

VRF

Technical Data Book

4 way cassette S for America (R410A, 60Hz, HP)



Model : AM*FN4DCH*****

SAMSUNG

History

Version	Modification	Date	Remark
Ver.1.0	Release 4 way cassette interior for America (R410A, 60Hz, HP)	15.11.04	-

1 Nomenclature

Indoor Units

Model name

AM

024

F

N

4

D

C

H

/

AA

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②

③

④

⑤

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⑦

⑧

(Buyer)

① Classification

AM	DVM
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② Capacity

kBtu/h (3digits)

③ Version

E	2012
F	2013
G	2014

④ Product Type

X	Outdoor Unit
N	Indoor Unit

⑤ Product Notation

1	1 way cassette
2	2 way cassette
N	4 way cassette (interior)
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)

2 Specification

Specifications

1) Technical specifications

Model				AM009FN4DCH/AA	AM012FN4DCH/AA	AM018FN4DCH/AA	AM024FN4DCH/AA
Power Supply			Ø, V, Hz	1,208-230,60	1,208-230,60	1,208-230,60	1,208-230,60
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*1)	Btu/h	9,000	12,000	18,000	24,000
			US RT	0.75	1.00	1.50	2.00
		Heating*1)	Btu/h	10,000	13,500	20,000	27,000
			US RT	0.83	1.13	1.67	2.25
Power	Power Input (Nominal)	Cooling*1)	W	32.00	32.00	32.00	40.00
		Heating*1)		32.00	32.00	32.00	40.00
	Current Input (Nominal)	Cooling*1)	A	0.25	0.25	0.25	0.30
		Heating*1)		0.25	0.25	0.25	0.30
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)	CFM	547.40/494.42/423.79	547.40/494.42/423.79	547.40/494.42/423.79	618.03/565.06/494.42
	External Pressure	Min / Std / Max	Pa	-	-	-	-
Piping Connections	Liquid Pipe		Ø, mm	6.35	6.35	6.35	9.52
			Ø, inch	1/4	1/4	1/4	3/8
	Gas Pipe		Ø, mm	12.70	12.70	12.70	15.88
			Ø, inch	1/2	1/2	1/2	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)
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure*2)	High / Mid / Low	dBA	34.0/33.0/31.0	34.0/33.0/31.0	34.0/33.0/31.0	36.0/35.0/34.0
Dimensions	Net Weight		kg	15.00	15.00	15.00	15.00
			lbs	33.07	33.07	33.07	33.07
	Shipping Weight		kg	18.50	18.50	18.50	18.50
			lbs	40.79	40.79	40.79	40.79
	Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840
			inch	33.07 x 8.03 x 33.07	33.07 x 8.03 x 33.07	33.07 x 8.03 x 33.07	33.07 x 8.03 x 33.07
	Shipping Dimensions (WxHxD)		mm	898 x 275 x 898	898 x 275 x 898	898 x 275 x 898	898 x 275 x 898
			inch	35.35 x 10.83 x 35.35	35.35 x 10.83 x 35.35	35.35 x 10.83 x 35.35	35.35 x 10.83 x 35.35
Panel Size	Panel model		model name	PC4NUSKFN	PC4NUSKFN	PC4NUSKFN	PC4NUSKFN
	Panel Net Weight		kg	5.80	5.80	5.80	5.80
			lbs	12.79	12.79	12.79	12.79
	Shipping Weight		kg	8.40	8.40	8.40	8.40
			lbs	18.52	18.52	18.52	18.52
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
			inch	37.40 x 1.77 x 37.40	37.40 x 1.77 x 37.40	37.40 x 1.77 x 37.40	37.40 x 1.77 x 37.40
	Shipping Dimensions (WxHxD)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
inch			39.57 x 3.94 x 39.57	39.57 x 3.94 x 39.57	39.57 x 3.94 x 39.57	39.57 x 3.94 x 39.57	
Additional Accessories	Drain pump	Drain pump	model name	Built-in	Built-in	Built-in	Built-in
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life 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 was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

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

2 Specification

Specifications

1) Technical specifications

Model				AM030FN4DCH/AA	AM036FN4DCH/AA	AM048FN4DCH/AA
Power Supply			Ø, V, Hz	1,208-230,60	1,208-230,60	1,208-230,60
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling*1)	Btu/h	30,000	36,000	48,000
			US RT	2.50	3.00	4.00
		Heating*1)	Btu/h	34,000	40,000	54,000
			US RT	2.83	3.33	4.50
Power	Power Input (Nominal)	Cooling*1)	W	65.00	75.00	95.00
		Heating*1)		65.00	75.00	95.00
	Current Input (Nominal)	Cooling*1)	A	0.50	0.56	0.75
		Heating*1)		0.50	0.56	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)	CFM	776.95/688.66/600.37	847.58/776.95/706.32	1,024.16/953.53/847.58
	External Pressure	Min / Std / Max	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
Refrigerant	Drain Pipe		Ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
	Type	-	-	R410A	R410A	R410A
Sound	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
	Sound Pressure*2)	High / Mid / Low	dBA	39.0/34.0/30.0	40.0/37.0/33.0	44.0/42.0/39.0
Dimensions	Net Weight		kg	18.50	18.50	18.50
			lbs	40.79	40.79	40.79
	Shipping Weight		kg	23.00	23.00	23.00
			lbs	50.71	50.71	50.71
	Net Dimensions (W×H×D)		mm	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
			inch	33.07 x 11.34 x 33.07	33.07 x 11.34 x 33.07	33.07 x 11.34 x 33.07
	Shipping Dimensions (W×H×D)		mm	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
			inch	35.35 x 14.06 x 35.35	35.35 x 14.06 x 35.35	35.35 x 14.06 x 35.35
Panel Size	Panel model		model name	PC4NUSKFN	PC4NUSKFN	PC4NUSKFN
	Panel Net Weight		kg	5.80	5.80	5.80
			lbs	12.79	12.79	12.79
	Shipping Weight		kg	8.40	8.40	8.40
			lbs	18.52	18.52	18.52
	Net Dimensions (W×H×D)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
			inch	37.40 x 1.77 x 37.40	37.40 x 1.77 x 37.40	37.40 x 1.77 x 37.40
	Shipping Dimensions (W×H×D)		mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
			inch	39.57 x 3.94 x 39.57	39.57 x 3.94 x 39.57	39.57 x 3.94 x 39.57
Additional Accessories	Drain pump	Drain pump	model name	Built-in	Built-in	Built-in
		Max. lifting Height / Displacement	mm/liter/h	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life 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 was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

