

SINGLE

Technical Data Book

4Way Cassette S for America (Inv, R410A, 60Hz, HP)

SAMSUNG

[illegible]

Index

<i>1</i>	<i>Nomenclature</i>	
<i>2</i>	<i>Specifications</i>	
<i>3</i>	<i>Capacity table</i>	
<i>4</i>	<i>Dimensional drawing (Indoor)</i>	
<i>5</i>	<i>Electrical wiring diagram (Indoor)</i>	
<i>6</i>	<i>Sound pressure level (Indoor)</i>	
<i>7</i>	<i>Electrical wiring diagram (Outdoor)</i>	
<i>8</i>	<i>Sound pressure level (Outdoor)</i>	
<i>9</i>	<i>Cycle diagram (Outdoor)</i>	
<i>10</i>	<i>Dimensional drawing (Outdoor)</i>	
<i>11</i>	<i>Capacity correction (Outdoor)</i>	
<i>12</i>	<i>Temperature and air flow distribution</i>	

1 Nomenclature

Indoor Units

Model Names

AC	018	J	N	4	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

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

(5) Feature1

1	1Way Cassette
4	4Way Cassette S
A	Wall-Mounted
C	Ceiling
J	Console
L	LSP Duct
M	MSP Duct
N	4Way Cassette S (600 x 600)

(6) Feature2

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

C	1Φ, 208~230V, 60Hz
H	3Φ, 400V, 60Hz

(8) Mode

H	Heat Pump(R410A)
C	Cooling Only(R410A)
E	Heat Pump(R22)
D	Cooling Only(R22)

1 Nomenclature

Outdoor Units

Model Names

AC	018	J	X	A	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE
AM	VRF

(2) Capacity

x 1000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015

(4) Product Type

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

(5) Feature1

A	Inv+Side+General Temp
S	Inv+Side+Low Temp
Q	Inv+Side+Tropical Temp
F	Inv+Top+Tropical Temp

(6) Feature2

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Rating Voltage

C	1Φ, 208~230V, 60Hz
H	3Φ, 400V, 60Hz

(8) Mode

H	Heat Pump(R410A)
C	Cooling Only(R410A)
E	Heat Pump(R22)
D	Cooling Only(R22)

2 Specifications

4 Way Cassette S

Type				4Way Cassette		4Way Cassette		4Way Cassette			
Model Name		Indoor Unit		AC018JN4DCH/AA		AC024JN4DCH/AA		AC030JN4DCH/AA			
		Outdoor Unit		AC018JXADCH/AA		AC024JXADCH/AA		AC030JXADCH/AA			
System	Mode			-	Heat Pump		Heat Pump		Heat Pump		
	Capacity	Cooling(Min/Std/Max)		kW	1.47 / 5.28 / 6.15		2.05 / 7.03 / 7.91		2.73 / 8.79 / 10.26		
				Btu/h	5,000 / 18,000 / 21,000		7,000 / 24,000 / 27,000		9,300 / 30,000 / 35,000		
				US RT	0.42 / 1.50 / 1.75		0.58 / 2.00 / 2.25		0.78 / 2.50 / 2.92		
		Heating(Min/Std/Max)		kW	1.11 / 5.86 / 7.33		1.52 / 7.91 / 9.09		2.64 / 9.38 / 11.14		
				Btu/h	3,800 / 20,000 / 25,000		5,200 / 27,000 / 31,000		9,000 / 32,000 / 38,000		
				US RT	0.32 / 1.67 / 2.08		0.43 / 2.25 / 2.58		0.75 / 2.67 / 3.17		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.35 / 1.54 / 2.20		0.45 / 2.11 / 2.50		0.70 / 2.89 / 4.00		
					Heating(Min/Std/Max)	0.26 / 1.60 / 2.70		0.38 / 2.50 / 3.50		0.65 / 3.11 / 5.50	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	2.10 / 7.10 / 10.00		2.80 / 9.80 / 12.00		4.00 / 13.40 / 17.00		
					Heating(Min/Std/Max)	1.70 / 7.40 / 12.00		2.50 / 11.60 / 14.50		3.40 / 14.40 / 21.80	
		MCA		A		8.10		12.06		19.705	
		MFA		A		15.00		20.00		30.00	
	Energy Efficiency	EER (Nominal Cooling)		-	3.43		3.33		3.04		
		EER (Nominal Cooling, US)		Btu/Wh	11.70		11.40		10.40		
		COP (Nominal Heating)		-	3.66		3.17		3.02		
		Energy Grade		Energy	SEER 20.1		SEER 20.5		SEER 19.2		
	Piping Connections	Liquid Pipe		Ø, mm	6.35		6.35		9.52		
				Ø, inch	1/4"		1/4"		3/8"		
				Ø, mm	12.70		15.88		15.88		
				Ø, inch	1/2"		5/8"		5/8"		
		Gas Pipe		Ø, mm	12.70		15.88		15.88		
				Ø, inch	1/2"		5/8"		5/8"		
				Installation Limitation		Max. Length	m	30		50	
						ft	98		164		
		Max. Height		m	20		30		30		
				ft	66		98		98		
	Field Wiring	Power Source Wire		Ø, mm	-		-		-		
		Transmission Cable		Ø, mm	-		-		-		
	Refrigerant	Type		-	R410A		R410A		R410A		
		Control Method		-	-		-		-		
		Factory Charging		kg	1.30		2.10		2.60		
				lbs	2.87		4.63		5.73		
				Ø, #, V, Hz	1,2,208-230.60		1,2,208-230.60		1,2,208-230.60		
		Fan	Type		-	Turbo		Turbo		Turbo	
	Motor		Output	W	65 x 1		65 x 1		97 x 1		
Air Flow Rate	High		CFM	580.00		580.00		840.00			
External Static Pressure	Min/Std/Max		Pa	-		-		-			
In Wg	mm		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)				
	Ø,mm		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)				
Indoor Unit	Sound	Pressure	High/Mid/Low	dB(A)	36.0 / 33.0 / 30.0		36.0 / 33.0 / 30.0		38.0 / 35.0 / 32.0		
		Power	Cooling		51.0		51.0		53.0		
	External Dimension	Net Weight		kg	15.50		15.50		19.00		
				lbs	34.17		34.17		41.89		
		Shipping Weight		kg	19.50		19.50		24.00		
				lbs	43.00		43.00		52.90		
		Net Dimensions (WxHxD)		mm	840 x 204 x 840		840 x 288 x 840		840 x 288 x 840		
				inch	33.07 x 8.03 x 33.07		33.07 x 8.03 x 33.07		33.07 x 11.34 x 33.07		
	Shipping Dimensions (WxHxD)		mm	898 x 275 x 898		898 x 275 x 898		898 x 357 x 898			
			inch	35.35 x 10.83 x 35.35		35.35 x 10.83 x 35.35		35.35 x 14.06 x 35.35			
	Panel Size	Panel model		-	PC4NUSKFN		PC4NUSKFN		PC4NUSKFN		
		Panel Net Weight		kg	5.80		5.80		5.80		
				lbs	12.79		12.79		12.79		
		Shipping Weight		kg	8.00		8.00		8.00		
				lbs	17.60		17.60		17.60		
		Net Dimensions (WxHxD)		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 (WxHxD)		mm	1,005 x 100 x 1,005		1,005 x 100 x 1,005		1,005 x 100 x 1,005		
	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	-	-		-		-		
		Air Filter	Max. Lifting	mm/liter/h	-		-		-		
					-	-		-		-	
	Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,208-230.60		1,2,208-230.60		1,2,208-230.60	
		Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary	
Model			-	UG4T150LNBEQ		UG4T200LNFE4		UG8T300LNBJU			
Output			kW	1.42		1.85		2.82			
Fan		Oil	Type	-	PVE		PVE		PVE		
		Air Flow Rate	Cooling	CFM	1,550		2,190		2,220		
Sound		Pressure	Cooling/Heating	dB(A)	48 / 48		50 / 50		50 / 52		
		Power	Cooling		62		65		65		
External Dimension		Net Weight		kg	45.00		64.50		70.00		
				lbs	99.21		142.20		154.32		
		Shipping Weight		kg	48.00		69.50		74.00		
				lbs	105.82		153.22		163.14		
		Net Dimensions (WxHxD)		mm	880 x 638 x 310		940 x 998 x 330		940 x 998 x 330		
				inch	34.65 x 25.12 x 12.20		37.01 x 39.29 x 12.99		37.01 x 39.29 x 12.99		
Shipping Dimensions (WxHxD)		mm	1,023 x 750 x 413		995 x 1,096 x 426		995 x 1,096 x 426				
		inch	40.28 x 29.53 x 16.26		39.17 x 43.15 x 16.77		39.17 x 43.15 x 16.77				
Operating Temp.		Cooling	°F	0 ~ 115		0 ~ 115		0 ~ 115			
		Heating	°F	-4.0 ~ 75.2		-4.0 ~ 75.2		-4.0 ~ 75.2			

[Note]

- Nominal Cooling : Indoor temperature 26.7DB/19.4WB(80DB/67WB), Outdoor temperature 35DB/23.9WB(90DB/75WB), Refrigerant pipe length 5m(16.4ft), Level difference 0m(0 ft).
- Nominal Heating : Indoor temperature 21.1DB/15.6WB(70DB/60WB), Outdoor temperature 8.3DB/6.1WB(47DB/43WB), Refrigerant pipe length 5m, Level difference 0m.
- Sound pressure level is acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- Specifications may be subject to change without prior notice.

2 Specifications

4 Way Cassette S

Type				4Way Cassette	4Way Cassette	4Way Cassette			
Model Name	Indoor Unit			AC036JN4DCH/AA	AC042JN4DCH/AA	AC048JN4DCH/AA			
	Outdoor Unit			AC036JXADCH/AA	AC042JXADCH/AA	AC048JXADCH/AA			
System	Mode			-	Heat Pump	Heat Pump			
	Capacity	Cooling(Min/Std/Max)		kW	4.10 / 10.55 / 12.02	4.78 / 12.31 / 13.19	5.45 / 14.07 / 14.95		
				Btu/h	14,000 / 36,000 / 41,000	16,300 / 42,000 / 45,000	18,600 / 48,000 / 51,000		
				US RT	1.17 / 3.00 / 3.42	1.36 / 3.50 / 3.75	1.55 / 4.00 / 4.25		
		Heating(Min/Std/Max)		kW	3.37 / 11.72 / 14.07	3.93 / 13.77 / 14.65	4.48 / 15.53 / 16.12		
				Btu/h	11,500 / 40,000 / 48,000	13,400 / 47,000 / 50,000	15,300 / 53,000 / 55,000		
				US RT	0.96 / 3.33 / 4.00	1.12 / 3.92 / 4.17	1.28 / 4.42 / 4.58		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.93 / 2.98 / 3.60	1.08 / 4.04 / 4.50	1.24 / 4.95 / 5.00		
					Heating(Min/Std/Max)	0.72 / 3.48 / 5.00	0.84 / 4.35 / 5.40	0.96 / 5.05 / 5.70	
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.80 / 13.80 / 17.00	5.60 / 18.70 / 21.00	6.40 / 22.90 / 23.00		
					Heating(Min/Std/Max)	3.70 / 16.10 / 23.00	4.30 / 20.10 / 25.00	5.00 / 23.40 / 28.00	
		MCA			A	22.08	22.08	22.08	
		MFA			A	35.00	35.00	35.00	
	Energy Efficiency	EER (Nominal Cooling)		-	3.54	3.05	2.84		
		EER (Nominal Cooling, US)		Btu/Wh	12.10	10.40	9.70		
		COP (Nominal Heating)		-	3.37	3.17	3.08		
		Energy Grade		Energy	SEER 20.5	SEER 19.6	SEER 18.8		
	Piping Connections	Liquid Pipe		Energy	HSPF 9.5	HSPF 9.5	HSPF 9.5		
				Ø, mm	9.52	9.52	9.52		
				Ø, inch	3/8"	3/8"	3/8"		
				Ø, mm	15.88	15.88	15.88		
		Gas Pipe		Ø, inch	5/8"	5/8"	5/8"		
				Installation Limitation		Max. Length	m	75 (75)	75 (75)
						ft	246 (246)	246 (246)	246 (246)
				Max. Height		m	30 (30)	30 (30)	30 (30)
	ft	98 (98)	98 (98)			98 (98)			
	Field Wiring	Power Source Wire		Ø, mm	-	-	-		
		Transmission Cable		Ø, mm	-	-	-		
	Refrigerant	Type		-	R410A	R410A	R410A		
		Control Method		-	-	-	-		
		Factory Charging		kg	2.80	2.80	2.80		
				lbs	6.17	6.17	6.17		
	Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	
		Fan	Type			-	Turbo	Turbo	
			Motor	Output	W	97 x 1	97 x 1	97 x 1	
			Air Flow Rate	High	CFM	1,020.00	1,170.00	1,230.00	
			External Static Pressure	Min/Std/Max	Pa	-	-	-	
		Drain	Drain Pipe		Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Sound			Pressure	High/Mid/Low	dB(A)	43.0 / 38.0 / 33.0	44.0 / 40.0 / 34.0	45.0 / 41.0 / 35.0	
		Power	Cooling		58.0	59.0	60.0		
External Dimension		Net Weight		kg	19.00	19.00	19.00		
				lbs	41.89	41.89	41.89		
		Shipping Weight		kg	24.00	24.00	24.00		
				lbs	52.90	52.90	52.90		
		Net Dimensions (WxHxD)		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		
Panel Size		Shipping Dimensions (WxHxD)		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 model		-	PC4NUSKFN	PC4NUSKFN	PC4NUSKFN		
				Panel Net Weight		kg	5.80	5.80	5.80
		Shipping Weight		lbs	12.79	12.79	12.79		
				kg	8.00	8.00	8.00		
Additional Accessories		Drain pump		-	-	-	-		
				Max. Lifting	mm/liter/h	-	-	-	
		Air Filter		-	-	-	-		
						-	-	-	-
		Outdoor Unit	Power Supply			Ø, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
			Compressor	Type			-	Twin BLDC Rotary	Twin BLDC Rotary
Model						-	UG5T450FUEJX	UG5T450FUEJX	
Output						kW	4.12	4.12	4.12
Fan			Oil	Type	-	POE	POE	POE	
			Air Flow Rate	Cooling	CFM	3,040	3,040	3,040	
Sound			Pressure	Cooling/Heating	dB(A)	49 / 51	51 / 53	53 / 55	
			Power	Cooling		65	66	67	
External Dimension			Net Weight		kg	88.00	88.00	88.00	
					lbs	194.01	194.01	194.01	
		Shipping Weight		kg	98.00	98.00	98.00		
				lbs	216.05	216.05	216.05		
		Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330		
				inch	37.01 x 47.64 x 12.99	37.01 x 47.64 x 12.99	37.01 x 47.64 x 12.99		
	Shipping Dimensions (WxHxD)		mm	995 x 1,388 x 426	995 x 1,388 x 426	995 x 1,388 x 426			
			inch	39.17 x 54.65 x 16.77	39.17 x 54.65 x 16.77	39.17 x 54.65 x 16.77			
Operating Temp.	Cooling			°F	0 ~ 115	0 ~ 115			
	Heating			°F	-4.0 ~ 75.2	-4.0 ~ 75.2	-4.0 ~ 75.2		

[Note]

- Nominal Cooling : Indoor temperature 26.7DB/19.4WB(80DB/67WB), Outdoor temperature 35DB/23.9WB(90DB/75WB), Refrigerant pipe length 5m(16.4 ft), Level difference 0m(0 ft).

