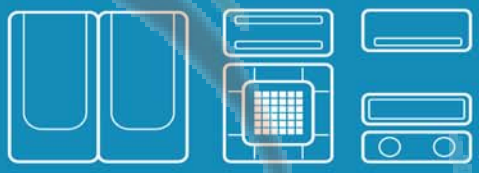
VRF

Technical Data Book

IDU 360 Cassette for NA(R410A/60Hz/HP)



Model : AM***KN4DCH/AA

SAMSUNG

History

Version	Modification	Date	Remark
1	Realease the TDB	16.02.24	
1.1	Modified the spec : shipping weight	16.03.09	
1.2	Revision of drwaing. (Note addition)	16.04.11	
1.3	Updated the Temperature and air flow distribution data(Added Discharge Angle)	18.06.11	
1.4	Updated the panel model code	19.01.07	

Nomenclature

Indoor Units

Model Names

AM	012	K	N	4	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	DVM

(2) Capacity

x 1000 BTU/h (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

X	Outdoor unit
N	Indoor unit

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
N	4Way Cassette S (600 x 600)
4	4Way Cassette S
L	LSP Duct (Slim Duct)
M	MSP Duct
H	HSP Duct
E	OAP Duct
C	Ceiling
J	Console
F	Concealed Floor Standing
Z	Vertical AHU
T	NEO FORTE
Q	NEO FORTE (EEV)

(6) Feature

D	Deluxe
S	Standard

(7) Rating Voltage

C	1Ø, 208~230V, 60Hz
F	3Ø, 208~230V, 60Hz
J	3Ø, 460V, 60Hz

(8) Mode

H	Heat Pump (R410A)
R	Heat Recovery (R410A)
C	Cooling only (R410A)

360 CST

1 Specifications

360 CST

Type				360 CST (Square)	360 CST (Square)	360 CST (Square)	360 CST (Square)
Model Name				AM009KN4DCH/AA	AM012KN4DCH/AA	AM018KN4DCH/AA	AM024KN4DCH/AA
Power Supply			Ø, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Mode			-	HP/HR	HP/HR	HP/HR	HP/HR
Performance	Ton			0.75	1.00	1.50	2.00
	Capacity (Nominal)	Cooling	kW	2.64	3.52	5.28	7.03
			Btu/h	9,000	12,000	18,000	24,000
			US RT	0.75	1.00	1.50	2.00
		Heating	kW	2.93	3.96	5.86	7.91
			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	W	26.00	26.00	26.00	38.00
		Heating		26.00	26.00	26.00	38.00
	Current Input (Nominal)	Cooling	A	0.18	0.18	0.18	0.28
		Heating		0.18	0.18	0.18	0.28
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	H/M/L (UL)	CFM	565.06 / 529.74 / 494.42	565.06 / 529.74 / 494.42	565.06 / 529.74 / 494.42	671.00 / 582.71 / 512.08
	External Pressure	Min / Std / Max	Pa	-	-	-	-
			In Wg	-	-	-	-
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)
Field Wiring	Power Source Wire		mm²	AWG 14	AWG 14	AWG 14	AWG 14
	Transmission Cable		mm²	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED
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	33 / 31 / 29	33 / 31 / 29	38 / 35 / 32
	Power	Cooling		-	-	-	-
Dimensions	Net Weight		kg	21.00	21.00	21.00	21.00
			lbs	46.30	46.30	46.30	46.30
	Shipping Weight		kg	25.00	25.00	25.00	25.00
			lbs	55.12	55.12	55.12	55.12
	Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947
			inch	37.28 x 11.06 x 37.28	37.28 x 11.06 x 37.28	37.28 x 11.06 x 37.28	37.28 x 11.06 x 37.28
	Shipping Dimensions (WxHxD)		mm	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990	990 x 330 x 990
			inch	38.98 x 12.99 x 38.98	38.98 x 12.99 x 38.98	38.98 x 12.99 x 38.98	38.98 x 12.99 x 38.98
Panel Size	Panel Model(Square)		-	PC4N*DM*N	PC4N*DM*N	PC4N*DM*N	PC4N*DM*N
	Panel Net Weight		kg	3.60	3.60	3.60	3.60
			lbs	7.94	7.94	7.94	7.94
	Shipping Weight		kg	6.00	6.00	6.00	6.00
			lbs	13.23	13.23	13.23	13.23
	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
			inch	39.37 x 2.60 x 39.37	39.37 x 2.60 x 39.37	39.37 x 2.60 x 39.37	39.37 x 2.60 x 39.37
	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
			inch	43.03 x 3.35 x 42.64	43.03 x 3.35 x 42.64	43.03 x 3.35 x 42.64	43.03 x 3.35 x 42.64

* Specifications are subject to change without prior notice.

1)Nominal capacity are based on (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. Optional ceiling panels

3) (Detailed specifications for other panels are available on demensional drawing pages.)

. Square type : PC4NUDMAN (White), PC4NBDMAN (Black) . Circle type : PC4NUNMAN (White), PC4NBNMAN (Black)

※ When installing the circular panel on the ceiling, make sure to install 2 or more inspection holes for the maintenance.
(For further information, please refer to the installation manual.)

1 Specifications

360 CST

Type				360 CST (Square)	360 CST (Square)	360 CST (Square)
Model Name				AM030KN4DCH/AA	AM036KN4DCH/AA	AM048KN4DCH/AA
Power Supply			Ø, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Ton			2.50	3.00	4.00
	Capacity (Nominal)	Cooling	kW	8.79	10.55	14.07
			Btu/h	30,000	36,000	48,000
			US RT	2.50	3.00	4.00
		Heating	kW	9.96	11.72	15.83
			Btu/h	34,000	40,000	54,000
			US RT	2.83	3.33	4.50
Power	Power Input (Nominal)	Cooling	W	54.00	71.00	91.00
		Heating		54.00	71.00	91.00
	Current Input (Nominal)	Cooling	A	0.42	0.57	0.75
		Heating		0.42	0.57	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	H/M/L (UL)	CFM	900.56 / 794.61 / 706.32	988.85 / 882.90 / 776.95	1,112.45 / 953.53 / 847.58
	External Pressure	Min / Std / Max	Pa	-	-	-
			In Wg	-	-	-
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		mm²	AWG 14	AWG 14	AWG 14
	Transmission Cable		mm²	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Pressure	High / Mid / Low	dB(A)	40 / 38 / 36	43 / 40 / 38	44 / 42 / 39
	Power	Cooling		-	-	-
Dimensions	Net Weight		kg	24.00	24.00	24.00
			lbs	52.91	52.91	52.91
	Shipping Weight		kg	29.00	29.00	29.00
			lbs	63.93	63.93	63.93
	Net Dimensions (WxHxD)		mm	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
			inch	37.28 x 14.37 x 37.28	37.28 x 14.37 x 37.28	37.28 x 14.37 x 37.28
	Shipping Dimensions (WxHxD)		mm	990 x 414 x 990	990 x 414 x 990	990 x 414 x 990
			inch	38.98 x 16.30 x 38.98	38.98 x 16.30 x 38.98	38.98 x 16.30 x 38.98
Panel Size	Panel Model(Square)		-	PC4N*DM*N	PC4N*DM*N	PC4N*DM*N
	Panel Net Weight		kg	3.60	3.60	3.60
			lbs	7.94	7.94	7.94
	Shipping Weight		kg	6.00	6.00	6.00
			lbs	13.23	13.23	13.23
	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
			inch	39.37 x 2.60 x 39.37	39.37 x 2.60 x 39.37	39.37 x 2.60 x 39.37
	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
			inch	43.03 x 3.35 x 42.64	43.03 x 3.35 x 42.64	43.03 x 3.35 x 42.64

* Specifications are subject to change without prior notice.

1)Nominal capacity are based on (Refrigerant Piping 25ft , Level Differences 0ft);
.Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
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2) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

3) Optional ceiling panels (Detailed specifications for other panels are available on demensional drawing pages.)

. Square type : PC4NUDMAN (White), PC4NBDMAN (Black) . Circle type : PC4NUNMAN (White), PC4NBNMAN (Black)

※ When installing the circular panel on the ceiling, make sure to install 2 or more inspection holes for the maintenance.
(For further information, please refer to the installation manual.)

2 Capacity table

360 CST

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (°F, DB)	Indoor temperature (°F)													
		68 (20.0°C, DB) 57 (13.9°C, WB)		73 (22.8°C, DB) 61 (16.1°C, WB)		79 (26.1°C, DB) 64 (17.8°C, WB)		80 (26.7°C, DB) 67 (19.4°C, WB)		85 (29.4°C, DB) 70 (21.1°C, WB)		87 (30.6°C, DB) 72 (22.2°C, WB)		89 (31.7°C, DB) 75 (23.9°C, WB)	
		TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)
009	50.0	6.20	5.50	7.40	6.09	8.60	6.50	9.00	6.50	10.00	6.60	10.50	6.50	10.90	6.40
	54.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	10.00	6.60	10.40	6.50	10.70	6.20
	58.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	10.00	6.60	10.40	6.50	10.70	6.20
	60.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	10.00	6.50	10.30	6.40	10.70	6.20
	64.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	67.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	70.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	73.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	77.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	80.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	84.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	88.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	92.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	95.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.20
	99.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.90	6.50	10.30	6.40	10.70	6.10
	103.0	6.20	5.50	7.40	6.10	8.60	6.50	9.00	6.50	9.80	6.30	10.00	6.10	10.30	5.80
	107.0	6.20	5.50	7.40	6.10	8.60	6.50	8.90	6.40	9.60	6.20	9.90	6.00	10.20	5.70
	111.0	6.20	5.50	7.40	6.10	8.40	6.30	8.60	6.20	9.30	6.00	9.50	5.80	9.80	5.50
	115.0	6.20	5.50	7.40	6.00	8.20	6.20	8.40	6.10	9.00	5.80	9.20	5.60	9.50	5.30
	118.0	6.20	5.50	7.30	6.00	8.10	6.10	8.20	5.90	8.80	5.70	8.90	5.40	9.20	5.20
	120.0	6.10	5.40	7.20	5.90	8.00	6.00	8.10	5.90	8.60	5.60	8.80	5.30	9.00	5.10
012	50.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.88	9.40	14.45	9.22
	54.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.86	9.38	14.41	9.17
	58.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.86	9.38	14.41	9.17
	60.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.86	9.38	14.41	9.17
	64.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.86	9.38	14.41	9.17
	67.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.80	9.31	14.23	8.97
	70.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	73.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	77.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	80.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	84.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	88.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	92.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	95.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.26	9.50	13.77	9.28	14.15	8.90
	99.0	8.46	8.03	9.76	8.74	11.58	8.91	12.00	9.30	13.04	9.26	13.54	9.04	14.08	8.81
	103.0	8.46	8.03	9.76	8.74	11.57	8.90	11.98	9.28	12.99	9.21	13.38	8.88	13.76	8.49
	107.0	8.46	8.03	9.76	8.74	11.50	8.84	11.88	9.20	12.83	9.10	13.18	8.75	13.51	8.33
	111.0	8.46	8.03	9.76	8.74	11.19	8.61	11.52	8.92	12.37	8.78	12.68	8.42	13.03	8.03
	115.0	8.45	8.03	9.66	8.65	10.96	8.43	11.17	8.65	11.94	8.47	12.25	8.12	12.62	7.78
	118.0	8.36	7.94	9.56	8.56	10.80	8.31	10.95	8.48	11.68	8.29	11.93	7.92	12.26	7.56
	120.0	8.29	7.88	9.50	8.50	10.67	8.21	10.85	8.41	11.45	8.13	11.68	7.75	12.00	7.40
018	50.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	20.08	12.54	20.95	12.33	21.72	11.95
	54.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	20.06	12.52	20.93	12.31	21.72	11.94
	58.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.77	12.15	21.62	11.85
	60.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.71	12.09	21.46	11.68
	64.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	67.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	70.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	73.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	77.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	80.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	84.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	88.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	92.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	95.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.91	12.38	20.68	12.07	21.39	11.62
	99.0	12.71	10.47	14.89	11.22	17.37	12.43	18.00	12.50	19.79	12.26	20.56	11.87	21.26	11.28
	103.0	12.71	10.47	14.89	11.22	17.35	12.41	17.97	12.48	19.75	12.23	20.47	11.74	21.09	10.98
	107.0	12.71	10.47	14.89	11.22	17.25	12.34	17.82	12.37	19.52	12.09	20.17	11.57	20.71	10.78
	111.0	12.71	10.47	14.89	11.22	16.78	12.01	17.27	12.00	18.81	11.65	19.40	11.13	19.97	10.39
	115.0	12.71	10.47	14.74	11.11	16.44	11.77	16.75	11.64	18.15	11.25	18.73	10.74	19.34	10.06
	118.0	12.57	10.35	14.59	10.99	16.20	11.59	16.42	11.41	17.76	11.00	18.25	10.47	18.80	9.78
	120.0	12.47	10.27	14.49	10.91	16.01	11.46	16.27	11.30	17.41	10.79	17.87	10.25	18.40	9.57

