

VRF

Technical Data Book

4Way CST(600x600) for America (R410A, 60Hz)



Model : AM00*KNNDCH/AA
AM0* *FNNDCH/AA

Nomenclature

Model name

AM

005

K

N

N

D

C

H

/

AA

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④

⑤

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⑧

(Buyer)

① Classification

AM	DVM
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② Capacity

kBtu/h (3digits)

③ Version

F	2013
H	2014
J	2015
K	2016

④ Product Type

X	Outdoor Unit
N	Indoor Unit

⑤ Product Notation

1	1 way cassette
2	2 way cassette
N	4 way cassette (600x600)
4	4 way cassette
L	LSP Duct (Slim Duct)
M	MSP Duct
H	HSP Duct
C	Ceiling
J	Console
F	Floor Standing
T	NEO FORTE
Q	NEO FORTE (EEV)
B	HYDRO UNIT (Floor Standing)
K	FLAT(CEILING TYPE) VTL

⑥ Feature

D	DELUXE
F	FLAGSHIP
G (EHS)	CASCADE (EEV)

⑦ Rating Voltage

C	1Ø, 208~230V, 60Hz
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⑧ Mode

H	Heat Pump (R410A)
R	Heat Recovery (R410A)



■ 4Way cassette (600x600)

1. Specifications
2. Capacity tables
3. Dimensional drawing
4. Electrical wiring diagram
5. Sound pressure level
6. Temperature and air flow distribution

Specifications

Model				AM005KNNDCH/AA	AM007KNNDCH/AA
Power Supply		Ø, V, Hz		1,208-230,60	1,208-230,60
Mode		-		HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling* ¹⁾	Btu/h	5,000	7,500
			US RT	0.42	0.63
		Heating* ¹⁾	Btu/h	6,000	8,700
			US RT	0.50	0.73
Power	Power Input (Nominal)	Cooling* ¹⁾	W	18.00	18.00
		Heating* ¹⁾		18.00	18.00
	Current Input (Nominal)	Cooling* ¹⁾	A	0.17	0.17
		Heating* ¹⁾		0.17	0.17
Fan	Motor	Type	-	Turbo Fan	Turbo Fan
		Output x n	W	65 x 1	65 x 1
	Air Flow Rate	H/M/L (UL)	CFM	300 / 254 / 230	300 / 254 / 230
	External Pressure	Min / Std / Max	Pa	-	-
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35
			Ø, inch	1/4	1/4
	Gas Pipe		Ø, mm	12.70	12.70
			Ø, inch	1/2	1/2
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure* ²⁾	High / Mid / Low	dBA	30 / 28 / 23	32 / 29 / 23
Dimensions	Net Weight		kg	12.0	12.0
			lbs	26.5	26.5
	Shipping Weight		kg	14.0	14.0
			lbs	30.9	30.9
	Net Dimensions(W×H×D)		mm	575 x 250 x 575	575 x 250 x 575
			inch	22.64 x 9.84 x 22.64	22.64 x 9.84 x 22.64
	Shipping Dimensions(W×H×D)		mm	623 x 298 x 653	623 x 298 x 653
			inch	24.53 x 11.73 x 25.71	24.53 x 11.73 x 25.71
Panel Size	Panel model		model name	PC4SUSMFN	PC4SUSMFN
	Panel Net Weight		kg	2.3	2.3
			lbs	5.07	5.07
	Shipping Weight		kg	3.5	3.5
			lbs	7.72	7.72
	Net Dimensions (W×H×D)		mm	620 x 45 x 620	620 x 45 x 620
			inch	24.40 x 1.77 x 24.40	24.40 x 1.77 x 24.40
	Shipping Dimensions (W×H×D)		mm	661 x 106 x 671	661 x 106 x 671
			inch	26.02 x 4.17 x 26.42	26.02 x 4.17 x 26.42
Additional Accessories	Drain pump	Drain pump	model name	Built-in	Built-in
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter

1) Nominal Capacity are based on (Equivalent refrigerant piping : 25ft , Level differences : 0ft);

- Cooling : Indoor temperature : 80°F DB, 67°F WB / Outdoor temperature : 95°F DB, 75°F WB

- Heating : Indoor temperature : 70°F DB, 60°F WB / Outdoor temperature : 47°F DB, 43°F WB

2) Sound pressure level is obtained in an anechoic room. Thus actual noise level may differ depending on operation condition.

3) Specifications are subject to change without prior notice for product improvement.

Specifications

Model				AM009FNNDCH/AA	AM012FNNDCH/AA
Power Supply		Ø, V, Hz		1,208-230,60	1,208-230,60
Mode		-		HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling* ¹⁾	Btu/h	9,500	12,000
			US RT	0.79	1.00
		Heating* ¹⁾	Btu/h	10,500	13,500
			US RT	0.88	1.12
Power	Power Input (Nominal)	Cooling* ¹⁾	W	24.00	28.00
		Heating* ¹⁾		24.00	28.00
	Current Input (Nominal)	Cooling* ¹⁾	A	0.17	0.19
		Heating* ¹⁾		0.17	0.19
Fan	Motor	Type	-	Turbo Fan	Turbo Fan
		Output x n	W	65 x 1	65 x 1
	Air Flow Rate	H/M/L (UL)	CFM	353 / 300 / 265	371 / 336 / 283
	External Pressure	Min / Std / Max	Pa	-	-
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35
			Ø, inch	1/4	1/4
	Gas Pipe		Ø, mm	12.70	12.70
			Ø, inch	1/2	1/2
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure* ²⁾	High / Mid / Low	dBA	33 / 29 / 27	35 / 31 / 27
Dimensions	Net Weight		kg	12.0	12.0
			lbs	26.5	26.5
	Shipping Weight		kg	14.0	14.0
			lbs	30.9	30.9
	Net Dimensions(W×H×D)		mm	575 x 250 x 575	575 x 250 x 575
			inch	22.64 x 9.84 x 22.64	22.64 x 9.84 x 22.64
	Shipping Dimensions(W×H×D)		mm	623 x 298 x 653	623 x 298 x 653
			inch	24.53 x 11.73 x 25.71	24.53 x 11.73 x 25.71
Panel Size	Panel model		model name	PC4SUSMFN	PC4SUSMFN
	Panel Net Weight		kg	2.3	2.3
			lbs	5.07	5.07
	Shipping Weight		kg	3.5	3.5
			lbs	7.72	7.72
	Net Dimensions (W×H×D)		mm	620 x 45 x 620	620 x 45 x 620
			inch	24.40 x 1.77 x 24.40	24.40 x 1.77 x 24.40
	Shipping Dimensions (W×H×D)		mm	661 x 106 x 671	661 x 106 x 671
			inch	26.02 x 4.17 x 26.42	26.02 x 4.17 x 26.42
Additional Accessories	Drain pump	Drain pump	model name	Built-in	Built-in
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter

1) Nominal Capacity are based on (Equivalent refrigerant piping : 25ft , Level differences : 0ft);

- Cooling : Indoor temperature : 80°F DB, 67°F WB / Outdoor temperature : 95°F DB, 75°F WB

- Heating : Indoor temperature : 70°F DB, 60°F WB / Outdoor temperature : 47°F DB, 43°F WB

2) Sound pressure level is obtained in an anechoic room. Thus actual noise level may differ depending on operation condition.

3) Specifications are subject to change without prior notice for product improvement.

