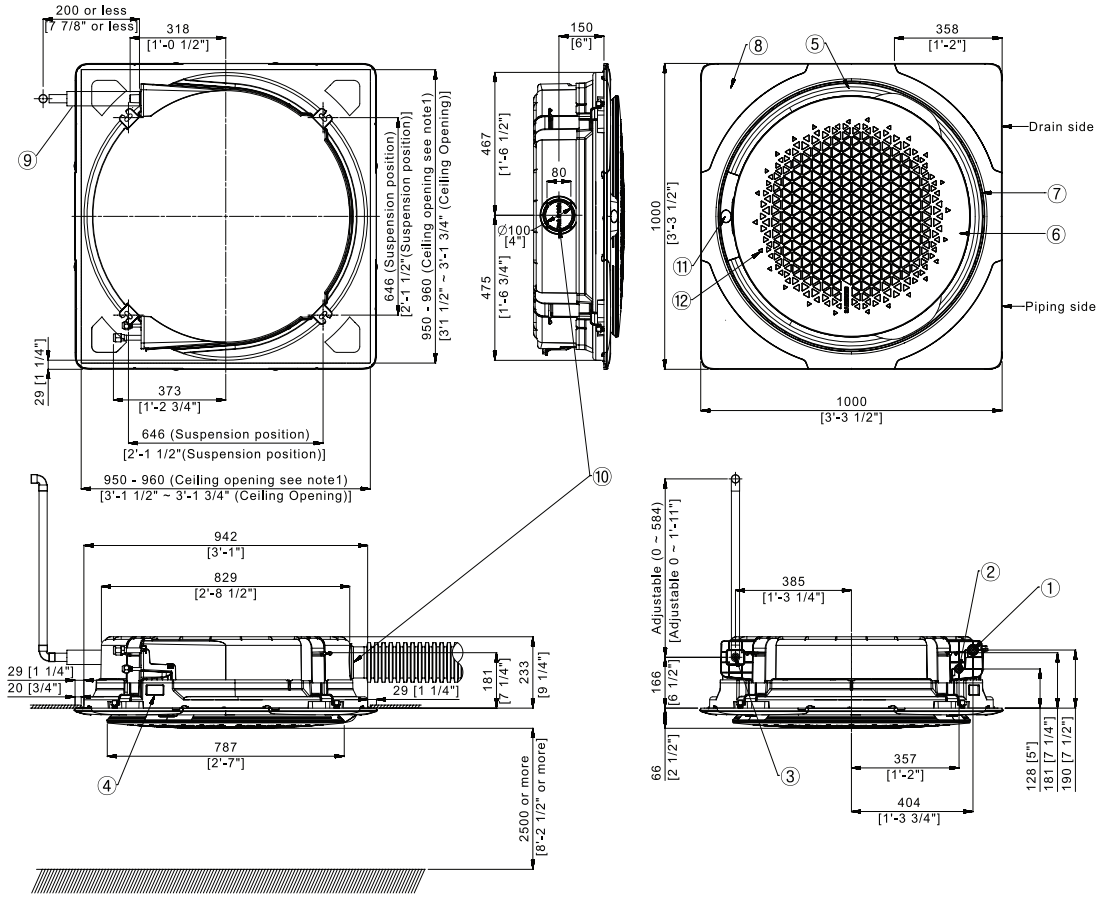
TC : Total Capacity

Model	Outdoor Air Temp. (ºC)		Indoor temperature				
			16 (ºC, DB)	18 (ºC, DB)	20 (ºC, DB)	22 (ºC, DB)	24 (ºC, DB)
	DB	WB	TC(kW)	TC(kW)	TC(kW)	TC(kW)	TC(kW)
12.80	-20.0	-21.0	8.10	8.10	8.00	8.00	8.00
	-17.0	-18.0	8.70	8.50	8.40	8.30	8.10
	-15.0	-16.0	9.20	9.00	8.70	8.50	8.20
	-12.0	-13.0	9.70	9.50	9.30	9.10	8.90
	-10.0	-11.0	10.10	10.00	9.90	9.70	9.60
	-7.0	-8.0	10.70	10.60	10.40	10.20	10.00
	-5.0	-6.0	11.30	11.10	11.00	10.70	10.30
	-3.0	-4.0	11.90	11.70	11.50	11.10	10.70
	0.0	-1.0	12.40	12.30	12.10	11.60	11.00
	3.0	2.2	13.00	12.90	12.70	12.20	11.70
	5.0	4.1	13.60	13.40	13.20	12.40	11.70
	7.0	6.0	14.20	14.00	13.80	12.70	11.70
	9.0	7.9	14.60	14.20	13.80	12.70	11.70
	11.0	9.8	15.10	14.40	13.80	12.70	11.70
	13.0	12.0	15.50	14.70	13.80	12.70	11.70
	15.0	14.0	15.90	14.90	13.80	12.70	11.70
14.00	-20.0	-21.0	9.50	9.50	9.40	9.40	9.30
	-17.0	-18.0	10.00	9.90	9.60	9.60	9.40
	-15.0	-16.0	10.70	10.40	10.10	9.80	9.50
	-12.0	-13.0	11.20	11.00	10.80	10.60	10.30
	-10.0	-11.0	11.70	11.60	11.40	11.30	11.10
	-7.0	-8.0	12.40	12.20	12.10	11.80	11.50
	-5.0	-6.0	13.10	12.90	12.70	12.30	12.00
	-3.0	-4.0	13.80	13.60	13.40	12.90	12.40
	0.0	-1.0	14.40	14.20	14.00	13.40	12.80
	3.0	2.2	15.10	14.90	14.70	14.10	13.50
	5.0	4.1	15.80	15.60	15.30	14.40	13.50
	7.0	6.0	16.50	16.20	16.00	14.80	13.50
	9.0	7.9	17.00	16.50	16.00	14.80	13.50
	11.0	9.8	17.50	16.70	16.00	14.80	13.50
	13.0	12.0	18.00	17.00	16.00	14.80	13.50
	15.0	14.0	18.50	17.20	16.00	14.80	13.50

3 Dimensional drawing

360 Cassette

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU



Note

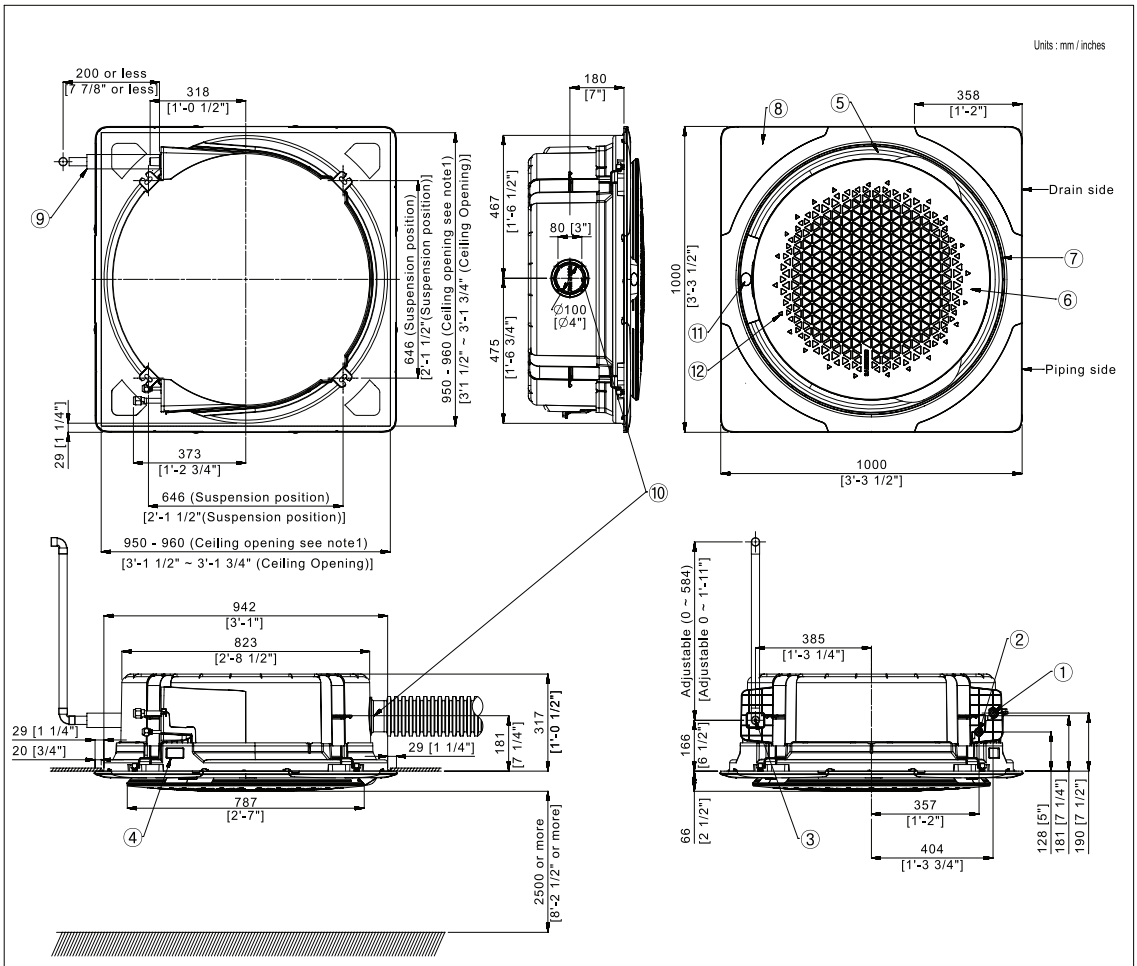
1. Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8"].
2. When the conditions exceed 30℃[86˚F] and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Ceiling type panel model code : PC4NUDMAN

Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

3 Dimensional drawing

360 Cassette

AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU



Note

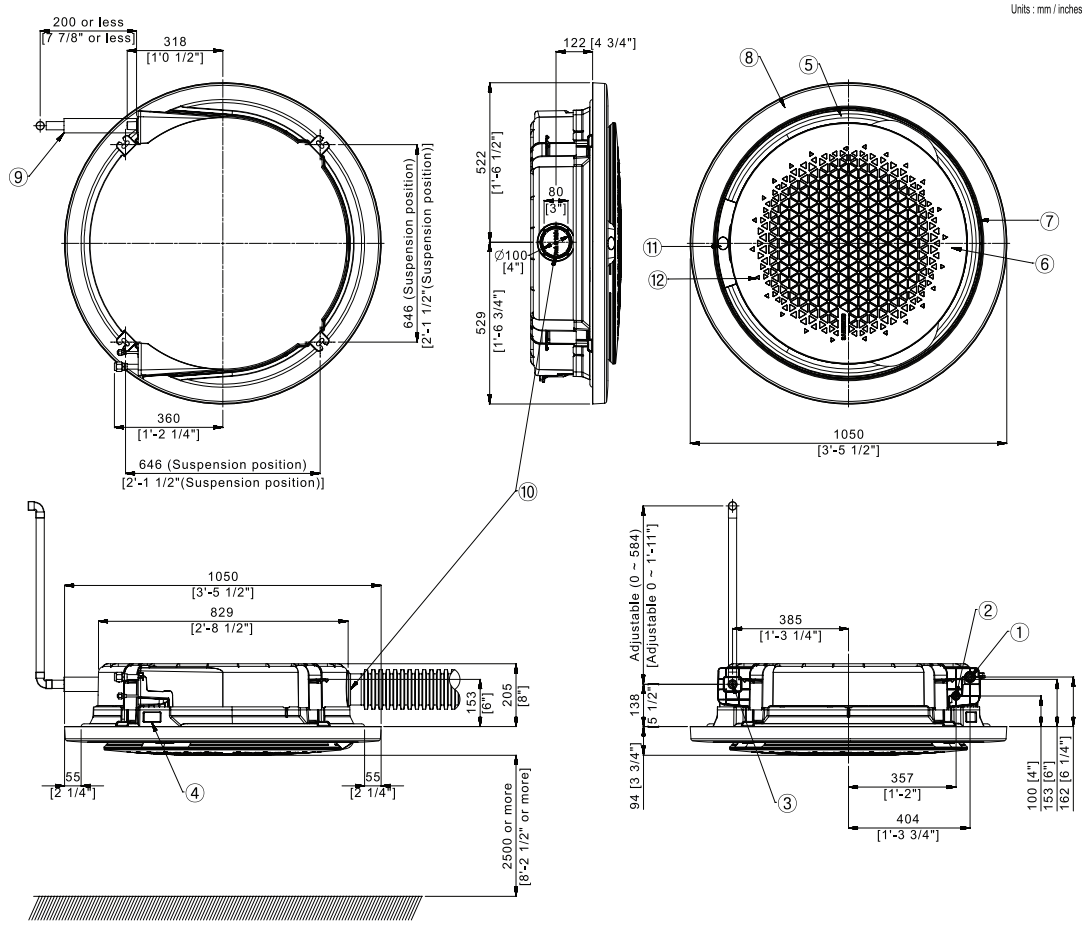
1. Make sure the spacing between the ceiling and the cassette is no more than 29mm[1 1/4"]. Max ceiling opening : 960mm[3'-1 3/4"]
2. When the conditions exceed 30℃ and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Ceiling type panel model code : PC4NUDMAN

Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Corner decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

3 Dimensional drawing

360 Cassette

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU



Note

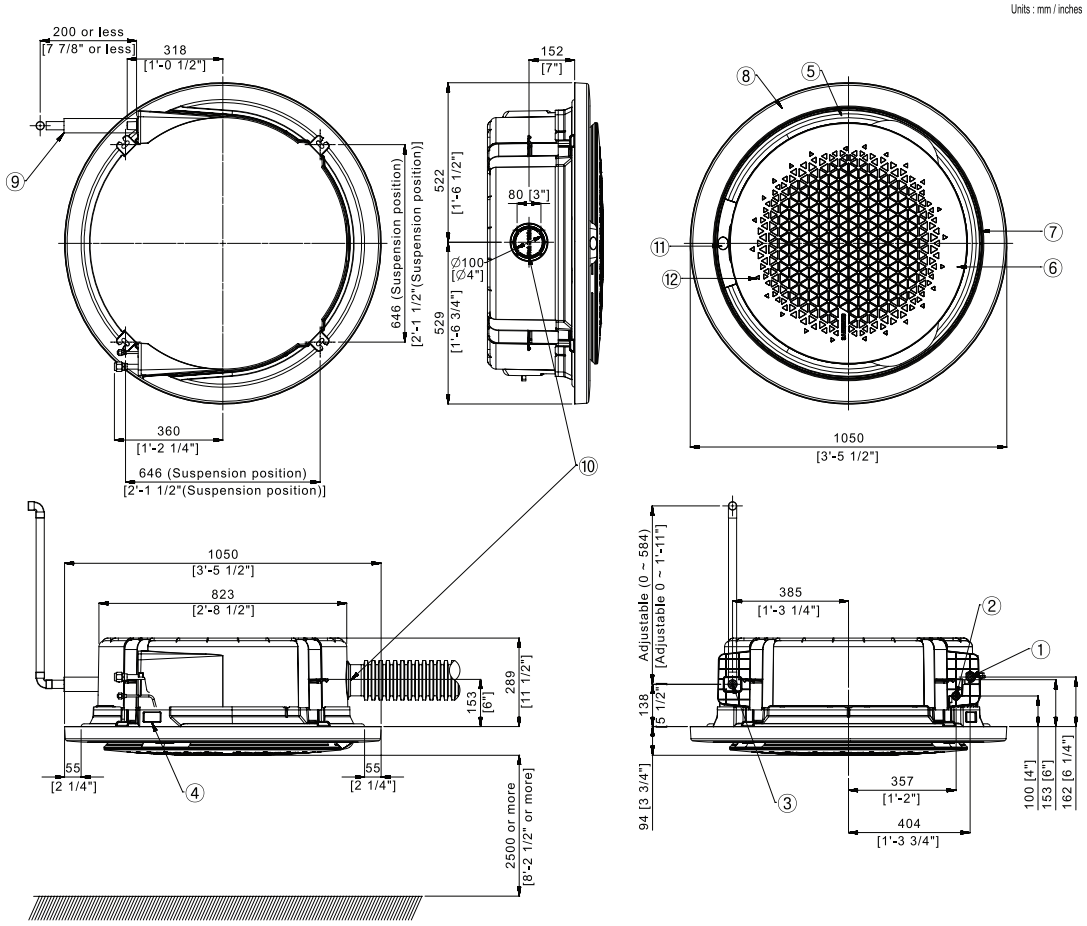
1. Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8"].
2. When the conditions exceed 30℃[86˚F] and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Open type panel model code : PC4NUNMAN

Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

3 Dimensional drawing

360 Cassette

AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU



Note

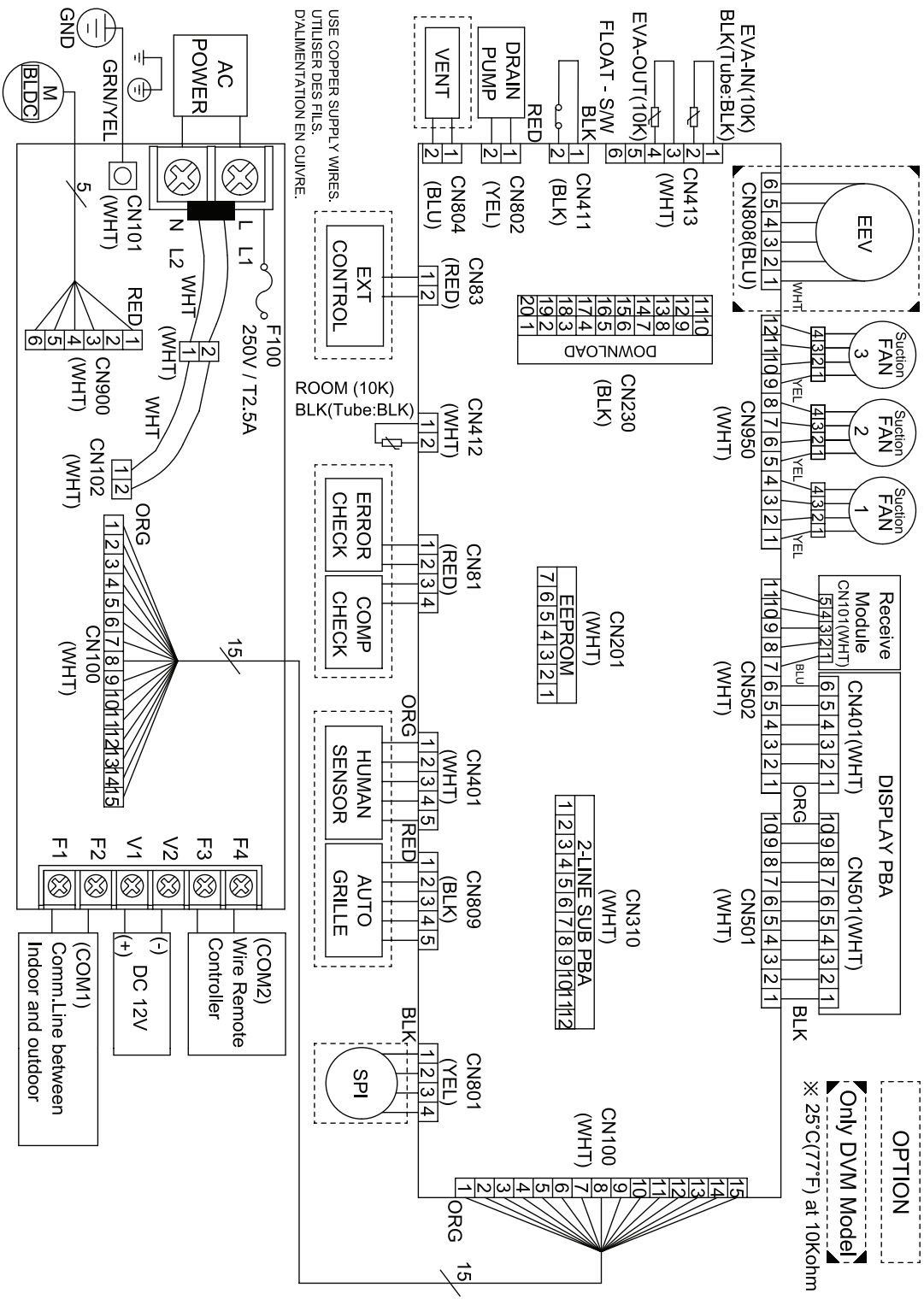
1. Make sure the spacing between the ceiling and the cassette is no more than 10mm[3/8"].
2. When the conditions exceed 30℃[86˚F] and RH 80% in the ceiling or fresh air is inducted into the ceiling, and additional insulation is required (polyethylene foam, thickness 10mm[3/8"] or more)
3. Open type panel model code : PC4NUNMAN

Table of descriptions			
1	Refrigerant gas pipe	7	Suction rim for Booster fan
2	Refrigerant liquid pipe	8	Decoration cover
3	Condensate drain	9	Drain hose
4	Power & Comm. wiring conduits	10	Fresh air intake knock out hole
5	Air discharge opening	11	Display window
6	Air suction grille	12	Infrared receiver

4 Electrical wiring diagram

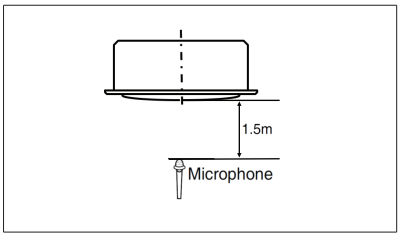
360 Cassette

AM045KN4DEH/EU, AM056KN4DEH/EU, AM071KN4DEH/EU, AM090KN4DEH/EU, AM112KN4DEH/EU, AM128KN4DEH/EU, AM140KN4DEH/EU



5 Sound pressure level

360 Cassette



Unit: dB(A)

Model	High	Low
AM045KN4DEH/EU	33.0	29.0
AM056KN4DEH/EU	34.0	29.0
AM071KN4DEH/EU	36.0	30.0
AM090KN4DEH/EU	40.0	32.0

Note

* Specifications may be subject to change without prior notice

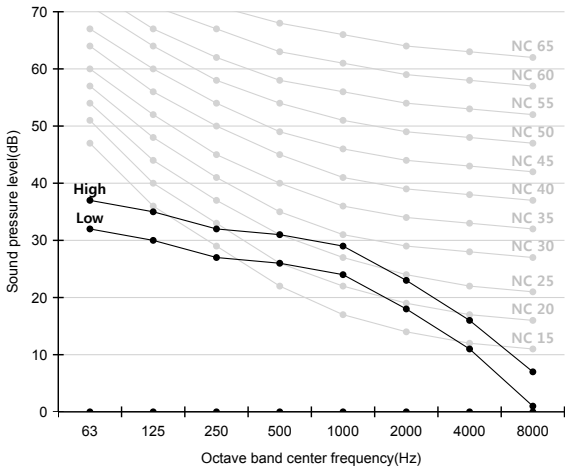
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room

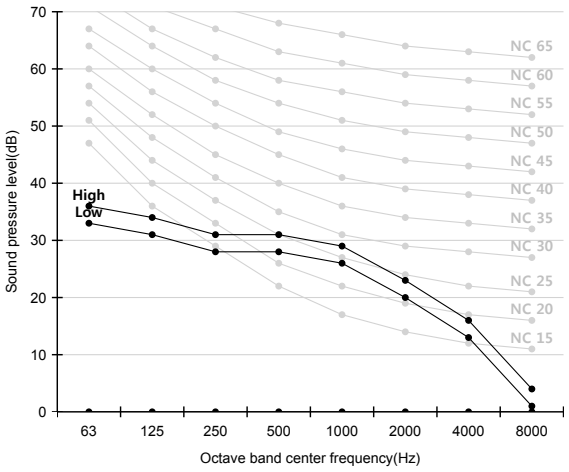
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

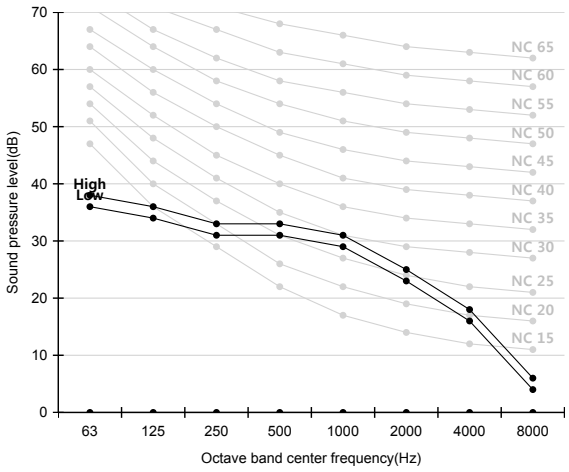
1) AM045KN4DEH/EU



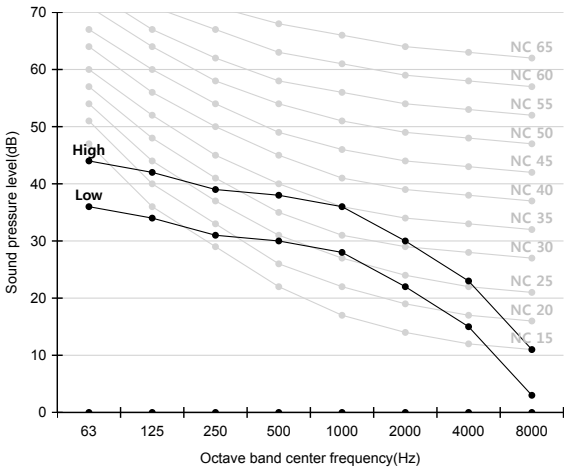
2) AM056KN4DEH/EU



3) AM071KN4DEH/EU

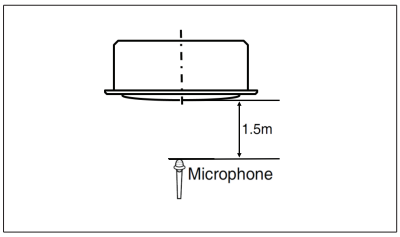


4) AM090KN4DEH/EU



5 Sound pressure level

360 Cassette



Unit: dB(A)

Model	High	Low
AM112KN4DEH/EU	40.0	32.0
AM128KN4DEH/EU	42.0	33.0
AM140KN4DEH/EU	44.0	35.0