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

3 Capacity Table

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
009	50	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,200	6,500	10,800	6,200
	54	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,200	6,500	10,800	6,200
	58	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,800	6,200
	60	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	64	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	67	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	70	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	73	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	77	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	80	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	84	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	88	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	92	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	95	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	6,000
	99	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	5,900
	103	6,300	5,300	7,400	5,900	8,500	6,500	9,000	6,500	9,300	6,500	10,000	6,300	10,600	5,700
	107	6,300	5,300	7,400	5,900	8,500	6,500	8,700	6,300	9,000	6,300	9,300	6,000	9,700	5,300
	111	6,300	5,300	7,400	5,900	8,100	6,300	8,500	6,200	8,700	6,200	8,900	5,900	9,000	5,000
	115	6,300	5,300	7,400	5,900	8,100	6,300	8,500	6,200	8,700	6,200	8,900	5,900	9,000	5,000
	118	6,300	5,300	7,400	5,900	8,100	6,300	8,500	6,200	8,700	6,200	8,900	5,900	9,000	5,000
012	50	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,300	9,000
	54	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,300	9,000
	58	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,300	9,000
	60	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,300	9,000
	64	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,300	9,000
	67	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	70	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	73	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	77	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	80	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	84	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	88	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	92	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	95	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,300	9,300	14,000	8,700
	99	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	13,200	9,000	14,000	8,700
	103	8,300	7,300	9,700	8,300	11,300	9,000	12,000	9,300	12,300	9,300	12,900	9,000	13,700	8,562.5
	107	8,300	7,300	9,700	8,300	11,300	9,000	11,800	9,204	12,000	9,120	12,400	8,700	13,000	8,255
	111	8,300	7,300	9,700	8,300	11,000	8,800	11,500	8,970	11,700	9,009	12,000	8,520	12,400	7,998
	115	8,300	7,300	9,700	8,300	10,800	8,700	11,300	8,927	11,500	8,855	11,700	8,424	12,000	7,860
	118	8,300	7,300	9,700	8,300	10,700	8,667	11,100	8,880	11,300	8,814	11,400	8,322	11,800	7,788
018	50	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	20,300	12,500	21,500	11,900
	54	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	20,300	12,500	21,500	11,900
	58	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,500	11,900
	60	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	64	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	67	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	70	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	73	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	77	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	80	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	84	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	88	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	92	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	95	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	99	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	11,600
	103	12,500	10,300	14,800	11,300	17,000	12,500	18,000	12,500	18,600	12,500	19,900	12,200	21,200	10,900
	107	12,500	10,300	14,800	11,300	17,000	12,500	17,400	12,200	18,000	12,200	18,600	11,600	19,300	10,300
	111	12,500	10,300	14,800	11,300	16,100	12,200	17,000	11,900	17,400	11,900	17,700	11,300	18,000	9,600
	115	12,500	10,300	14,800	11,300	16,100	12,200	17,000	11,900	17,400	11,900	17,700	11,300	18,000	9,600
	118	12,500	10,300	14,800	11,300	16,100	12,200	17,000	11,900	17,400	11,900	17,700	11,300	18,000	9,600
024	50	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	27,000	17,200	28,700	16,200
	54	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,700	16,200
	58	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,700	16,200
	60	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,400	16,200
	64	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,400	16,200
	67	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,400	16,200
	70	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,400	16,200
	73	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,400	16,200
	77	16,600	13,500	19,600	15,200	22,600	16,200	24,000	16,900	25,000	16,900	26,700	16,900	28,400	1

3 Capacity Table

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
030	50	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,300	21,000	33,700	21,000	36,000	21,000
	54	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,300	21,000	33,700	21,000	36,000	21,000
	58	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,700	20,700
	60	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,700	20,700
	64	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	67	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	70	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	73	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	77	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	80	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	84	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	88	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	92	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	95	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,300	20,700	35,300	20,300
	99	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,000	31,000	21,000	33,000	20,300	34,700	20,000
	103	20,700	17,300	24,300	19,000	28,000	21,000	30,000	21,300	30,700	20,700	32,300	20,000	34,000	19,700
	107	20,700	17,300	24,300	19,000	28,000	21,000	29,000	20,700	29,700	20,700	31,000	19,300	32,000	19,300
	111	20,700	17,300	24,300	19,000	26,700	20,300	28,700	20,300	28,700	20,300	29,300	18,700	30,000	18,300
115	20,700	17,300	24,300	19,000	26,700	20,300	28,700	20,300	28,700	20,300	29,300	18,700	30,000	18,300	
118	20,700	17,300	24,300	19,000	26,700	20,300	28,700	20,300	28,700	20,300	29,300	18,700	30,000	18,300	
036	50	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	40,200	25,400	43,100	25,400
	54	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	40,200	25,400	43,100	25,400
	58	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	40,200	25,400	42,800	25,100
	60	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	40,200	25,400	42,800	25,100
	64	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	67	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	70	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	73	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	77	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	80	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	84	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	88	24,800	20,600	29,300	22,800	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	92	24,800	20,300	29,300	22,500	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	95	24,800	20,300	29,300	22,500	33,800	25,100	36,000	25,400	37,300	25,400	39,900	25,400	42,400	24,800
	99	24,800	20,300	29,300	22,500	33,800	25,100	36,000	25,400	37,300	25,400	39,500	25,100	41,800	24,400
	103	24,800	20,300	29,300	22,500	33,800	25,100	36,000	25,700	37,000	25,100	38,900	24,800	40,800	24,100
	107	24,800	20,300	29,300	22,500	33,800	25,100	35,000	24,800	35,700	24,400	37,300	24,100	38,600	23,800
	111	24,800	20,300	29,300	22,500	32,100	23,800	34,100	24,400	34,700	24,100	35,400	23,100	36,000	22,500
115	24,800	20,300	29,300	22,500	32,100	23,800	34,100	24,400	34,700	24,100	35,400	23,100	36,000	22,500	
118	24,800	20,300	29,300	22,500	32,100	23,800	34,100	24,400	34,700	24,100	35,400	23,100	36,000	22,500	
048	50	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	50,100	32,900	53,800	32,600	57,600	33,300
	54	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,500	32,900	57,300	32,900
	58	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,500	32,900	57,300	32,900
	60	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,500	32,900	56,900	32,600
	64	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,900	32,600
	67	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	70	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	73	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	77	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	80	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	84	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	88	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	92	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	95	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	53,100	32,600	56,600	32,200
	99	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,700	32,900	52,800	32,200	55,900	31,500
	103	33,300	26,400	39,100	29,100	44,900	32,200	48,000	32,900	49,400	32,200	51,800	31,900	54,500	30,900
	107	33,300	26,400	39,100	29,100	44,900	32,200	46,600	31,900	47,700	31,500	49,400	30,500	51,400	29,100
	111	33,300	26,400	39,100	29,100	42,900	31,200	45,600	31,500	45,900	30,200	47,000	28,800	48,000	27,800
115	33,300	26,400	39,100	29,100	42,900	31,200	45,600	31,500	45,900	30,200	47,000	28,800	48,000	27,800	
118	33,300	26,400	39,100	29,100	42,900	31,200	45,600	31,500	45,900	30,200	47,000	28,800	48,000	27,800	

