

SINGLE

Technical Data Book

HSP Duct for America (R410A, 60Hz, H/P)

SAMSUNG

Version	Modification	Date	Remark
Ver.1.0	Release VRF MSP/HSP Duct for America(R410A, 60Hz, HP) TDB	15.03.06	-
Ver.1.1	Modify Cycle diagram error	15.03.19	
Ver.1.2	Modify PQ Curve : CMM -> CFM, mmAq -> InWg	15.04.03	
Ver.1.3	Modify Specification : Add(MCA,MOP), Modify(Air Flow Rate)	15.05.20	
Ver.1.4	Modified MCA	16.03.08	
Ver.1.5	Modified Specifcation for MCA, Compressor oil type, Capacity Table, Cycle diagram	16.09.24	
Ver.1.6	Modify the Recommended operation range (PQ curve)	17.01.16	

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1 Nomenclature

Indoor Units

Model Names

AC	018	J	N	H	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
H	HSP 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

HSP Duct

Type				HSP Duct		HSP Duct		HSP Duct				
Model Name	Indoor Unit			AC018JNHDCH/AA		AC024JNHDCH/AA		AC030JNHDCH/AA				
	Outdoor Unit			AC018JXADCH/AA		AC024JXADCH/AA		AC030JXADCH/AA				
System	Mode			-		Heat Pump		Heat Pump				
	Capacity	Cooling(Min/Std/Max)		kW		1.47 / 5.28 / 6.15		2.05 / 7.03 / 7.91				
				Btu/h		5,000 / 18,000 / 21,000		7,000 / 24,000 / 27,000				
				US RT		0.42 / 1.50 / 1.75		0.58 / 2.00 / 2.25				
		Heating(Min/Std/Max)		kW		1.11 / 5.86 / 7.33		1.52 / 7.91 / 9.09				
				Btu/h		3,800 / 20,000 / 25,000		5,200 / 27,000 / 31,000				
				US RT		0.32 / 1.67 / 2.08		0.43 / 2.25 / 2.58				
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.35 / 1.61 / 2.20		0.45 / 1.99 / 2.50		0.70 / 2.70 / 4.00			
			Heating(Min/Std/Max)		0.26 / 1.73 / 2.70		0.38 / 2.35 / 3.50		0.65 / 2.66 / 5.50			
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	2.10 / 7.40 / 10.00		2.80 / 9.20 / 12.00		4.00 / 12.00 / 17.00			
			Heating(Min/Std/Max)		1.70 / 8.00 / 12.00		2.50 / 10.80 / 14.50		3.40 / 12.00 / 21.80			
		MCA		A		8.60		12.58		23.16		
		MOP		A		15.00		20.00		35.00		
	Energy Efficiency	EER (Nominal Cooling)		-		3.28		3.53		3.26		
		EER (Nominal Cooling, US)		Btu/Wh		11.20		12.10		11.10		
		COP (Nominal Heating)		-		3.39		3.37		3.53		
		Energy Grade		Energy		HSPF 10.3		HSPF 10.5		HSPF 10		
	Piping Connections	Liquid Pipe		Ø, mm		6.35		6.35		9.52		
				Ø, inch		1/4"		1/4"		3/8"		
		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		50		
				ft		98		164		164		
			Max. Height	m		20		30		30		
				ft		66		98		98		
		Field Wiring	Power Source Wire		Ø, mm		-		-		-	
			Transmission Cable		AWG		15 ~ 20		15 ~ 20		15 ~ 20	
	Refrigerant	Type		-		R410A		R410A		R410A		
		Control Method		-		-		-		-		
		Factory Charging		kg		1.30		2.10		2.60		
				lbs		2.87		4.63		5.73		
	Indoor Unit	Power Supply			Ø, #, V, Hz		1,2,208-230,60		1,2,208-230,60		1,2,208-230,60	
Fan		Type		-		Sirocco		Sirocco		Sirocco		
		Motor	Output	W		183 x 1		183 x 1		183 x 2		
				CFM		640.00 / 520.00 / 420.00		820.00 / 670.00 / 530.00		1,050.00 / 900.00 / 750.00		
		External Static Pressure	Min/Std/Max	Pa		0 / 30 / 149		0 / 30 / 149		30 / 40 / 199		
In Wg				0.00 / 0.12 / 0.60		0.00 / 0.12 / 0.60		0.12 / 0.16 / 0.80				
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)		34 / 30 / 26		36 / 32 / 28		37 / 33 / 29		
		Power				Cooling	56.0		58.0		59.0	
External Dimension		Net Weight			kg		43.00		43.00		58.00	
					lbs		94.80		94.80		127.90	
		Shipping Weight	kg		48.00		48.00		66.00			
			lbs		105.80		105.80		145.50			
		Net Dimensions (WxHxD)	mm		1,150 x 320 x 480		1,150 x 320 x 480		1,200 x 360 x 650			
			inch		45.28 x 12.60 x 18.90		45.28 x 12.60 x 18.90		47.24 x 14.17 x 25.59			
Shipping Dimensions (WxHxD)		mm		1,419 x 400 x 594		1,419 x 400 x 594		1,456 x 440 x 778				
		inch		55.87 x 15.75 x 23.39		55.87 x 15.75 x 23.39		57.32 x 17.32 x 30.63				
Panel Size		Panel Model			-		-		-		-	
					kg		-		-		-	
		Panel Net Weight	lbs		-		-		-		-	
			kg		-		-		-		-	
		Shipping Weight	lbs		-		-		-		-	
			mm		-		-		-		-	
		Net Dimensions (WxHxD)	inch		-		-		-		-	
	mm		-		-		-		-			
Shipping Dimensions (WxHxD)	inch		-		-		-		-			
	mm		-		-		-		-			
Additional Accessories	Drain pump	Drain pump	-		Built-in		Built-in		Built-in			
	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		Twin BLDC Rotary		
		Model		-		UG4T150LNBEQ		UG4T200LNFE4		UG8T300LNBJU		
		Output		kW		1.42		1.85		2.82		
	Fan	Oil	Type	-		POE		POE		POE		
		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		-0.4 ~ 114.8		-0.4 ~ 114.8		-0.4 ~ 114.8			
	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(0ft).