Note

* Specifications may be subject to change without prior notice

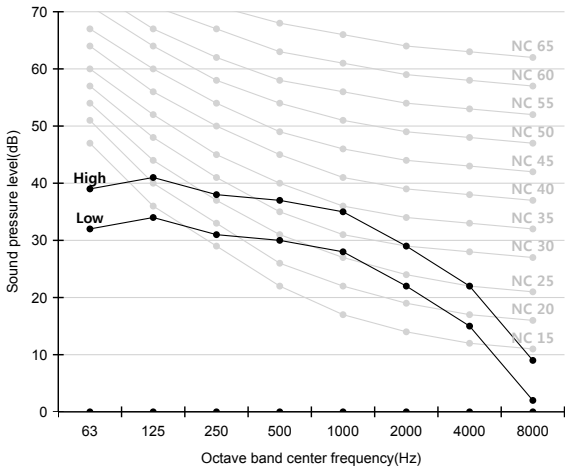
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room

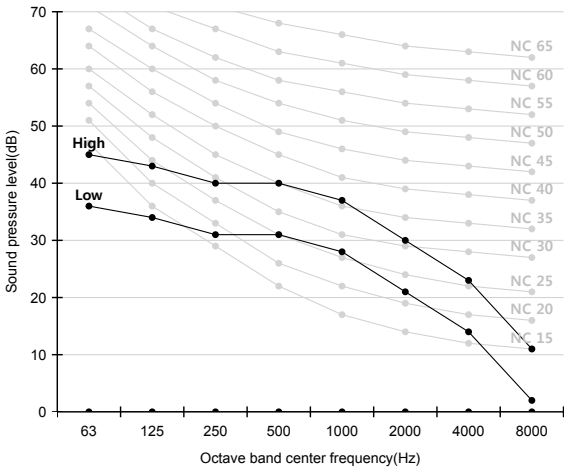
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

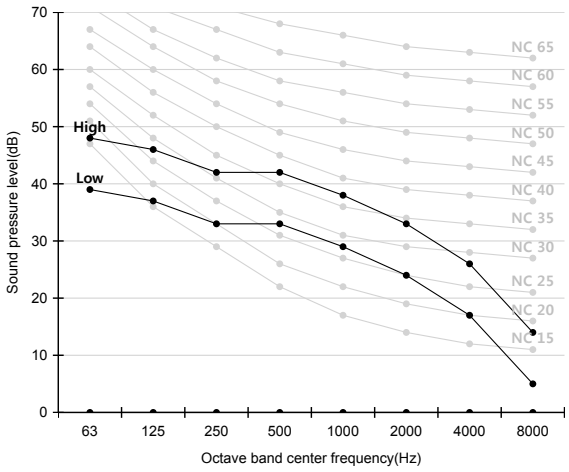
1) AM112KN4DEH/EU



2) AM128KN4DEH/EU



3) AM140KN4DEH/EU



6 Sound power level

360 Cassette

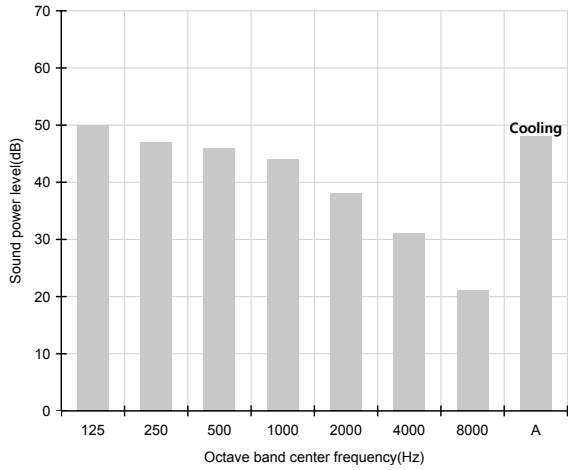
Note

* Specifications may be subject to change
  1) dBA = A-weighted sound power level.
  2) Reference power : 1pW.
  3) Measured according to ISO 3741.

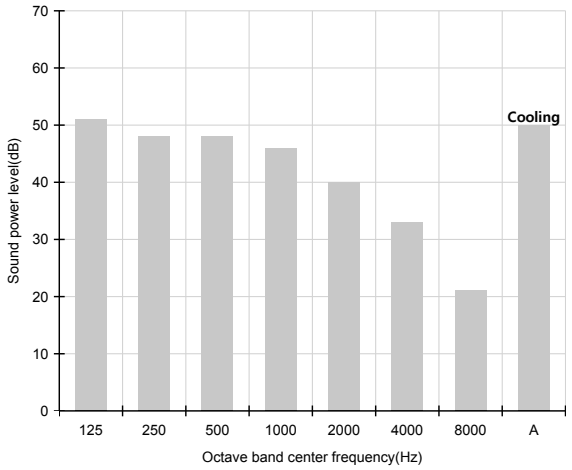
Unit: dB(A)

Model	Power
AM045KN4DEH/EU	50
AM056KN4DEH/EU	51
AM071KN4DEH/EU	53
AM090KN4DEH/EU	57

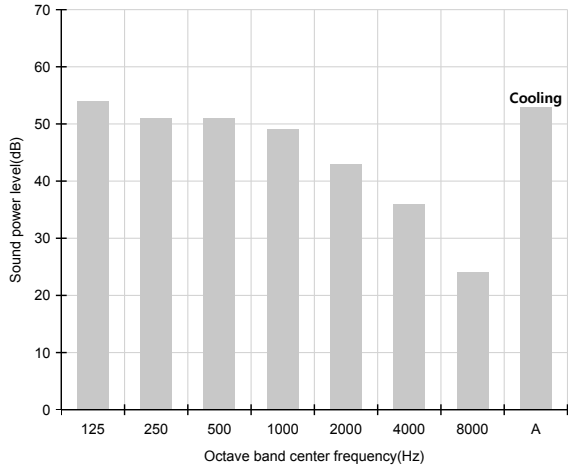
1)AM045KN4DEH/EU



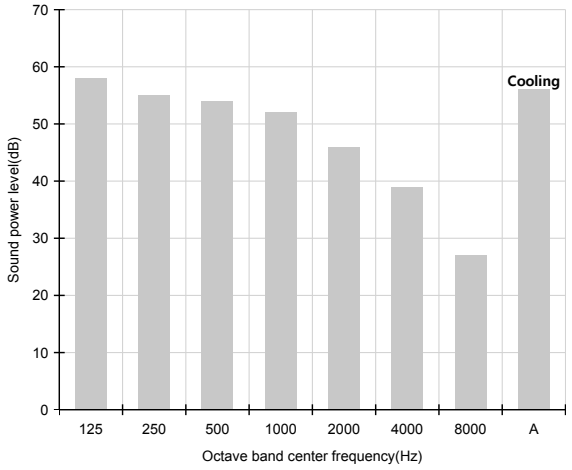
2)AM056KN4DEH/EU



3)AM071KN4DEH/EU



4)AM090KN4DEH/EU



6 Sound power level

360 Cassette

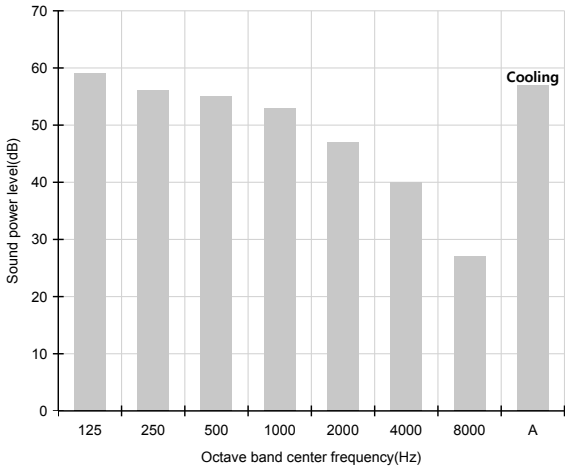
Note

* Specifications may be subject to change
  1) dBA = A-weighted sound power level.
  2) Reference power : 1pW.
  3) Measured according to ISO 3741.