3 Capacity Table

Capacity tables

2) Heating

TC : Total Capacity(Btu/h)

Model	Outdoor Temperature (F)		Indoor Temperature (F, DB)				
			61	65	70	72	75
	DB	WB	TC	TC	TC	TC	TC
009	-3.6	-4	6,450	6,300	6,200	6,100	6,100
	-1.8	-2	6,550	6,450	6,300	6,200	6,200
	2	1	6,600	6,600	6,350	6,300	6,300
	6	5	6,950	6,800	6,550	6,450	6,300
	10	9	7,250	7,100	6,950	6,950	6,800
	13	12	7,600	7,600	7,350	7,250	7,250
	17	15	7,850	7,750	7,600	7,500	7,350
	19	18	8,100	7,950	7,850	7,750	7,450
	23	21	8,600	8,450	8,200	8,100	7,750
	26	24	8,950	8,750	8,600	8,450	8,100
	30	28	9,150	9,000	8,750	8,600	8,200
	35	32	9,400	9,250	8,950	8,750	8,250
	39	36	9,750	9,750	9,400	9,250	8,750
	44	40	10,250	10,100	9,650	9,400	8,750
	47	43	10,750	10,600	10,000	9,600	8,750
	51	47	11,050	10,750	10,000	9,600	8,750
012	-3.6	-4	8,400	8,300	8,100	8,100	8,100
	-1.8	-2	8,800	8,500	8,200	8,200	8,100
	2	1	9,100	8,800	8,400	8,400	8,100
	6	5	9,500	9,100	8,800	8,800	8,400
	10	9	9,800	9,500	9,300	9,100	9,000
	13	12	10,200	10,100	10,000	9,800	9,600
	17	15	10,500	10,400	10,300	10,200	10,000
	19	18	10,900	10,700	10,500	10,500	10,200
	23	21	11,600	11,200	11,000	10,900	10,500
	26	24	11,900	11,700	11,400	11,200	10,900
	30	28	12,300	12,100	11,700	11,600	11,000
	35	32	12,600	12,500	12,100	11,900	11,400
	39	36	13,300	13,000	12,600	12,300	11,900
	44	40	13,800	13,600	13,000	12,600	11,900
	47	43	14,400	14,100	13,500	13,000	11,900
	51	47	14,800	14,400	13,500	13,000	11,900
018	-3.6	-4	12,900	12,600	12,400	12,200	12,200
	-1.8	-2	13,100	12,900	12,600	12,400	12,400
	2	1	13,200	13,200	12,700	12,600	12,600
	6	5	13,900	13,600	13,100	12,900	12,600
	10	9	14,500	14,200	13,900	13,900	13,600
	13	12	15,200	15,200	14,700	14,500	14,500
	17	15	15,700	15,500	15,200	15,000	14,700
	19	18	16,200	15,900	15,700	15,500	14,900
	23	21	17,200	16,900	16,400	16,200	15,500
	26	24	17,900	17,500	17,200	16,900	16,200
	30	28	18,300	18,000	17,500	17,200	16,400
	35	32	18,800	18,500	17,900	17,500	16,500
	39	36	19,500	19,500	18,800	18,500	17,500
	44	40	20,500	20,200	19,300	18,800	17,500
	47	43	21,500	21,200	20,000	19,200	17,500
	51	47	22,100	21,500	20,000	19,200	17,500
024	-3.6	-4	17,200	17,200	16,700	16,500	16,500
	-1.8	-2	17,500	17,400	16,800	16,700	16,700
	2	1	17,900	17,500	17,000	16,800	16,800
	6	5	18,600	18,200	17,500	17,200	16,800
	10	9	19,600	19,300	18,800	18,600	18,200
	13	12	20,700	20,300	19,800	19,600	19,600
	17	15	21,200	20,900	20,300	20,200	20,000
	19	18	21,700	21,400	20,900	20,700	20,300
	23	21	22,800	22,800	22,100	21,700	21,000
	26	24	24,200	23,800	23,000	22,400	21,700
	30	28	24,700	24,400	23,500	23,000	22,100
	35	32	25,200	24,900	24,000	23,500	22,400
	39	36	26,600	26,300	25,200	24,900	23,800
	44	40	27,700	27,400	26,100	25,200	23,800
	47	43	28,800	28,400	27,000	25,900	23,800
	51	47	29,800	28,800	27,000	25,900	23,800
	54	50	30,500	29,500	27,000	25,900	23,800
	57	53	31,600	29,800	27,000	25,900	23,800
	60	56	32,300	30,200	27,000	25,900	23,800