2 Capacity table

360 CST

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (ºF, DB)	Indoor temperature (ºF)													
		68 (20.0ºC, DB) 57 (13.9ºC, WB)		73 (22.8ºC, DB) 61 (16.1ºC, WB)		79 (26.1ºC, DB) 64 (17.8ºC, WB)		80 (26.7ºC, DB) 67 (19.4ºC, WB)		85 (29.4ºC, DB) 70 (21.1ºC, WB)		87 (30.6ºC, DB) 72 (22.2ºC, WB)		89 (31.7ºC, DB) 75 (23.9ºC, WB)	
		TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)
024	50.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.90	17.30	28.00	17.10	29.00	16.60
	54.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.70	17.10	27.80	16.90	28.90	16.50
	58.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.70	17.10	27.80	16.90	28.80	16.50
	60.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.70	17.10	27.70	16.90	28.70	16.50
	64.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.70	17.10	27.70	16.90	28.60	16.50
	67.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	70.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	73.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	77.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	80.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	84.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	88.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	92.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	95.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.60	17.10	27.70	16.90	28.60	16.50
	99.0	16.80	13.70	19.70	15.30	23.20	16.50	24.00	16.90	26.30	16.70	27.20	16.50	28.00	16.10
	103.0	16.80	13.70	19.70	15.30	23.10	16.50	24.00	16.90	26.00	16.50	26.80	16.20	27.50	15.80
	107.0	16.80	13.70	19.70	15.30	23.00	16.40	23.80	16.70	25.70	16.30	26.40	15.90	27.00	15.50
	111.0	16.80	13.70	19.70	15.30	22.40	16.00	23.00	16.20	24.80	15.70	25.40	15.30	26.10	14.90
	115.0	16.80	13.60	19.50	15.10	21.90	15.60	22.30	15.70	23.90	15.20	24.50	14.80	25.30	14.50
	118.0	16.60	13.50	19.30	14.90	21.60	15.40	21.90	15.40	23.40	14.80	23.90	14.40	24.50	14.10
	120.0	16.50	13.40	19.20	14.80	21.40	15.20	21.70	15.30	22.90	14.60	23.40	14.10	24.00	13.80
030	50.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.64	21.06	35.06	21.03	36.36	20.96
	54.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.57	21.00	35.00	20.97	36.32	20.92
	58.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.73	20.70	36.04	20.65
	60.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.72	20.70	36.02	20.65
	64.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.63	20.62	35.78	20.43
	67.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	70.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	73.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	77.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	80.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	84.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	88.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	92.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	95.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.00	33.30	20.82	34.62	20.61	35.75	20.40
	99.0	21.08	17.30	24.59	18.90	28.80	20.95	30.00	21.02	32.98	20.53	34.10	20.23	35.03	20.02
	103.0	21.08	17.30	24.59	18.90	28.76	20.95	29.95	21.17	32.42	20.19	33.42	19.87	34.33	19.64
	107.0	21.08	17.30	24.59	18.90	28.59	20.83	29.69	20.99	32.04	19.95	32.93	19.58	33.71	19.29
	111.0	21.08	17.30	24.59	18.90	27.83	20.27	28.79	20.35	30.88	19.24	31.67	18.83	32.50	18.60
	115.0	21.07	17.28	24.34	18.71	27.26	19.86	27.92	19.74	29.80	18.57	30.58	18.18	31.48	18.01
	118.0	20.85	17.10	24.09	18.52	26.85	19.56	27.37	19.35	29.15	18.16	29.80	17.72	30.59	17.50
	120.0	20.68	16.96	23.92	18.38	26.54	19.33	27.12	19.18	28.59	17.82	29.18	17.35	29.94	17.13
036	50.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	40.15	25.47	41.90	25.47	43.51	25.47
	54.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	40.14	25.46	41.88	25.45	43.48	25.43
	58.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	40.03	25.38	41.72	25.28	43.19	25.16
	60.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	40.03	25.38	41.72	25.28	43.19	25.16
	64.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.89	25.38	41.48	25.19	42.90	24.89
	67.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	70.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	73.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	77.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	80.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	84.0	25.25	20.75	29.50	22.79	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	88.0	25.25	20.73	29.50	22.78	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	92.0	25.25	20.52	29.50	22.56	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	95.0	25.25	20.52	29.50	22.56	34.60	25.26	36.00	25.40	39.87	25.38	41.45	25.18	42.86	24.86
	99.0	25.25	20.52	29.50	22.56	34.60	25.27	36.00	25.43	39.56	25.10	40.91	24.79	42.11	24.48
	103.0	25.25	20.52	29.50	22.56	34.56	25.27	35.94	25.60	38.94	24.74	40.10	24.41	41.17	24.08
	107.0	25.25	20.52	29.50	22.56	34.35	25.12	35.63	25.38	38.48	24.45	39.51	24.05	40.43	23.65
	111.0	25.25	20.52	29.50	22.56	33.43	24.45	34.55	24.61	37.09	23.57	38.00	23.14	38.98	22.80
	115.0	25.23	20.50	29.20	22.34	32.75	23.95	33.50	23.87	35.79	22.75	36.70	22.34	37.75	22.09
	118.0	24.96	20.29	28.90	22.10	32.26	23.59	32.84	23.40	35.01	22.26	35.76	21.77	36.68	21.46
	120.0	24.76	20.12	28.70	21.95	31.89	23.32	32.54	23.19	34.34	21.83	35.02	21.32	35.91	21.01

2 Capacity table

360 CST

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity

Model	Outdoor Air Temp. (°F, DB)	Indoor temperature (°F)													
		68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)		85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
		57 (13.9°C, WB)		61 (16.1°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)		70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
		TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)	TC(MBH)	SHC(MBH)
048	50.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.75	32.86	56.05	32.97	58.15	33.37
	54.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.38	33.11	55.69	33.12	57.80	33.13
	58.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.38	33.12	55.66	33.10	57.74	33.07
	60.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.39	33.12	55.62	33.05	57.57	32.90
	64.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.16	32.90	55.37	32.81	57.48	32.81
	67.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.26	32.70	57.25	32.58
	70.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	73.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	77.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	80.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	84.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	88.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	92.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	95.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	53.13	32.87	55.23	32.67	57.16	32.49
	99.0	33.93	26.56	39.47	29.13	46.11	32.48	48.00	32.90	52.82	32.59	54.67	32.17	56.37	31.77
	103.0	33.93	26.56	39.47	29.13	46.06	32.44	47.92	32.83	51.94	32.11	53.48	31.67	54.98	31.08
	107.0	33.93	26.56	39.47	29.13	45.78	32.25	47.51	32.55	51.33	31.74	52.69	31.21	53.99	30.52
	111.0	33.93	26.56	39.47	29.13	44.56	31.38	46.06	31.56	49.48	30.59	50.68	30.02	52.05	29.42
	115.0	33.90	26.54	39.07	28.83	43.65	30.74	44.67	30.61	47.75	29.52	48.93	28.98	50.42	28.50
	118.0	33.54	26.26	38.66	28.53	42.99	30.28	43.79	30.01	46.71	28.89	47.69	28.25	48.99	27.69
	120.0	33.27	26.05	38.39	28.33	42.50	29.93	43.39	29.74	45.81	28.33	46.70	27.66	47.96	27.11

2 Capacity table

360 CST

Heating

TC : Total Capacity

Model	Outdoor Air Temp. (°F)		Indoor temperature (°F)				
			61 (16.1°C, DB)	65 (18.3°C, DB)	70 (21.1°C, DB)	72 (22.2°C, DB)	75 (23.9°C, DB)
	DB	WB	TC(MBH)	TC(MBH)	TC(MBH)	TC(MBH)	TC(MBH)
009	-12.6	-13.0	5.60	5.60	5.60	5.70	5.90
	-7.1	-7.6	6.00	6.00	6.00	6.00	6.10
	-3.6	-4.0	6.20	6.20	6.20	6.20	6.20
	-1.8	-2.2	6.30	6.30	6.30	6.30	6.30
	2.0	1.0	6.60	6.60	6.60	6.50	6.40
	6.0	5.0	6.90	6.80	6.60	6.60	6.40
	10.0	9.0	7.20	7.20	7.00	7.00	6.80
	13.0	12.0	7.60	7.60	7.50	7.50	7.30
	17.0	15.0	8.10	8.00	7.80	7.80	7.60
	19.0	18.0	8.60	8.30	8.10	8.00	7.80
	23.0	21.0	8.90	8.70	8.50	8.40	8.20
	26.0	24.0	9.40	9.20	8.90	8.70	8.50
	30.0	28.0	9.80	9.50	9.20	8.90	8.70
	35.0	32.0	10.00	9.70	9.40	9.10	8.80
	39.0	36.0	10.30	10.10	9.50	9.20	9.00
	44.0	40.0	10.90	10.50	9.80	9.40	9.00
	47.0	43.0	11.10	10.70	10.00	9.60	9.00
	51.0	47.0	11.60	10.80	10.00	9.60	9.00
	54.0	50.0	11.80	10.90	10.00	9.60	9.00
	57.0	53.0	11.90	11.00	10.00	9.60	9.00
	60.0	56.0	12.10	11.00	10.00	9.60	9.00
012	-12.6	-13.0	7.36	7.82	7.54	7.59	8.05
	-7.1	-7.6	8.04	8.18	7.89	7.92	8.09
	-3.6	-4.0	8.48	8.41	8.13	8.13	8.11
	-1.8	-2.2	8.71	8.53	8.25	8.24	8.12
	2.0	1.0	9.17	8.80	8.51	8.48	8.19
	6.0	5.0	9.51	9.14	8.85	8.80	8.54
	10.0	9.0	9.75	9.43	9.21	9.07	9.02
	13.0	12.0	10.09	10.00	9.81	9.66	9.64
	17.0	15.0	10.48	10.45	10.23	10.12	10.00
	19.0	18.0	10.89	10.82	10.54	10.50	10.22
	23.0	21.0	11.42	11.16	10.94	10.79	10.50
	26.0	24.0	11.84	11.67	11.29	11.10	10.82
	30.0	28.0	12.33	12.25	11.77	11.56	11.14
	35.0	32.0	12.83	12.70	12.24	11.98	11.50
	39.0	36.0	13.34	13.03	12.63	12.28	12.00
	44.0	40.0	13.85	13.78	13.07	12.65	12.04
	47.0	43.0	14.45	14.36	13.50	12.92	12.07
	51.0	47.0	14.91	14.44	13.50	12.92	12.07
	54.0	50.0	15.48	14.66	13.50	12.92	12.07
	57.0	53.0	15.75	14.68	13.50	12.92	12.07
	60.0	56.0	16.06	14.90	13.50	12.92	12.07
018	-12.6	-13.0	12.35	11.78	11.65	11.65	11.65
	-7.1	-7.6	12.72	12.35	12.08	12.02	12.02
	-3.6	-4.0	12.97	12.73	12.36	12.26	12.26
	-1.8	-2.2	13.09	12.92	12.50	12.38	12.38
	2.0	1.0	13.40	13.31	12.81	12.64	12.60
	6.0	5.0	13.96	13.68	13.20	13.01	12.72
	10.0	9.0	14.46	14.10	13.79	13.67	13.38
	13.0	12.0	15.12	14.89	14.54	14.39	14.31
	17.0	15.0	15.70	15.46	15.15	14.96	14.78
	19.0	18.0	16.23	15.90	15.69	15.47	15.02
	23.0	21.0	16.97	16.60	16.26	16.03	15.48
	26.0	24.0	17.66	17.31	16.92	16.59	16.08
	30.0	28.0	18.40	18.04	17.55	17.15	16.54
	35.0	32.0	19.05	18.75	18.14	17.72	16.97
	39.0	36.0	19.61	19.56	18.85	18.44	17.68
	44.0	40.0	20.69	20.43	19.48	18.81	17.72
	47.0	43.0	21.52	21.24	20.00	19.09	17.75
	51.0	47.0	22.34	21.57	20.00	19.09	17.75
	54.0	50.0	22.94	21.75	20.00	19.09	17.75
	57.0	53.0	23.40	21.99	20.00	19.09	17.75
	60.0	56.0	24.01	22.27	20.00	19.09	17.75