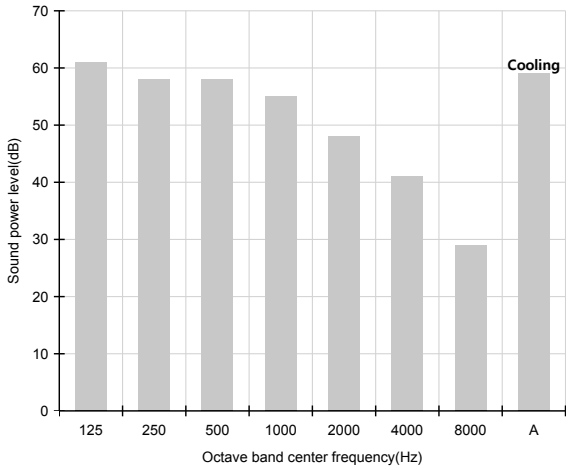
Unit: dB(A)

Model	Power
AM112KN4DEH/EU	58
AM128KN4DEH/EU	60
AM140KN4DEH/EU	61

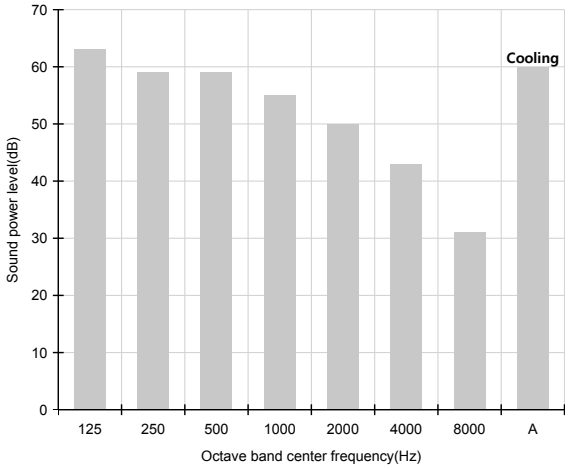
1)AM112KN4DEH/EU



2)AM128KN4DEH/EU



3)AM140KN4DEH/EU



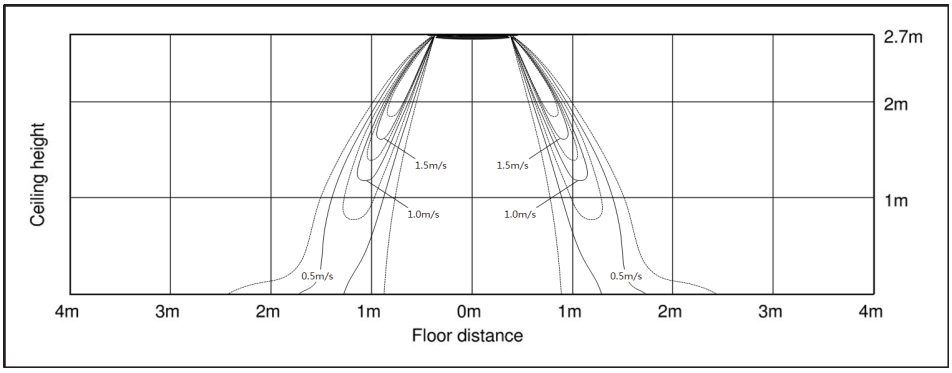
7 Temperature and air flow distribution

360 Cassette

AM045KN4DEH/EU

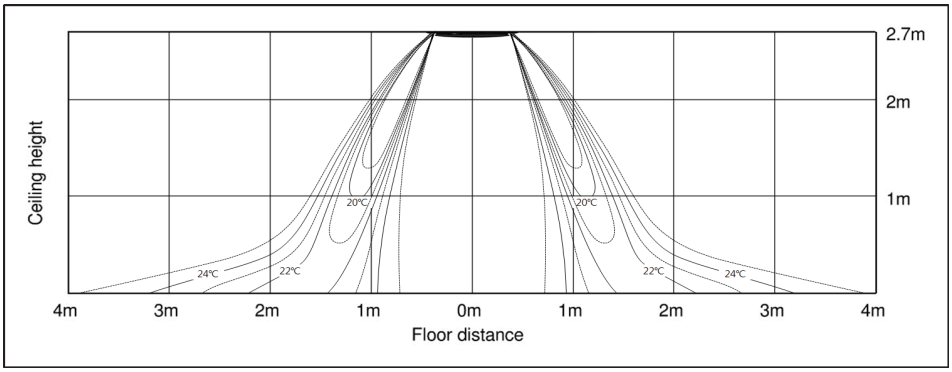
(1) Cooling air velocity distribution

Discharge angle : 60º



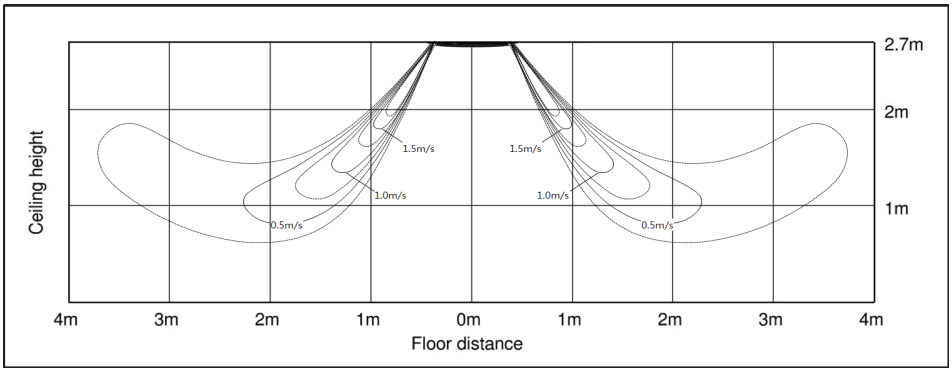
(2) Cooling temperature distribution

Discharge angle : 60º



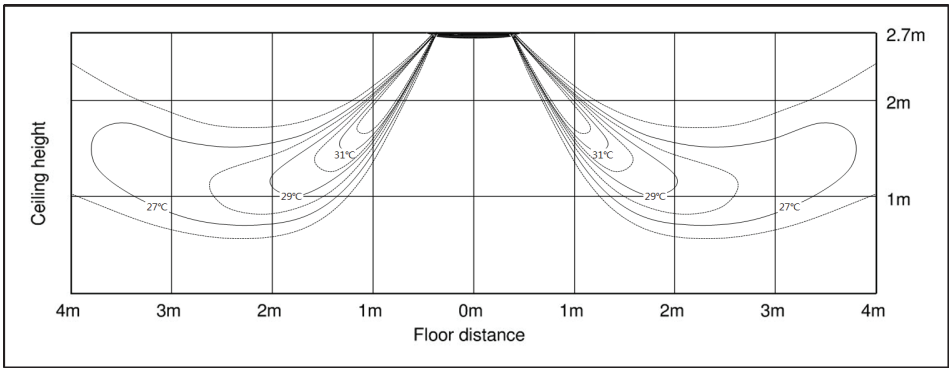
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