3 Capacity Table

Capacity tables

2) Heating

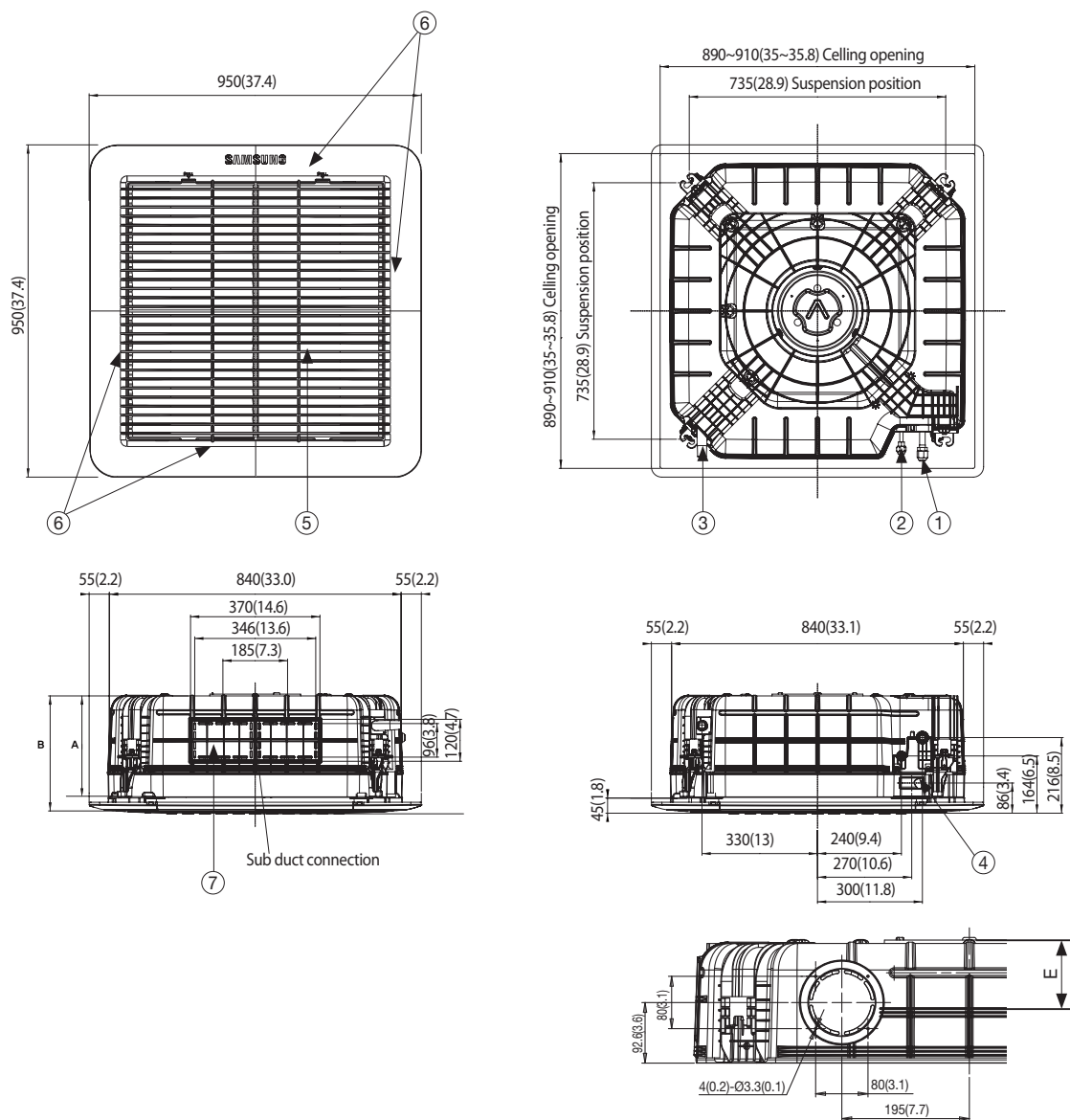
TC : Total Capacity(Btu/h)

Model	Outdoor Temperature (°F)		Indoor Temperature (°F, DB)				
			61	65	70	72	75
	DB	WB	TC	TC	TC	TC	TC
030	-3.6	-4	21,300	21,300	20,700	20,500	20,500
	-1.8	-2	21,800	21,800	21,100	20,900	20,700
	2	1	22,300	22,300	21,400	21,300	20,900
	6	5	23,700	23,000	22,000	21,600	21,300
	10	9	24,800	24,400	23,600	23,400	23,000
	13	12	25,900	25,500	25,000	24,800	24,800
	17	15	26,700	26,400	25,800	25,500	25,100
	19	18	27,600	27,300	26,600	26,200	25,500
	23	21	29,000	28,700	27,800	27,300	26,600
	26	24	30,500	30,100	29,200	28,700	27,300
	30	28	31,200	30,800	29,800	29,200	27,800
	35	32	31,900	31,500	30,500	29,800	28,300
	39	36	33,300	32,900	31,900	31,200	29,800
	44	40	35,100	34,400	32,900	31,900	29,800
	47	43	36,500	35,800	34,000	32,600	29,800
036	51	47	37,500	36,500	34,000	32,600	29,800
	54	50	38,600	37,200	34,000	32,600	29,800
	57	53	39,700	37,500	34,000	32,600	29,800
	60	56	41,100	38,300	34,000	32,600	29,800
	-3.6	-4	24,700	24,700	24,300	24,300	24,300
	-1.8	-2	25,700	25,300	24,800	24,700	24,500
	2	1	26,700	26,000	25,200	25,000	24,700
	6	5	28,000	27,000	26,000	25,700	25,000
	10	9	29,300	28,700	27,700	27,300	27,000
	13	12	30,700	30,000	29,500	29,300	29,000
	17	15	31,500	31,000	30,300	30,000	29,500
	19	18	32,300	32,000	31,000	30,700	30,000
	23	21	34,000	33,700	32,500	32,000	31,000
	26	24	35,700	35,300	34,300	33,700	32,300
	30	28	36,700	36,200	35,200	34,300	32,800
048	35	32	37,700	37,000	36,000	35,000	33,300
	39	36	39,300	38,700	37,500	36,700	35,300
	44	40	41,000	40,700	38,800	37,700	35,300
	47	43	43,000	42,300	40,000	38,300	35,300
	51	47	44,300	43,000	40,000	38,300	35,300
	54	50	45,700	43,700	40,000	38,300	35,300
	57	53	46,700	44,300	40,000	38,300	35,300
	60	56	48,000	45,000	40,000	38,300	35,300
	-3.6	-4	33,300	33,300	33,000	33,000	32,600
	-1.8	-2	34,400	34,000	33,300	33,300	32,800
	2	1	35,400	34,700	33,700	33,700	33,000
	6	5	37,500	36,500	34,900	34,400	33,300
	10	9	39,300	38,600	37,500	37,200	36,100
	13	12	41,000	40,700	39,800	39,600	38,900
	17	15	42,300	41,700	40,900	40,500	39,600
	19	18	43,500	42,800	41,900	41,400	40,300
	23	21	45,900	45,200	43,800	43,100	42,100
	26	24	48,400	47,700	46,100	45,200	43,500
	30	28	49,400	48,700	47,100	46,100	44,200
	35	32	50,500	49,800	48,000	47,000	44,900
	39	36	52,900	52,200	50,500	49,400	47,300
	44	40	55,400	54,700	52,100	50,500	47,300
	47	43	57,900	56,800	54,000	51,900	47,300
	51	47	59,600	57,900	54,000	51,900	47,300
	54	50	61,400	58,600	54,000	51,900	47,300
	57	53	63,100	59,600	54,000	51,900	47,300
	60	56	64,900	60,300	54,000	51,900	47,300