Specifications

Model				AM018FNNDCH/AA	AM020FNNDCH/AA
Power Supply			Ø, V, Hz	1,208-230,60	1,208-230,60
Mode			-	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling* ¹⁾	Btu/h	18,000	20,000
			US RT	1.50	1.67
		Heating* ¹⁾	Btu/h	20,000	23,000
			US RT	1.67	1.92
Power	Power Input (Nominal)	Cooling* ¹⁾	W	36.00	38.00
		Heating* ¹⁾		36.00	38.00
	Current Input (Nominal)	Cooling* ¹⁾	A	0.27	0.30
		Heating* ¹⁾		0.27	0.30
Fan	Motor	Type	-	Turbo Fan	Turbo Fan
		Output x n	W	65 x 1	65 x 1
	Air Flow Rate	H/M/L (UL)	CFM	459 / 388 / 336	477 / 424 / 360
	External Pressure	Min / Std / Max	Pa	-	-
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35
			Ø, inch	1/4	1/4
	Gas Pipe		Ø, mm	12.70	12.70
			Ø, inch	1/2	1/2
	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure* ²⁾	High / Mid / Low	dBA	39 / 36 / 32	41 / 38 / 32
Dimensions	Net Weight		kg	12.0	12.0
			lbs	26.5	26.5
	Shipping Weight		kg	14.0	14.0
			lbs	30.9	30.9
	Net Dimensions(W×H×D)		mm	575 x 250 x 575	575 x 250 x 575
			inch	22.64 x 9.84 x 22.64	22.64 x 9.84 x 22.64
	Shipping Dimensions(W×H×D)		mm	623 x 298 x 653	623 x 298 x 653
			inch	24.53 x 11.73 x 25.71	24.53 x 11.73 x 25.71
Panel Size	Panel model		model name	PC4SUSMFN	PC4SUSMFN
	Panel Net Weight		kg	2.3	2.3
			lbs	5.07	5.07
	Shipping Weight		kg	3.5	3.5
			lbs	7.72	7.72
	Net Dimensions (W×H×D)		mm	620 x 45 x 620	620 x 45 x 620
			inch	24.40 x 1.77 x 24.40	24.40 x 1.77 x 24.40
	Shipping Dimensions (W×H×D)		mm	661 x 106 x 671	661 x 106 x 671
			inch	26.02 x 4.17 x 26.42	26.02 x 4.17 x 26.42
Additional Accessories	Drain pump	Drain pump	model name	Built-in	Built-in
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter

1) Nominal Capacity are based on (Equivalent refrigerant piping : 25ft , Level differences : 0ft);

- Cooling : Indoor temperature : 80°F DB, 67°F WB / Outdoor temperature : 95°F DB, 75°F WB

- Heating : Indoor temperature : 70°F DB, 60°F WB / Outdoor temperature : 47°F DB, 43°F WB

2) Sound pressure level is obtained in an anechoic room. Thus actual noise level may differ depending on operation condition.

3) Specifications are subject to change without prior notice for product improvement.

1) Cooling

TC : Total Capacity(Btu/h), SHC : Sensible Heat Capacity(Btu/h)

Model	Outdoor Temperature (°F, DB)	Indoor temperature (°F, WB)													
		57		61		64		67		70		72		75	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
005	50	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,700	3,600	5,900	3,200
	54	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,700	3,600	5,900	3,200
	58	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,700	3,600	5,900	3,200
	60	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	64	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	67	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	70	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	73	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	77	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	80	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	84	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	88	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
	92	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200
95	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200	
99	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,900	3,200	
103	3,400	2,900	4,100	3,200	4,800	3,400	5,000	3,400	5,200	3,400	5,500	3,400	5,700	2,900	
007	50	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,500	5,400	8,900	4,800
	54	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,500	5,400	8,900	4,800
	58	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,500	5,400	8,900	4,800
	60	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	64	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	67	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	70	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	73	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	77	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	80	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	84	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	88	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
	92	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800
95	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800	
99	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,900	4,800	
103	5,100	4,400	6,100	4,800	7,200	5,100	7,500	5,100	7,800	5,100	8,200	5,100	8,500	4,400	
009	50	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,500	6,800
	54	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	58	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	60	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	64	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	67	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	70	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	73	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	77	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	80	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	84	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	88	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
	92	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400
95	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400	
99	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,500	6,800	11,200	6,400	
103	6,400	5,700	7,800	6,400	8,800	6,800	9,500	6,800	9,800	6,800	10,200	6,400	10,900	6,100	
012	50	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,300	8,900
	54	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,300	8,900
	58	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,300	8,900
	60	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,300	8,900
	64	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,300	8,900
	67	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	70	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	73	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	77	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	80	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	84	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	88	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
	92	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600
95	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,600	
99	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,000	8,900	14,000	8,600	
103	8,300	7,900	9,700	8,600	11,300	8,600	12,000	9,300	12,300	9,300	13,000	8,900	13,700	8,200	

Capacity tables

1) Cooling

TC : Total Capacity(Btu/h), SHC : Sensible Heat Capacity(Btu/h)

Model	Outdoor Temperature (°F, DB)	Indoor temperature (°F, WB)													
		57		61		64		67		70		72		75	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
018	50	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,600	12,700
	54	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,600	12,700
	58	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,600	12,700
	60	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	64	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	67	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	70	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	73	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	77	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	80	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	84	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	88	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	92	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
	95	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,800	13,600	20,000	13,600	21,200	12,300
020	99	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,400	13,200	19,600	13,200	20,800	11,800
	103	12,400	11,800	14,800	12,300	16,800	13,200	18,000	13,600	18,400	13,200	19,600	13,200	20,400	11,400
	50	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,500	15,400	23,900	14,600
	54	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,500	15,400	23,900	14,600
	58	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,900	14,600
	60	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	64	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	67	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	70	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	73	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	77	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	80	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	84	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	88	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	92	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	95	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	14,200
	99	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	13,800
	103	13,900	12,600	16,400	13,800	18,900	15,400	20,000	15,400	20,700	15,400	22,100	15,000	23,600	13,400

Capacity tables

2) Heating

TC : Total Capacity(Btu/h)

Model	Outdoor Air Temp. (°F)		Indoor temperature (°F, DB)				
			61	65	70	72	75
	DB	WB	TC Btu/h	TC Btu/h	TC Btu/h	TC Btu/h	TC Btu/h
005	-12.6	-13.0	3,200	3,200	3,200	3,200	3,200
	-7.1	-7.6	3,500	3,500	3,500	3,500	3,500
	-3.6	-4.0	3,600	3,600	3,600	3,600	3,600
	-1.8	-2.2	3,700	3,700	3,700	3,700	3,700
	2	1	3,900	3,800	3,800	3,800	3,800
	6	5	4,100	3,900	3,900	3,900	3,900
	10	9	4,300	4,200	4,200	4,200	4,000
	13	12	4,700	4,700	4,500	4,500	4,400
	17	15	4,900	4,900	4,700	4,600	4,600
	19	18	5,200	5,000	4,900	4,700	4,700
	23	21	5,500	5,300	5,300	4,800	4,800
	26	24	5,800	5,500	5,500	5,300	5,300
	30	28	6,000	6,000	5,800	5,500	5,300
	35	32	6,200	6,000	6,000	5,500	5,300
	39	36	6,500	6,200	6,000	5,500	5,300
	44	40	6,700	6,500	6,000	5,500	5,300
	47	43	6,700	6,500	6,000	5,500	5,300
	51	47	7,200	6,500	6,000	5,500	5,300
	54	50	7,200	6,500	6,000	5,500	5,300
	57	53	7,200	6,500	6,000	5,500	5,300
	60	56	7,200	6,500	6,000	5,500	5,300
007	-12.6	-13.0	4,700	4,700	4,700	4,700	4,700
	-7.1	-7.6	5,000	5,000	5,000	5,000	5,000
	-3.6	-4.0	5,200	5,200	5,200	5,200	5,200
	-1.8	-2.2	5,400	5,400	5,400	5,400	5,400
	2	1	5,600	5,600	5,600	5,600	5,600
	6	5	6,000	5,600	5,600	5,600	5,600
	10	9	6,200	6,100	6,100	6,100	5,800
	13	12	6,800	6,800	6,500	6,500	6,400
	17	15	7,100	7,100	6,800	6,700	6,700
	19	18	7,500	7,300	7,100	6,800	6,800
	23	21	8,000	7,700	7,700	7,000	7,000
	26	24	8,400	8,000	8,000	7,700	7,700
	30	28	8,700	8,700	8,400	8,000	7,700
	35	32	9,000	8,700	8,700	8,000	7,700
	39	36	9,400	9,000	8,700	8,000	7,700
	44	40	9,700	9,400	8,700	8,000	7,700
	47	43	9,700	9,400	8,700	8,000	7,700
	51	47	10,400	9,400	8,700	8,000	7,700
	54	50	10,400	9,400	8,700	8,000	7,700
	57	53	10,400	9,400	8,700	8,000	7,700
	60	56	10,400	9,400	8,700	8,000	7,700
009	-12.6	-13.0	5,700	5,700	5,700	5,700	6,200
	-7.1	-7.6	6,000	6,000	6,000	6,000	6,200
	-3.6	-4.0	6,300	6,300	6,300	6,300	6,200
	-1.8	-2.2	6,400	6,400	6,400	6,400	6,200
	2	1	6,600	6,600	6,600	6,600	6,200
	6	5	6,900	6,900	6,600	6,600	6,300
	10	9	7,200	7,200	7,100	6,800	6,800
	13	12	7,500	7,500	7,500	7,400	7,100
	17	15	7,700	7,600	7,600	7,600	7,300
	19	18	7,900	7,700	7,700	7,700	7,400
	23	21	8,200	7,900	7,900	7,900	7,500
	26	24	8,500	8,500	8,200	8,200	7,900
	30	28	9,200	8,900	8,900	8,500	8,200
	35	32	9,500	9,200	9,200	8,900	8,500
	39	36	9,800	9,800	9,500	9,200	8,900
	44	40	10,500	10,200	10,200	9,500	8,900
	47	43	10,800	10,500	10,500	9,800	8,900
	51	47	11,200	10,800	10,500	9,800	8,900
	54	50	11,500	10,800	10,500	9,800	8,900
	57	53	11,800	11,200	10,500	9,800	8,900
	60	56	12,100	11,200	10,500	9,800	8,900