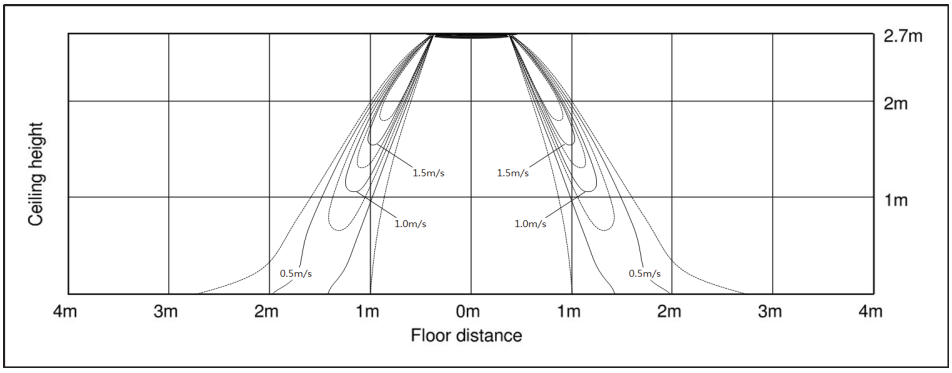
7 Temperature and air flow distribution

360 Cassette

AM056KN4DEH/EU

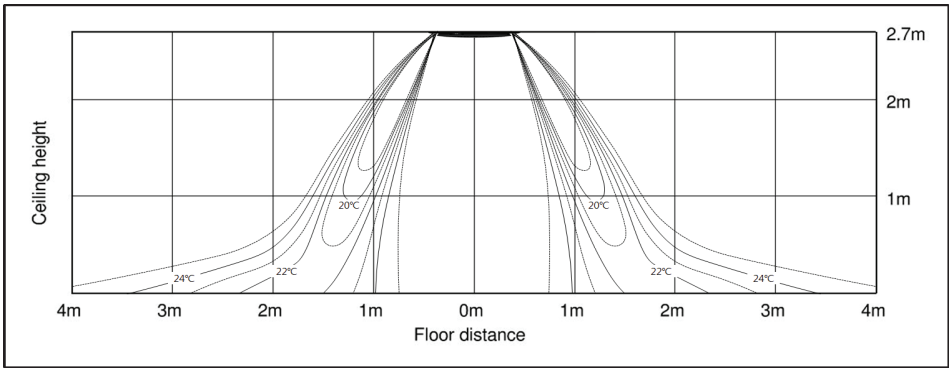
(1) Cooling air velocity distribution

Discharge angle : 60º



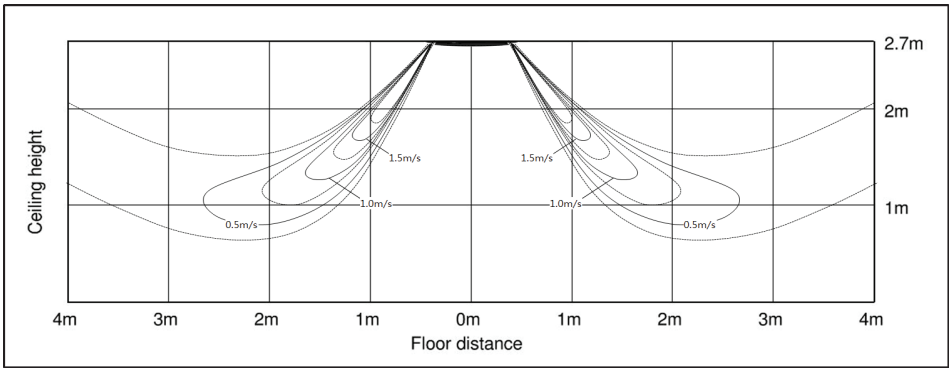
(2) Cooling temperature distribution

Discharge angle : 60º



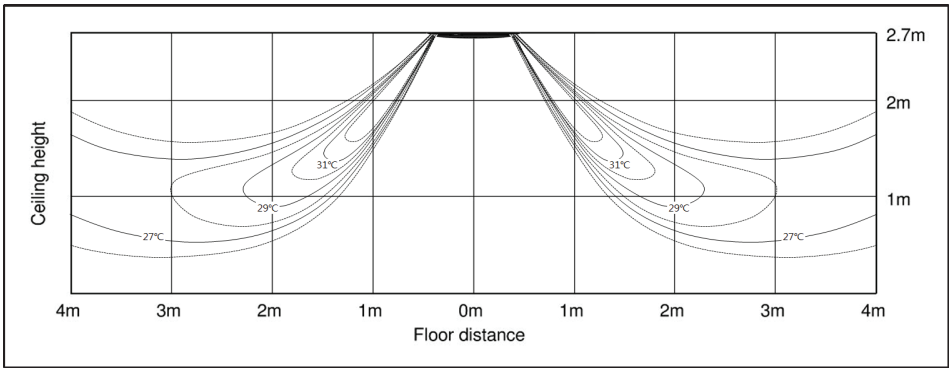
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



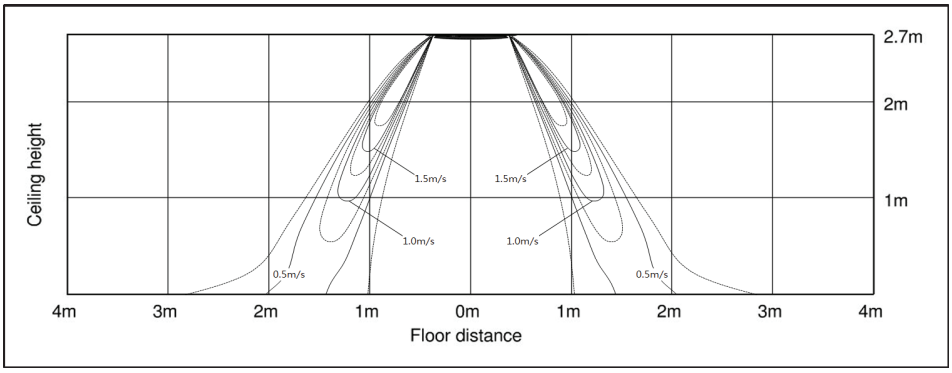
7 Temperature and air flow distribution

360 Cassette

AM071KN4DEH/EU

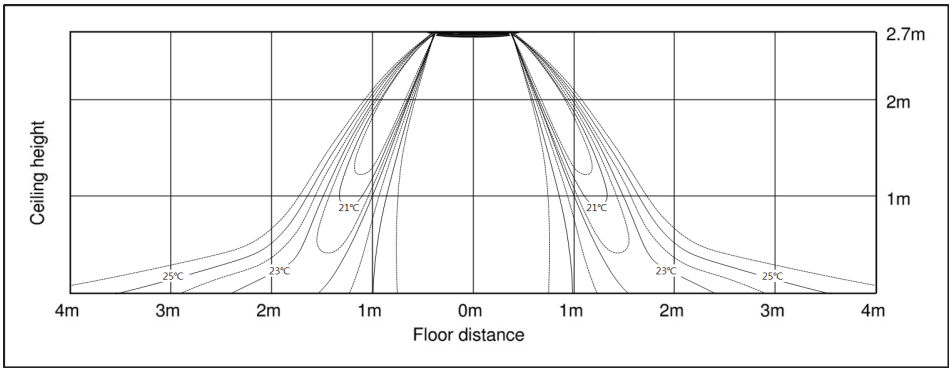
(1) Cooling air velocity distribution

Discharge angle : 60º



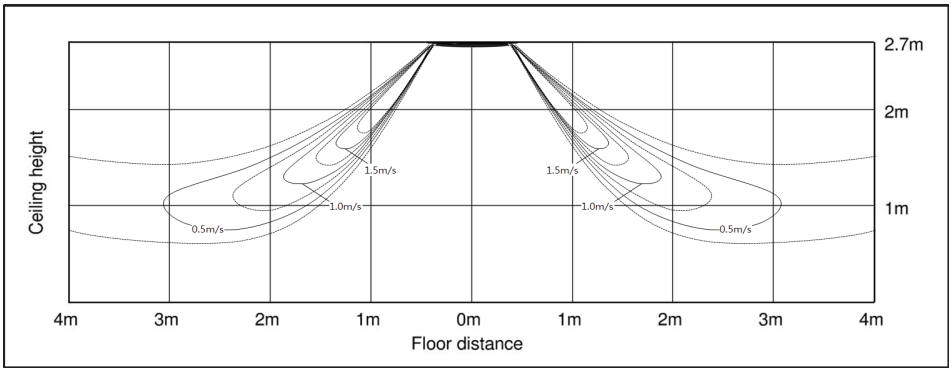
(2) Cooling temperature distribution

Discharge angle : 60º



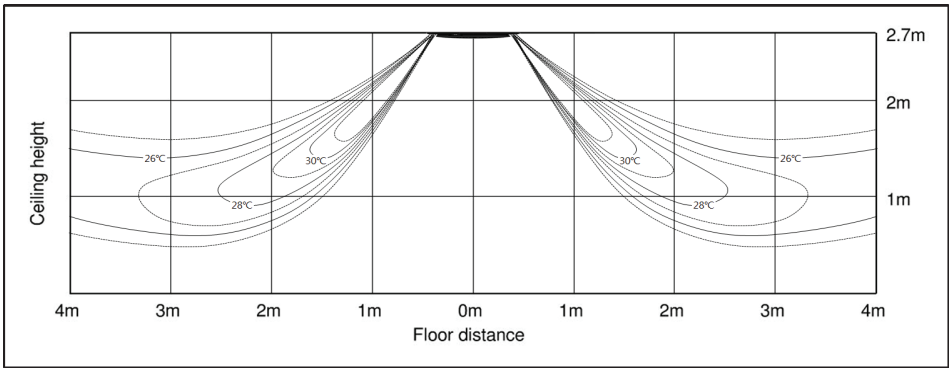
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