4 Dimensional Drawing

Dimensional drawing

Unit: mm(inch)

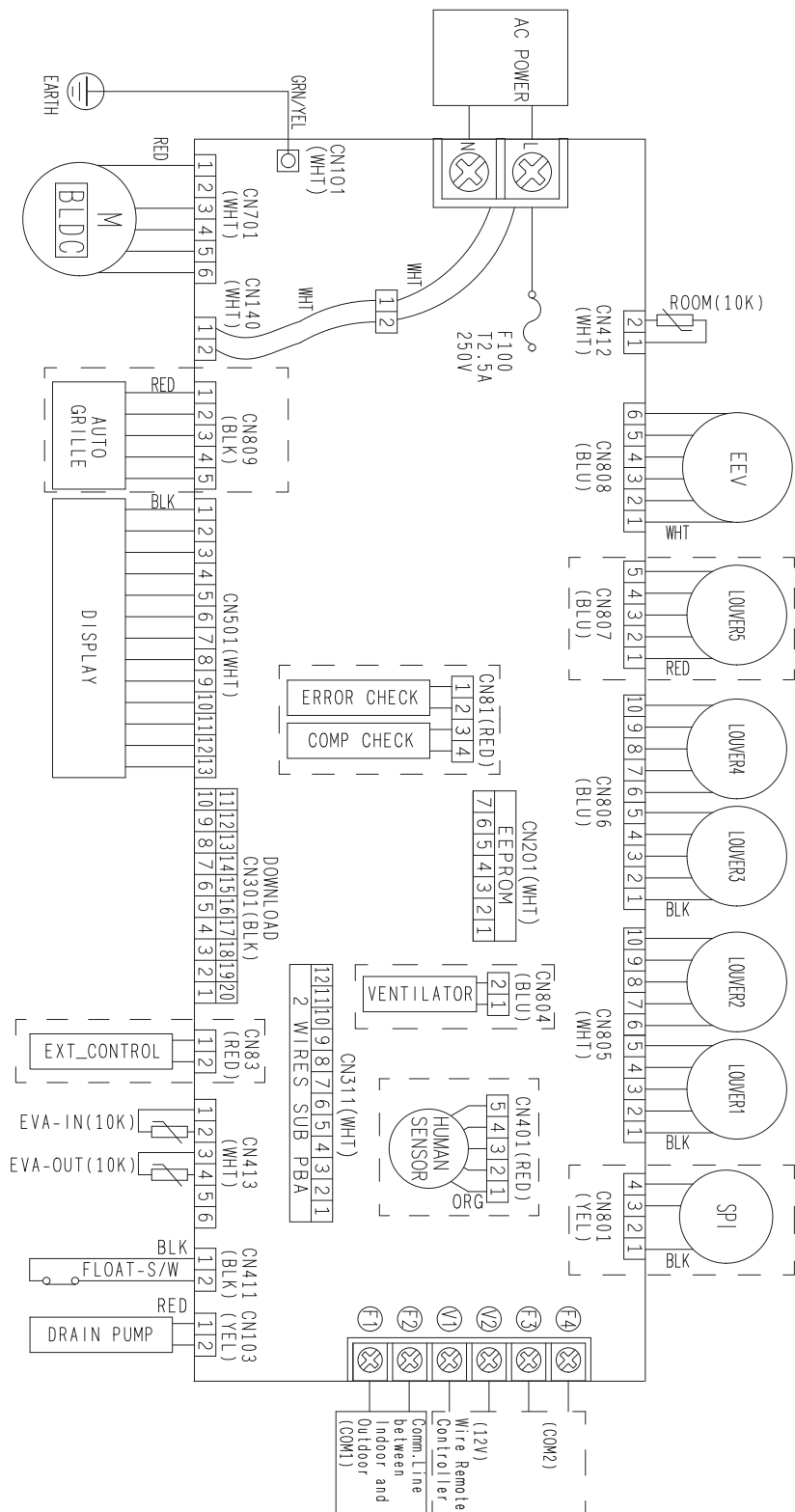


No.	Name	Description						
		9MBH	12MBH	18MBH	24MBH	30MBH	36MBH	48MBH
①	Liquid pipe connection	Ø6.35(1/4") Flare			Ø9.52(3/8") Flare			
②	Gas pipe connection	Ø12.70(1/2") Flare			Ø15.88(5/8") Flare			
③	Drain pipe connection	VP25 (OD 32, ID 25)/VP25 (OD 1 1/4", ID 1")						
④	Conduit for power supply & communication wiring	-						
⑤	Air inlet grille	-						
⑥	Air outlet louver	-						
⑦	Sub-Duct	-						

		Description	
		9/12/18/24 MBH	30/36/48 MBH
A	mm(inch)	204(8.0)	288(11.3)
B	mm(inch)	253(10.0)	337(13.3)