- Nominal Heating : Indoor temperature 21.1DB/15.6WB(70DB/60WB), Outdoor temperature 8.3DB/6.1WB(47DB/43WB), Refrigerant pipe length 5m, Level difference 0m.

- Sound pressure level is acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

- Specifications may be subject to change without prior notice.

3 Capacity table

4 Way Cassette S

AC018JN4DCH/AA + AC018JXADCH/AA

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)																				
	68/57			72/61			77/64			80/67			82/70			86/72			90/75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
0.0	19.99	15.99	0.66	20.48	16.38	0.68	20.98	16.79	0.69	21.50	17.20	0.71	21.72	17.37	0.72	22.24	17.79	0.73	22.57	18.06	0.75
70.0	21.48	17.18	1.08	22.00	17.60	1.10	22.55	18.04	1.13	23.10	18.48	1.16	23.33	18.66	1.17	23.89	19.11	1.20	24.25	19.40	1.22
95.0	16.73	13.39	1.43	17.15	13.72	1.47	17.57	14.05	1.50	18.00	14.40	1.54	18.18	14.54	1.56	18.62	14.89	1.59	18.90	15.12	1.62
115.0	16.27	13.02	2.09	16.67	13.34	2.14	17.08	13.66	2.20	17.50	14.00	2.25	17.68	14.14	2.27	18.10	14.48	2.33	18.37	14.70	2.36

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°F, DB)	Indoor temperature (°F, DB)											
	61.0		64.0		68.0		70.0		72.0		75.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4.0	10.51	1.33	10.41	1.32	10.30	1.30	10.20	1.29	10.10	1.28	10.00	1.26
14.0	19.68	1.97	19.48	1.95	19.29	1.93	19.10	1.91	18.91	1.89	18.72	1.87
32.0	20.09	1.85	19.89	1.84	19.70	1.82	19.50	1.80	19.31	1.78	19.11	1.76
47.0	20.61	1.65	20.40	1.63	20.20	1.62	20.00	1.60	19.80	1.58	19.60	1.57
75.2	25.86	1.08	25.60	1.07	25.35	1.06	25.10	1.05	24.85	1.04	24.60	1.03

AC024JN4DCH/AA + AC024JXADCH/AA

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)																				
	68/57			72/61			77/64			80/67			82/70			86/72			90/75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
0.0	26.12	20.90	0.86	26.77	21.41	0.89	27.43	21.94	0.91	28.10	22.48	0.93	28.38	22.70	0.94	29.06	23.25	0.96	29.50	23.60	0.98
70.0	25.85	20.68	1.87	26.48	21.19	1.91	27.13	21.71	1.96	27.80	22.24	2.01	28.08	22.46	2.03	28.75	23.00	2.08	29.18	23.35	2.11
95.0	22.31	17.85	1.96	22.86	18.29	2.01	23.42	18.74	2.06	24.00	19.20	2.11	24.24	19.39	2.13	24.82	19.86	2.18	25.19	20.16	2.21
115.0	21.48	17.18	2.81	22.00	17.60	2.88	22.55	18.04	2.95	23.10	18.48	3.02	23.33	18.66	3.05	23.89	19.11	3.12	24.25	19.40	3.17

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°F, DB)	Indoor temperature (°F, DB)											
	61.0		64.0		68.0		70.0		72.0		75.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4.0	16.28	2.18	16.12	2.16	15.96	2.14	15.80	2.12	15.64	2.10	15.49	2.08
14.0	25.96	3.19	25.71	3.16	25.45	3.13	25.20	3.10	24.95	3.07	24.70	3.04
32.0	25.76	2.88	25.50	2.86	25.25	2.83	25.00	2.80	24.75	2.77	24.50	2.74
47.0	27.82	2.58	27.54	2.55	27.27	2.53	27.00	2.50	26.73	2.48	26.46	2.45
75.2	33.48	2.56	33.15	2.53	32.83	2.50	32.50	2.48	32.18	2.46	31.85	2.43

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (, DB/WB) : 68/57, 72/61, 77/64, 80/67, 82/70, 86/72, 90/75
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 47 DB / 43 WB.
- . Refrigerant piping length : 5m (16.4ft)
- . Level difference : 0m.

3 Capacity table

4 Way Cassette S

AC030JN4DCH/AA + AC030JXADCH/AA

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)																				
	68/57			72/61			77/64			80/67			82/70			86/72			90/75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
0.0	32.73	26.18	1.72	33.53	26.82	1.76	34.36	27.48	1.81	35.20	28.16	1.85	35.55	28.44	1.87	36.41	29.12	1.91	36.95	29.56	1.94
70.0	31.98	25.59	1.81	32.77	26.21	1.86	33.57	26.86	1.90	34.40	27.52	1.95	34.74	27.80	1.97	35.58	28.46	2.02	36.11	28.89	2.05
95.0	27.89	22.31	2.69	28.58	22.86	2.75	29.28	23.42	2.82	30.00	24.00	2.89	30.30	24.24	2.92	31.03	24.82	2.99	31.49	25.19	3.03
115.0	22.87	18.30	2.85	23.43	18.75	2.92	24.01	19.21	3.00	24.60	19.68	3.07	24.85	19.88	3.10	25.44	20.35	3.18	25.82	20.66	3.22

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°F, DB)	Indoor temperature (°F, DB)											
	61.0		64.0		68.0		70.0		72.0		75.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4.0	21.12	2.83	20.91	2.81	20.71	2.78	20.50	2.75	20.30	2.72	20.09	2.70
14.0	33.48	4.46	33.15	4.42	32.83	4.37	32.50	4.33	32.18	4.29	31.85	4.24
32.0	33.69	3.61	33.36	3.57	33.03	3.54	32.70	3.50	32.37	3.47	32.05	3.43
47.0	32.97	3.20	32.64	3.17	32.32	3.14	32.00	3.11	31.68	3.08	31.36	3.05
75.2	42.04	3.03	41.62	3.00	41.21	2.97	40.80	2.94	40.39	2.91	39.99	2.88

AC036JN4DCH/AA + AC036JXADCH/AA

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)																				
	68/57			72/61			77/64			80/67			82/70			86/72			90/75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
0.0	36.02	28.81	2.40	36.90	29.52	2.46	37.81	30.25	2.52	38.74	30.99	2.58	39.13	31.30	2.61	40.07	32.05	2.67	40.67	32.53	2.71
70.0	35.89	28.71	2.43	36.77	29.42	2.49	37.67	30.14	2.55	38.60	30.88	2.61	38.99	31.19	2.64	39.92	31.94	2.70	40.52	32.42	2.74
95.0	33.47	26.78	2.77	34.29	27.43	2.84	35.14	28.11	2.91	36.00	28.80	2.98	36.36	29.09	3.01	37.23	29.79	3.08	37.79	30.23	3.13
115.0	23.34	18.67	2.52	23.91	19.13	2.58	24.50	19.60	2.64	25.10	20.08	2.71	25.35	20.28	2.74	25.96	20.77	2.80	26.35	21.08	2.84

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°F, DB)	Indoor temperature (°F, DB)											
	61.0		64.0		68.0		70.0		72.0		75.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4.0	26.27	4.33	26.01	4.28	25.76	4.24	25.50	4.20	25.25	4.16	24.99	4.12
14.0	39.67	4.96	39.27	4.91	38.89	4.86	38.50	4.81	38.12	4.76	37.73	4.71
32.0	40.70	4.22	40.29	4.18	39.90	4.14	39.50	4.10	39.11	4.06	38.71	4.02
47.0	41.21	3.59	40.80	3.55	40.40	3.51	40.00	3.48	39.60	3.45	39.20	3.41
75.2	48.22	2.97	47.74	2.94	47.27	2.91	46.80	2.88	46.33	2.85	45.87	2.82

- Capacities are based on following conditions;

- . Cooling mode indoor air temperature (, DB/WB) : 68/57, 72/61, 77/64, 80/67, 82/70, 86/72, 90/75
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 47 DB / 43 WB.
- . Refrigerant piping length : 5m (16.4ft)
- . Level difference : 0m.

3 Capacity table

4 Way Cassette S

AC042JN4DCH/AA + AC042JXADCH/AA

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)																				
	68/57			72/61			77/64			80/67			82/70			86/72			90/75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
0.0	41.93	33.54	2.98	42.96	34.37	3.06	44.02	35.21	3.13	45.10	36.08	3.21	45.55	36.44	3.24	46.64	37.32	3.32	47.34	37.88	3.37
70.0	40.91	32.73	3.11	41.91	33.53	3.18	42.94	34.36	3.26	44.00	35.20	3.34	44.44	35.55	3.37	45.51	36.41	3.45	46.19	36.95	3.51
95.0	39.05	31.24	3.76	40.01	32.01	3.85	40.99	32.79	3.94	42.00	33.60	4.04	42.42	33.94	4.08	43.44	34.75	4.18	44.09	35.27	4.24
115.0	26.22	20.97	2.90	26.86	21.49	2.97	27.52	22.02	3.05	28.20	22.56	3.12	28.48	22.79	3.15	29.17	23.33	3.23	29.60	23.68	3.28

Heating

TC : Total Capacity, PI: Power Input

Outdoor temperature (°F, DB)	Indoor temperature (°F, DB)											
	61.0		64.0		68.0		70.0		72.0		75.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4.0	26.89	4.48	26.62	4.44	26.36	4.39	26.10	4.35	25.84	4.31	25.58	4.26
14.0	41.01	5.10	40.60	5.05	40.20	5.00	39.80	4.95	39.40	4.90	39.01	4.85
32.0	45.59	4.84	45.14	4.79	44.69	4.75	44.25	4.70	43.81	4.65	43.37	4.61
47.0	48.42	4.48	47.94	4.44	47.47	4.39	47.00	4.35	46.53	4.31	46.06	4.26
75.2	53.37	4.02	52.84	3.98	52.32	3.94	51.80	3.90	51.28	3.86	50.77	3.82

AC048JN4DCH/AA + AC048JXADCH/AA

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor temperature (°F, DB)	Indoor temperature (°F, WB)																				
	68/57			72/61			77/64			80/67			82/70			86/72			90/75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
0.0	48.81	39.05	3.18	50.01	40.01	3.26	51.24	40.99	3.34	52.50	42.00	3.42	53.03	42.42	3.45	54.30	43.44	3.54	55.11	44.09	3.59
70.0	47.79	38.23	3.23	48.96	39.17	3.31	50.17	40.13	3.39	51.40	41.12	3.47	51.91	41.53	3.50	53.16	42.53	3.59	53.96	43.17	3.64
95.0	44.63	35.70	4.60	45.72	36.58	4.72	46.85	37.48	4.83	48.00	38.40	4.95	48.48	38.78	5.00	49.64	39.71	5.12	50.39	40.31	5.20
115.0	30.03	24.02	3.32	30.77	24.61	3.40	31.52	25.22	3.48	32.30	25.84	3.57	32.62	26.10	3.61	33.41	26.72	3.69	33.91	27.13	3.75

Heating

TC : Total Capacity PI: Power Input

Outdoor temperature (°F, DB)	Indoor temperature (°F, DB)											
	61.0		64.0		68.0		70.0		72.0		75.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4.0	26.89	4.48	26.62	4.44	26.36	4.39	26.10	4.35	25.84	4.31	25.58	4.26
14.0	41.01	5.10	40.60	5.05	40.20	5.00	39.80	4.95	39.40	4.90	39.01	4.85
32.0	48.22	5.25	47.74	5.20	47.27	5.15	46.80	5.10	46.33	5.05	45.87	5.00
47.0	54.61	5.20	54.07	5.15	53.53	5.10	53.00	5.05	52.47	5.00	51.95	4.95
75.2	57.18	4.58	56.62	4.54	56.06	4.49	55.50	4.45	54.95	4.41	54.40	4.36

- Capacities are based on following conditions;

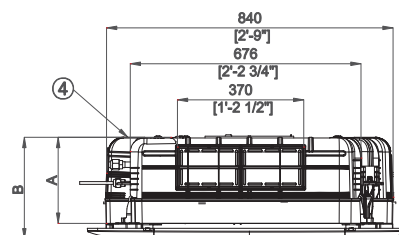
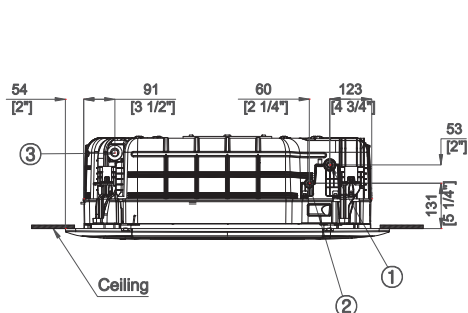
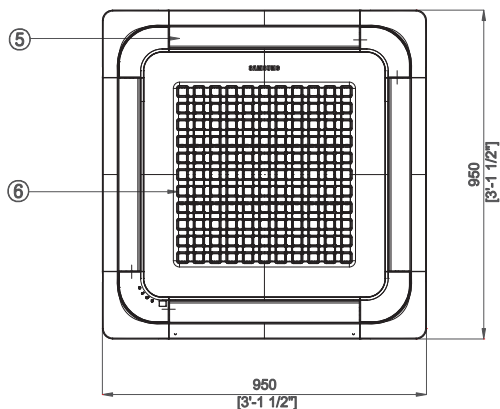
- . Cooling mode indoor air temperature (, DB/WB) : 68/57, 72/61, 77/64, 80/67, 82/70, 86/72, 90/75
- . Heating mode outdoor air : 85%RH. However, the condition rated capacity is 47 DB / 43 WB.
- . Refrigerant piping length : 5m (16.4ft)
- . Level difference : 0m.