- Nominal Heating : Indoor temperature 21.1DB/15.6WB(70DB/60WB), Outdoor temperature 8.3DB/6.1WB(47DB/43WB), Refrigerant pipe length 5m(16.4ft), Level difference 0m(0ft)

- Sound pressuer 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

HSP Duct

Type				HSP Duct		HSP Duct		HSP Duct			
Model Name		Indoor Unit		AC036JNHDCH/AA		AC042JNHDCH/AA		AC048JNHDCH/AA			
		Outdoor Unit		AC036JXADCH/AA		AC042JXADCH/AA		AC048JXADCH/AA			
System	Mode			-	Heat Pump		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 / 3.00 / 3.60		1.08 / 4.00 / 4.50		1.24 / 4.95 / 5.00		
			Heating(Min/Std/Max)		0.72 / 3.30 / 5.00		0.84 / 3.98 / 5.40		0.96 / 5.05 / 5.70		
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	4.80 / 13.30 / 17.00		5.60 / 16.40 / 21.00		6.40 / 21.50 / 23.00		
			Heating(Min/Std/Max)		3.70 / 14.30 / 23.00		4.30 / 17.30 / 25.00		5.00 / 20.00 / 28.00		
		MCA		A	25.53		25.53		25.53		
		MOP		A	40.00		40.00		40.00		
	Energy Efficiency	EER (Nominal Cooling)		-	3.52		3.08		2.84		
		EER (Nominal Cooling, US)		Btu/Wh	12.00		10.50		9.70		
		COP (Nominal Heating)		-	3.55		3.46		3.08		
		Energy Grade		Energy	HSPF 10		HSPF 10		HSPF 9.6		
	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"		
		Installation Limitation	Max. Length	m	75		75		75		
				ft	246		246		246		
			Max. Height	m	30		30		30		
				ft	98		98		98		
Field Wiring		Power Source Wire		Ø, mm	-		-		-		
		Transmission Cable		AWG	15 ~ 20		15 ~ 20		15 ~ 20		
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		-	Sirocco		Sirocco		Sirocco		
		Motor	Output	W	183 x 2		183 x 2		183 x 2		
				CFM	1,200 / 960.00 / 760.00		1,460 / 1,280 / 1,150		1,620 / 1,400 / 1,190		
		External Static Pressure	Min/Std/Max	Pa	30 / 40 / 199		40 / 50 / 199		40 / 50 / 199		
	In Wg			0.12 / 0.16 / 0.80		0.16 / 0.20 / 0.80		0.16 / 0.20 / 0.80			
	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)	38 / 34 / 30		40 / 37 / 34		43 / 40 / 37	
	Power		Cooling			60.0		62.0		65.0	
	External Dimension	Net Weight			kg	58.00		58.00		58.00	
					lbs	127.90		127.90		127.90	
					kg	66.00		66.00		66.00	
			Shipping Weight	lbs	145.50		145.50		145.50		
				Net Dimensions (WxHxD)	mm	1,200 x 360 x 650		1,200 x 360 x 650		1,200 x 360 x 650	
					inch	47.24 x 14.17 x 25.59		47.24 x 14.17 x 25.59		47.24 x 14.17 x 25.59	
	Panel Size	Shipping Dimensions (WxHxD)			mm	1,456 x 440 x 778		1,456 x 440 x 778		1,456 x 440 x 778	
					inch	57.32 x 17.32 x 30.63		57.32 x 17.32 x 30.63		57.32 x 17.32 x 30.63	
					Panel Model	-		-		-	
			Panel Net Weight	kg		-		-		-	
				lbs		-		-		-	
			Shipping Weight	kg	-		-		-		
	lbs	-		-		-					
	Net Dimensions (WxHxD)	mm		-		-		-			
		inch		-		-		-			
	Shipping Dimensions (WxHxD)			mm	-		-		-		
inch				-		-		-			
Additional Accessories				Drain pump	Drain pump	Buit-in		Buit-in		Buit-in	
		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		-	UG5T450FUEJX		UG5T450FUEJX		UG5T450FUEJX		
		Output	Oil	Type	kW	4.12		4.12			
	POE				POE		POE				
	Fan	Air Flow Rate	Cooling	CFM	3,040		3,040		3,040		
				Sound	Pressure	Cooling/Heating	dB(A)	49 / 51		51 / 53	
	Power	Cooling	65		66			67			
	External Dimension	Net Weight			kg	88.00		88.00		88.00	
					lbs	194.01		194.01		194.01	
					kg	98.00		98.00		98.00	
			Shipping Weight	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	-0.4 ~ 114.8		-0.4 ~ 114.8		-0.4 ~ 114.8			
		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(0ft).
- 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