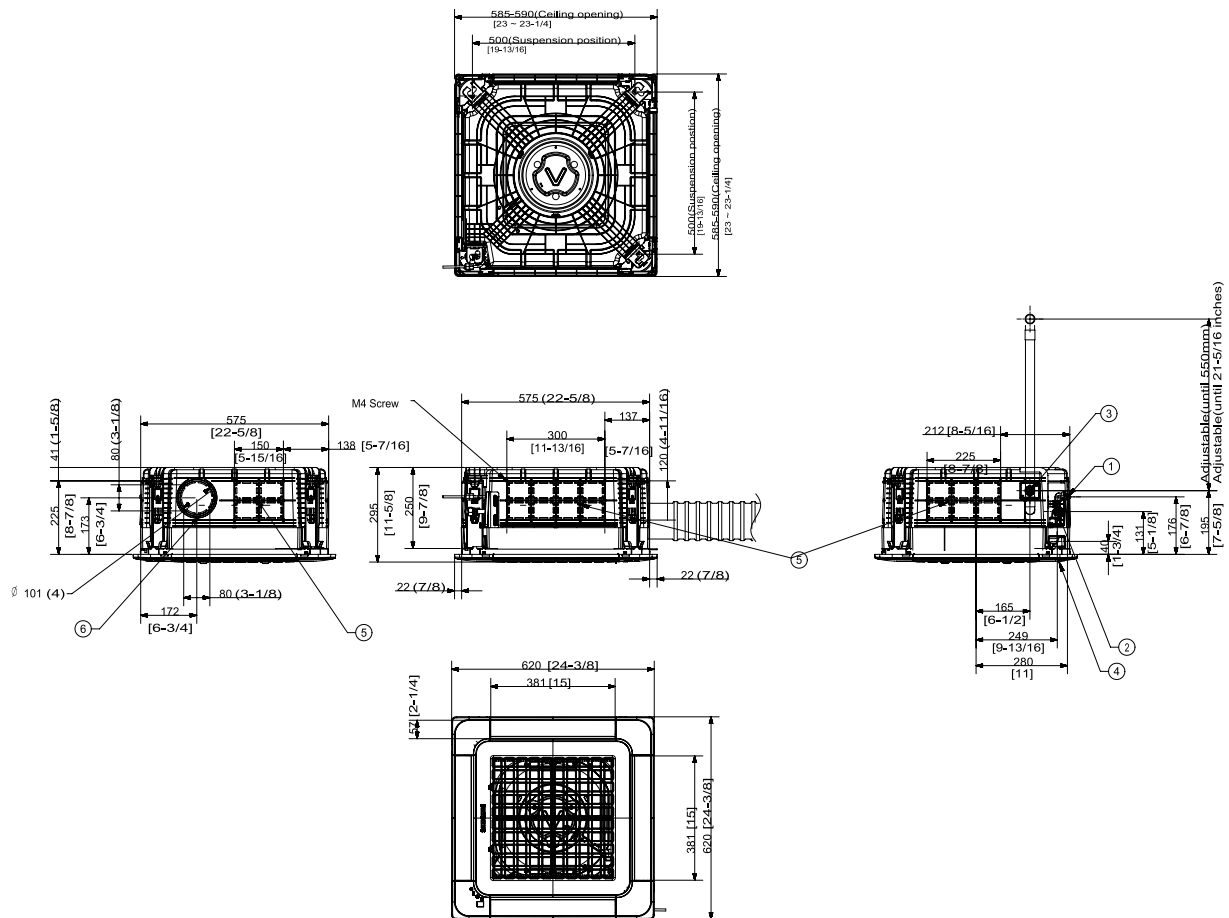
Capacity tables

2) Heating

TC : Total Capacity(Btu/h)