4 Dimensional drawing

4 Way Cassette S

AC018JN4DCH/AA, AC024JN4DCH/AA, AC030JN4DCH/AA, AC036JN4DCH/AA, AC042JN4DCH/AA, AC048JN4DCH/AA

Units : mm / inches



	Description	
	018 / 024	030 / 036 / 042 / 048
A (mm)	204	288
B (mm)	253	337

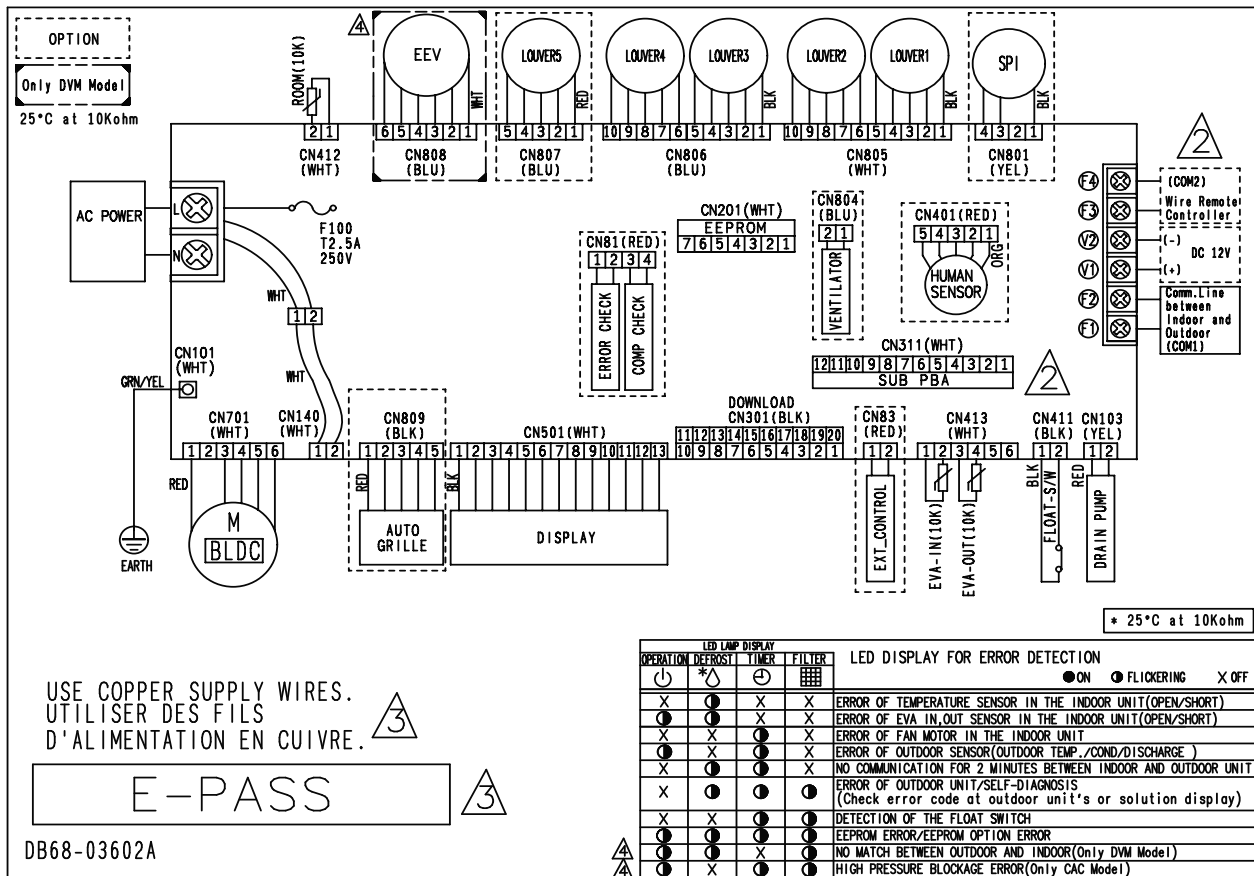
Table of descriptions

1	Refrigerant gas pipe	7	Fresh air intake
2	Refrigerant liquid pipe	8	
3	Condensate drain	9	
4	Power & Comm. wiring conduits	10	
5	Air inlet grille	11	
6	Air outlet louver	12	

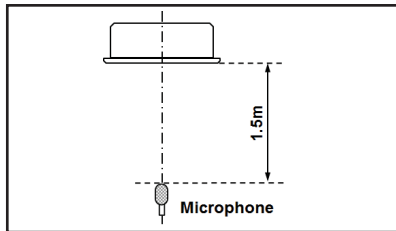
5 Electrical wiring diagram

4 Way Cassette S

AC018JN4DCH/AA, AC024JN4DCH/AA, AC030JN4DCH/AA, AC036JN4DCH/AA, AC042JN4DCH/AA, AC048JN4DCH/AA



4 Way Cassette S



Unit: dB(A)

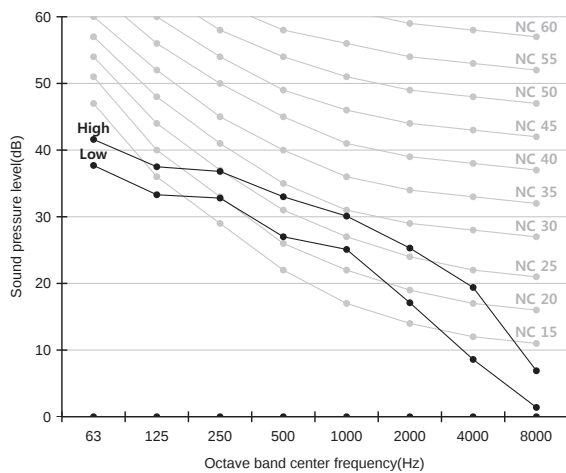
Model	High	Low
AC018JN4DCH/AA (ODU : AC018JXADCH/AA)	36	30
AC024JN4DCH/AA (ODU : AC024JXADCH/AA)	36	30
AC030JN4DCH/AA (ODU : AC030JXADCH/AA)	38	32
AC036JN4DCH/AA (ODU : AC036JXADCH/AA)	43	33

Note

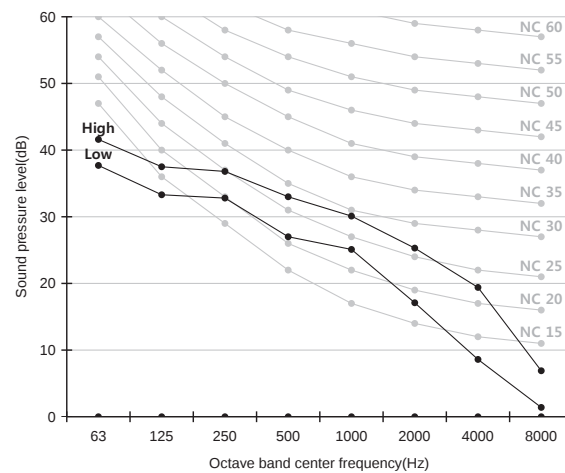
- * Specifications may be subject to change without prior notice
- These operation values are obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition

NC curve

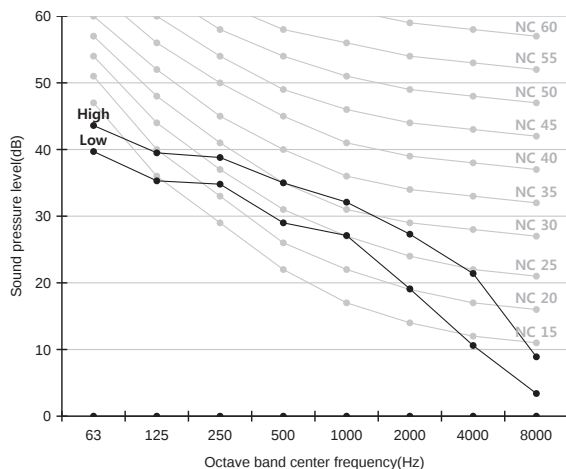
1) AC018JN4DCH/AA (ODU : AC018JXADCH/AA)



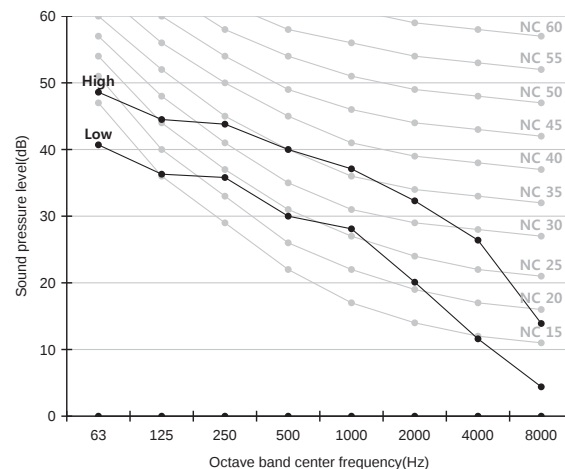
2) AC024JN4DCH/AA (ODU : AC024JXADCH/AA)



3) AC030JN4DCH/AA (ODU : AC030JXADCH/AA)

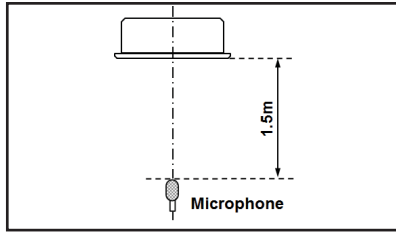


4) AC036JN4DCH/AA (ODU : AC036JXADCH/AA)



6 Sound pressure level

4 Way Cassette S



Unit: dB(A)

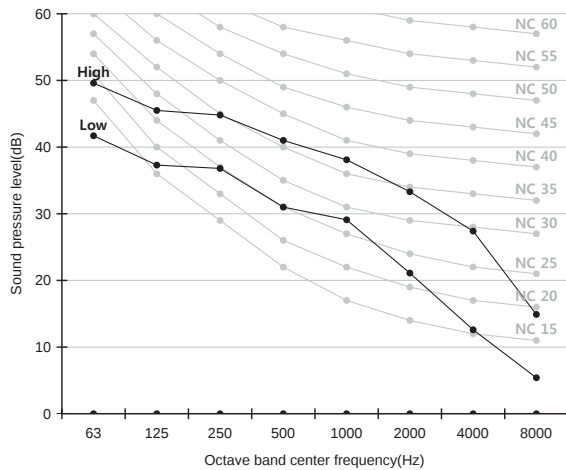
Model	High	Low
AC042JN4DCH/AA (ODU : AC042JXADCH/AA)	44	34
AC048JN4DCH/AA (ODU : AC048JXADCH/AA)	45	35

Note

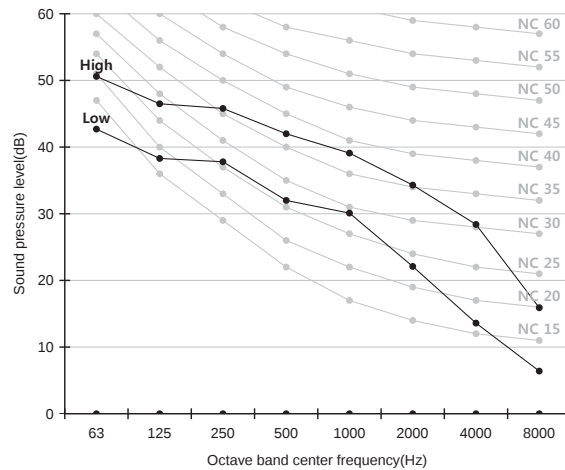
- * Specifications may be subject to change without prior notice
- These operation values are obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition

NC curve

1) AC042JN4DCH/AA (ODU : AC042JXADCH/AA)