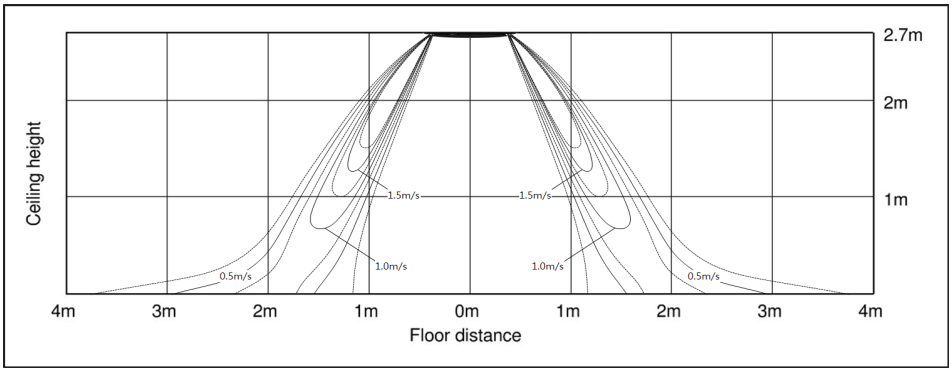
7 Temperature and air flow distribution

360 Cassette

AM090KN4DEH/EU

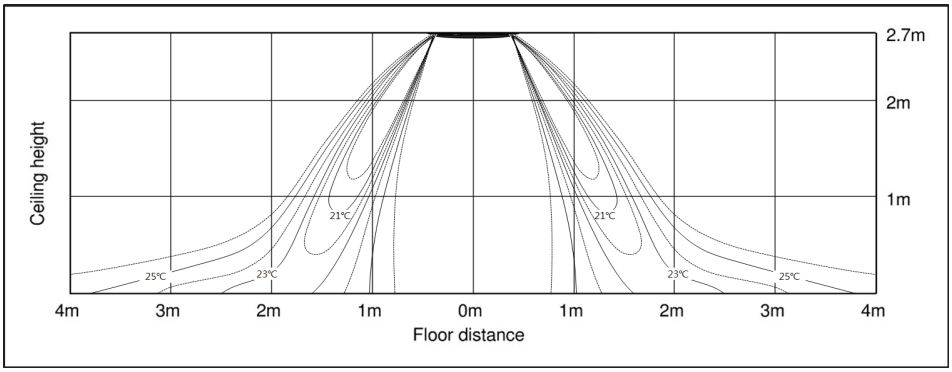
(1) Cooling air velocity distribution

Discharge angle : 60º



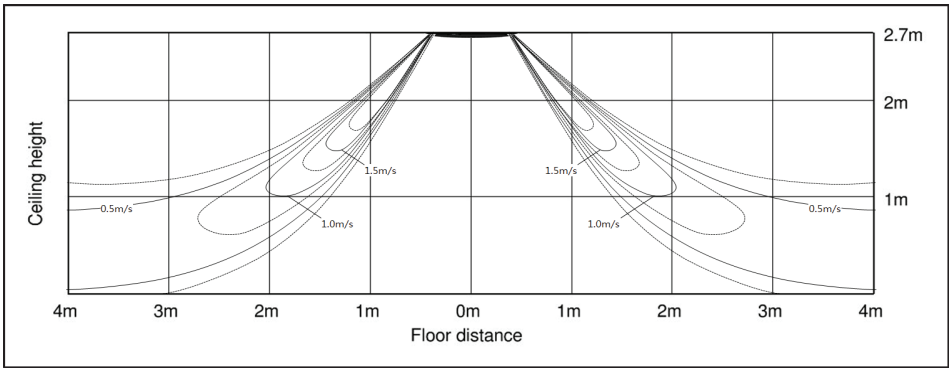
(2) Cooling temperature distribution

Discharge angle : 60º



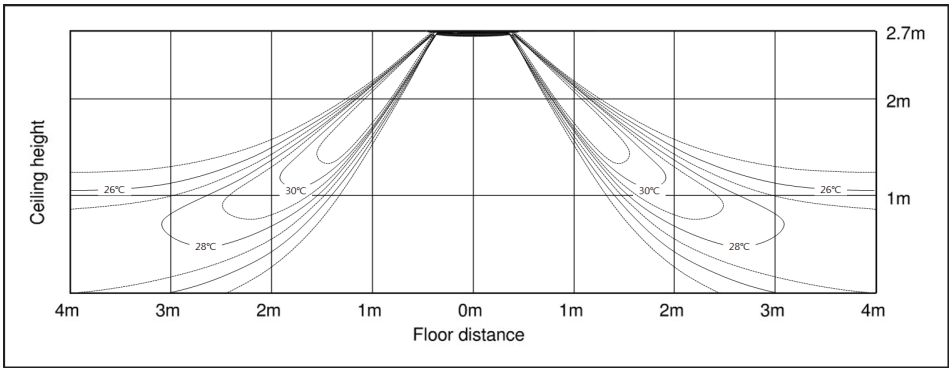
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



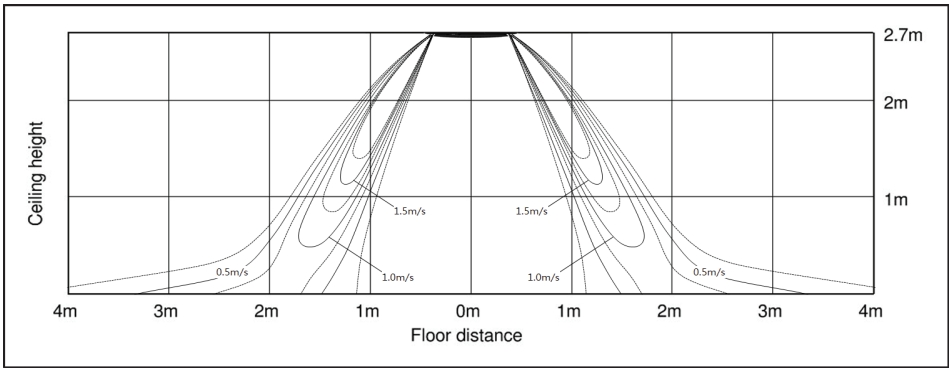
7 Temperature and air flow distribution

360 Cassette

AM112KN4DEH/EU

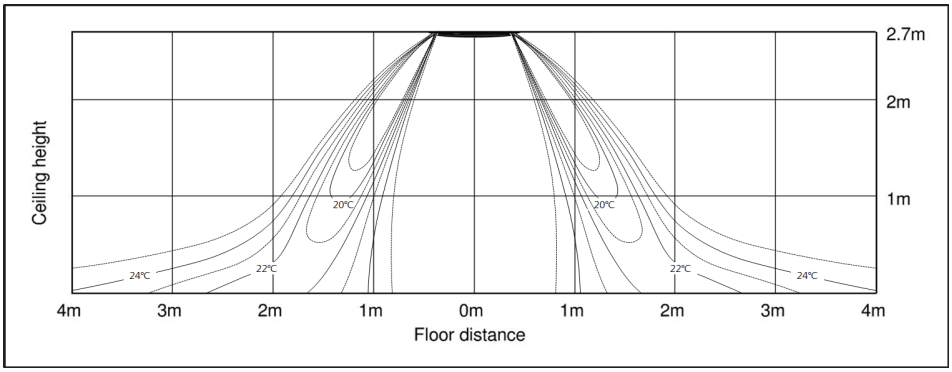
(1) Cooling air velocity distribution

Discharge angle : 60º



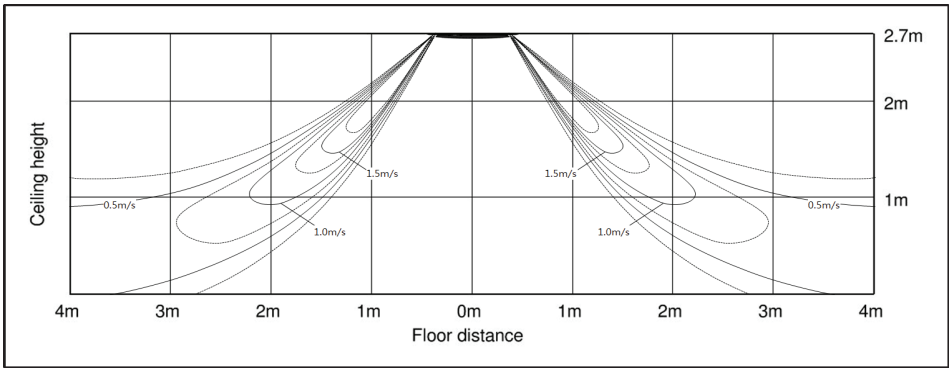
(2) Cooling temperature distribution

Discharge angle : 60º



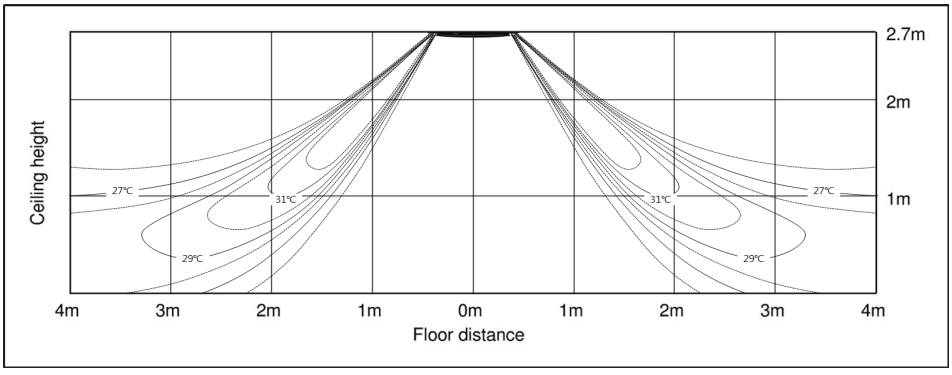
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