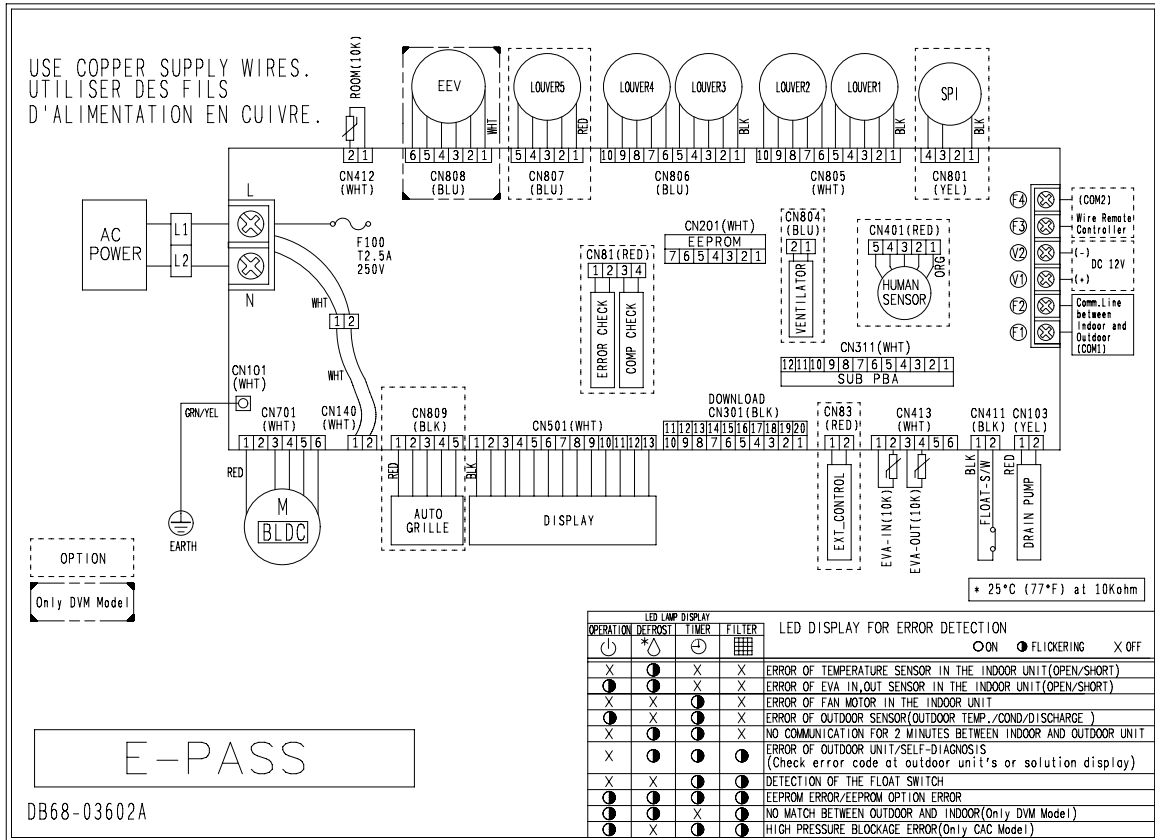
Model	Outdoor Air Temp. (°F)		Indoor temperature (°F, DB)				
			61	65	70	72	75
	DB	WB	TC Btu/h	TC Btu/h	TC Btu/h	TC Btu/h	TC Btu/h
012	-12.6	-13.0	7,000	7,600	7,200	7,200	7,800
	-7.1	-7.6	7,700	7,900	7,600	7,600	7,800
	-3.6	-4.0	8,100	8,100	7,800	7,800	7,800
	-1.8	-2.2	8,400	8,200	7,900	7,900	7,800
	2	1	8,800	8,500	8,200	8,200	7,800
	6	5	9,100	8,800	8,500	8,500	8,200
	10	9	9,400	9,000	9,000	8,700	8,600
	13	12	9,700	9,600	9,600	9,300	9,300
	17	15	9,900	9,900	9,800	9,600	9,500
	19	18	10,100	10,100	10,000	9,800	9,600
	23	21	10,500	10,500	10,100	10,100	9,800
	26	24	11,100	10,800	10,800	10,500	10,100
	30	28	11,500	11,500	11,100	10,800	10,500
	35	32	12,200	12,200	11,800	11,500	10,800
	39	36	12,800	12,500	12,500	11,800	11,500
	44	40	13,200	13,200	12,800	12,200	11,500
	47	43	13,800	13,800	13,500	12,500	11,500
	51	47	14,200	13,800	13,500	12,500	11,500
018	54	50	14,900	14,200	13,500	12,500	11,500
	57	53	15,200	14,200	13,500	12,500	11,500
	60	56	15,500	14,500	13,500	12,500	11,500
	-12.6	-13.0	11,800	11,800	10,300	11,000	11,000
	-7.1	-7.6	12,200	12,200	11,100	11,400	11,400
	-3.6	-4.0	12,400	12,400	11,700	11,600	11,600
	-1.8	-2.2	12,600	12,600	11,900	11,800	11,800
	2	1	12,900	12,900	12,500	12,100	12,000
	6	5	13,300	13,200	12,900	12,500	12,100
	10	9	13,800	13,500	13,400	13,000	12,600
	13	12	14,600	14,200	14,200	13,800	13,700
	17	15	14,900	14,500	14,500	14,100	14,100
	19	18	15,200	14,800	14,800	14,400	14,200
	23	21	15,600	15,200	15,200	14,800	14,400
	26	24	16,400	16,000	16,000	15,600	14,800
	30	28	17,200	16,800	16,800	16,000	15,600
	35	32	18,000	17,600	17,600	16,800	16,000
	39	36	18,800	18,800	18,400	17,600	16,800
020	44	40	19,600	19,600	19,200	18,000	16,800
	47	43	20,400	20,400	20,000	18,400	16,800
	51	47	21,200	20,800	20,000	18,400	16,800
	54	50	22,000	20,800	20,000	18,400	16,800
	57	53	22,400	21,200	20,000	18,400	16,800
	60	56	23,200	21,600	20,000	18,400	16,800
	-12.6	-13.0	13,700	12,700	13,300	12,900	12,900
	-7.1	-7.6	14,000	13,400	13,700	13,300	13,300
	-3.6	-4.0	14,300	13,900	13,900	13,500	13,500
	-1.8	-2.2	14,400	14,200	14,000	13,700	13,700
	2	1	14,700	14,700	14,300	13,900	13,900
	6	5	15,400	15,000	14,700	14,300	14,000
	10	9	15,900	15,600	15,200	15,100	14,700
	13	12	16,600	16,500	16,200	15,900	15,800
	17	15	17,000	16,900	16,600	16,200	16,100
	19	18	17,300	17,200	17,000	16,600	16,200
	23	21	17,900	17,500	17,500	17,200	16,400
	26	24	19,000	18,600	18,300	17,900	17,200
	30	28	19,700	19,300	19,300	18,600	17,900
	35	32	20,800	20,400	20,100	19,300	18,300
	39	36	21,500	21,500	21,200	20,400	19,300
	44	40	22,600	22,300	21,900	20,800	19,300
	47	43	23,700	23,400	23,000	21,200	19,300
	51	47	24,500	23,700	23,000	21,200	19,300
	54	50	25,200	24,100	23,000	21,200	19,300
	57	53	25,900	24,500	23,000	21,200	19,300
	60	56	26,700	24,800	23,000	21,200	19,300

Unit: mm(inch)



No.	Name	Description					
		5.0 MBH	7.5 MBH	9.5 MBH	12.0 MBH	18.0 MBH	20.0 MBH
①	Liquid pipe connection	Ø6.35(1/4") Flare					
②	Gas pipe connection	Ø12.70(1/2") Flare					
③	Drain pipe connection	VP25 (OD 32, ID 25) / VP25 (OD 1 1/4", ID 1")					
④	Conduit for power supply & Communication wiring	-					
⑤	Sub duct connection	Use M4 Screw					
⑥	Fresh air intake knockout hole	Ø101[4] , Use M4 Screw					

4 Electrical wiring diagram



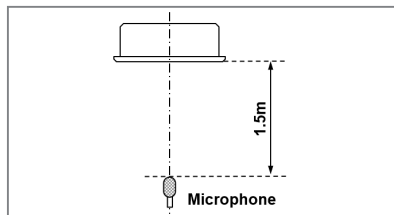
M [BLDC]	Motor (BLDC)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)M	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTES

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

Sound pressure level

1) Operation sound level



Unit : dB(A)

Model	High	Mid	Low
AM005KNNDCH/AA	30	28	23
AM007KNNDCH/AA	32	29	23
AM009FNNDCH/AA	33	29	27
AM012FNNDCH/AA	35	31	27

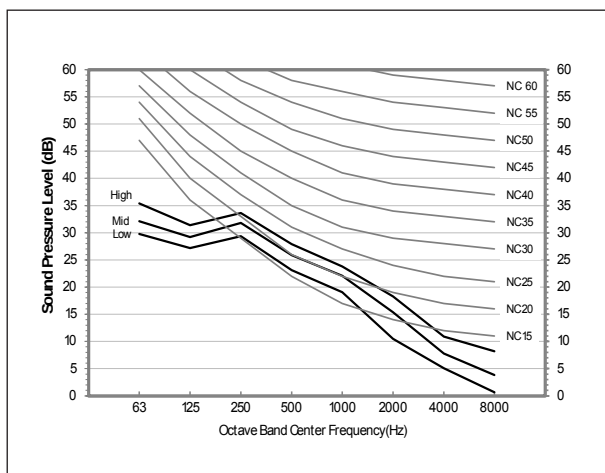
✓ Note

* Specifications may be subject to change without prior notice.

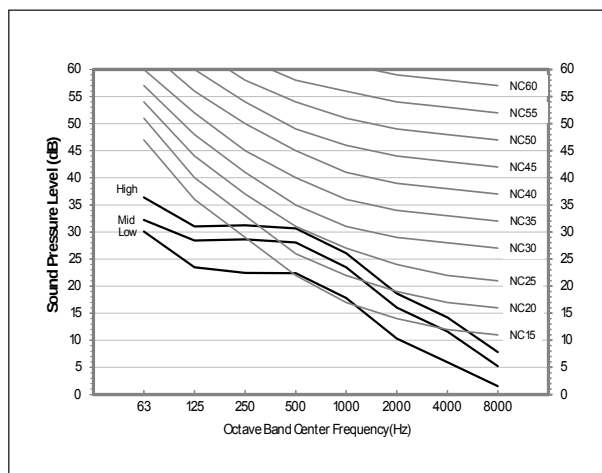
- 1) These operation values are obtained in an anechoic room.
- 2) Sound pressure level is a relative value, depending on the distance and acoustic environment.
- 3) Sound pressure level may differ depending on operation condition.