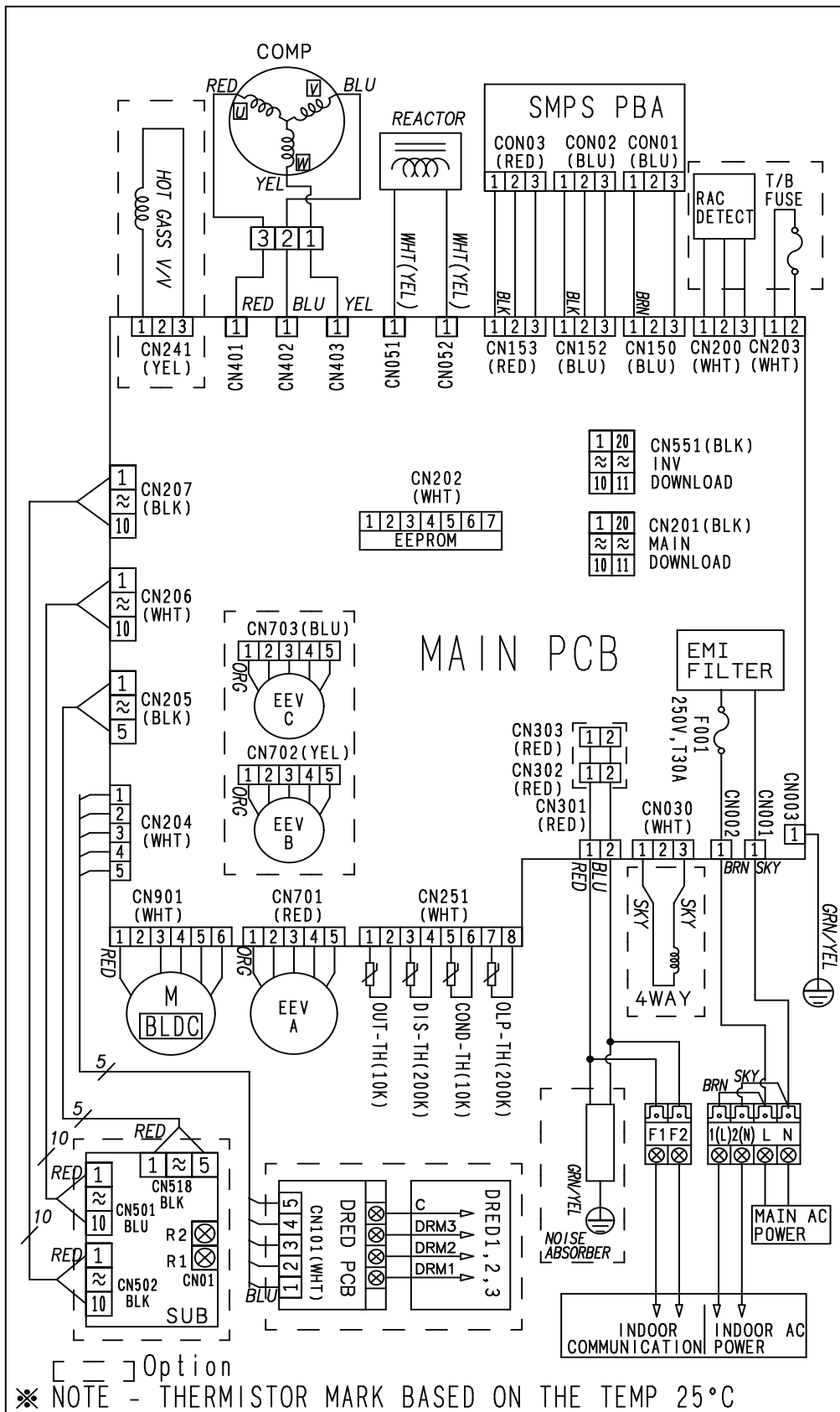
2) AC048JN4DCH/AA (ODU : AC048JXADCH/AA)



7

Outdoor

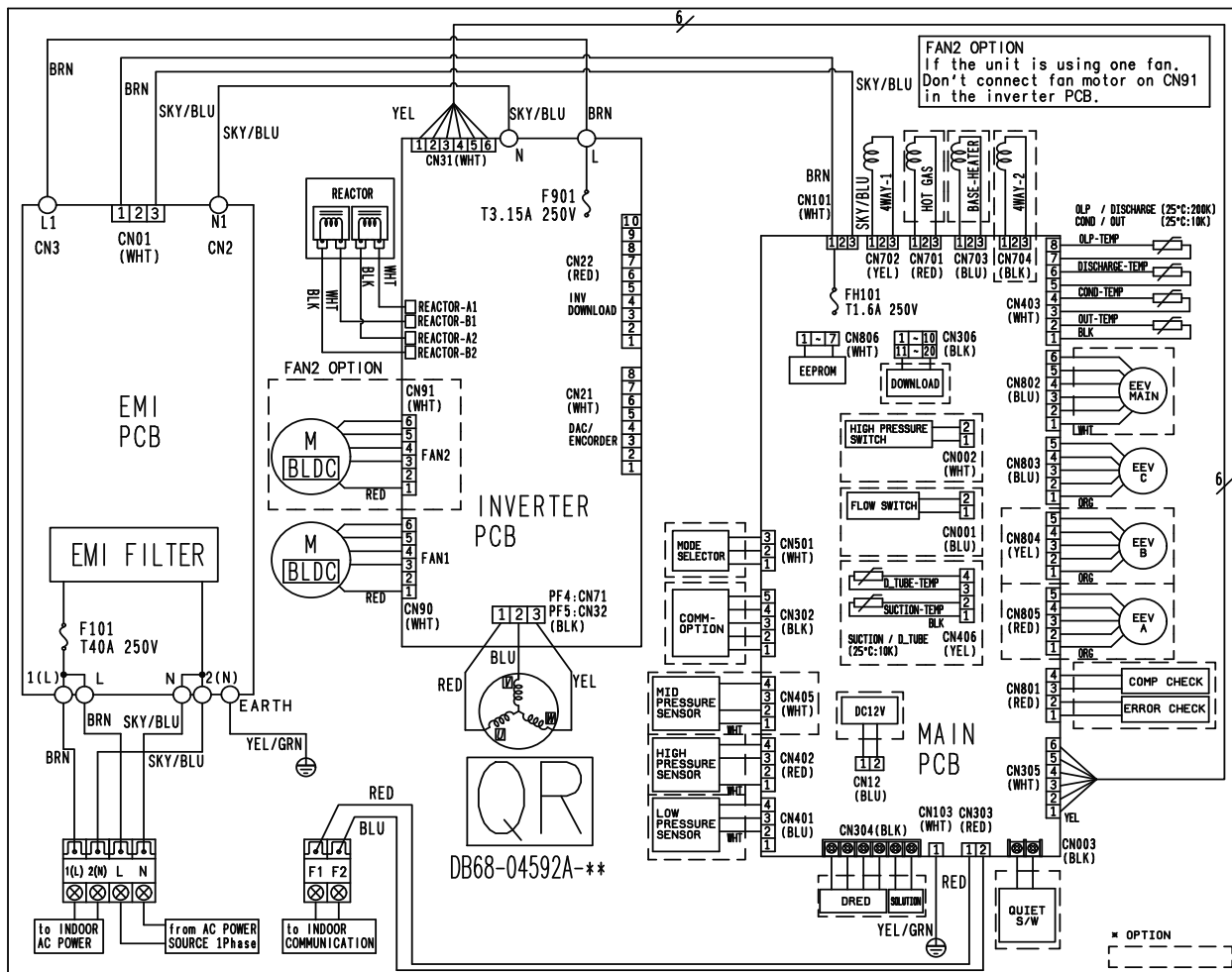
AC018JXADCH/AA



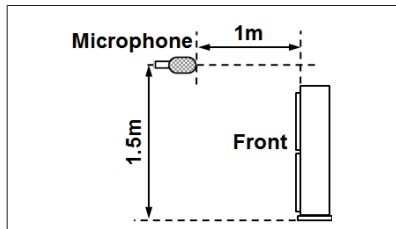
7 Electrical wiring diagram

Outdoor

AC024JXADCH/AA, AC030JXADCH/AA, AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA



Outdoor



Unit: dB(A)

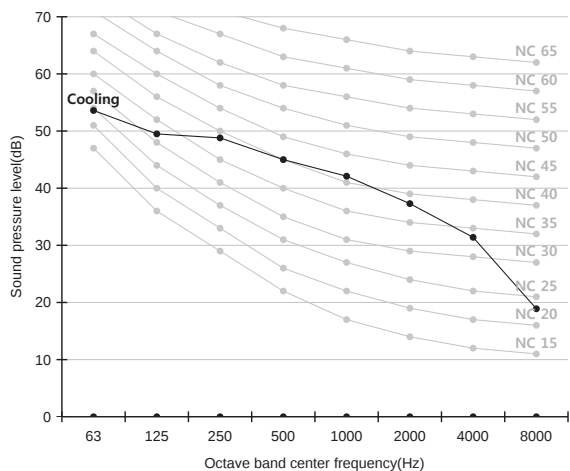
Model	Cooling	Heating
AC018JXADCH/AA (IDU : AC018JN4DCH/AA)	48.	48
AC024JXADCH/AA (IDU : AC024JN4DCH/AA)	50	50
AC030JXADCH/AA (IDU : AC030JN4DCH/AA)	50	52
AC036JXADCH/AA (IDU : AC036JN4DCH/AA)	49	51

Note

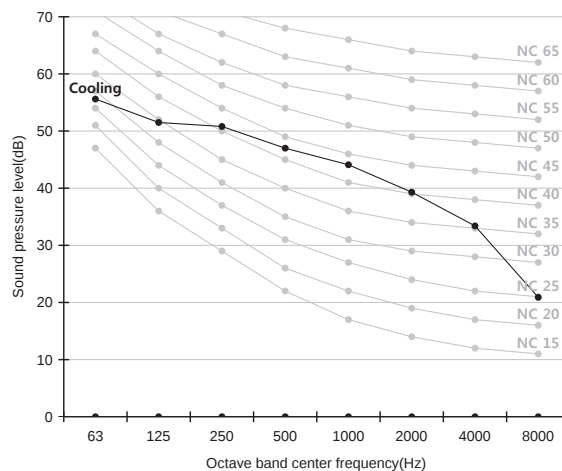
- * Specifications may be subject to change without prior notice
- These operation values are obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition

NC curve

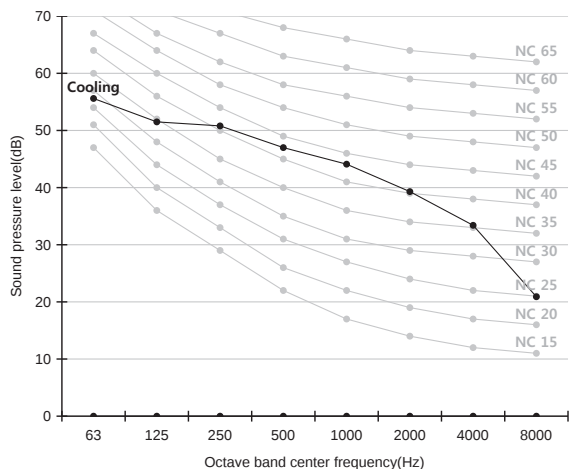
1) AC018JXADCH/AA (IDU : AC018JN4DCH/AA)



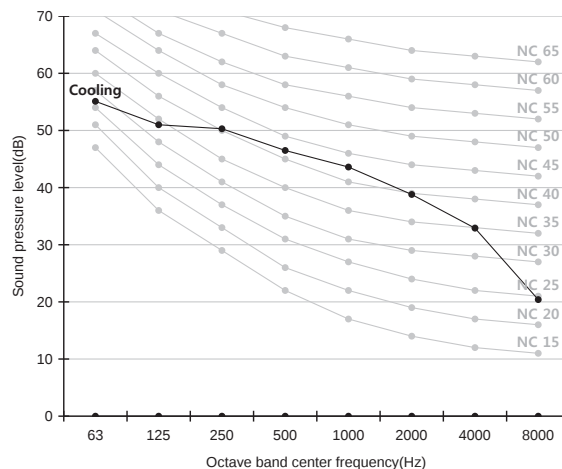
2) AC024JXADCH/AA (IDU : AC024JN4DCH/AA)



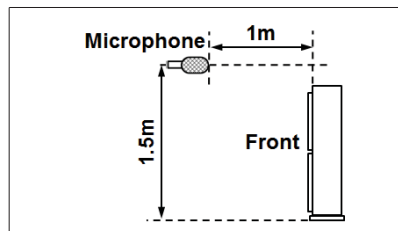
3) AC030JXADCH/AA (IDU : AC030JN4DCH/AA)



4) AC036JXADCH/AA (IDU : AC036JN4DCH/AA)



Outdoor



Unit: dB(A)

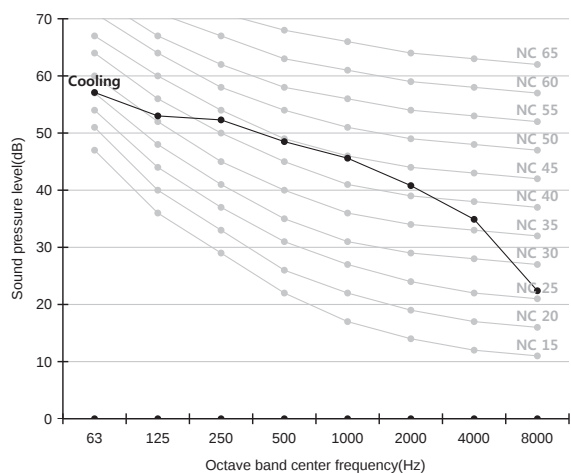
Model	Cooling	Heating
AC042JXADCH/AA (IDU : AC042JN4DCH/AA)	51	53
AC048JXADCH/AA (IDU : AC048JN4DCH/AA)	53	55