2 Capacity table

360 CST

Heating

TC : Total Capacity

Model	Outdoor Air Temp. (°F)		Indoor temperature (°F)				
			61 (16.1°C, DB)	65 (18.3°C, DB)	70 (21.1°C, DB)	72 (22.2°C, DB)	75 (23.9°C, DB)
	DB	WB	TC(MBH)	TC(MBH)	TC(MBH)	TC(MBH)	TC(MBH)
024	-12.6	-13.0	16.20	16.60	16.20	16.00	16.10
	-7.1	-7.6	16.90	17.00	16.50	16.40	16.40
	-3.6	-4.0	17.30	17.20	16.80	16.60	16.60
	-1.8	-2.2	17.60	17.40	16.90	16.70	16.70
	2.0	1.0	18.10	17.70	17.20	17.00	16.90
	6.0	5.0	18.80	18.40	17.70	17.40	17.10
	10.0	9.0	19.50	19.10	18.60	18.30	18.10
	13.0	12.0	20.40	20.10	19.60	19.40	19.30
	17.0	15.0	21.20	20.80	20.30	20.10	20.00
	19.0	18.0	21.80	21.40	20.90	20.70	20.50
	23.0	21.0	22.60	22.50	21.90	21.50	21.00
	26.0	24.0	23.80	23.50	22.70	22.20	21.60
	30.0	28.0	24.80	24.40	23.60	23.00	22.30
	35.0	32.0	25.70	25.30	24.40	23.80	23.00
	39.0	36.0	26.70	26.30	25.30	24.90	24.10
	44.0	40.0	28.00	27.60	26.30	25.30	24.10
	47.0	43.0	28.90	28.50	27.00	25.90	24.20
	51.0	47.0	30.00	28.90	27.00	25.90	24.20
	54.0	50.0	30.70	29.40	27.00	25.90	24.20
	57.0	53.0	31.50	29.60	27.00	25.90	24.20
	60.0	56.0	32.20	29.90	27.00	25.90	24.20
030	-12.6	-13.0	19.64	19.69	19.66	19.56	20.00
	-7.1	-7.6	20.71	20.69	20.37	20.23	20.40
	-3.6	-4.0	21.42	21.36	20.84	20.68	20.66
	-1.8	-2.2	21.77	21.69	21.08	20.90	20.79
	2.0	1.0	22.62	22.40	21.58	21.36	21.08
	6.0	5.0	23.90	23.15	22.18	21.84	21.55
	10.0	9.0	24.66	24.15	23.31	23.08	22.80
	13.0	12.0	25.63	25.22	24.63	24.46	24.37
	17.0	15.0	26.64	26.24	25.67	25.42	25.20
	19.0	18.0	27.66	27.27	26.58	26.20	25.65
	23.0	21.0	28.78	28.40	27.56	27.05	26.48
	26.0	24.0	30.04	29.65	28.76	28.16	27.24
	30.0	28.0	31.28	30.88	29.90	29.19	28.06
	35.0	32.0	32.33	31.94	30.85	30.07	28.94
	39.0	36.0	33.42	33.02	31.94	31.16	30.02
	44.0	40.0	35.40	34.67	33.13	31.90	30.10
	47.0	43.0	36.65	35.90	34.00	32.44	30.16
	51.0	47.0	37.86	36.59	34.00	32.44	30.16
	54.0	50.0	38.80	37.10	34.00	32.44	30.16
	57.0	53.0	39.62	37.35	34.00	32.44	30.16
	60.0	56.0	40.81	37.85	34.00	32.44	30.16
036	-12.6	-13.0	22.07	22.81	23.12	23.29	23.75
	-7.1	-7.6	23.82	24.07	23.95	23.97	24.14
	-3.6	-4.0	24.99	24.90	24.50	24.43	24.41
	-1.8	-2.2	25.57	25.32	24.77	24.66	24.54
	2.0	1.0	26.84	26.22	25.38	25.15	24.84
	6.0	5.0	28.18	27.20	26.19	25.82	25.37
	10.0	9.0	29.11	28.37	27.42	27.10	26.77
	13.0	12.0	30.30	29.66	29.03	28.81	28.60
	17.0	15.0	31.39	30.85	30.19	29.92	29.59
	19.0	18.0	32.44	32.00	31.12	30.73	30.16
	23.0	21.0	33.76	33.33	32.28	31.74	31.03
	26.0	24.0	35.23	34.82	33.77	33.09	32.08
	30.0	28.0	36.80	36.31	35.21	34.33	33.09
	35.0	32.0	38.15	37.56	36.38	35.39	34.09
	39.0	36.0	39.42	38.80	37.57	36.68	35.52
	44.0	40.0	41.52	40.93	39.03	37.63	35.63
	47.0	43.0	43.19	42.38	40.00	38.18	35.69
	51.0	47.0	44.67	43.09	40.00	38.18	35.69
	54.0	50.0	45.79	43.62	40.00	38.18	35.69
	57.0	53.0	46.64	44.02	40.00	38.18	35.69
	60.0	56.0	47.85	44.56	40.00	38.18	35.69

2 Capacity table

360 CST

Heating

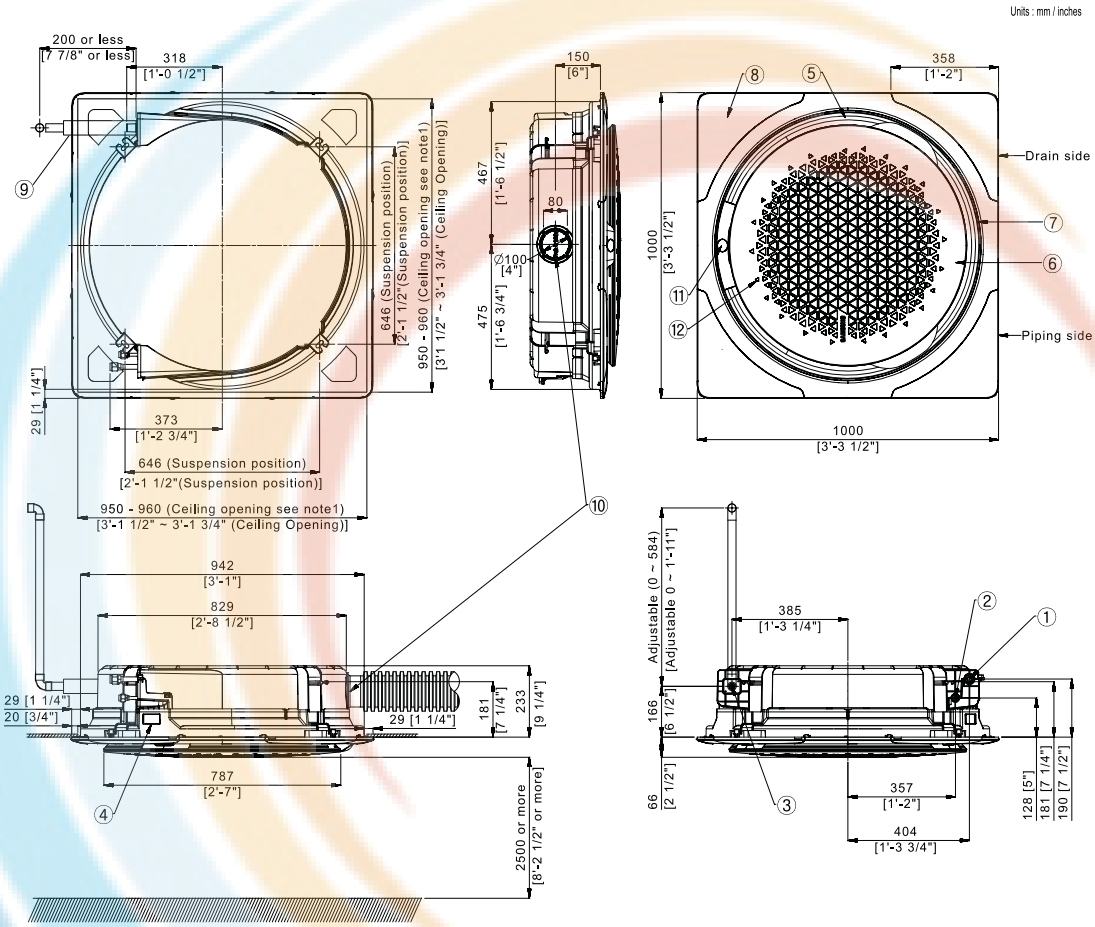
TC : Total Capacity

Model	Outdoor Air Temp. (ºF)		Indoor temperature (ºF)				
			61 (16.1ºC, DB)	65 (18.3ºC, DB)	70 (21.1ºC, DB)	72 (22.2ºC, DB)	75 (23.9ºC, DB)
	DB	WB	TC(MBH)	TC(MBH)	TC(MBH)	TC(MBH)	TC(MBH)
048	-12.6	-13.0	30.07	31.26	31.88	31.93	32.14
	-7.1	-7.6	32.17	32.58	32.62	32.62	32.54
	-3.6	-4.0	33.57	33.46	33.12	33.08	32.80
	-1.8	-2.2	34.26	33.90	33.37	33.32	32.93
	2.0	1.0	35.83	34.96	33.99	33.83	33.22
	6.0	5.0	37.79	36.68	35.25	34.69	33.84
	10.0	9.0	39.05	38.19	37.10	36.65	35.81
	13.0	12.0	40.65	40.11	39.25	38.96	38.33
	17.0	15.0	42.13	41.58	40.75	40.38	39.72
	19.0	18.0	43.54	42.84	41.95	41.39	40.56
	23.0	21.0	45.47	44.71	43.47	42.77	41.91
	26.0	24.0	47.64	46.86	45.37	44.49	43.29
	30.0	28.0	49.61	48.83	47.17	46.10	44.55
	35.0	32.0	51.25	50.49	48.73	47.57	45.87
	39.0	36.0	53.12	52.36	50.60	49.44	47.75
	44.0	40.0	55.97	55.10	52.42	50.58	47.88
	47.0	43.0	58.12	56.98	54.00	51.64	48.00
	51.0	47.0	60.11	57.95	54.00	51.64	48.00
	54.0	50.0	61.65	58.52	54.00	51.64	48.00
	57.0	53.0	63.02	59.24	54.00	51.64	48.00
	60.0	56.0	64.54	59.81	54.00	51.64	48.00

3 Dimensional drawing

360 CST (Square)

AM009KN4DCH/AA, AM012KN4DCH/AA, AM018KN4DCH/AA, AM024KN4DCH/AA



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. **Square panel code : PC4NUDMAN, PC4NUDMUN (White), PC4NBDMAN, PC4NBDMUN (Black)**

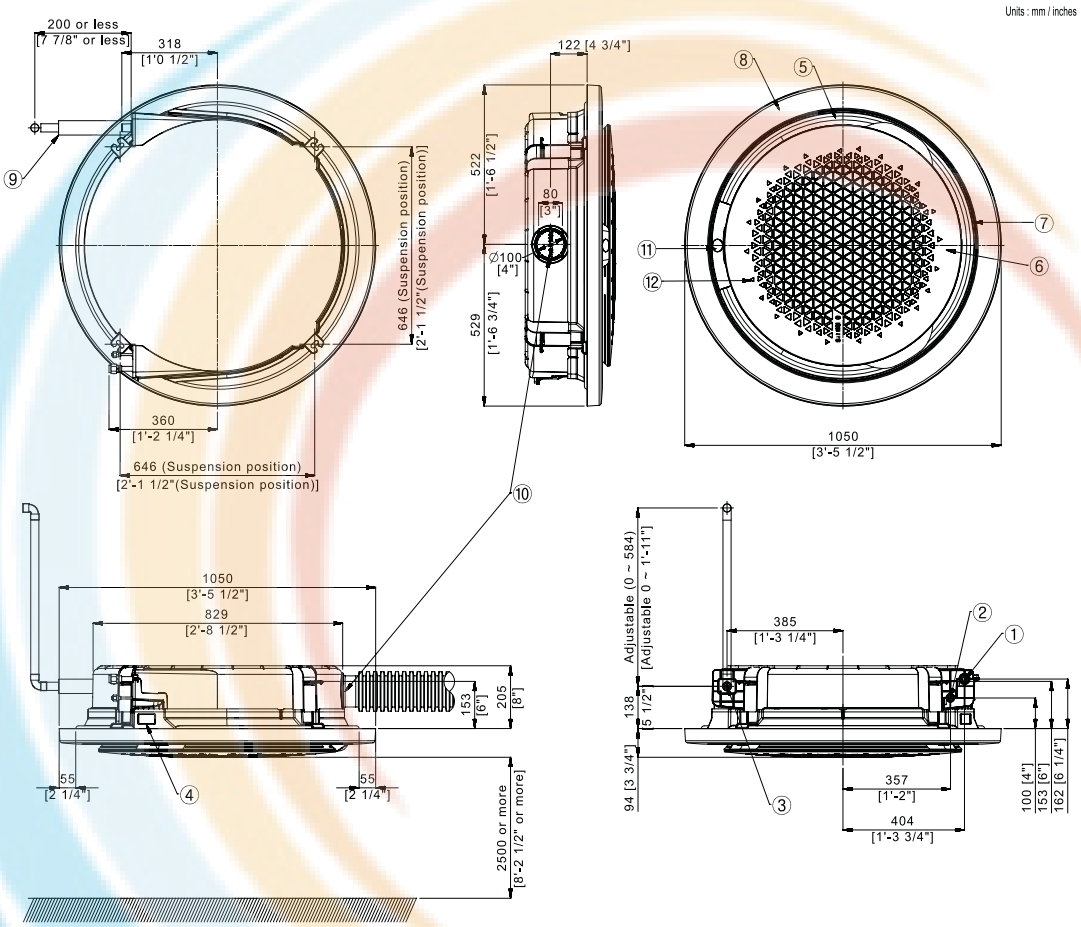
- Weight [lbs] : 7.94 (Net), 13.23 (Shipping) - Dimensions (W x H x D) [inch] : 39.37 x 2.60 x 39.37 (Net), 43.03 x 3.35 x 42.64 (Shipping)

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 CST (Circle)

AM009KN4DCH/AA, AM012KN4DCH/AA, AM018KN4DCH/AA, AM024KN4DCH/AA



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. **Circular panel code : PC4NUNMAN, PC4NUNMUN (White), PC4NBNMAN, PC4NBNMUN (Black)**
   - Weight [lbs] : 5.95 (Net), 11.24 (Shipping) - Dimensions (W x H x D) [inch] : 41.34 x 3.70 x 41.34 (Net), 43.03 x 3.35 x 42.64 (Shipping)

✱ **When installing the circular panel on the ceiling, make sure to install 2 or more inspection holes for the maintenance.**

(For further information, please refer to the installation manual.)