2) NC curves

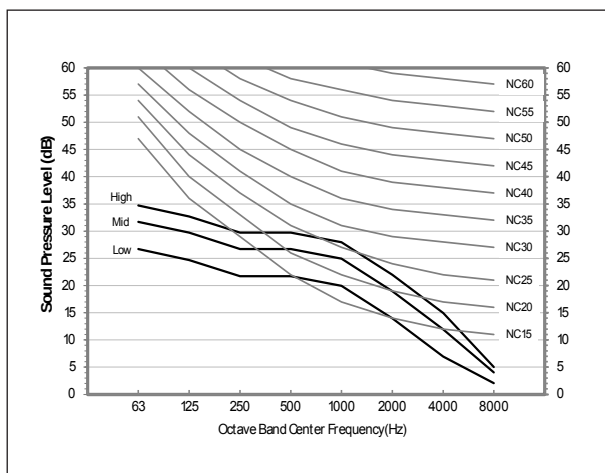
(1) AM005KNNDCH/AA



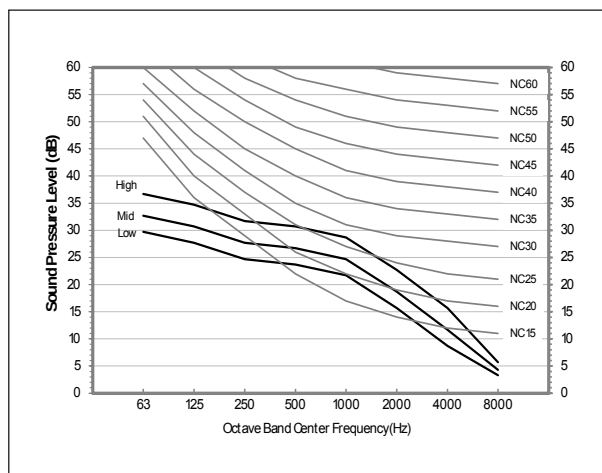
(2) AM007KNNDCH/AA



(3) AM009FNNDCH/AA

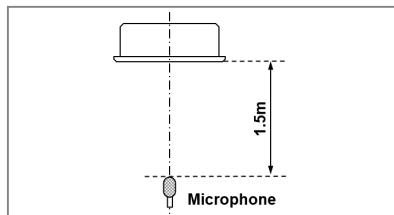


(4) AM012FNNDCH/AA



Sound pressure level

1) Operation sound level



Unit : dB(A)

Model	High	Mid	Low
AM018FNNDCH/AA	39	36	32
AM020FNNDCH/AA	41	38	32

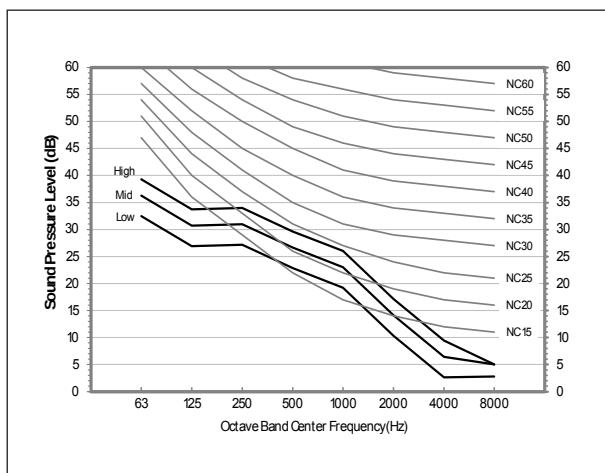
☒ Note

* Specifications may be subject to change without prior notice.

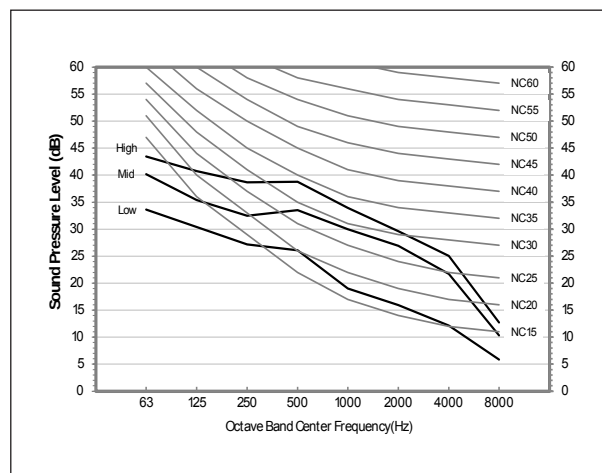
- 1) These operation values are obtained in an anechoic room.
- 2) Sound pressure level is a relative value, depending on the distance and acoustic environment.
- 3) Sound pressure level may differ depending on operation condition.