Note

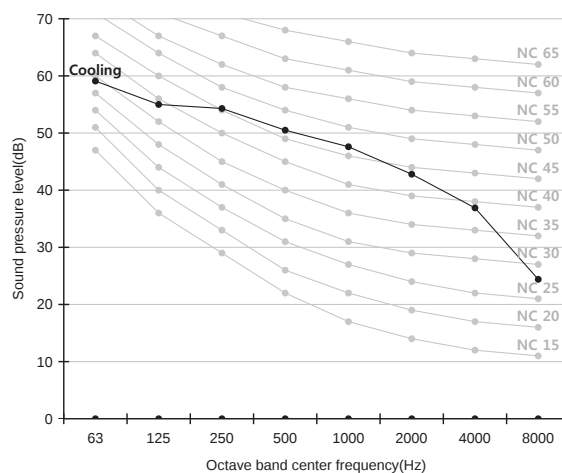
- * Specifications may be subject to change without prior notice
- These operation values are obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition

NC curve

1) AC042JXADCH/AA (IDU : AC042JN4DCH/AA)



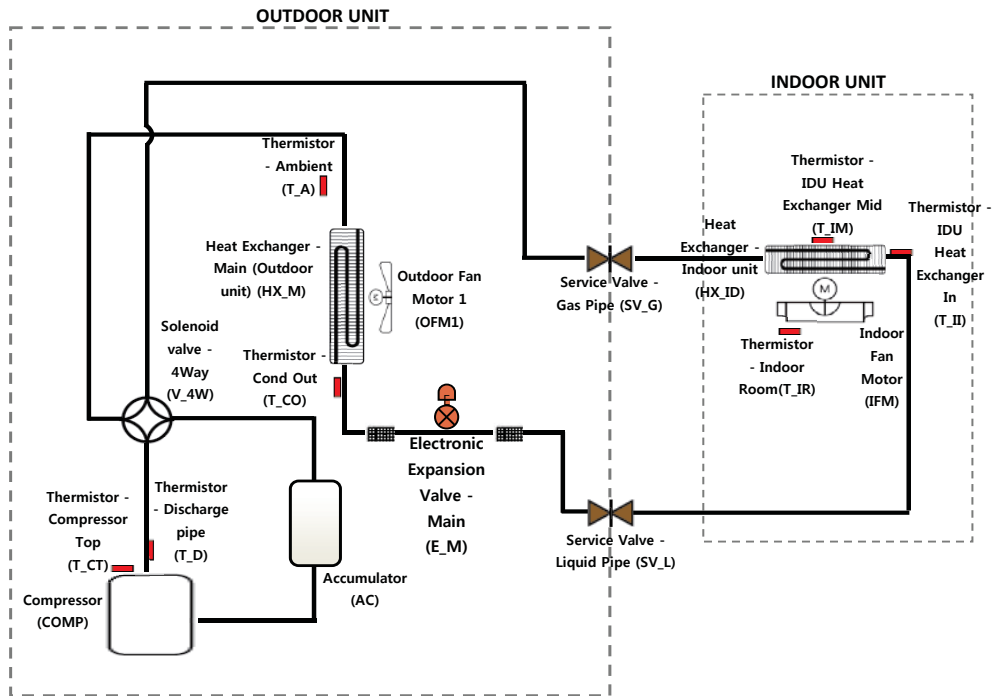
2) AC048JXADCH/AA (IDU : AC048JN4DCH/AA)



8 Cycle diagram

Outdoor

AC018JXADCH/AA

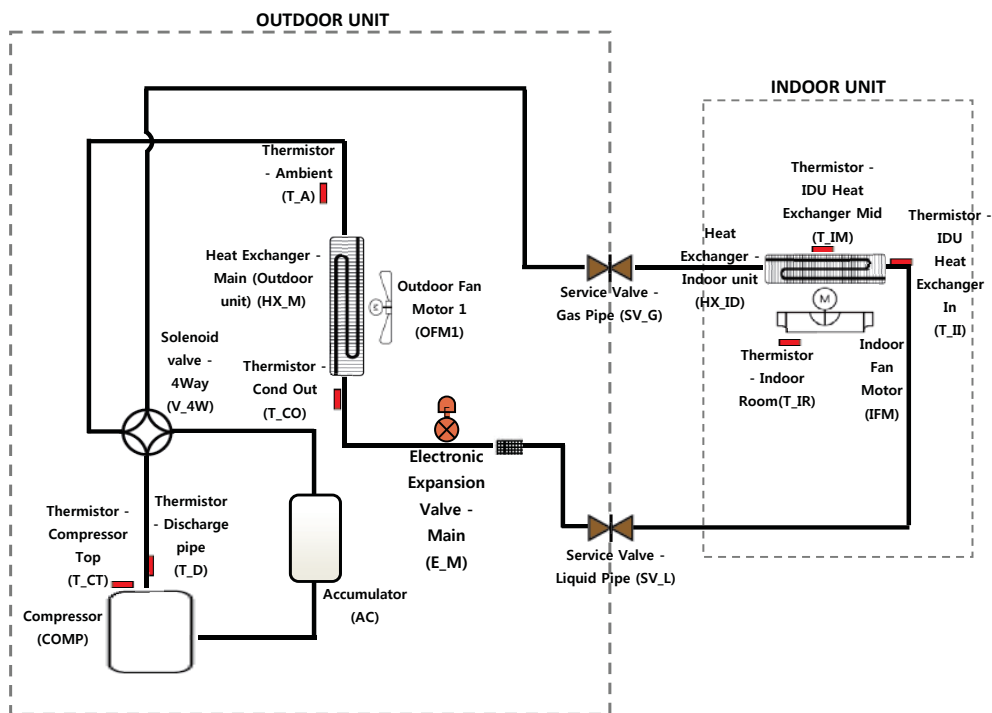


Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	HX_M	Heat Exchanger - Main (Outdoor unit)
	HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	E_M	Electronic Expansion Valve - Main
Solenoid valve	V_4W	Solenoid valve - 4Way
Valve (etc)	SV_G	Service Valve - Gas Pipe
	SV_L	Service Valve - Liquid Pipe
Thermistor	TT_CT	Thermistor - Compressor Top
	T_D	Thermistor - Discharge pipe
	T_CO	Thermistor - Cond Out
	T_A	Thermistor - Ambient
	T_IR	Thermistor - Indoor Room
	T_IM	Thermistor - IDU Heat Exchanger Mid
Fan	OFM1	Outdoor Fan Motor 1
	IFM	Indoor Fan Motor

8 Cycle diagram

Outdoor

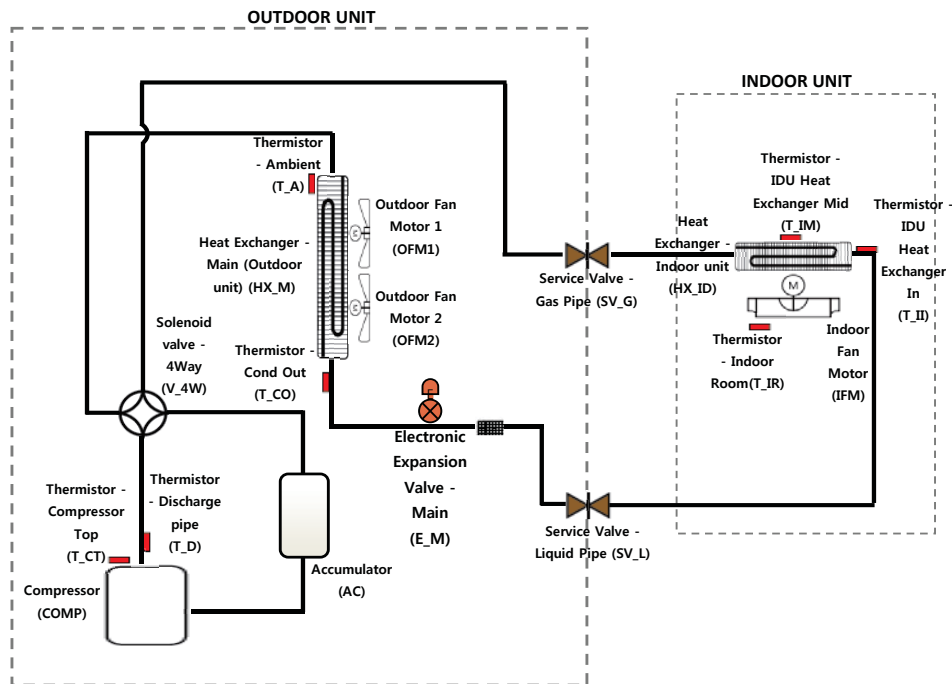
AC024JXADCH/AA, AC030JXADCH/AA



Category	Symbol	Description
Compressor		Compressor
Heat Exchanger	HX_M	Heat Exchanger - Main (Outdoor unit)
	HX_ID	Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV	E_M	Electronic Expansion Valve - Main
Solenoid valve	V_4W	Solenoid valve - 4Way
Valve (etc)	SV_G	Service Valve - Gas Pipe
	SV_L	Service Valve - Liquid Pipe
Thermistor	T_CT	Thermistor - Compressor Top
	T_D	Thermistor - Discharge pipe
	T_CO	Thermistor - Cond Out
	T_A	Thermistor - Ambient
	T_IR	Thermistor - Indoor Room
	T_IM	Thermistor - IDU Heat Exchanger Mid
Fan	OFM1	Outdoor Fan Motor 1
	IFM	Indoor Fan Motor

Outdoor

AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA



Category	Symbol	Description
Compressor		Compressor
Heat Exchanger		Heat Exchanger - Main (Outdoor unit)
		Heat Exchanger - Indoor unit
Tank		Accumulator
Filter		Filter
EEV		Electronic Expansion Valve - Main
Solenoid valve		Solenoid valve - 4Way
Valve (etc)		Service Valve - Gas Pipe
		Service Valve - Liquid Pipe
Thermistor		Thermistor - Compressor Top
		Thermistor - Discharge pipe
		Thermistor - Cond Out
		Thermistor - Ambient
		Thermistor - Indoor Room
		Thermistor - IDU Heat Exchanger Mid
Fan		Outdoor Fan Motor 1
		Outdoor Fan Motor 2
		Indoor Fan Motor