4.The circular panel is by default available in exposed installation.

5. Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
(The size of an inspection hole must be at least 450 mm x 450 mm.)

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

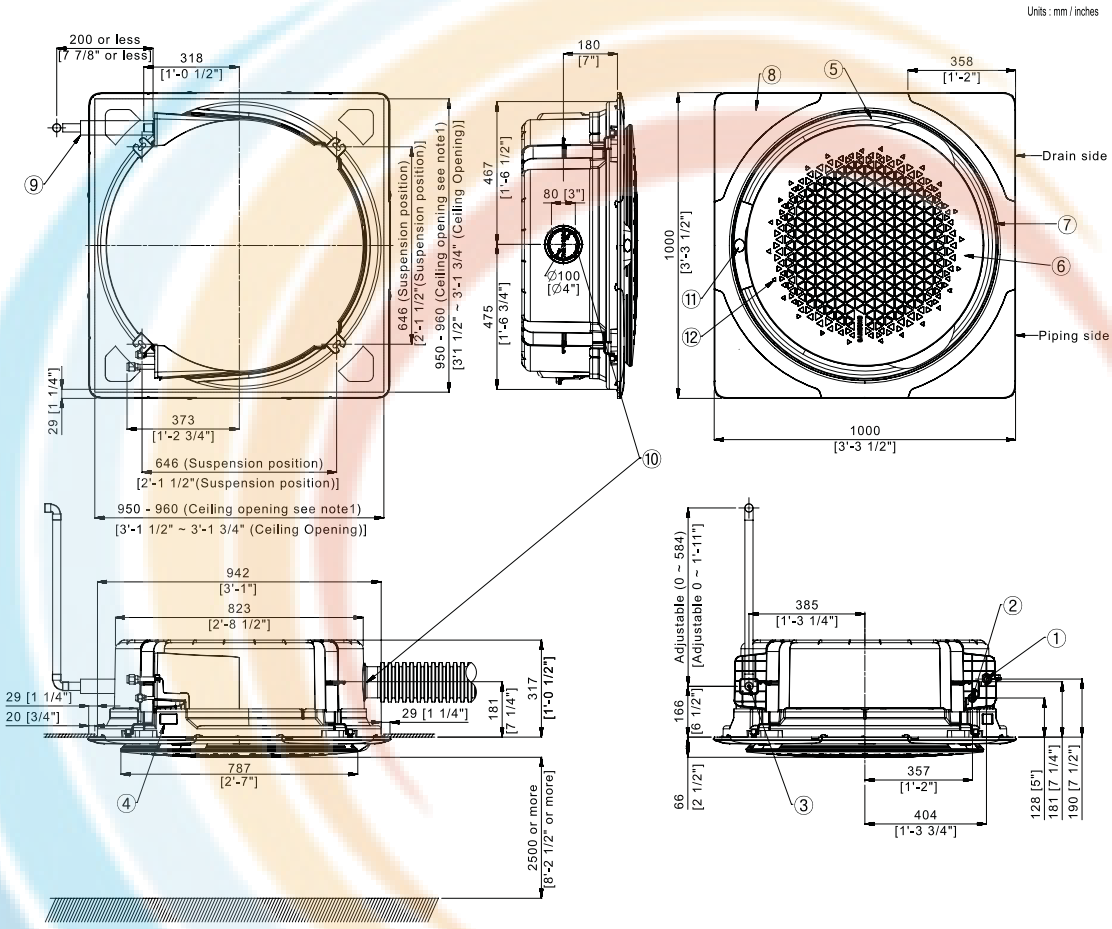
Category	Inspection hole		
	Recessed installation		Exposed installation
	Integrated	Suspended	
Square panel	1 ea	-	
Circular panel	2 ea		

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 CST (Square)

AM030KN4DCH/AA, AM036KN4DCH/AA, AM048KN4DCH/AA



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. **Square panel code : PC4NUDMAN, PC4NUDMUN (White), PC4NBDMAN, PC4NBDMUN (Black)**

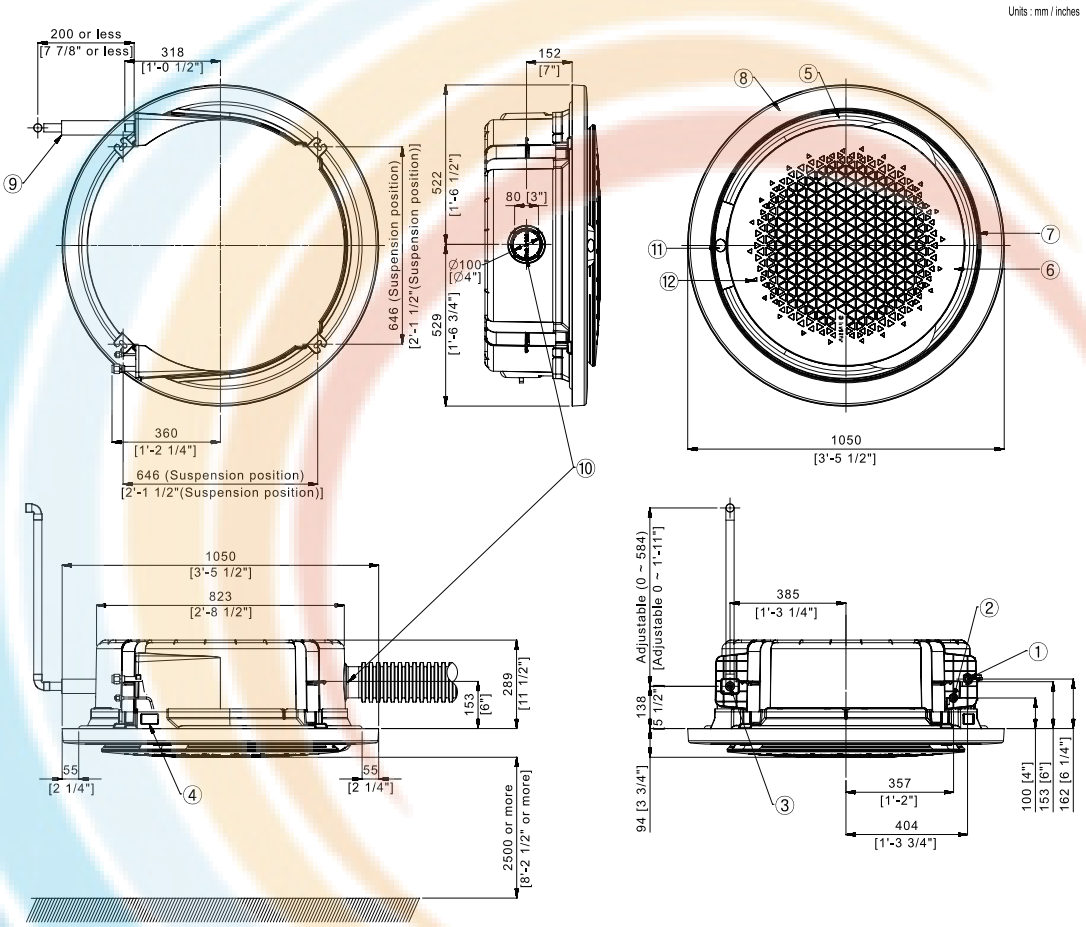
- Weight [lbs] : 7.94 (Net), 13.23 (Shipping) - Dimensions (W x H x D) [inch] : 39.37 x 2.60 x 39.37 (Net), 43.03 x 3.35 x 42.64 (Shipping)

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 CST (Circle)

AM030KN4DCH/AA, AM036KN4DCH/AA, AM048KN4DCH/AA



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. **Circular panel code : PC4NUNMAN, PC4NUNMUN (White), PC4NBNMAN, PC4NBNMUN (Black)**
   - Weight [lbs] : 5.95 (Net), 11.24 (Shipping) - Dimensions (W x H x D) [inch] : 41.34 x 3.70 x 41.34 (Net), 43.03 x 3.35 x 42.64 (Shipping)
   ※ When installing the circular panel on the ceiling, make sure to install 2 or more inspection holes for the maintenance.
   (For further information, please refer to the installation manual.)
4. The circular panel is by default available in exposed installation.
5. Make inspection holes on the ceiling for easier installation and maintenance, as shown in the following table.
   (The size of an inspection hole must be at least 450 mm x 450 mm.)
6. A suspended ceiling structure can substitute for the inspection holes.

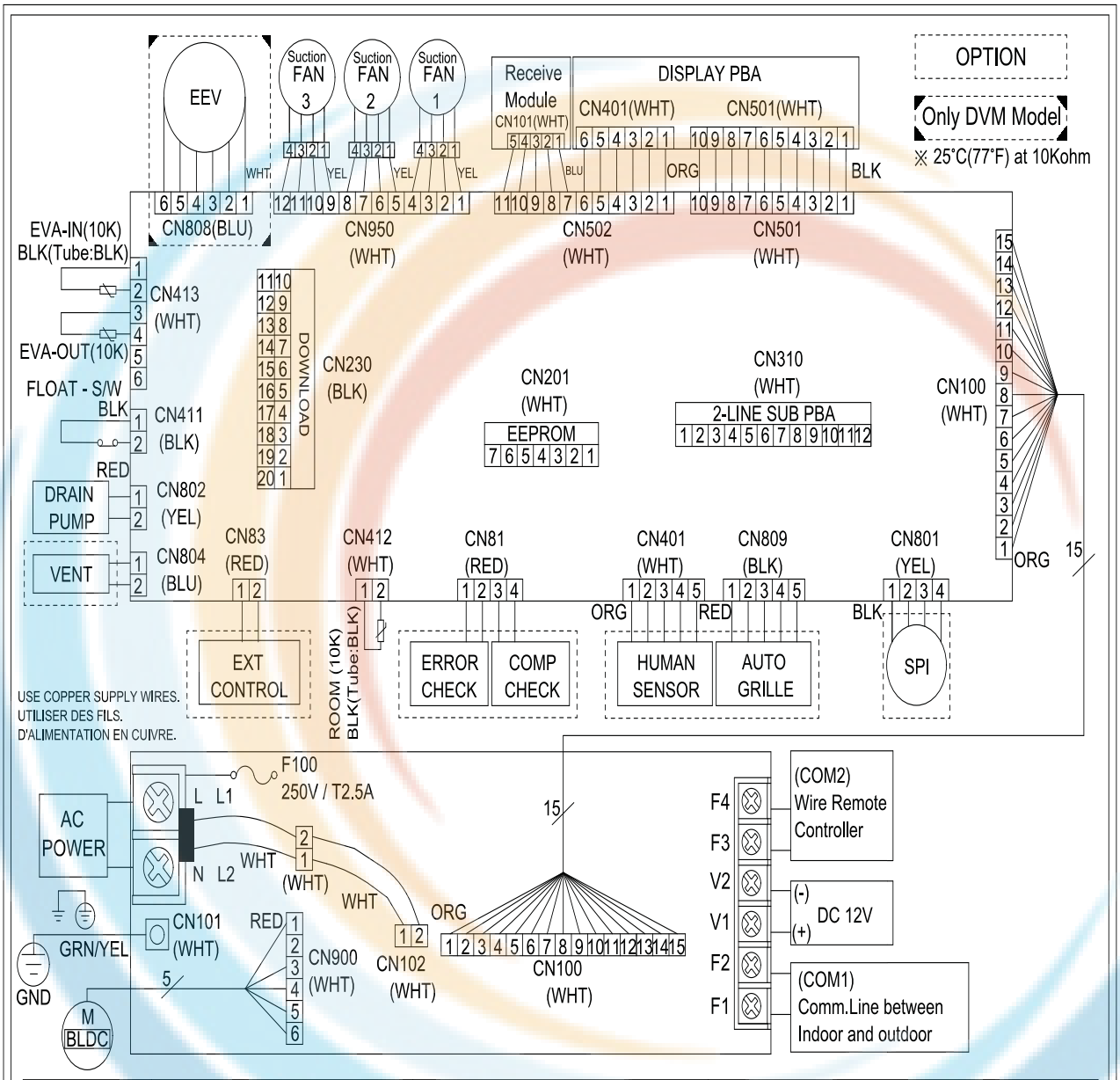
Category	Inspection hole		
	Recessed installation		Exposed installation
	Integrated	Suspended	
Square panel	1 ea	-	
Circular panel	2 ea		