2) NC curves

(1) AM018FNNDCH/AA



(2) AM020FNNDCH/AA

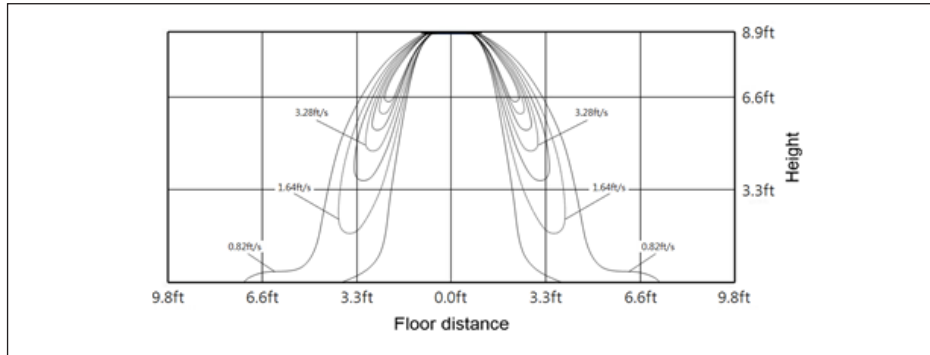


Temperature and air flow distribution

1) AM005KNNDCH/AA

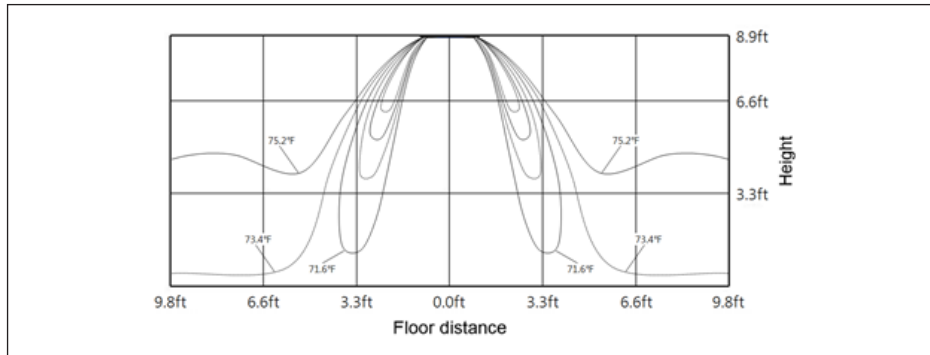
(1) Cooling air velocity distribution

◆ Discharge angle : 43°



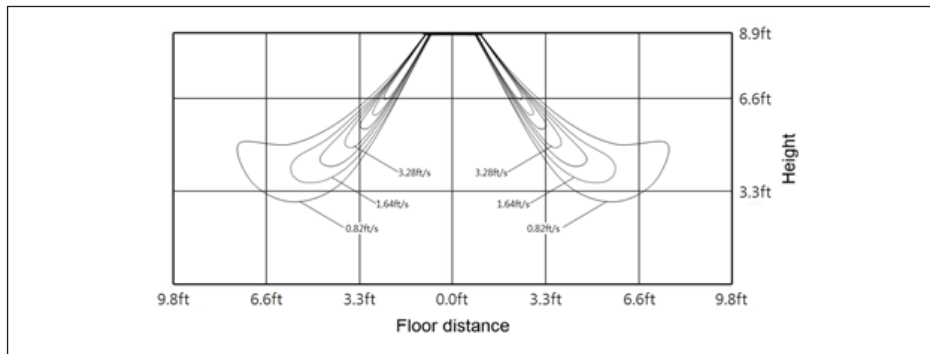
(2) Cooling temperature distribution

◆ Discharge angle : 43°



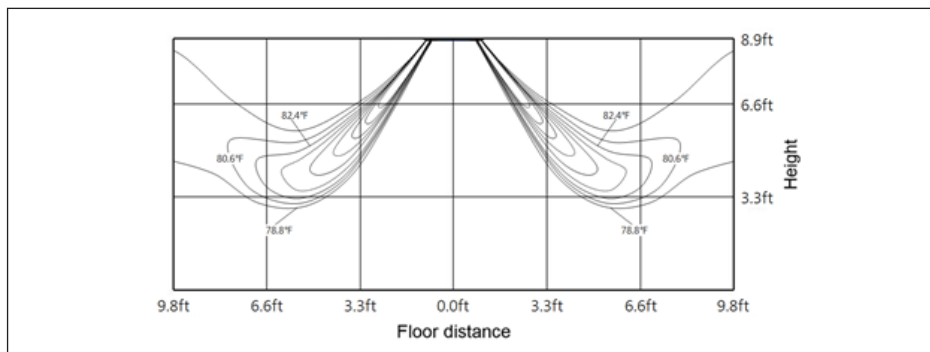
(3) Heating air velocity distribution

◆ Discharge angle : 50°



(4) Heating temperature distribution

◆ Discharge angle : 50°

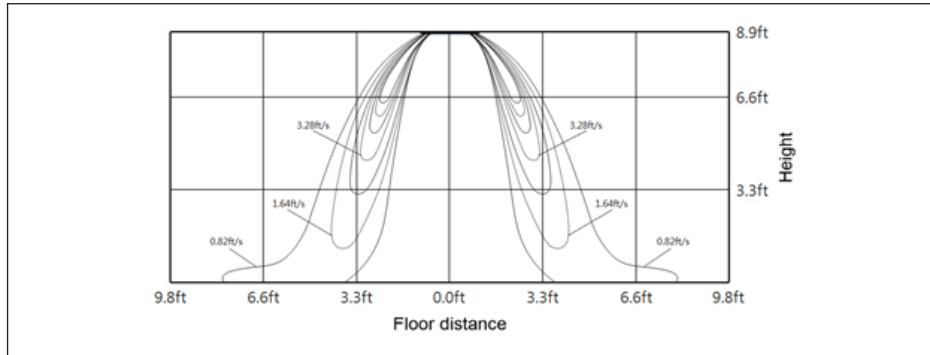


Temperature and air flow distribution

2) AM007KNNDCH/AA

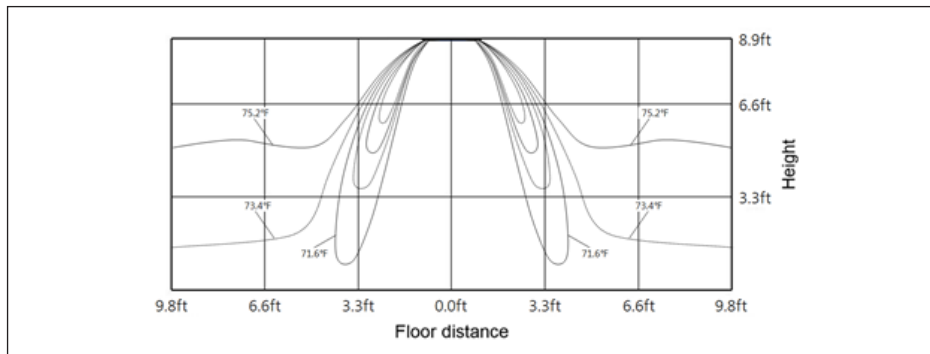
(1) Cooling air velocity distribution

◆ Discharge angle : 43°



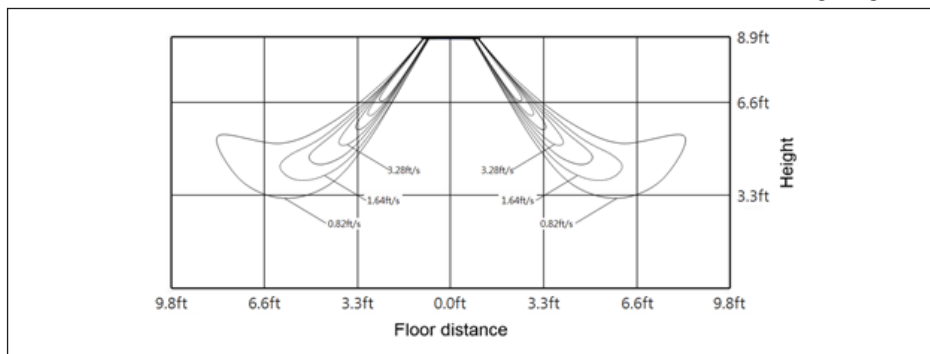
(2) Cooling temperature distribution

◆ Discharge angle : 43°



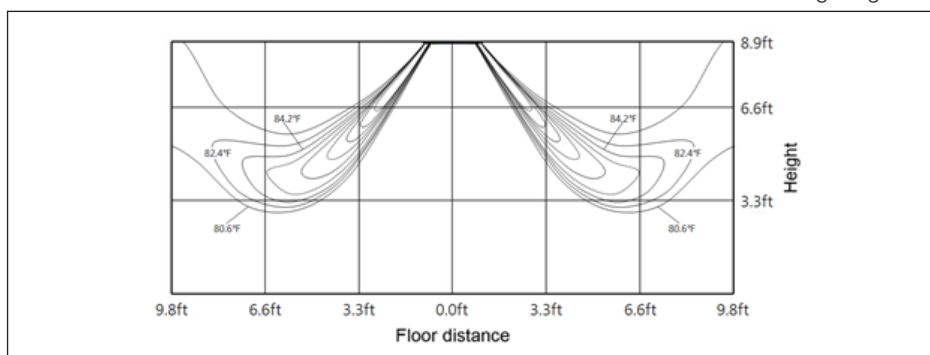
(3) Heating air velocity distribution

◆ Discharge angle : 50°



(4) Heating temperature distribution

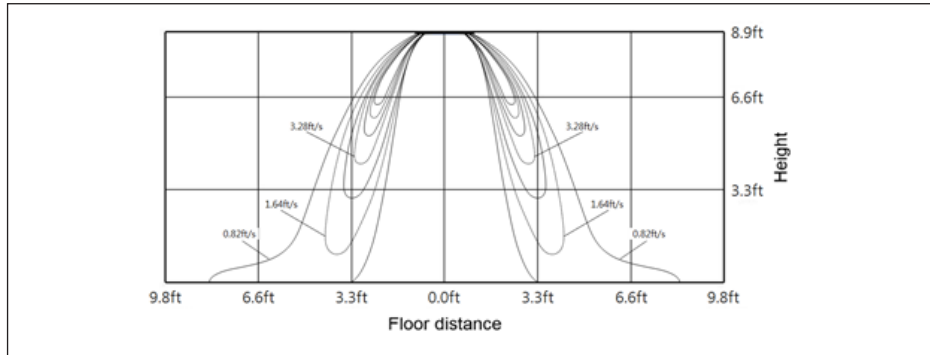
◆ Discharge angle : 50°