10 Dimensional drawing

Outdoor

AC018JXADCH/AA

Units : mm / inches

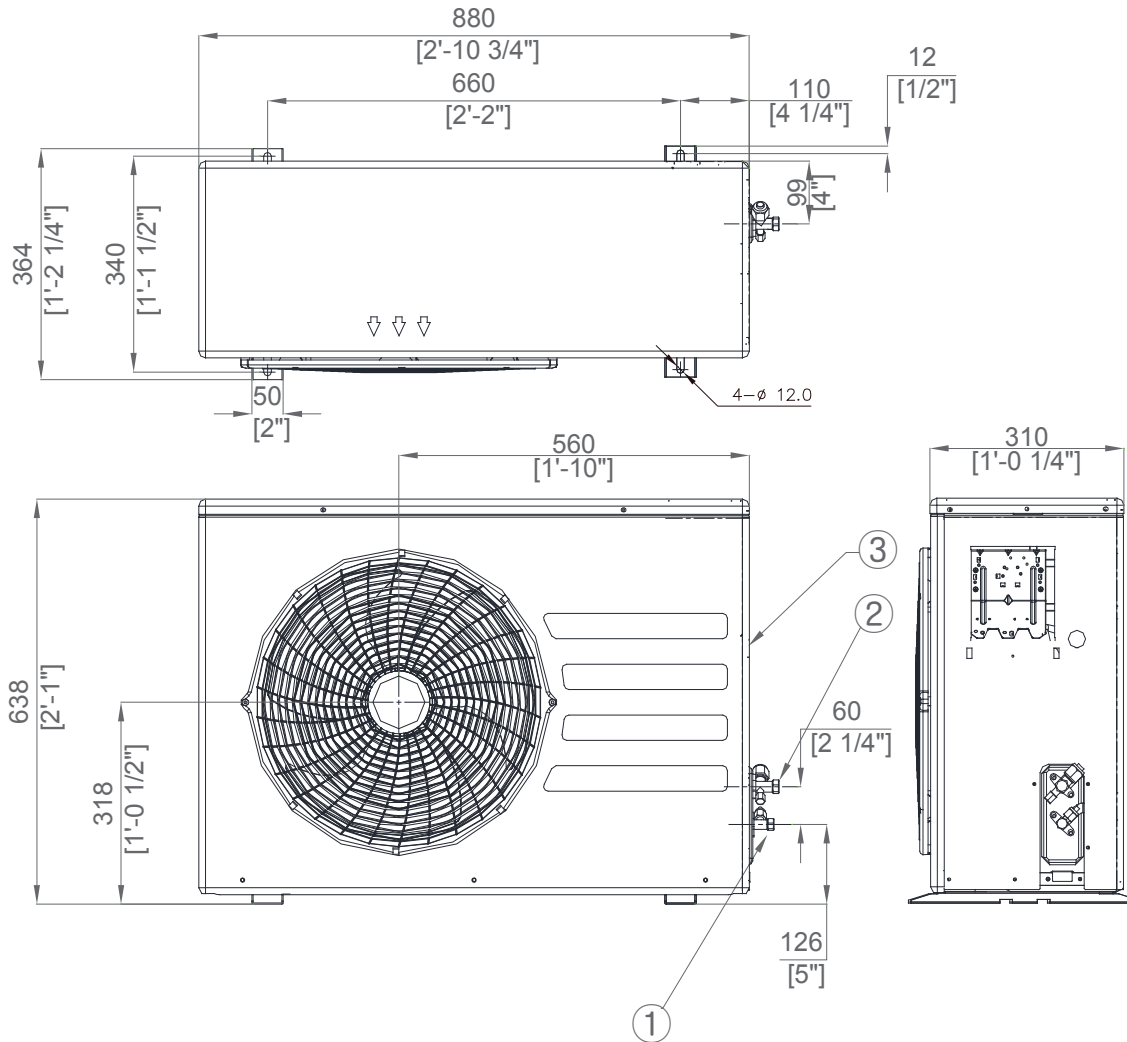


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

10 Dimensional drawing

Outdoor

AC024JXADCH/AA, AC030JXADCH/AA

Units : mm / inches

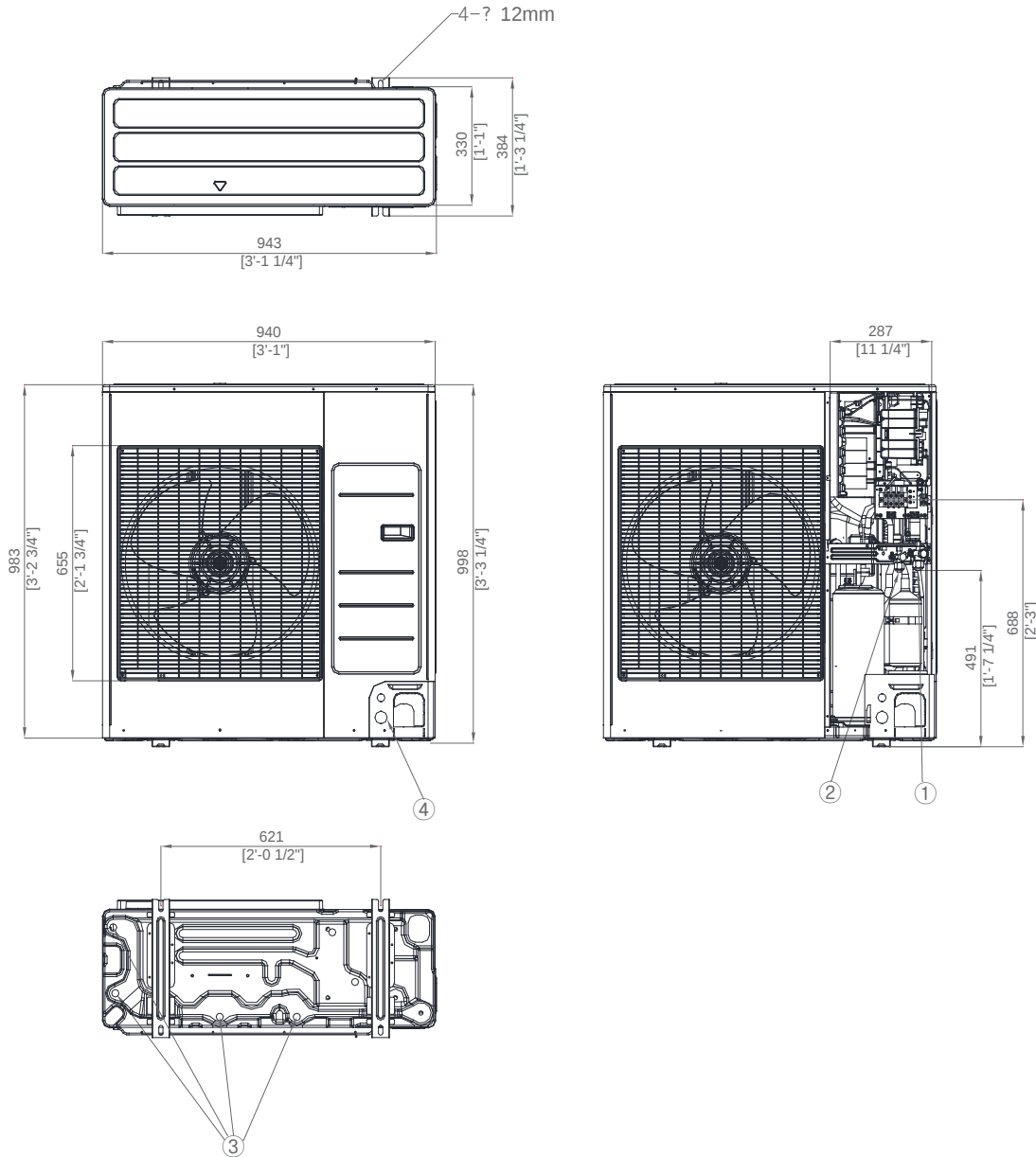


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

10 Dimensional drawing

Outdoor

AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA

Units : mm / inches

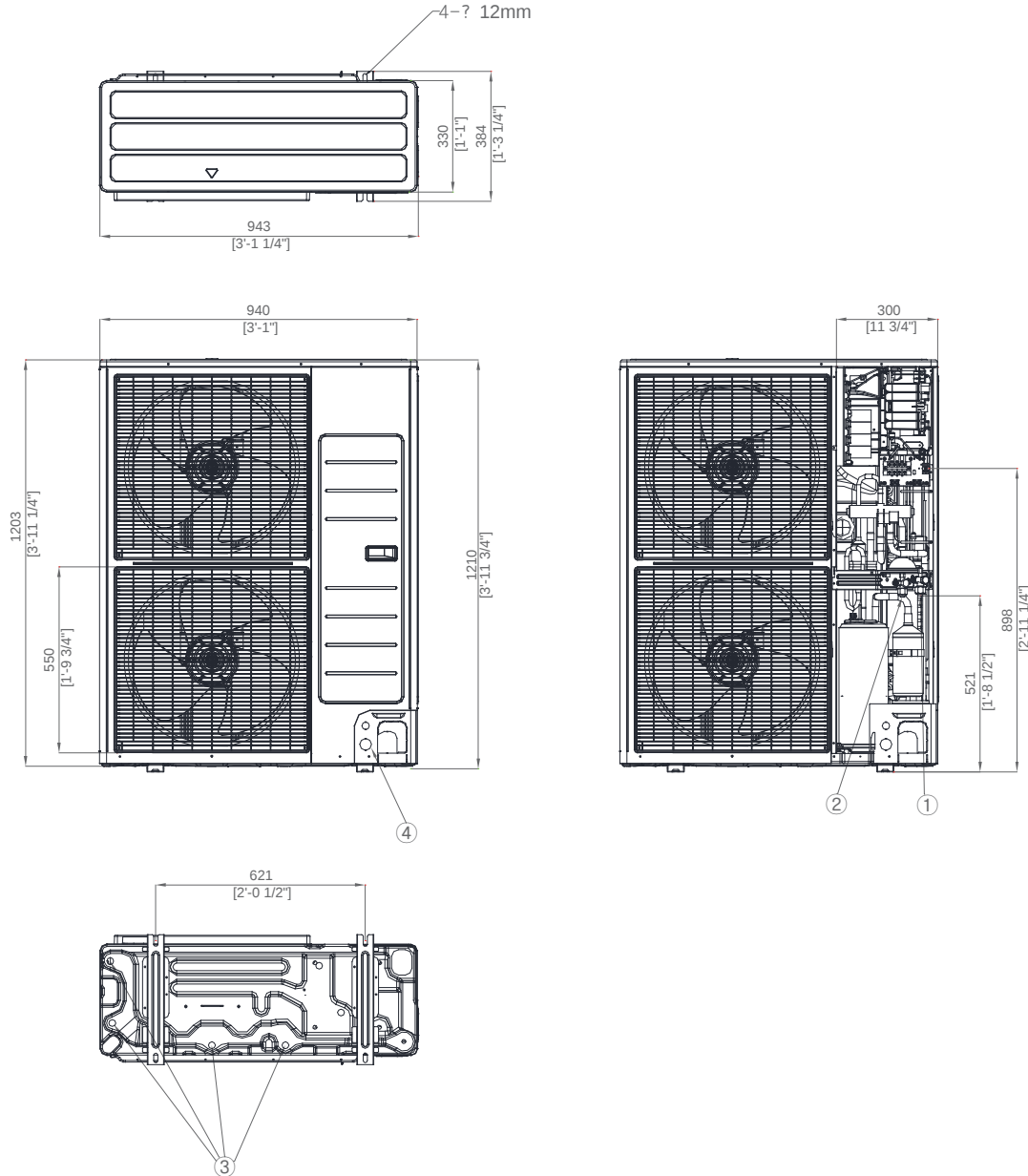


Table of descriptions

1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

11 Capacity correction

Outdoor

AC018JN4DCH/AA + AC018JXADCH/AA

Cooling



		Pipe Length (ft)					
Level Difference (ft)		16.4	32.8	49.2	65.6	82.0	98.4
	65.6	-	-	-	0.96	0.94	0.93
	49.2	-	-	0.97	0.96	0.94	0.93
	32.8	-	0.99	0.97	0.96	0.94	0.93
	16.4	1.00	0.99	0.97	0.96	0.94	0.93
	0.0	1.00	0.99	0.97	0.96	0.94	0.93
	-16.4	1.00	0.98	0.97	0.95	0.94	0.93
	-32.8	-	0.97	0.96	0.95	0.93	0.92
	-49.2	-	-	0.96	0.94	0.93	0.92
	-65.6	-	-	-	0.94	0.92	0.91

Heating



		Pipe Length (ft)					
Level Difference (ft)		16.4	32.8	49.2	65.6	82.0	98.4
	65.6	-	-	-	0.94	0.92	0.90
	49.2	-	-	0.96	0.94	0.92	0.90
	32.8	-	0.98	0.96	0.94	0.92	0.90
	16.4	1.00	0.98	0.96	0.94	0.92	0.90
	0.0	1.00	0.98	0.96	0.94	0.92	0.90
	-16.4	1.00	0.98	0.96	0.94	0.92	0.90
	-32.8	-	0.98	0.96	0.94	0.92	0.90
	-49.2	-	-	0.96	0.94	0.92	0.90
	-65.6	-	-	-	0.94	0.92	0.90

AC024JN4DCH/AA + AC024JXADCH/AA

Cooling



		Pipe Length (ft)									
Level Difference (ft)		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
	98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	82.0	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	65.6	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	49.2	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	32.8	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-16.4	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.88
	-32.8	-	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87
	-49.2	-	-	0.97	0.96	0.94	0.93	0.92	0.90	0.88	0.85
	-65.6	-	-	-	0.95	0.94	0.93	0.91	0.89	0.87	0.83
	-82.0	-	-	-	-	0.94	0.92	0.91	0.89	0.86	0.82
	-98.4	-	-	-	-	-	0.92	0.90	0.88	0.85	0.80

Heating



		Pipe Length (ft)									
Level Difference (ft)		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
	98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	82.0	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	65.6	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	49.2	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	32.8	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-32.8	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-49.2	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-65.6	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-82.0	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	-98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90

11 Capacity correction

Outdoor

AC030JN4DCH/AA + AC030JXADCH/AA

Cooling



		Pipe Length (ft)									
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
Level Difference (ft)	98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	82.0	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	65.6	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	49.2	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	32.8	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-16.4	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.88
	-32.8	-	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87
	-49.2	-	-	0.97	0.96	0.94	0.93	0.92	0.90	0.88	0.85
	-65.6	-	-	-	0.95	0.94	0.93	0.91	0.89	0.87	0.83
	-82.0	-	-	-	-	0.94	0.92	0.91	0.89	0.86	0.82
	-98.4	-	-	-	-	-	0.92	0.90	0.88	0.85	0.80

Heating



		Pipe Length (ft)									
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
Level Difference (ft)	98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
	82.0	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	65.6	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	49.2	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	32.8	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-32.8	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-49.2	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-65.6	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
	-82.0	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
	-98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90

AC036JN4DCH/AA + AC036JXADCH/AA

Cooling



		Pipe Length (ft)														
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
Level Difference (ft)	98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0.0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-16.4	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
	-32.8	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
	-49.2	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
	-65.6	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
	-82.0	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
	-98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating



		Pipe Length (ft)														
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
Level Difference (ft)	98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0.0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

AC042JN4DCH/AA + AC042JXADCH/AA

A diagram showing a power cord connected to a power outlet. The cord is plugged into the outlet, and the other end of the cord is connected to a power source.