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

4 Electrical wiring diagram

360 CST

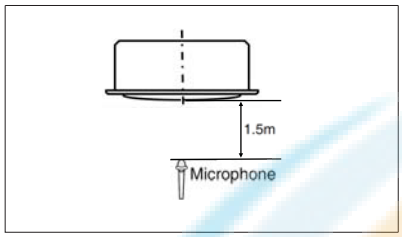
AM009KN4DCH/AA, AM012KN4DCH/AA, AM018KN4DCH/AA, AM024KN4DCH/AA, AM030KN4DCH/AA, AM036KN4DCH/AA, AM048KN4DCH/AA



LED LAMP DISPLAY ● On ◑ Flickering	LED DISPLAY FOR ERROR DETECTION	LED LAMP DISPLAY ● On ◑ Flickering	LED DISPLAY FOR ERROR DETECTION
● ICE BLU	Operating	● RED	Smart Install Error(Only CAC Model)
◑ ICE BLU	Power Reset (Flickering every 2 seconds)	◑ RED - GRN Alternation of Flickering	Error of EVA- IN / OUT / DISCHARGE Sensor In the Indoor Unit (Open/short)
◑ ICE BLU	Defrosting Operation (Flickering every 10 Seconds)	◑ RED - BLU Alternation of Flickering	Error of Fan Motor In the Indoor Unit
● BLU	Reserving Mode	◑ GRN - BLU Alternation of Flickering	Detection of the Float Switch
● GRN	Filter Usage Expiration	◑ ICE BLU - BLU Alternation of Flickering	Detection of the Thermal Fuse Open
◑ RED	Error of Room Sensor In the Indoor Unit (Open/short)	◑ ICE BLU - RED Alternation of Flickering	Miss Matching Of Indoor and Outdoor Unit(Only DVM Model)
◑ BLU	Error Of Outdoor Unit	◑ ICE BLU - GRN Alternation of Flickering	Mixed Operation Mode Error of Indoor Unit(Only DVM Model)
◑ GRN	No Communication For 2 Minutes Between Indoor and Outdoor Unit	◑ RED - ICE BLU - GRN Alternation of Flickering	Error of EEPROM

5 Sound pressure level

360 CST



Unit: dB(A)

Model	High	Low
AM009KN4DCH/AA	33.0	29.0
AM012KN4DCH/AA	33.0	29.0
AM018KN4DCH/AA	33.0	29.0
AM024KN4DCH/AA	38.0	32.0

Note

* Specifications may be subject to change without prior notice

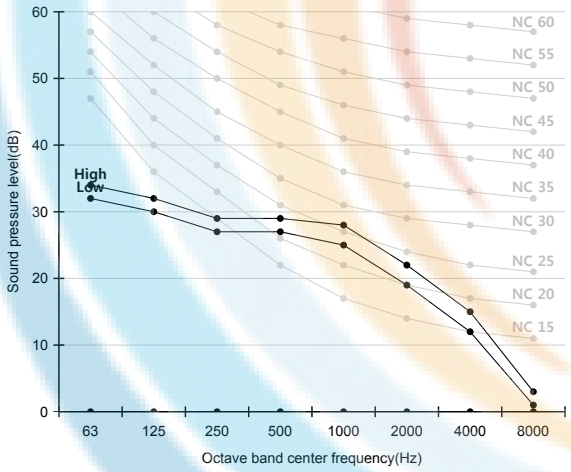
1) These operation values were obtained in an anechoic room.

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

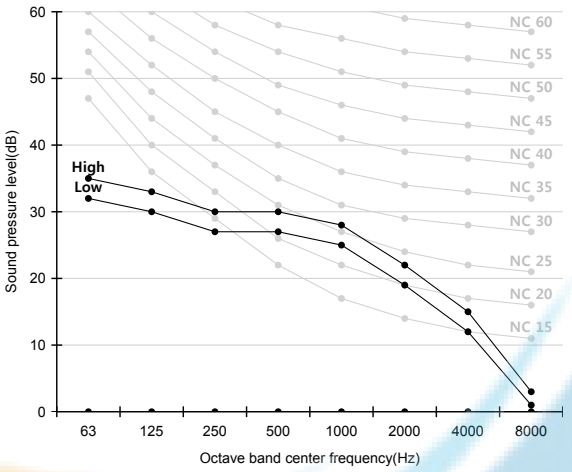
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

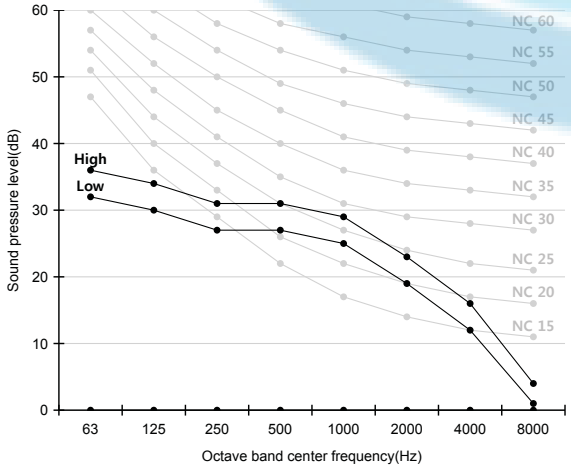
1) AM009KN4DCH/AA



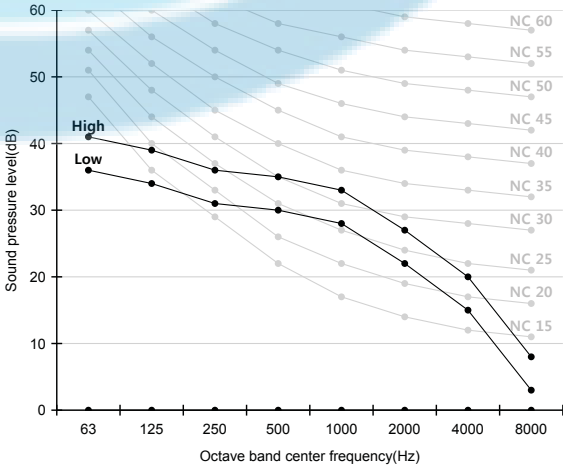
2) AM012KN4DCH/AA



3) AM018KN4DCH/AA

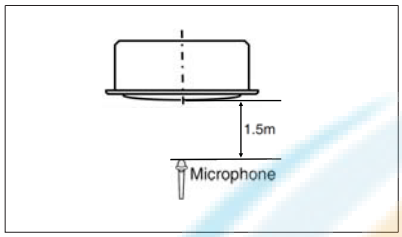


4) AM024KN4DCH/AA



5 Sound pressure level

360 CST



Unit: dB(A)

Model	High	Low
AM030KN4DCH/AA	40.0	36.0
AM036KN4DCH/AA	43.0	38.0
AM048KN4DCH/AA	44.0	39.0

Note

* Specifications may be subject to change without prior notice

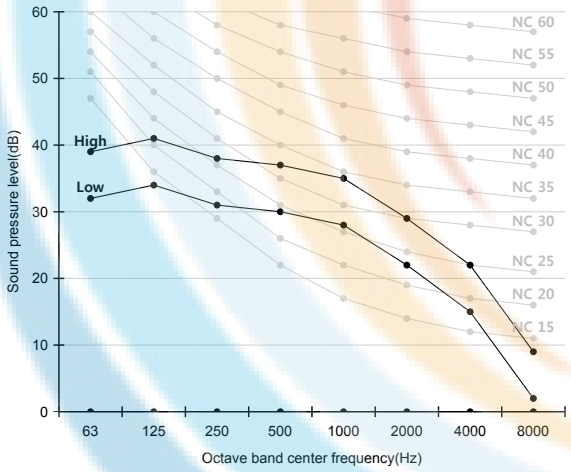
1) These operation values were obtained in an anechoic room.

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

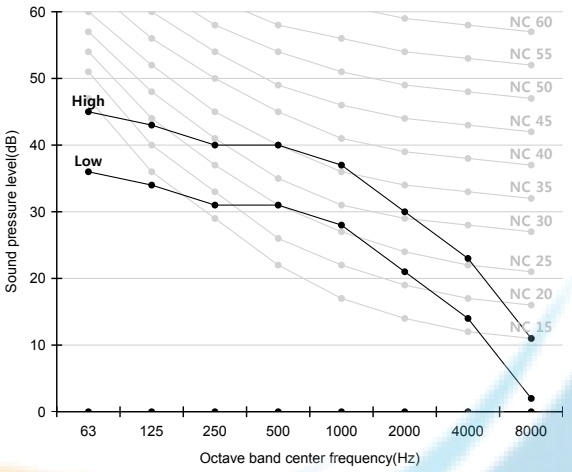
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

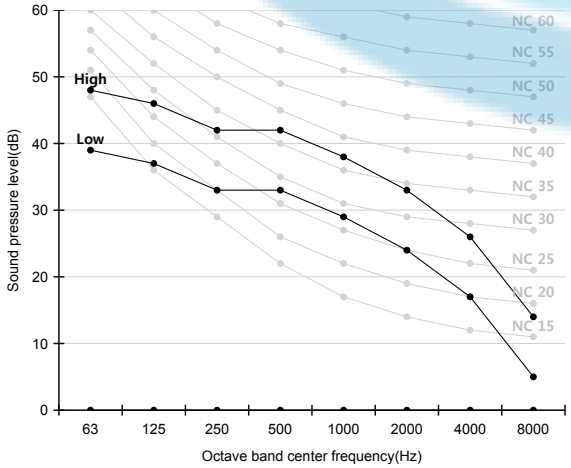
1) AM030KN4DCH/AA



2) AM036KN4DCH/AA



3) AM048KN4DCH/AA



6 Sound power level

360 CST

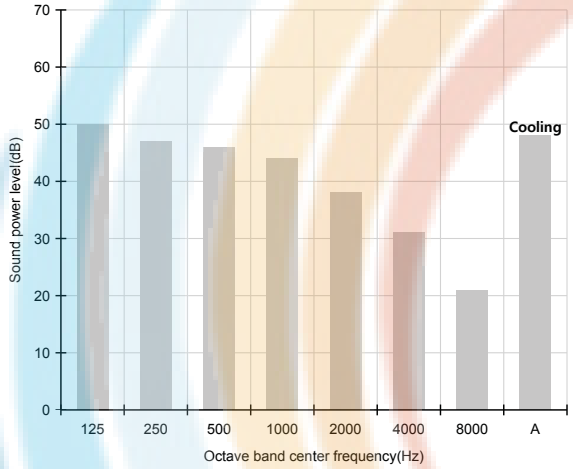
Note

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

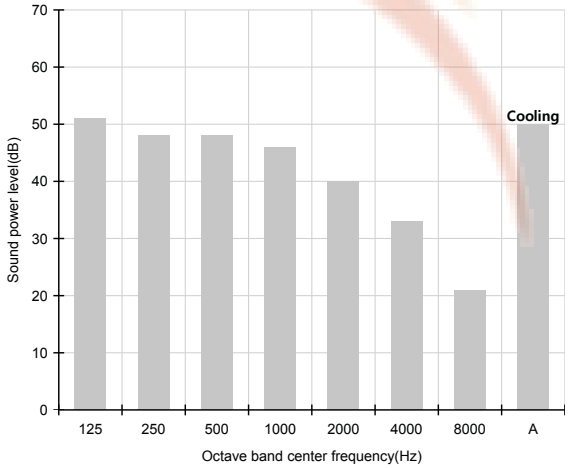
Unit: dB(A)