3) AM009FNNDCH/AA

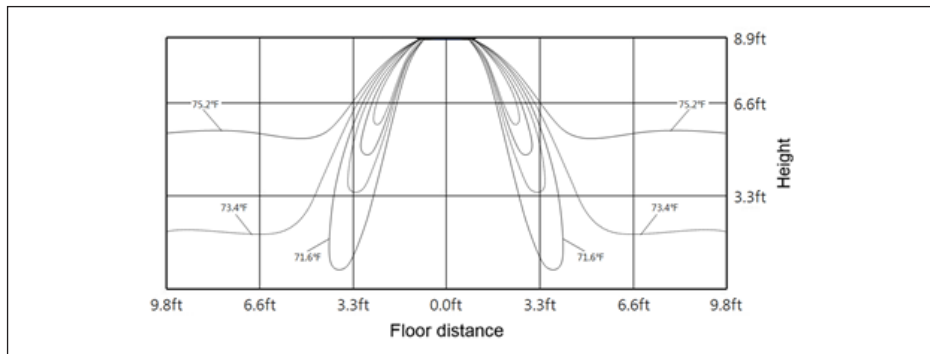
(1) Cooling air velocity distribution

◆ Discharge angle : 43°



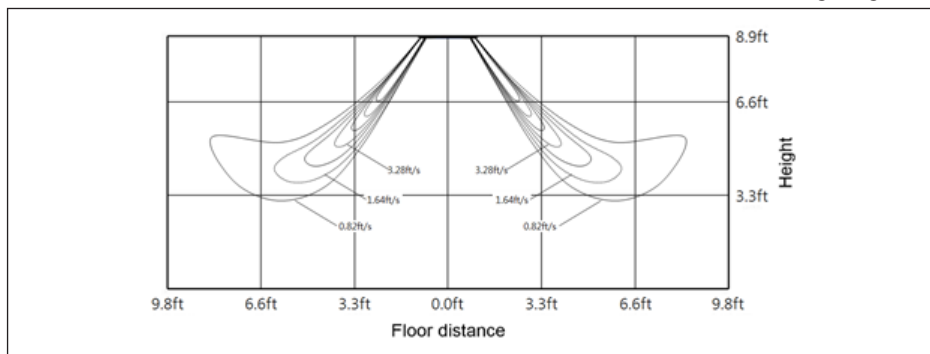
(2) Cooling temperature distribution

◆ Discharge angle : 43°



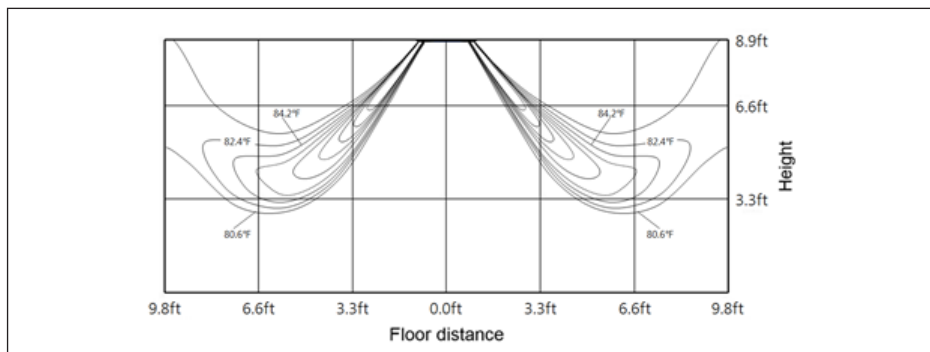
(3) Heating air velocity distribution

◆ Discharge angle : 50°



(4) Heating temperature distribution

◆ Discharge angle : 50°

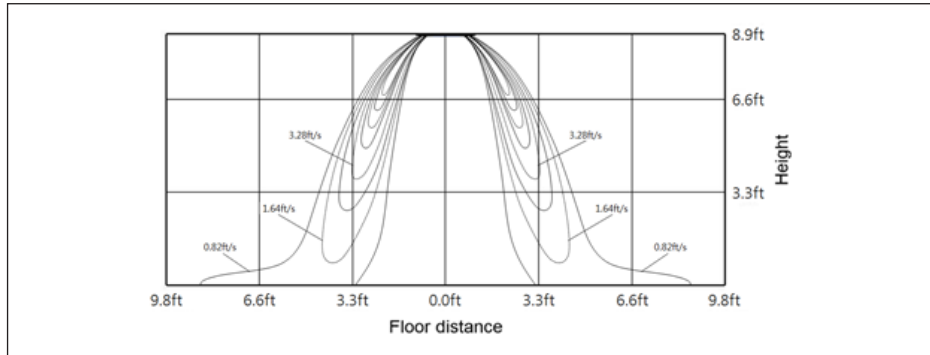


Temperature and air flow distribution

4) AM012FNNDCH/AA

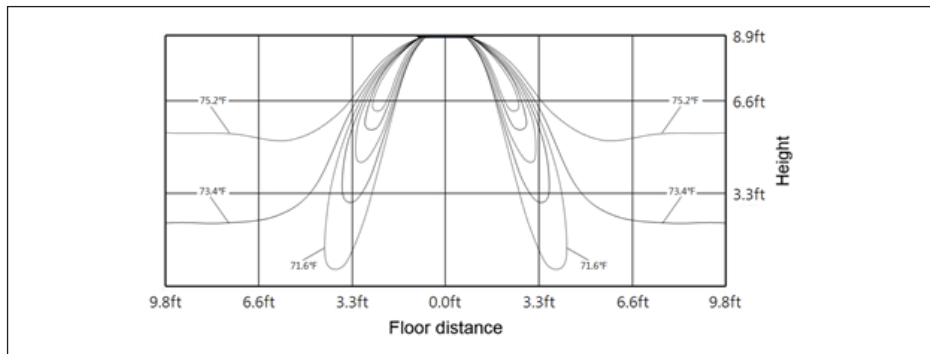
(1) Cooling air velocity distribution

◆ Discharge angle : 43°



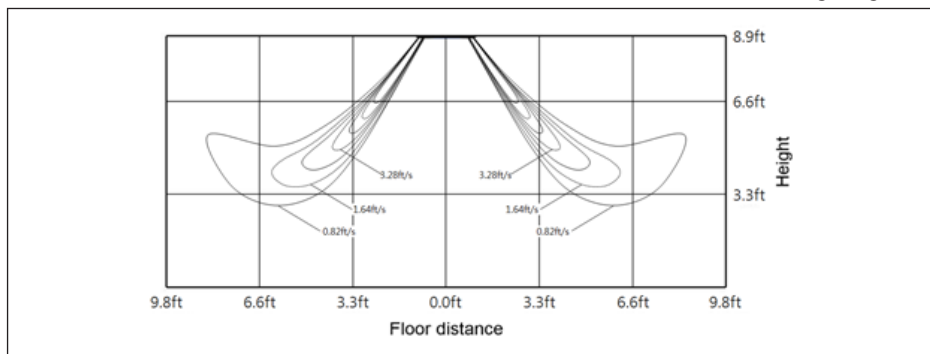
(2) Cooling temperature distribution

◆ Discharge angle : 43°



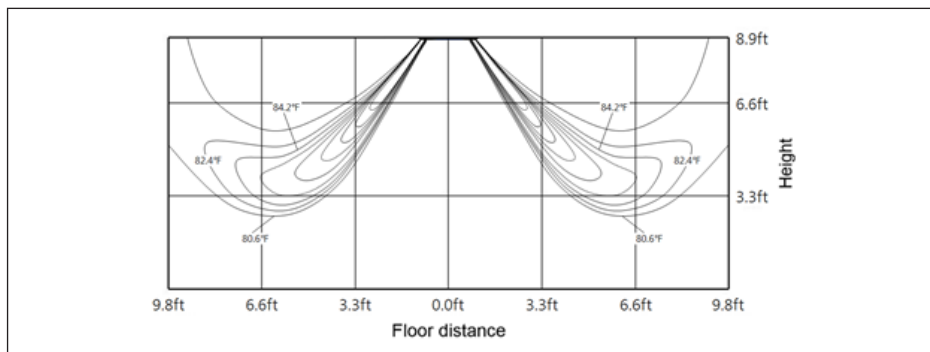
(3) Heating air velocity distribution

◆ Discharge angle : 50°



(4) Heating temperature distribution

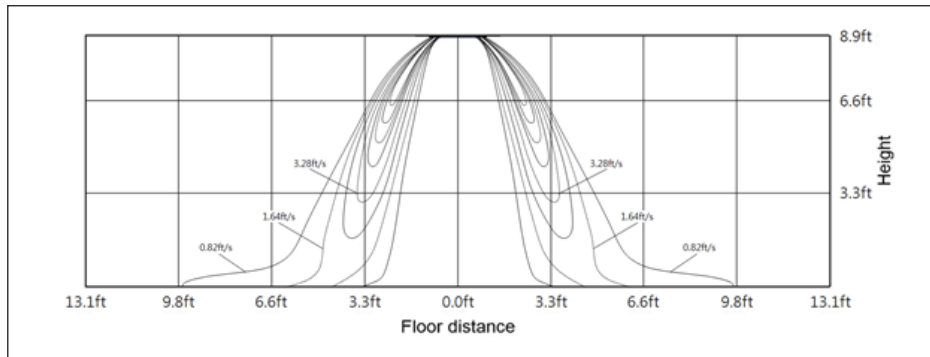
◆ Discharge angle : 50°



5) AM018FNNDCH/AA

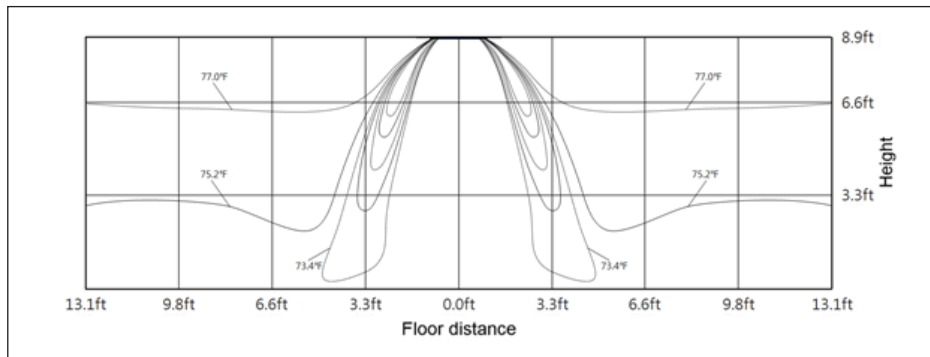
(1) Cooling air velocity distribution

◆ Discharge angle : 43°



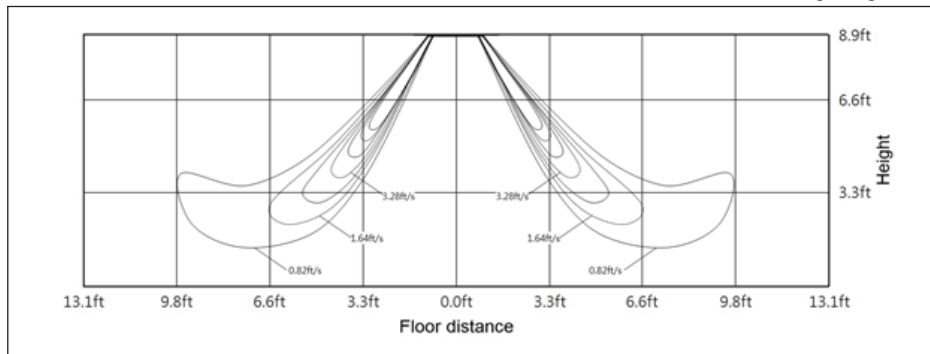