		Pipe Length (ft)														
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
Level Difference (ft)	98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0.0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-16.4	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
	-32.8	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
	-49.2	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
	-65.6	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
	-82.0	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80	

		Pipe Length (ft)														
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
Level Difference (ft)	98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0.0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	

Cooling

		Pipe Length (ft)														
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
Level Difference (ft)	98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0.0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-16.4	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
	-32.8	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
	-49.2	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
	-65.6	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
	-82.0	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80	

		Pipe Length (ft)														
		16.4	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
Level Difference (ft)	98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	0.0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-16.4	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-32.8	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-49.2	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
	-82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88	

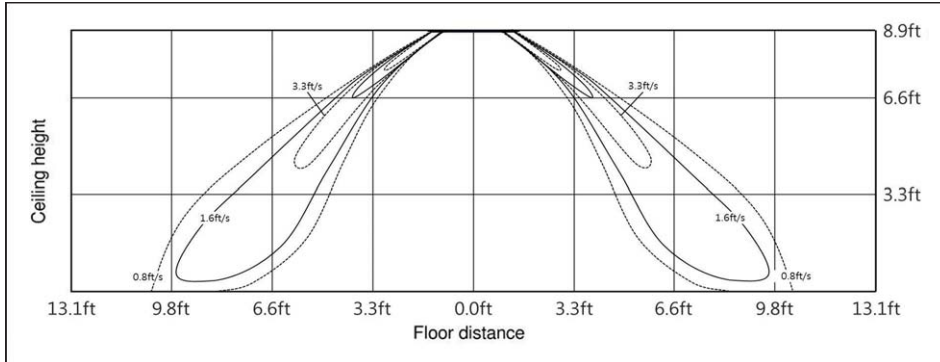
12 Temperature and air flow distribution

4 Way Cassette S

AC018JN4DCH/AA

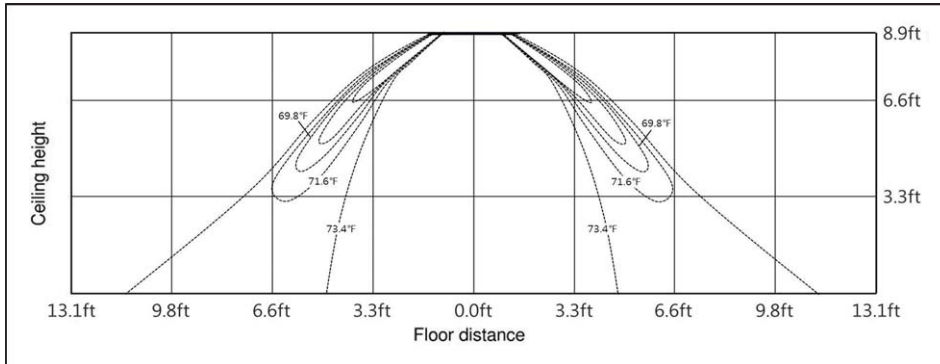
(1) Cooling air velocity distribution

Discharge angle : 38°



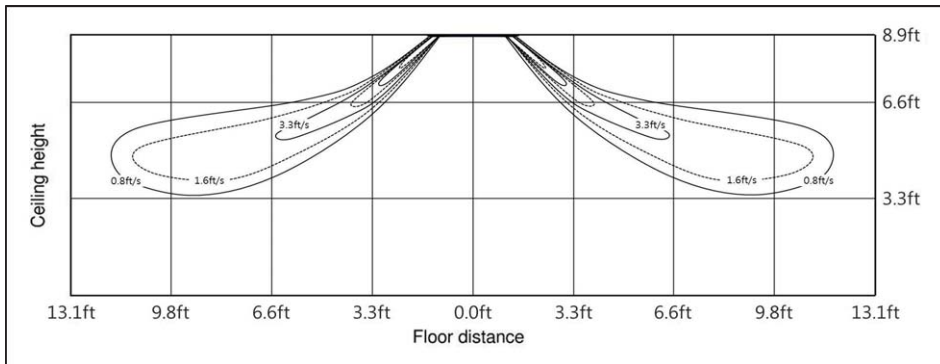
(2) Cooling temperature distribution

Discharge angle : 38°



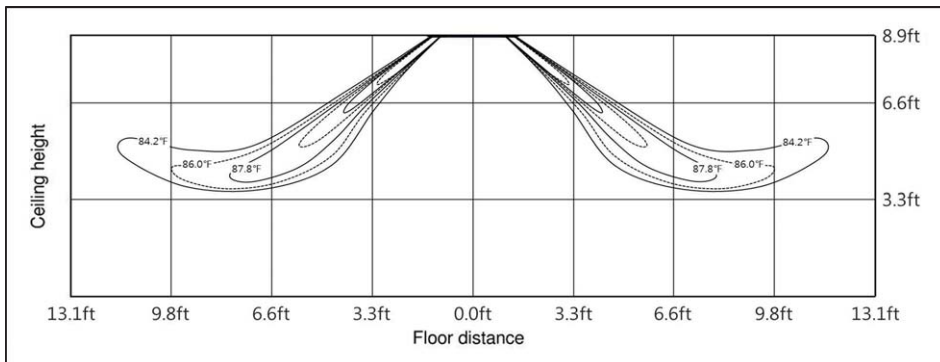
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



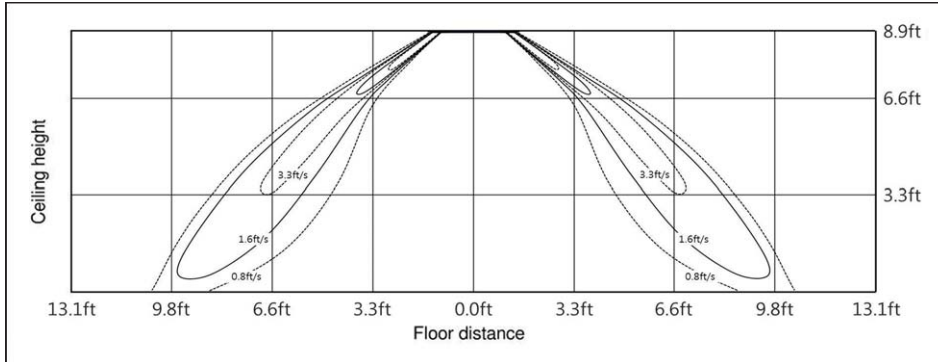
12 Temperature and air flow distribution

4 Way Cassette S

AC024JN4DCH/AA

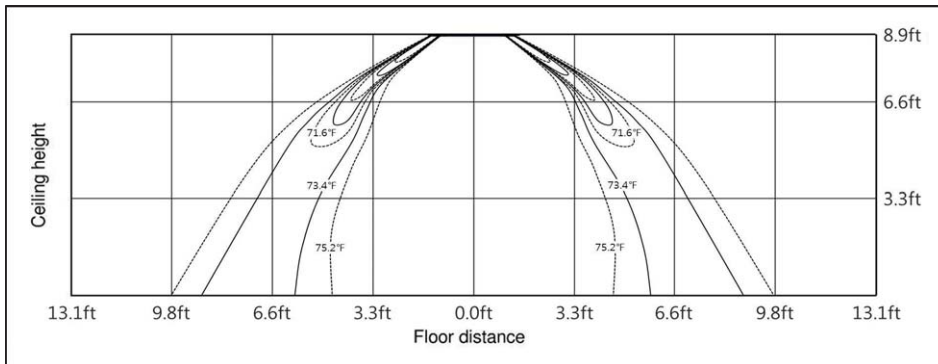
(1) Cooling air velocity distribution

Discharge angle : 38°



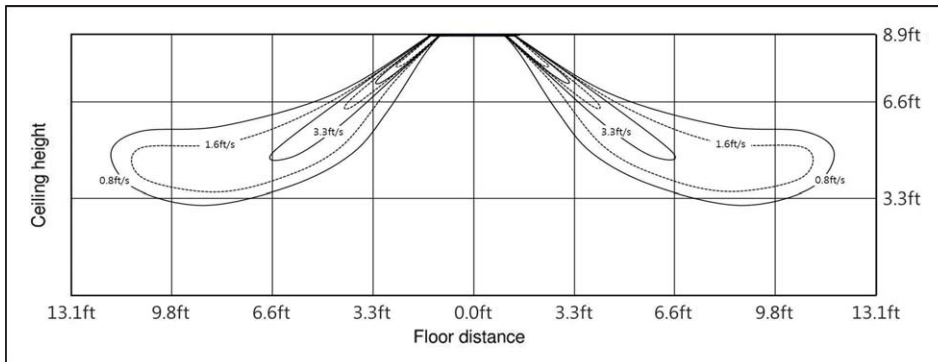
(2) Cooling temperature distribution

Discharge angle : 38°



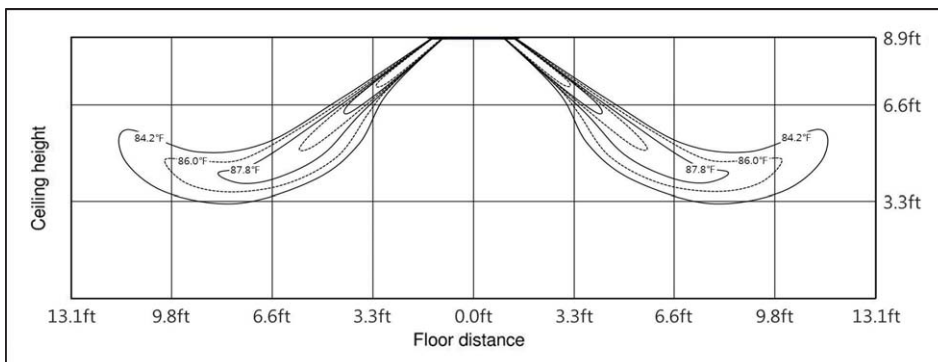
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



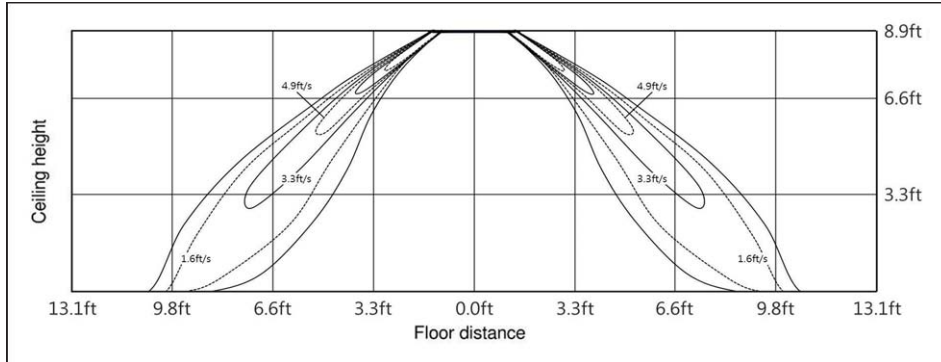
12 Temperature and air flow distribution

4 Way Cassette S

AC030JN4DCH/AA

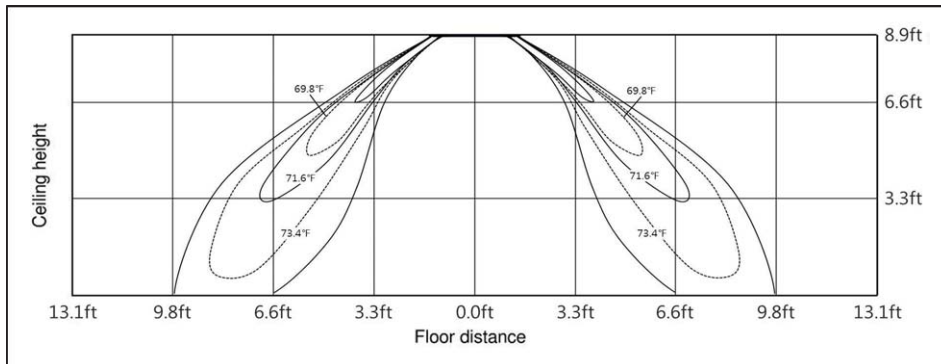
(1) Cooling air velocity distribution

Discharge angle : 38°



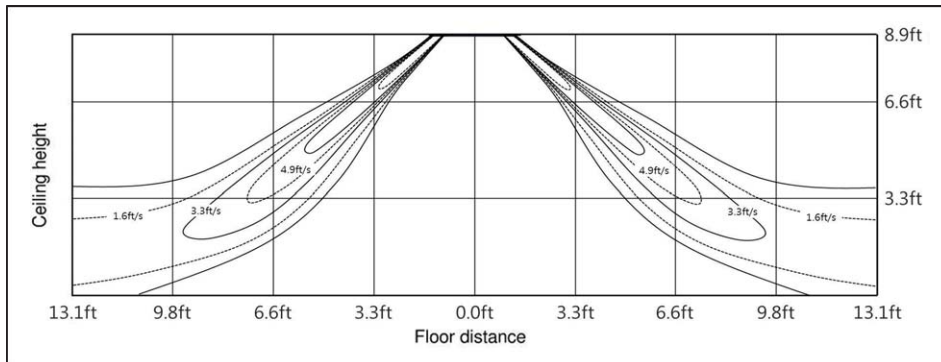
(2) Cooling temperature distribution

Discharge angle : 38°



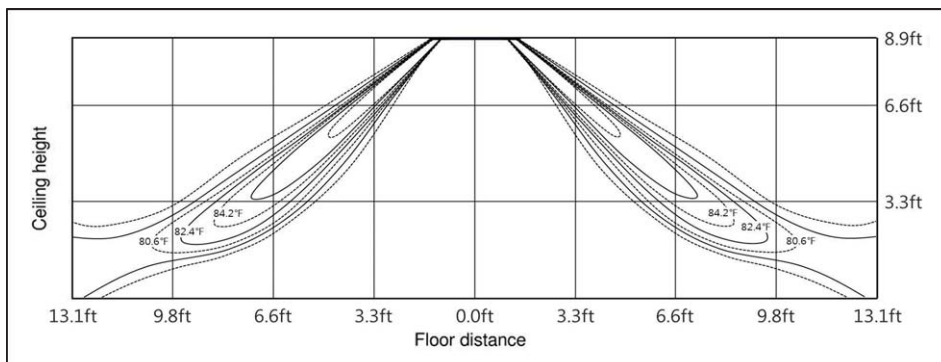
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



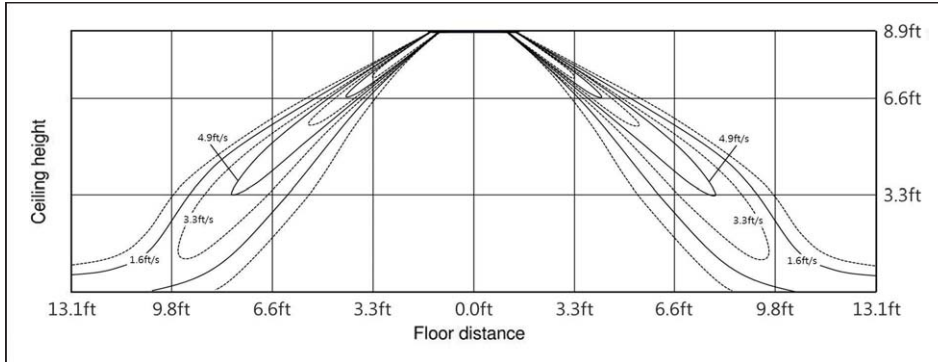
12 Temperature and air flow distribution