Model	Power
AM009KN4DCH/AA	51
AM012KN4DCH/AA	51
AM018KN4DCH/AA	51
AM024KN4DCH/AA	56

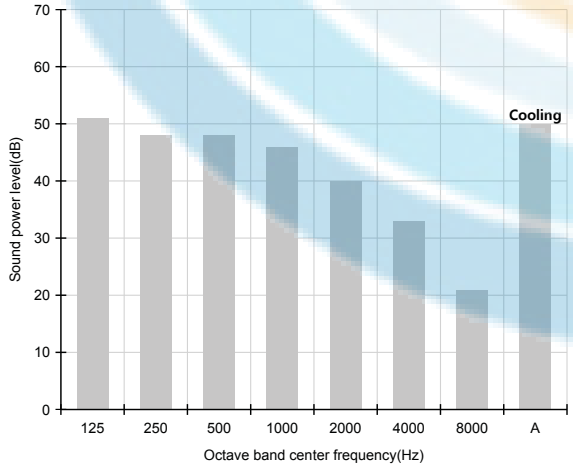
1)AM009KN4DCH/AA



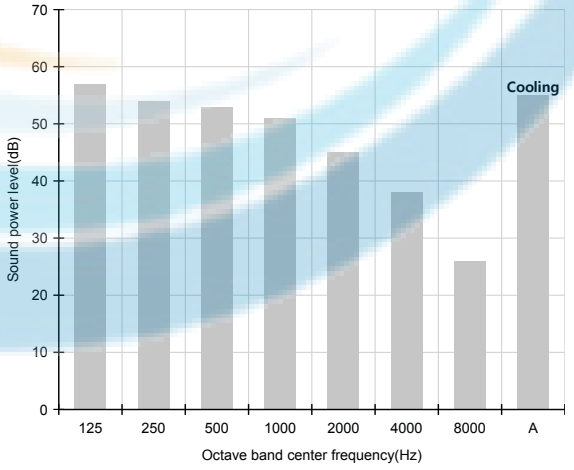
2)AM012KN4DCH/AA



3)AM018KN4DCH/AA



4)AM024KN4DCH/AA



6 Sound power level

360 CST

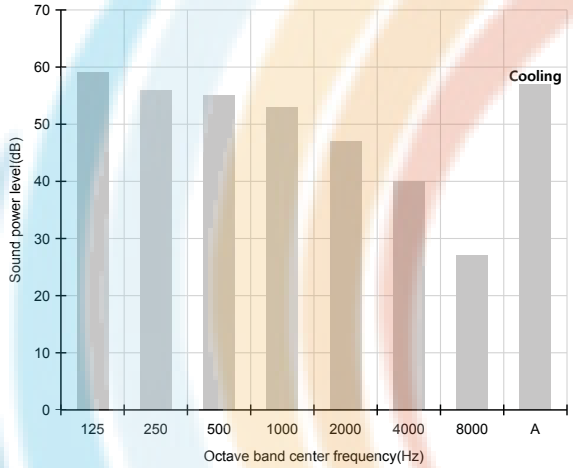
Note

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

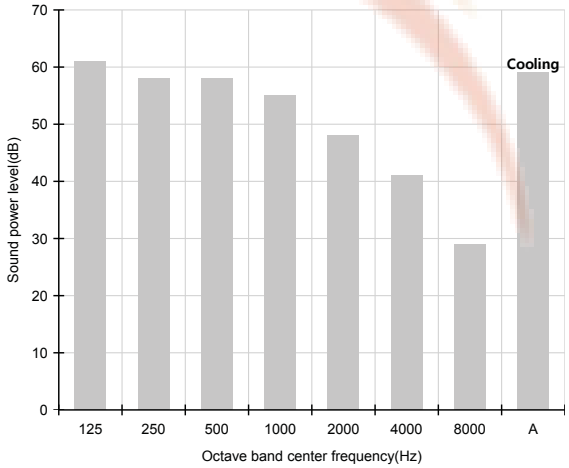
Unit: dB(A)

Model	Power
AM030KN4DCH/AA	58
AM036KN4DCH/AA	60
AM048KN4DCH/AA	61

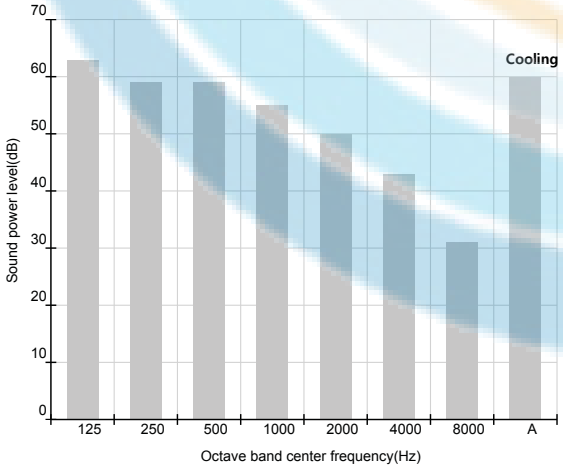
1)AM030KN4DCH/AA



2)AM036KN4DCH/AA



3)AM048KN4DCH/AA



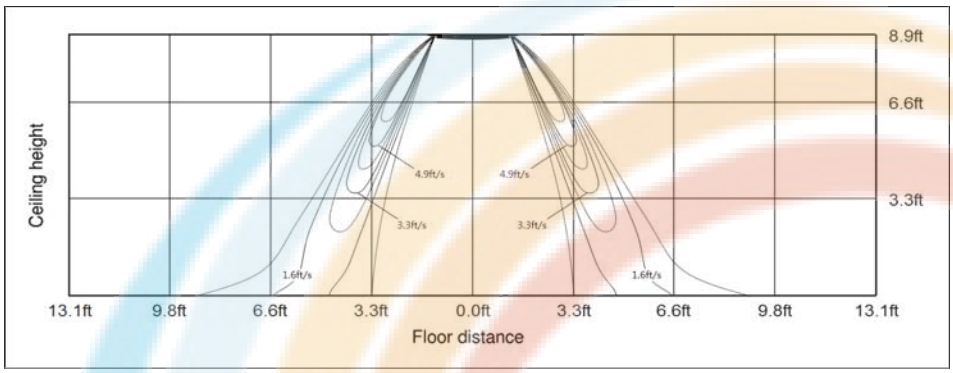
7 Temperature and air flow distribution

360 CST

AM009KN4DCH/AA

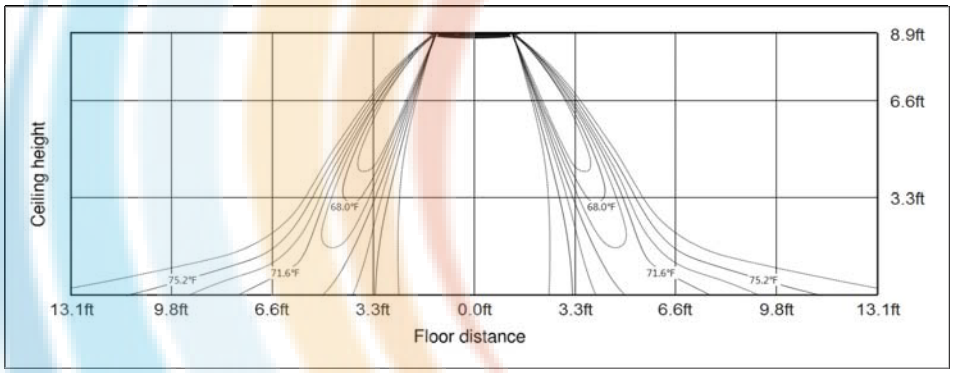
(1) Cooling air velocity distribution

Discharge angle : 60 degree



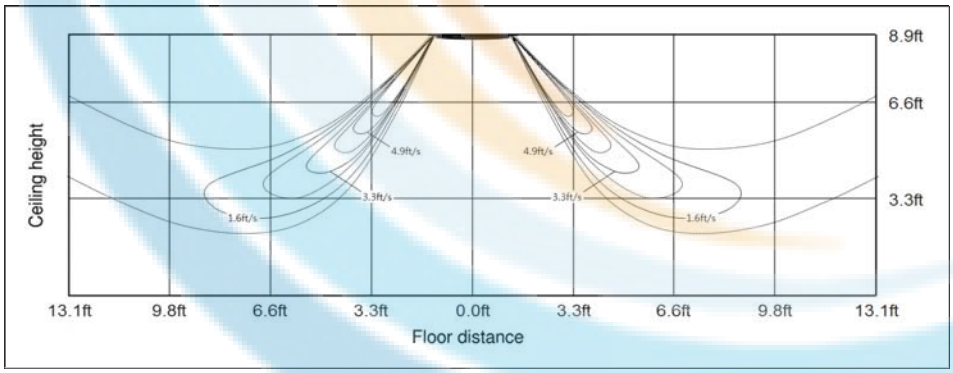
(2) Cooling temperature distribution

Discharge angle : 60 degree



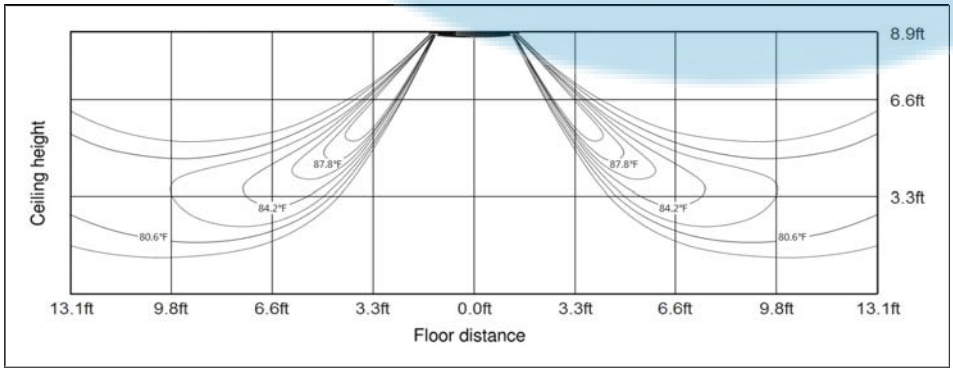
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



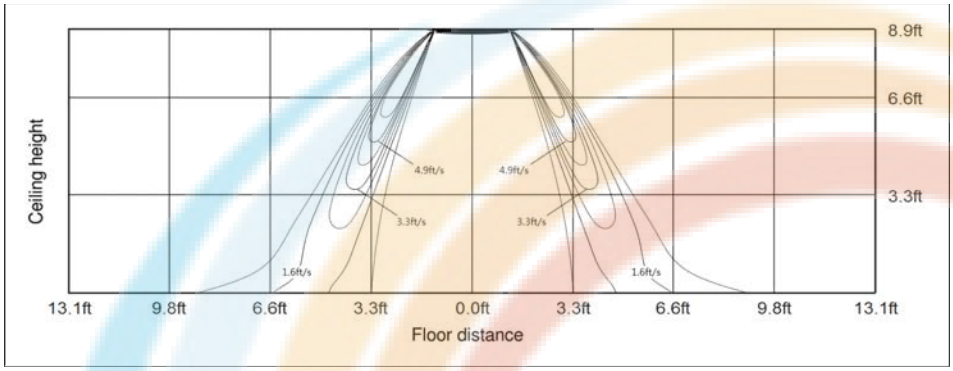
7 Temperature and air flow distribution

360 CST

AM012KN4DCH/AA

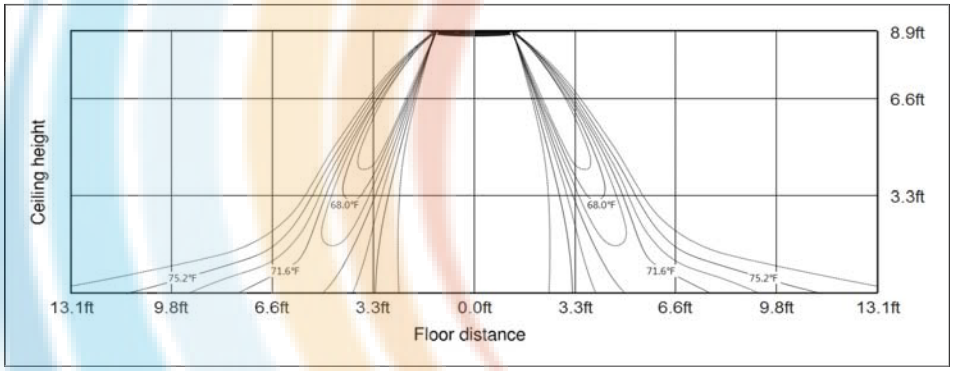
(1) Cooling air velocity distribution

Discharge angle : 60 degree



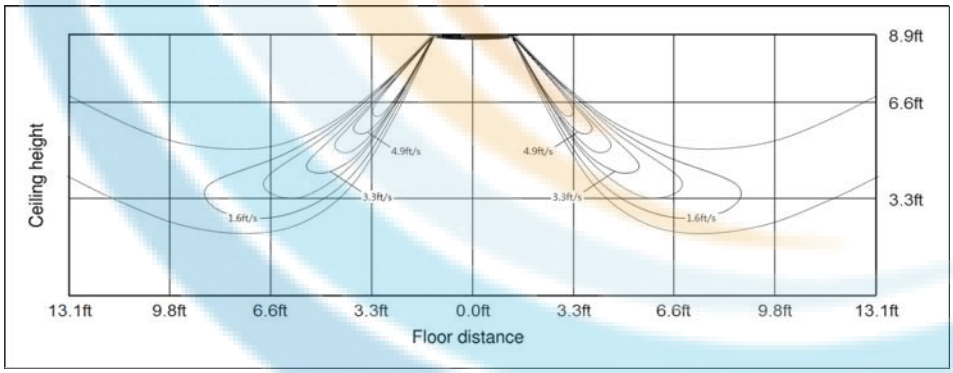
(2) Cooling temperature distribution

Discharge angle : 60 degree



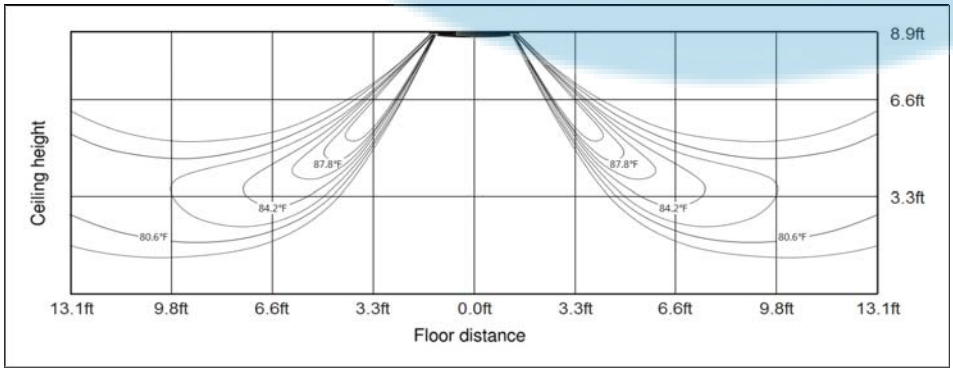
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