(2) Cooling temperature distribution

◆ Discharge angle : 43°



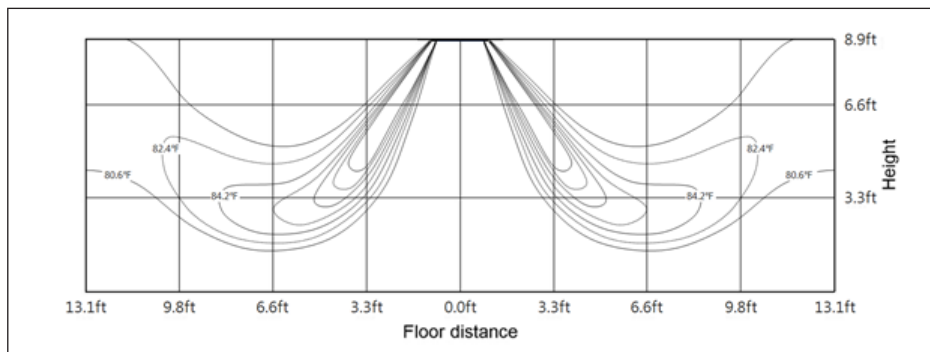
(3) Heating air velocity distribution

◆ Discharge angle : 50°



(4) Heating temperature distribution

◆ Discharge angle : 50°

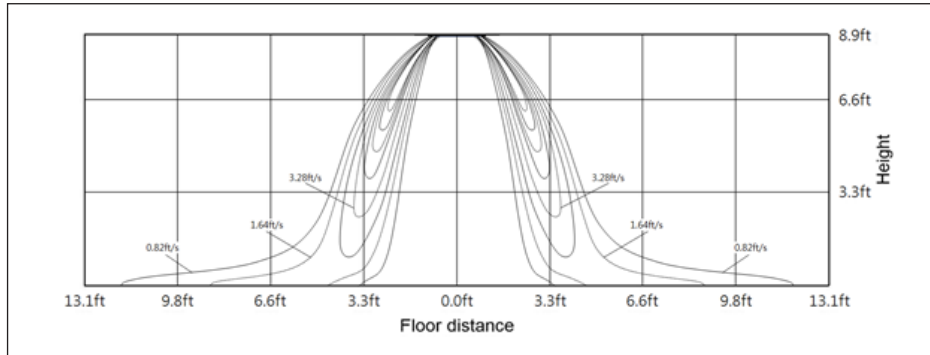


Temperature and air flow distribution

6) AM020FNNDCH/AA

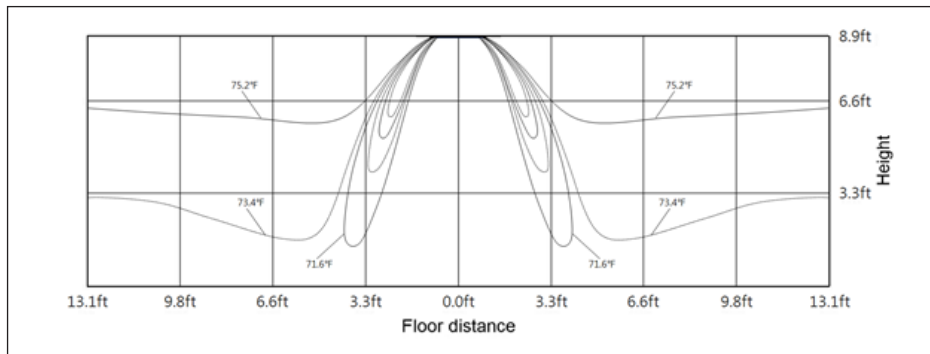
(1) Cooling air velocity distribution

◆ Discharge angle : 43°



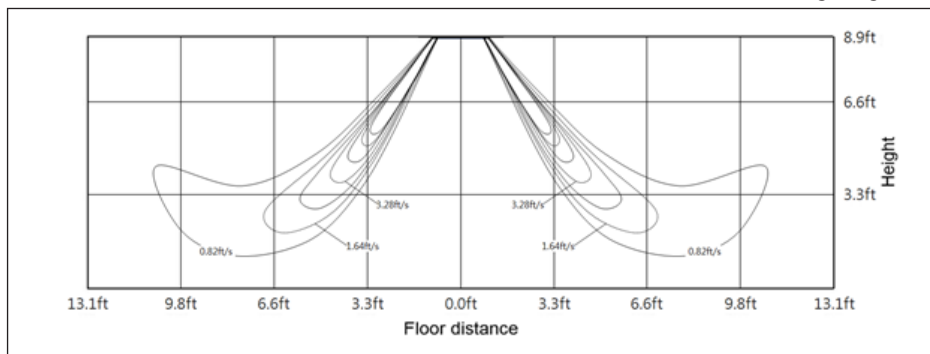
(2) Cooling temperature distribution

◆ Discharge angle : 43°



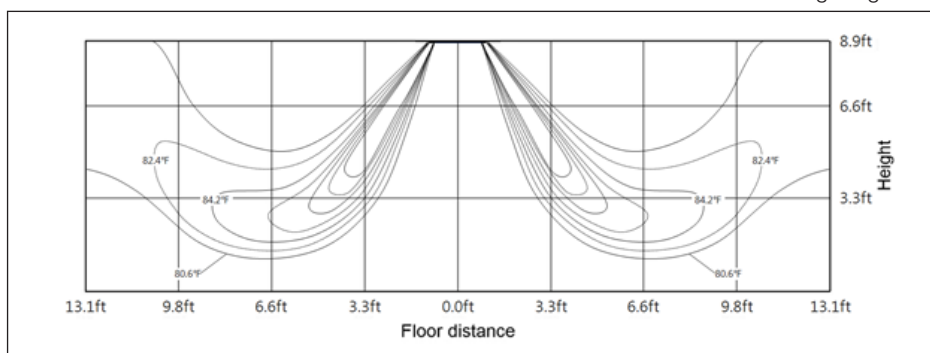
(3) Heating air velocity distribution

◆ Discharge angle : 50°



(4) Heating temperature distribution

◆ Discharge angle : 50°



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Samsung Electronics Co., LTD.

Head Office (Suwon Korea) 129, Samsung-Ro, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 16677
Website : www.samsung.com, <https://btsp.samsungsbn.com> Email : airconditioner@samsung.com
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