4 Way Cassette S

AC036JN4DCH/AA

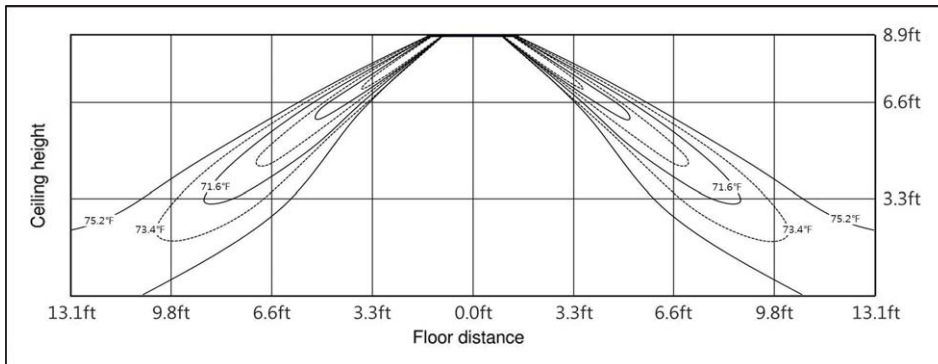
(1) Cooling air velocity distribution

Discharge angle : 38°



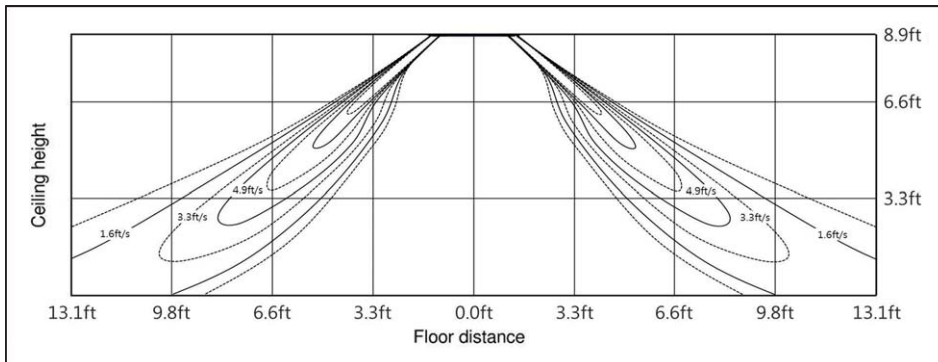
(2) Cooling temperature distribution

Discharge angle : 38°



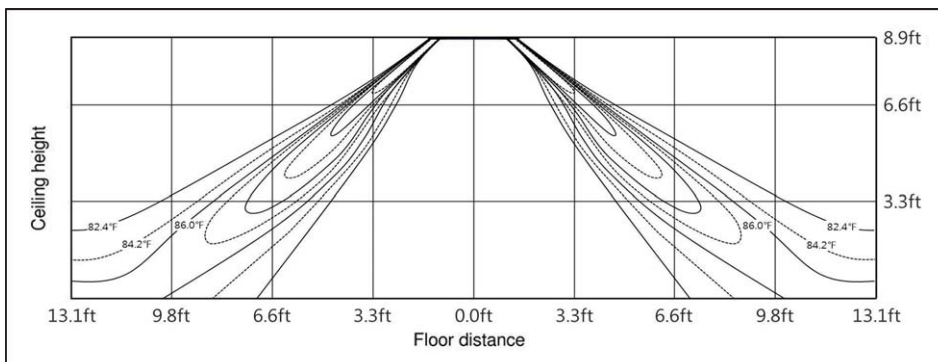
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



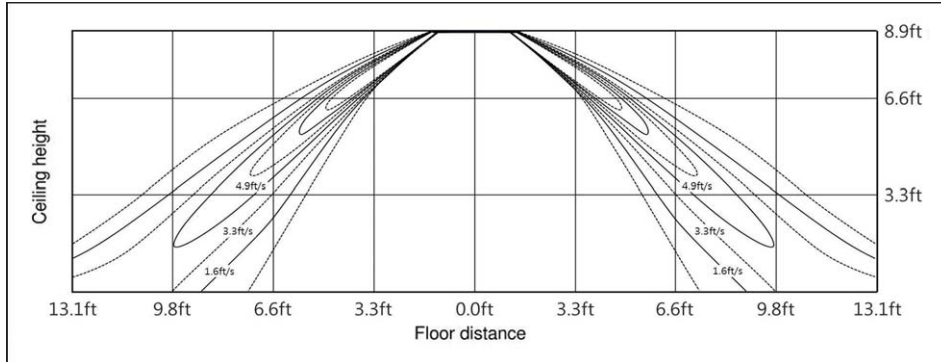
12 Temperature and air flow distribution

4 Way Cassette S

AC042JN4DCH/AA

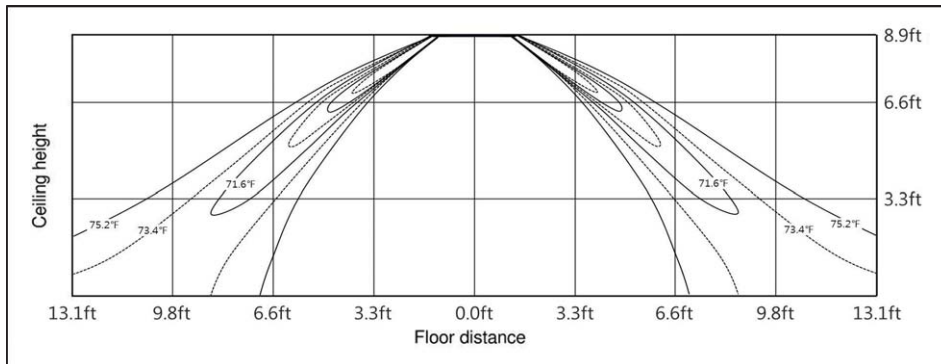
(1) Cooling air velocity distribution

Discharge angle : 38°



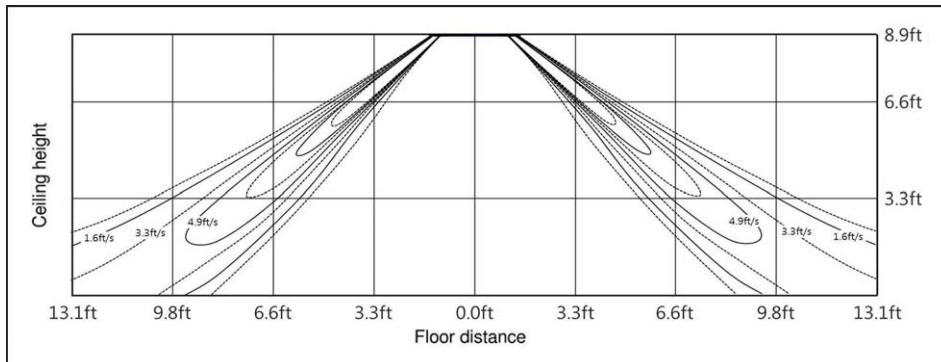
(2) Cooling temperature distribution

Discharge angle : 38°



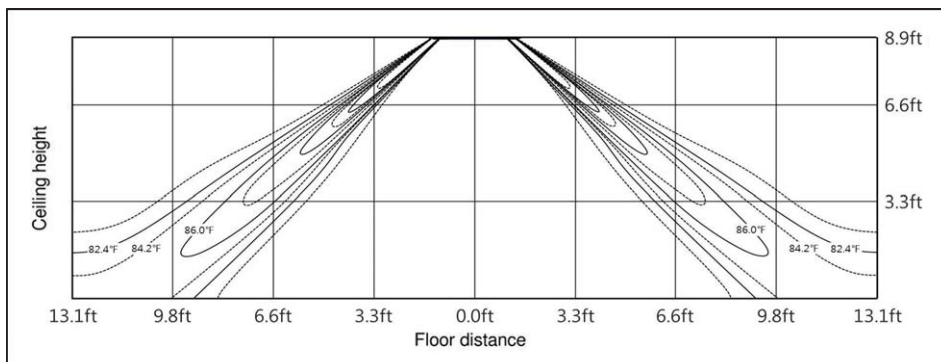
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



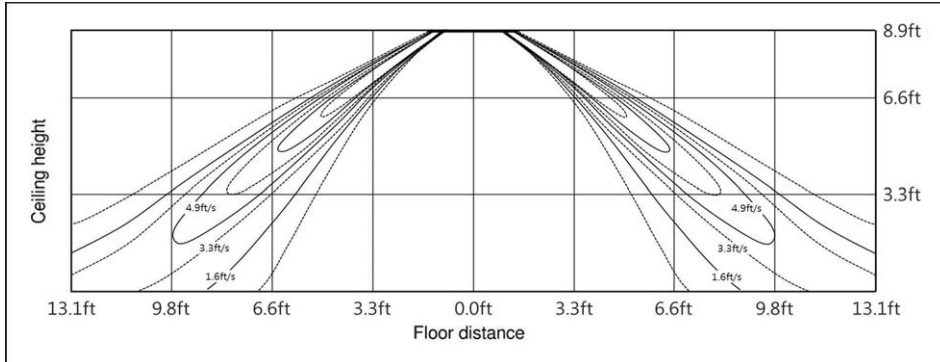
12 Temperature and air flow distribution

4 Way Cassette S

AC048JN4DCH/AA

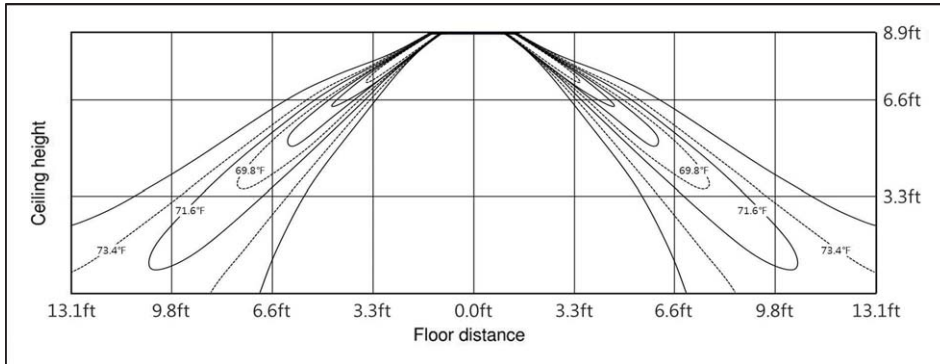
(1) Cooling air velocity distribution

Discharge angle : 38°



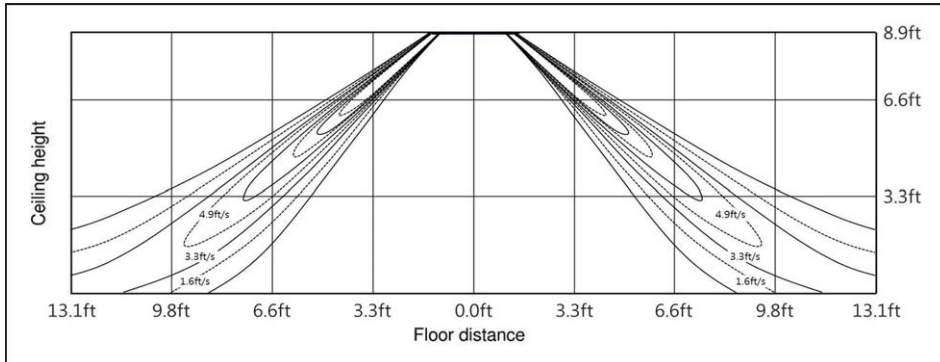
(2) Cooling temperature distribution

Discharge angle : 38°



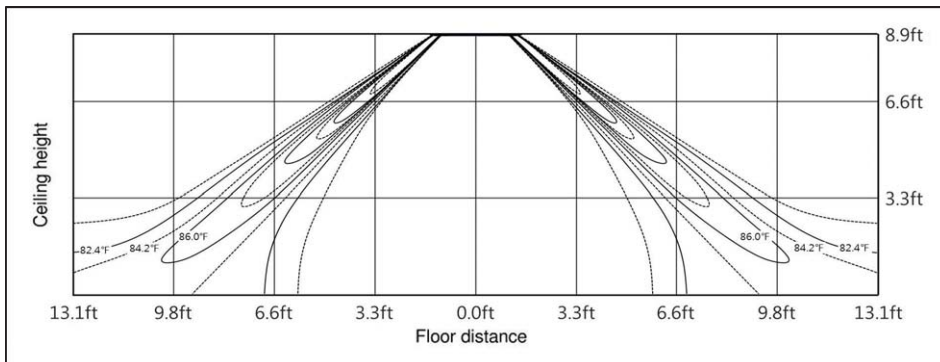
(3) Heating air velocity distribution

Discharge angle : 43°



(4) Heating temperature distribution

Discharge angle : 43°



22016.03
Ver.1.2

The Samsung logo, consisting of the word "SAMSUNG" in a bold, sans-serif font, is enclosed within a white oval shape.

Samsung Electronics Co., LTD.
B2B PM / SE

Head Office (Suwon Korea) 129, Samsung-Ro, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 443-742

Website : www.samsung.com Email : airconditioner@samsung.com

Images and data in this book may subject to change without prior notice.