5

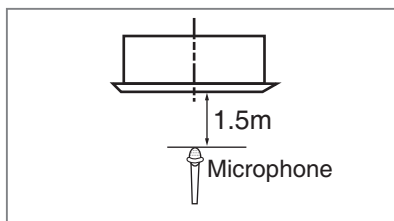
Electrical wiring diagram



6 Sound Pressure Level

Sound pressure level

1) Operation sound level



Unit : dB(A)

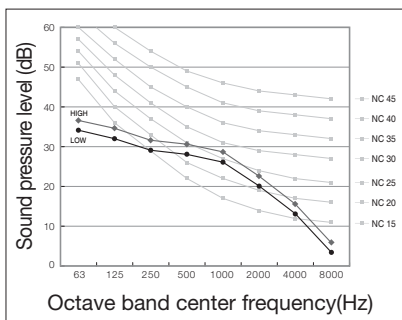
Model	High	Low
AM009FN4DCH/AA	34	31
AM012FN4DCH/AA	34	31
AM018FN4DCH/AA	34	31
AM024FN4DCH/AA	36	34
AM030FN4DCH/AA	39	30
AM036FN4DCH/AA	40	33
AM048FN4DCH/AA	44	39

✓ Note

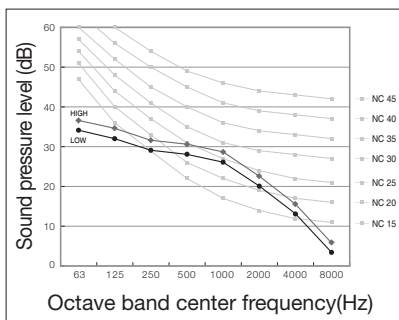
- ◆ These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- ◆ Operation sound level may differ depending on operation and ambient conditions.

2) NC curves

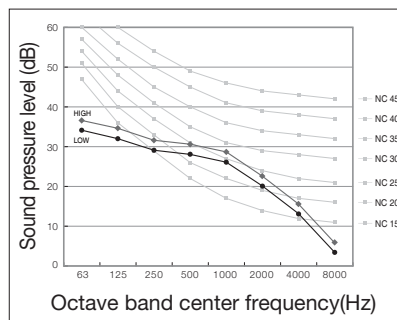
(1) AM009FN4DCH/AA



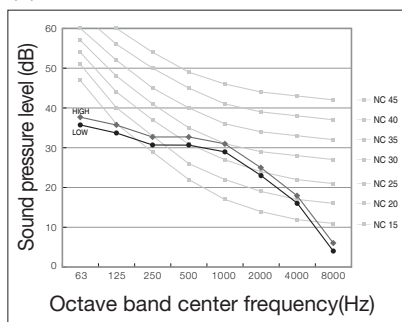
(2) AM012FN4DCH/AA



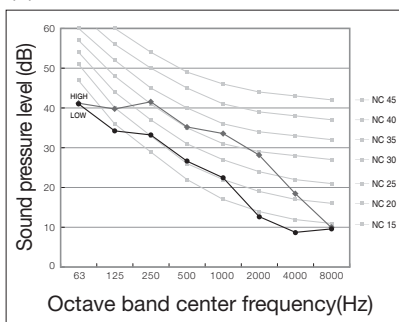
(3) AM018FN4DCH/AA



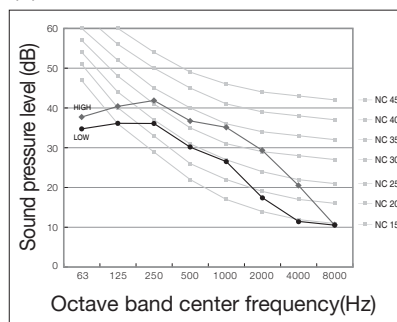
(4) AM024FN4DCH/AA



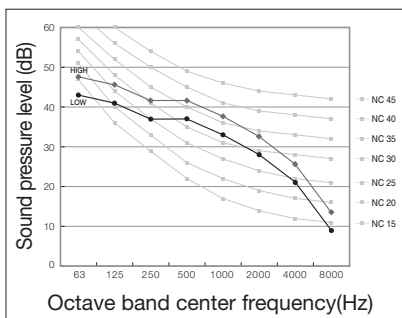
(5) AM030FN4DCH/AA



(6) AM036FN4DCH/AA



(7) AM048FN4DCH/AA



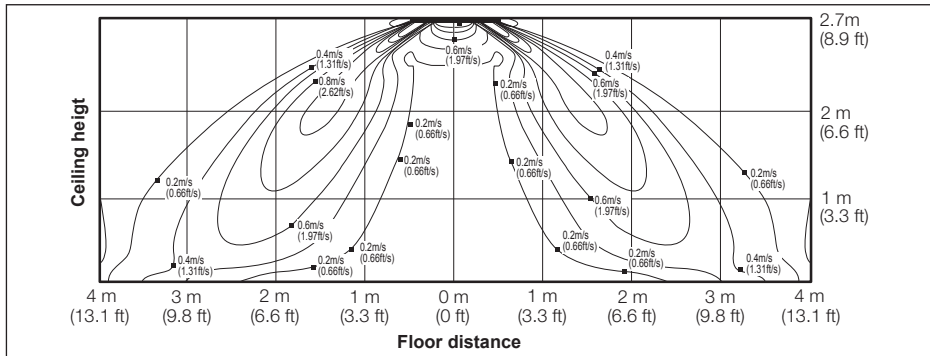
7 Temperature and Air Flow Distribution

Temperature and air flow distribution

1) AM030FN4DCH***

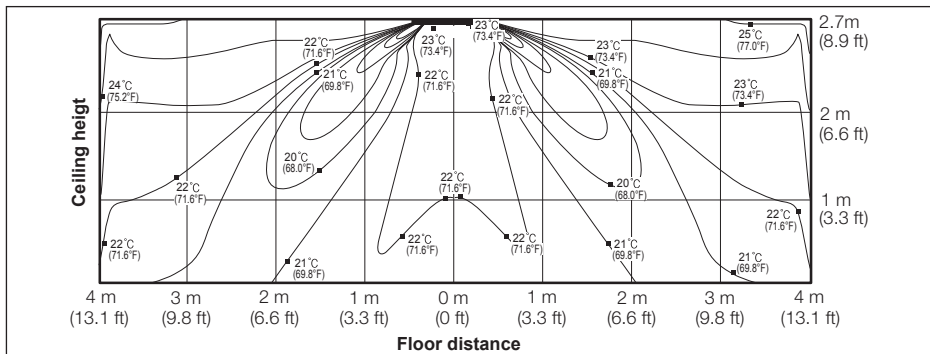
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