HSP Duct

AC018JNHDCH/AA + AC018JXADCH/AA

Cooling

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

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / 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
-0.4	19.6	15.7	1.1	20.1	16.1	1.1	20.6	16.5	1.2	21.1	16.9	1.2	21.3	17.0	1.2	21.8	17.5	1.2	22.1	17.7	1.3
70	21.1	16.9	1.2	21.6	17.3	1.2	22.2	17.7	1.3	22.7	18.2	1.3	22.9	18.3	1.3	23.5	18.8	1.4	23.8	19.1	1.4
95	16.7	13.4	1.5	17.1	13.7	1.5	17.6	14.1	1.6	18.0	14.4	1.6	18.2	14.5	1.6	18.6	14.9	1.7	18.9	15.1	1.7
114.8	14.4	11.5	2.0	14.8	11.8	2.1	15.1	12.1	2.1	15.5	12.4	2.2	15.7	12.5	2.2	16.0	12.8	2.3	16.3	13.0	2.3

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	9.90	1.44	9.80	1.43	9.70	1.41	9.60	1.40	9.50	1.39	9.40	1.37
14.0	16.60	2.03	16.40	2.01	16.30	1.99	16.10	1.97	15.90	1.95	15.80	1.93
32.0	20.10	1.85	19.90	1.84	19.70	1.82	19.50	1.80	19.30	1.78	19.10	1.76
47.0	20.60	1.78	20.40	1.76	20.20	1.74	20.00	1.73	19.80	1.71	19.60	1.69
75.2	25.30	1.83	25.10	1.82	24.80	1.80	24.60	1.78	24.40	1.76	24.10	1.74

AC024JNHDCH/AA + AC024JXADCH/AA

Cooling

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

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / 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
-0.4	25.2	20.2	1.0	25.8	20.7	1.0	26.4	21.2	1.1	27.1	21.7	1.1	27.4	21.9	1.1	28.0	22.4	1.1	28.4	22.8	1.2
70	25.5	20.4	1.3	26.2	20.9	1.4	26.8	21.4	1.4	27.5	22.0	1.4	27.7	22.2	1.4	28.4	22.7	1.5	28.8	23.1	1.5
95	22.3	17.9	1.8	22.9	18.3	1.9	23.4	18.7	1.9	24.0	19.2	2.0	24.2	19.4	2.0	24.8	19.9	2.1	25.2	20.2	2.1
114.8	20.9	16.7	2.4	21.4	17.1	2.5	22.0	17.6	2.6	22.5	18.0	2.6	22.7	18.2	2.6	23.3	18.6	2.7	23.6	18.9	2.8