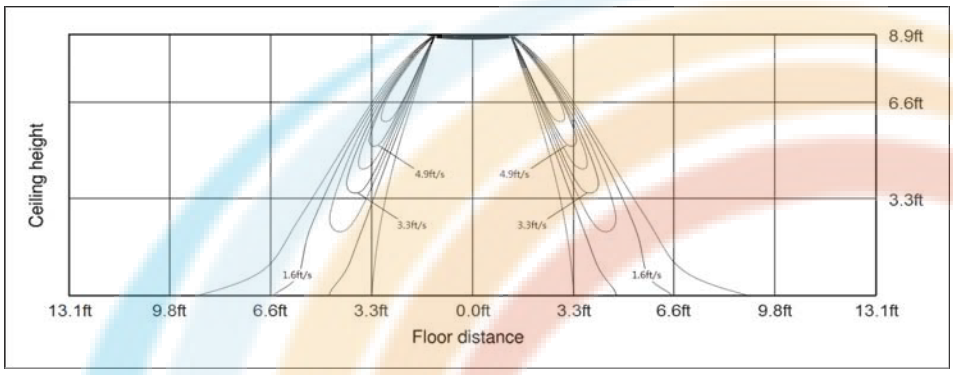
7 Temperature and air flow distribution

360 CST

AM018KN4DCH/AA

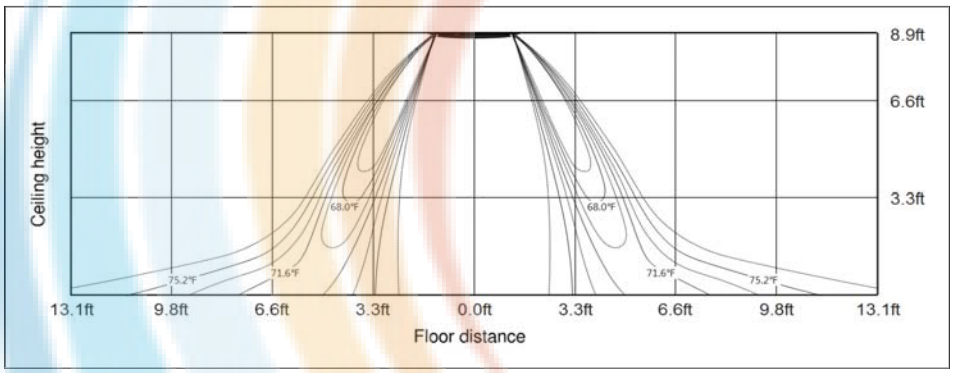
(1) Cooling air velocity distribution

Discharge angle : 60 degree



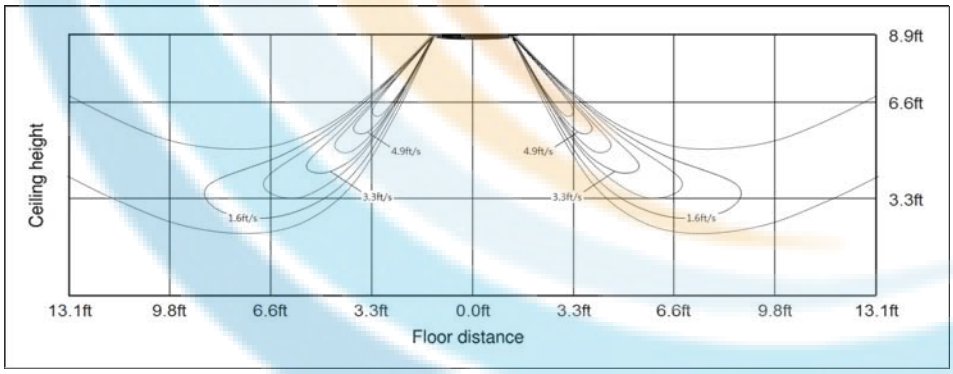
(2) Cooling temperature distribution

Discharge angle : 60 degree



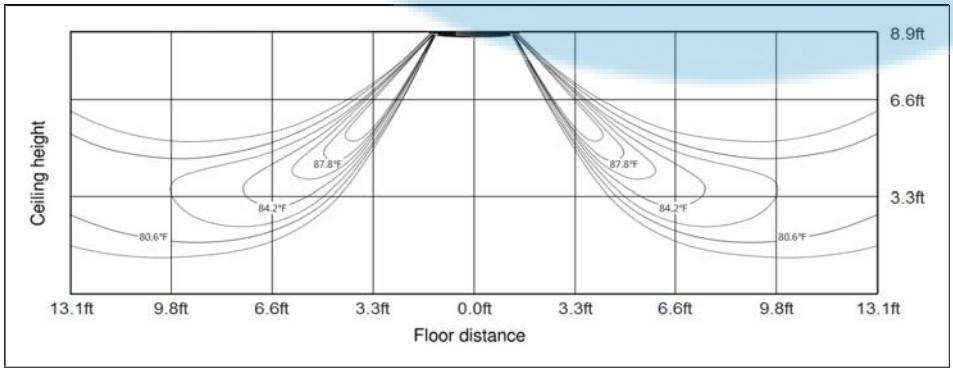
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



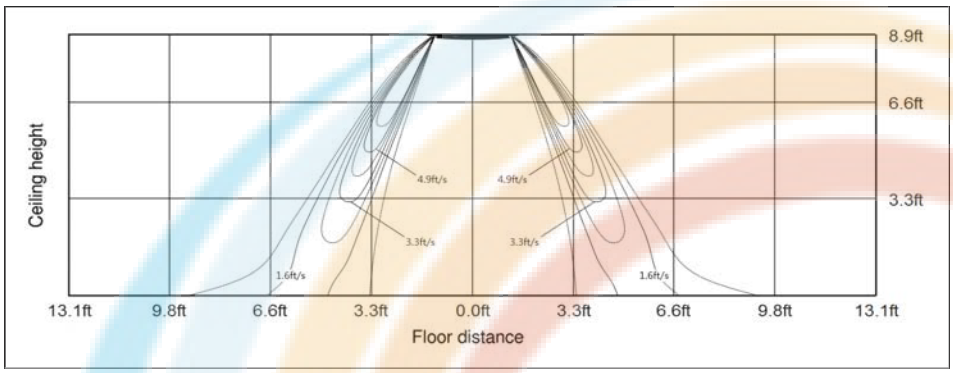
7 Temperature and air flow distribution

360 CST

AM024KN4DCH/AA

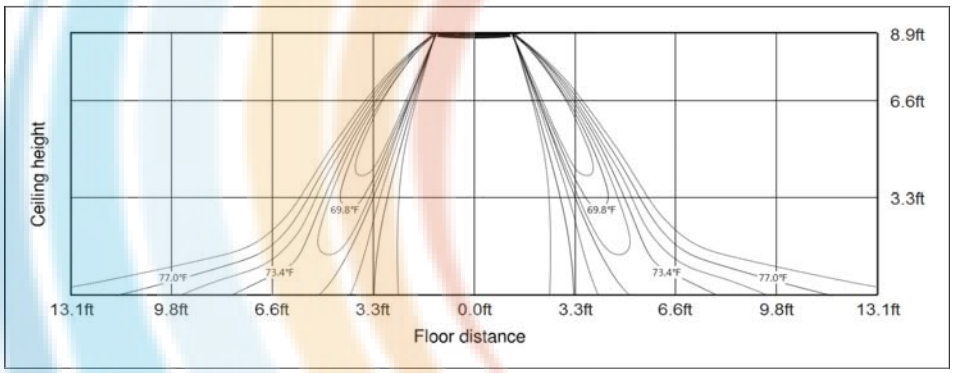
(1) Cooling air velocity distribution

Discharge angle : 60 degree



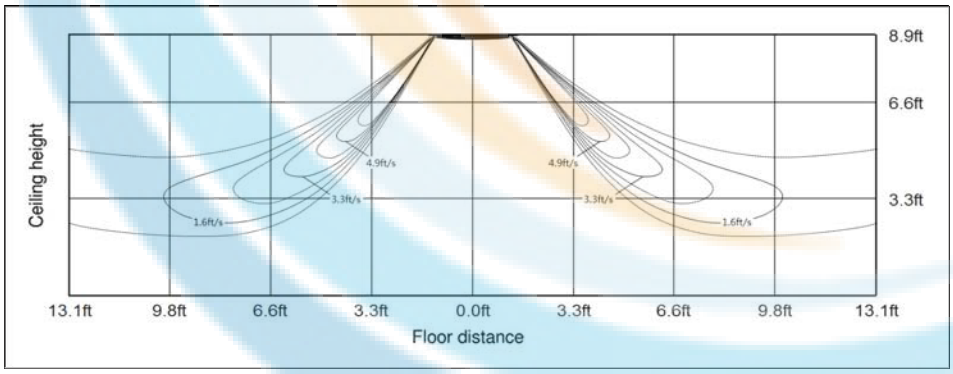
(2) Cooling temperature distribution

Discharge angle : 60 degree



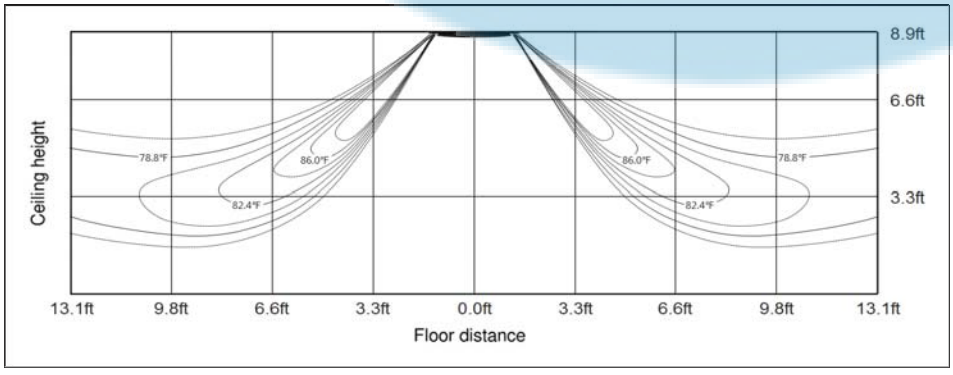
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