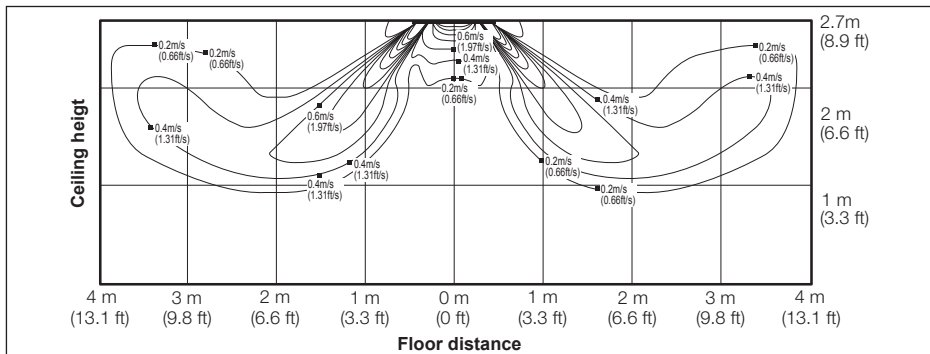
(2) Cooling temperature distribution

◆ Discharge angle : 45°



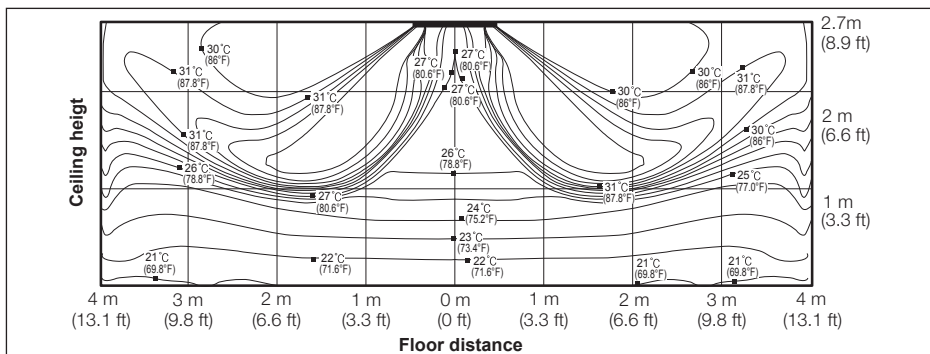
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



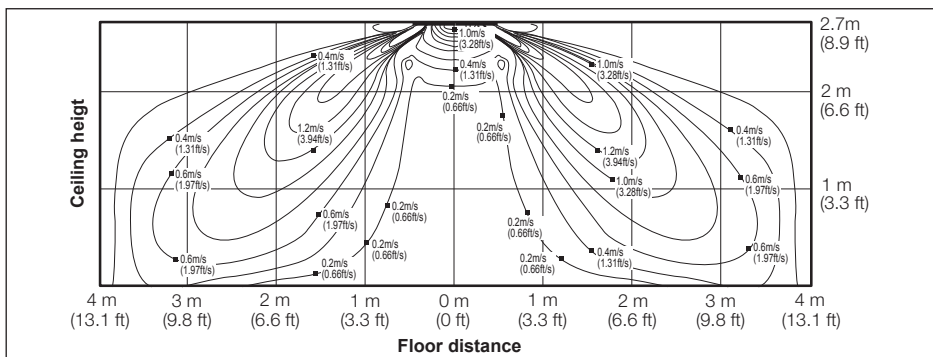
7 Temperature and Air Flow Distribution

Temperature and air flow distribution

2) AM036FN4DCH***

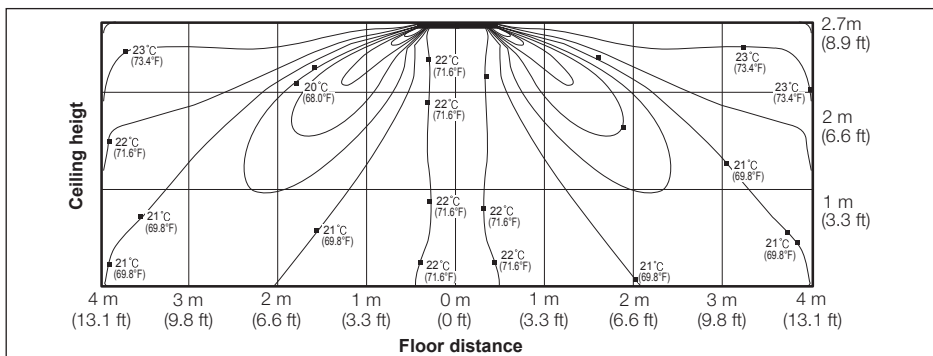
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