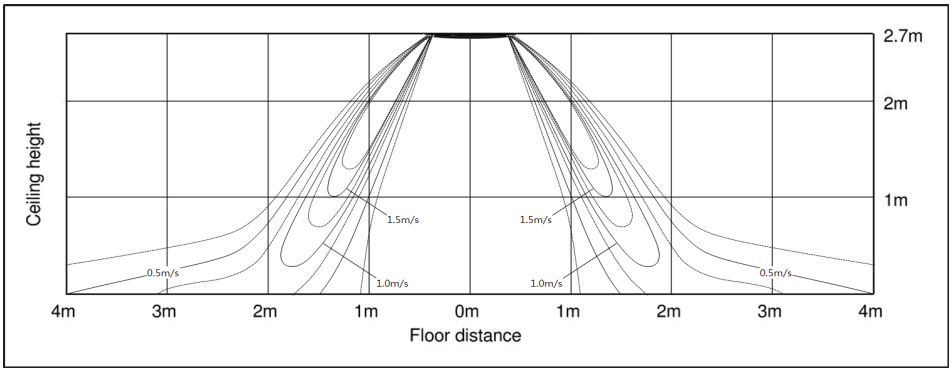
7 Temperature and air flow distribution

360 Cassette

AM128KN4DEH/EU

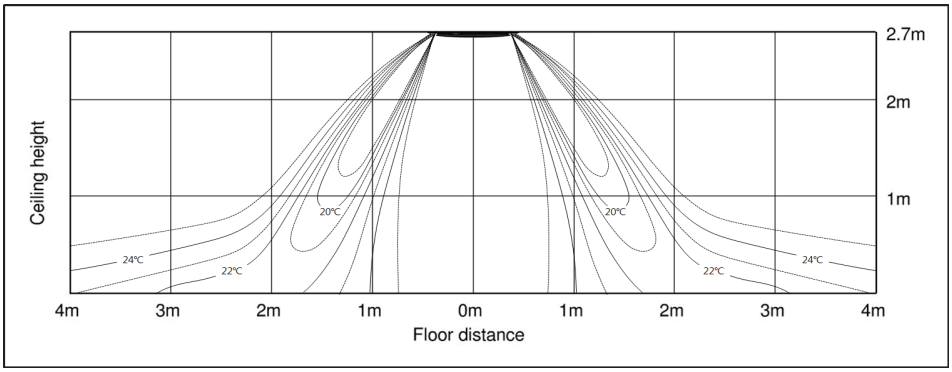
(1) Cooling air velocity distribution

Discharge angle : 60º



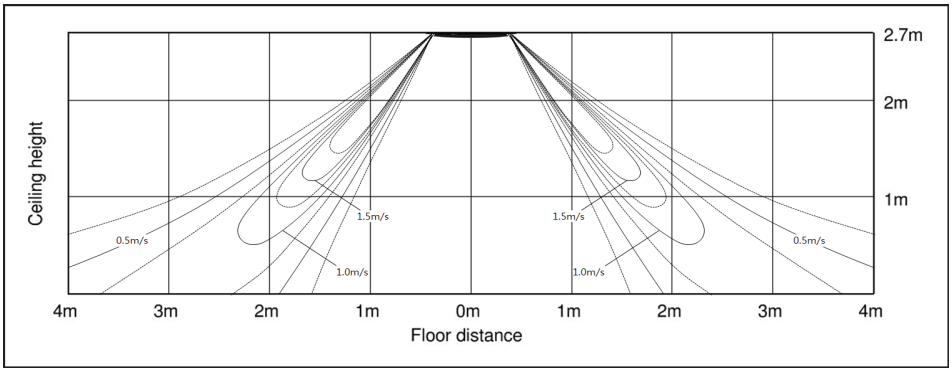
(2) Cooling temperature distribution

Discharge angle : 60º



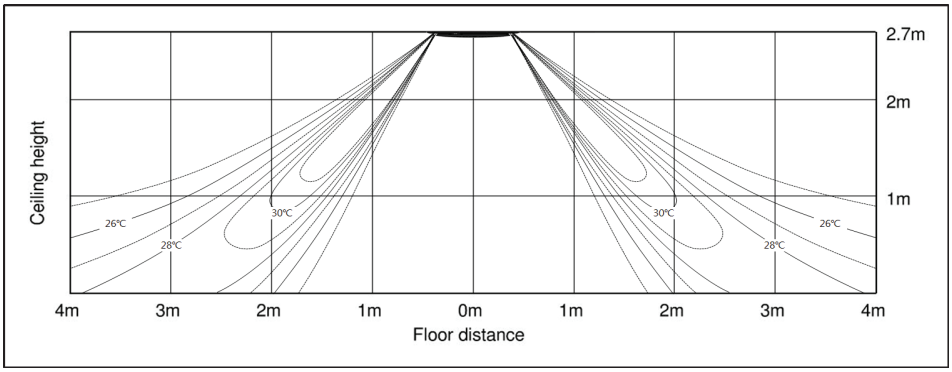
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



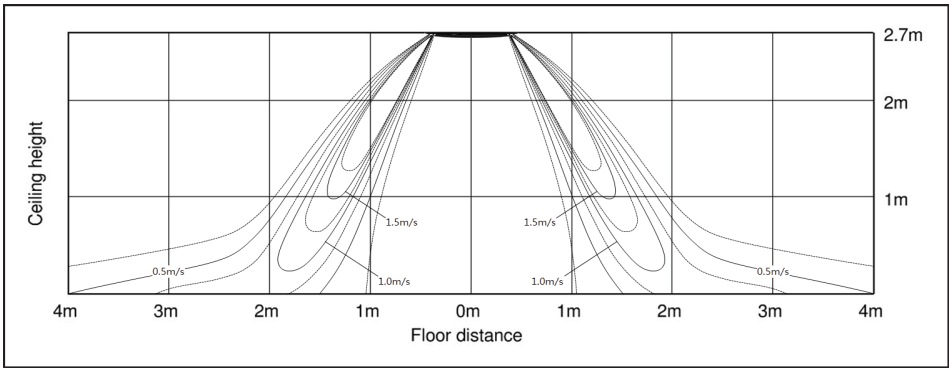
7 Temperature and air flow distribution

360 Cassette

AM140KN4DEH/EU

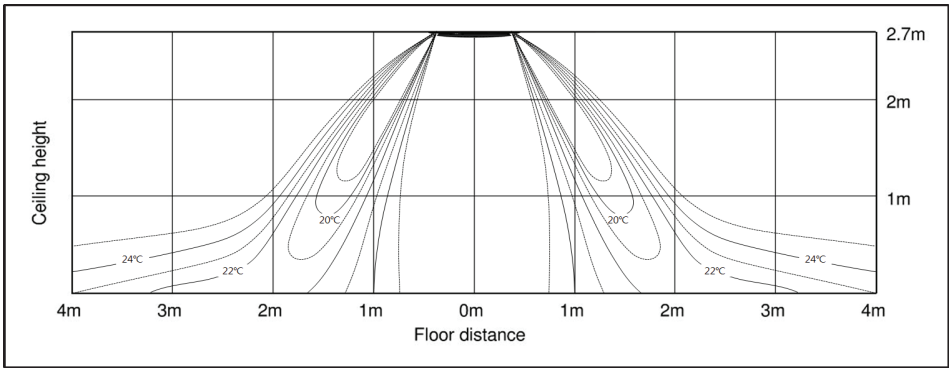
(1) Cooling air velocity distribution

Discharge angle : 60º



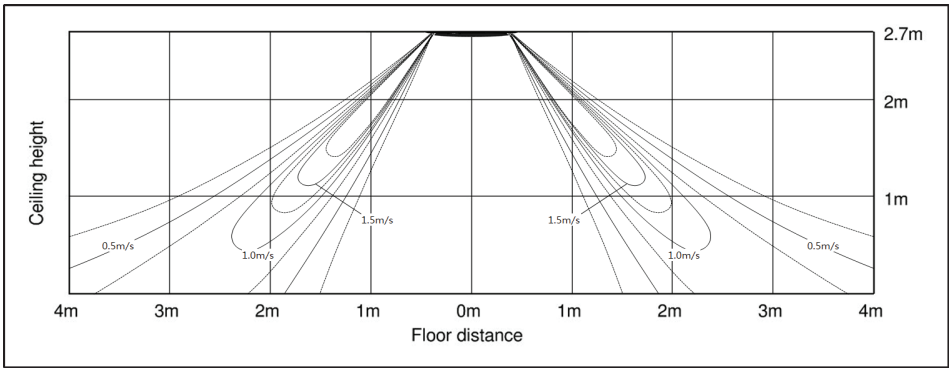
(2) Cooling temperature distribution

Discharge angle : 60º



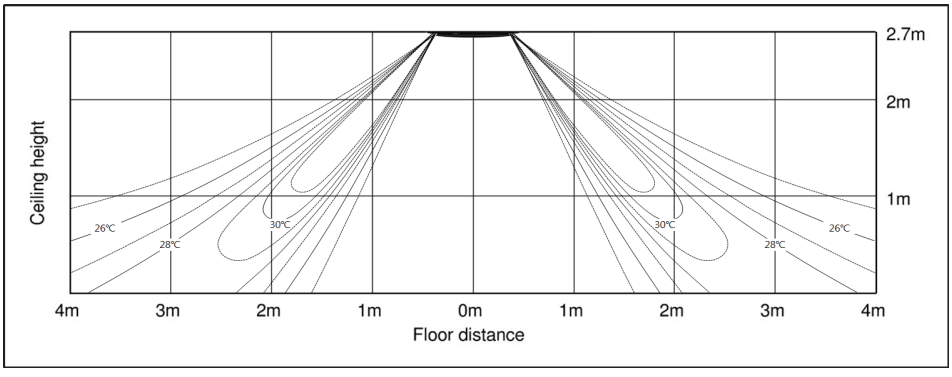
(3) Heating air velocity distribution

Discharge angle : 60º



(4) Heating temperature distribution

Discharge angle : 60º



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