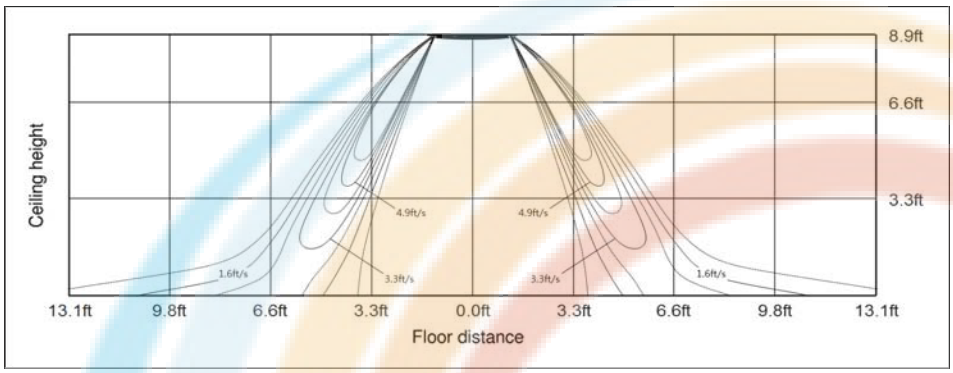
7 Temperature and air flow distribution

360 CST

AM030KN4DCH/AA

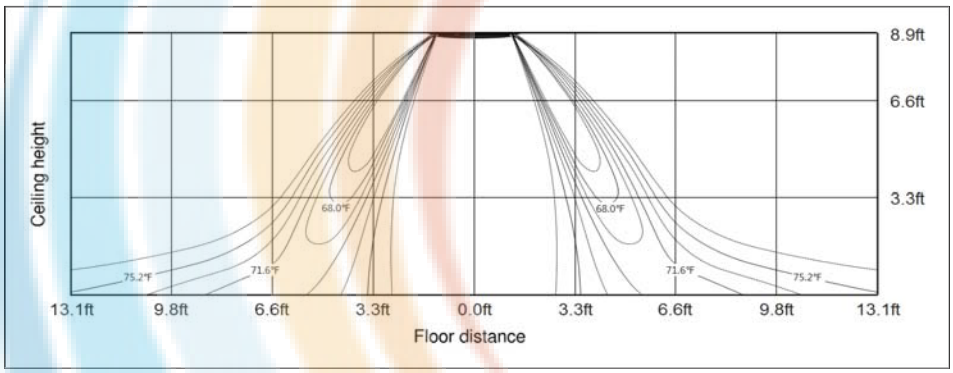
(1) Cooling air velocity distribution

Discharge angle : 60 degree



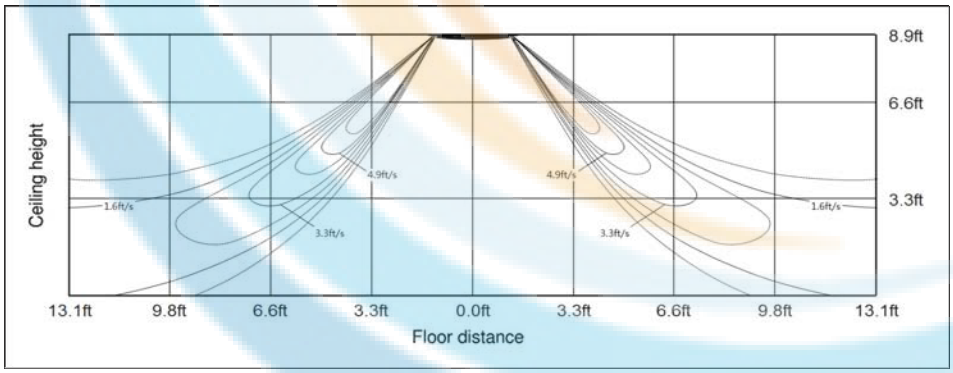
(2) Cooling temperature distribution

Discharge angle : 60 degree



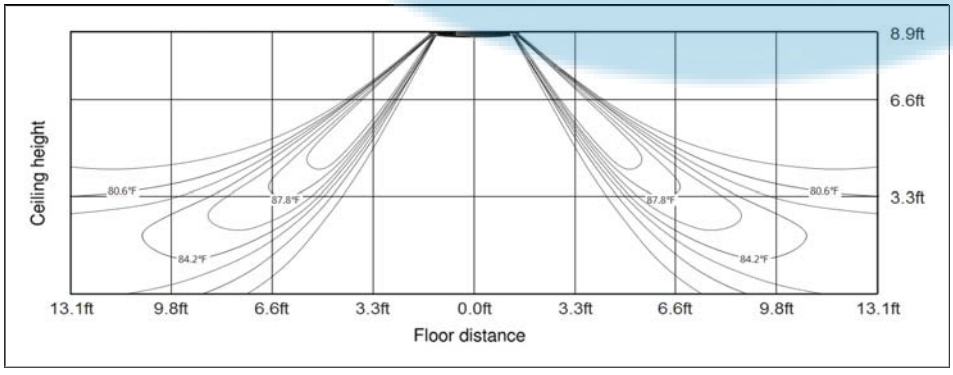
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



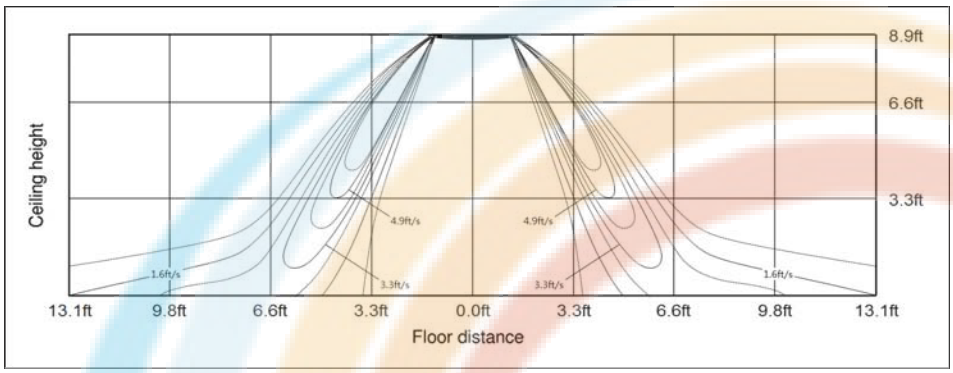
7 Temperature and air flow distribution

360 CST

AM036KN4DCH/AA

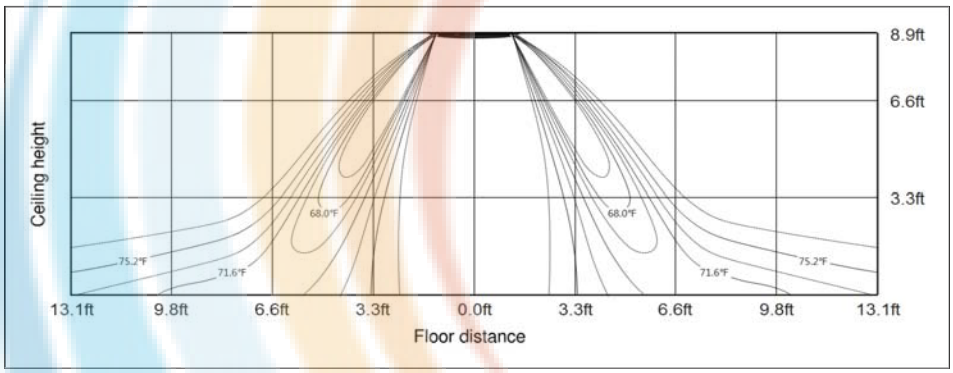
(1) Cooling air velocity distribution

Discharge angle : 60 degree



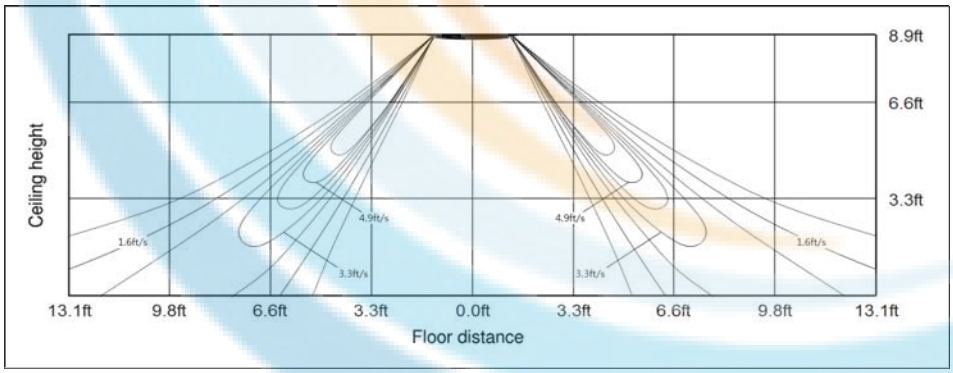
(2) Cooling temperature distribution

Discharge angle : 60 degree



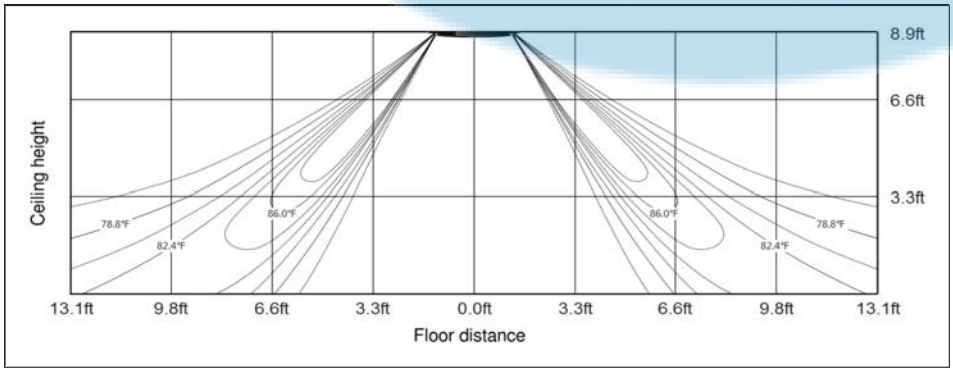
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



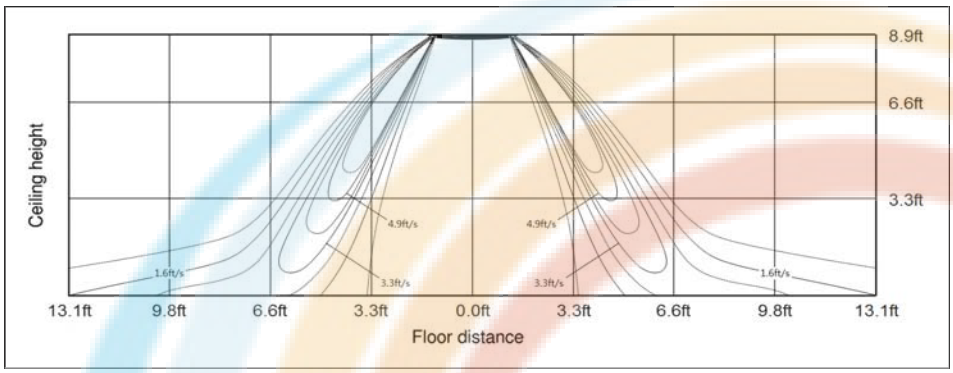
7 Temperature and air flow distribution

360 CST

AM048KN4DCH/AA

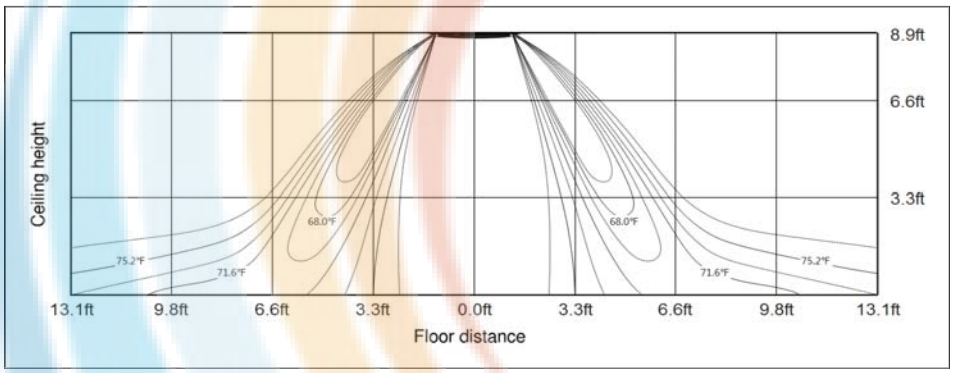
(1) Cooling air velocity distribution

Discharge angle : 60 degree



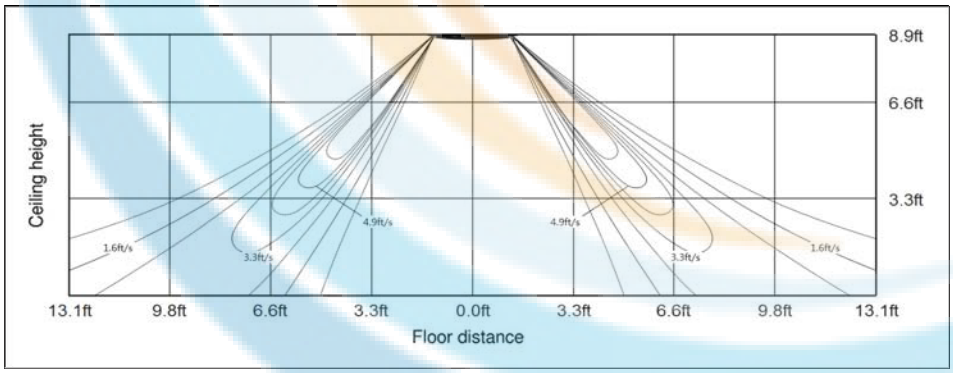
(2) Cooling temperature distribution

Discharge angle : 60 degree



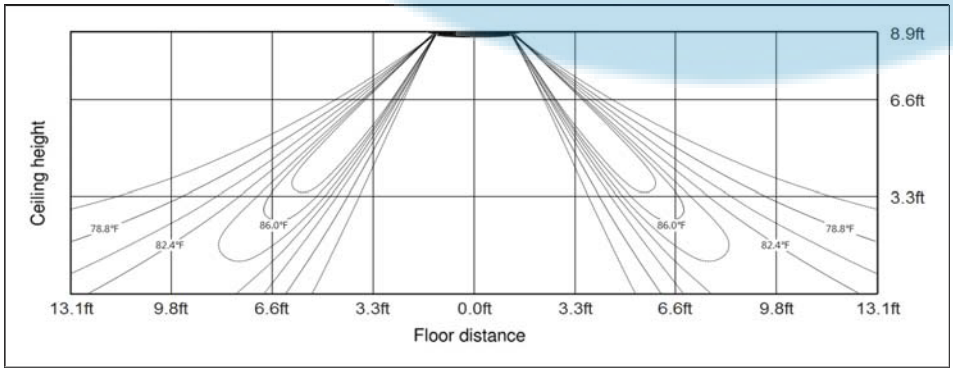
(3) Heating air velocity distribution

Discharge angle : 60 degree



(4) Heating temperature distribution

Discharge angle : 60 degree



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