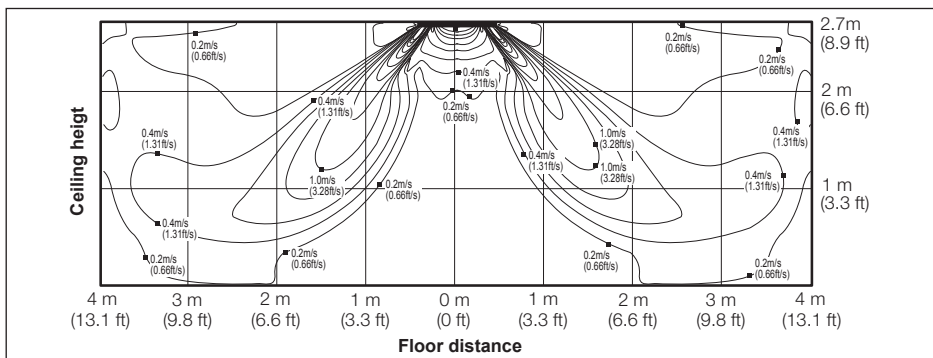
(2) Cooling temperature distribution

◆ Discharge angle : 45°



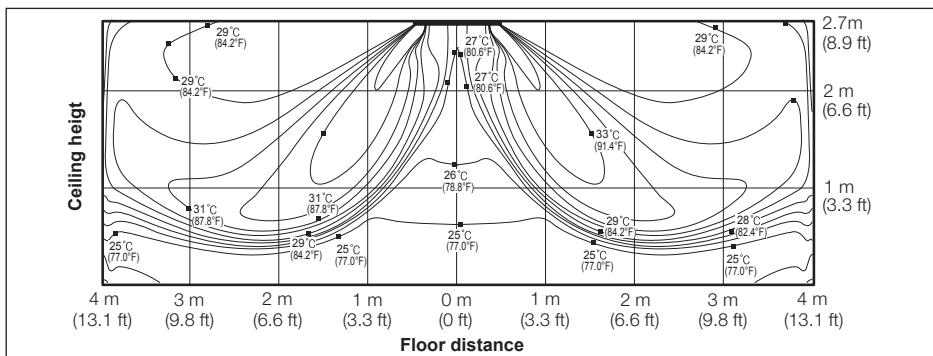
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



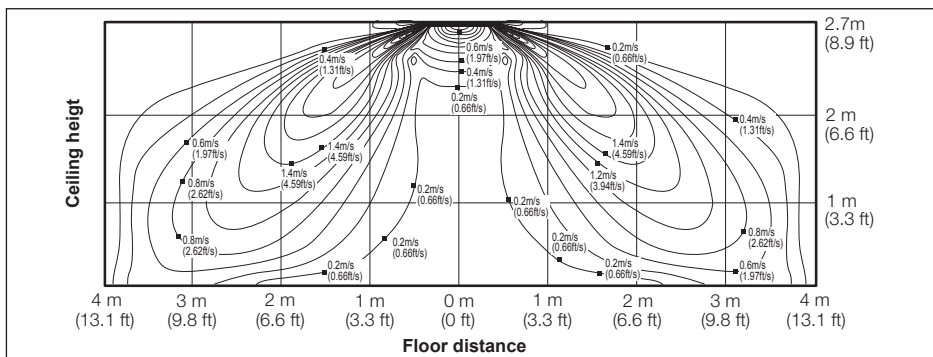
7 Temperature and Air Flow Distribution

Temperature and air flow distribution

3) AM048FN4DCH***

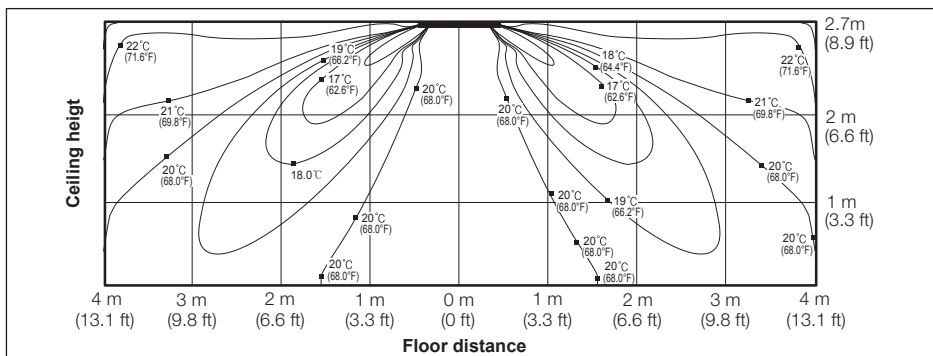
(1) Cooling air velocity distribution

◆ Discharge angle : 45°



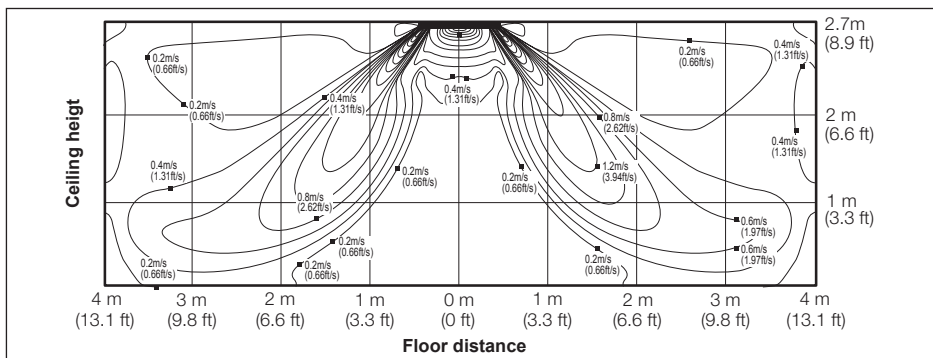
(2) Cooling temperature distribution

◆ Discharge angle : 45°



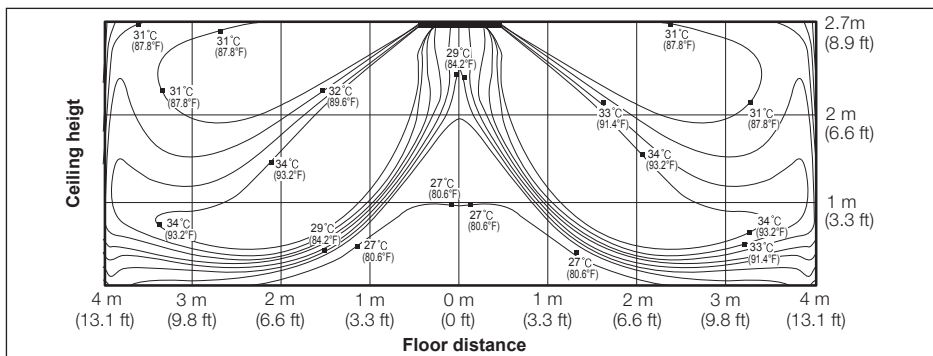
(3) Heating air velocity distribution

◆ Discharge angle : 52°



(4) Heating temperature distribution

◆ Discharge angle : 52°



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