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	14.90	2.14	14.80	2.12	14.60	2.10	14.50	2.08	14.40	2.06	14.20	2.04
14.0	20.70	2.78	20.50	2.75	20.30	2.73	20.10	2.70	19.90	2.67	19.70	2.65
32.0	28.00	2.68	27.70	2.65	27.50	2.63	27.20	2.60	26.90	2.57	26.70	2.55
47.0	27.80	2.42	27.50	2.40	27.30	2.37	27.00	2.35	26.70	2.33	26.50	2.30
75.2	36.40	2.58	36.10	2.55	35.70	2.53	35.40	2.50	35.00	2.48	34.60	2.45

- 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

HSP Duct

AC030JNHDCH/AA + AC030JXADCH/AA

Cooling

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

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / 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
-0.4	32.4	25.9	1.1	33.1	26.5	1.1	34.0	27.2	1.2	34.8	27.8	1.2	35.1	28.1	1.2	36.0	28.8	1.2	36.5	29.2	1.3
70	32.0	25.6	1.8	32.7	26.2	1.9	33.5	26.8	1.9	34.4	27.5	1.9	34.7	27.8	2.0	35.5	28.4	2.0	36.1	28.9	2.0
95	27.9	22.3	2.5	28.6	22.9	2.6	29.3	23.4	2.6	30.0	24.0	2.7	30.3	24.2	2.7	31.0	24.8	2.8	31.5	25.2	2.8
114.8	23.0	18.4	2.8	23.6	18.9	2.9	24.2	19.4	3.0	24.8	19.8	3.1	25.0	20.0	3.1	25.6	20.5	3.2	26.0	20.8	3.2

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	19.80	2.83	19.60	2.81	19.40	2.78	19.20	2.75	19.00	2.72	18.90	2.70
14.0	35.20	4.46	34.80	4.42	34.50	4.37	34.10	4.33	33.80	4.29	33.50	4.24
32.0	37.00	4.12	36.60	4.08	36.20	4.04	35.90	4.00	35.50	3.96	35.20	3.92
47.0	33.00	2.74	32.60	2.71	32.30	2.69	32.00	2.66	31.70	2.63	31.40	2.61
75.2	43.30	3.02	42.80	2.99	42.40	2.96	42.00	2.94	41.60	2.91	41.20	2.88

AC036JNHDCH/AA + AC036JXADCH/AA

Cooling

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

Outdoo Temperature (°F, DB)	Indoor Temperature (°F, DB / 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
-0.4	36.0	28.8	2.4	36.9	29.5	2.4	37.8	30.2	2.5	38.7	31.0	2.6	39.1	31.3	2.6	40.1	32.1	2.6	40.7	32.5	2.7
70	35.7	28.6	2.4	36.6	29.3	2.4	37.5	30.0	2.5	38.4	30.7	2.5	38.8	31.0	2.6	39.7	31.8	2.6	40.3	32.3	2.7
95	33.5	26.8	2.8	34.3	27.4	2.9	35.1	28.1	2.9	36.0	28.8	3.0	36.4	29.1	3.0	37.2	29.8	3.1	37.8	30.2	3.1
114.8	22.6	18.1	2.5	23.2	18.6	2.6	23.8	19.0	2.6	24.4	19.5	2.7	24.6	19.7	2.7	25.2	20.1	2.8	25.6	20.4	2.8

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	30.50	4.43	30.20	4.39	29.90	4.34	29.60	4.30	29.30	4.26	29.00	4.21
14.0	37.90	4.86	37.50	4.81	37.20	4.77	36.80	4.72	36.40	4.67	36.10	4.63
32.0	38.30	4.72	37.90	4.67	37.50	4.63	37.20	4.58	36.80	4.53	36.40	4.49
47.0	41.20	3.40	40.80	3.37	40.40	3.33	40.00	3.30	39.60	3.27	39.20	3.23
75.2	49.30	3.22	48.80	3.19	48.30	3.15	47.80	3.12	47.30	3.09	46.90	3.06

- 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

HSP Duct

AC042JNHDCH/AA + AC042JXADCH/AA

Cooling

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

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / 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
-0.4	41.9	33.5	3.0	43.0	34.4	3.1	44.0	35.2	3.1	45.1	36.1	3.2	45.6	36.4	3.2	46.6	37.3	3.3	47.3	37.9	3.4
70	40.9	32.7	3.1	41.9	33.5	3.2	42.9	34.4	3.3	44.0	35.2	3.3	44.4	35.6	3.4	45.5	36.4	3.5	46.2	37.0	3.5
95	39.0	31.2	3.7	40.0	32.0	3.8	41.0	32.8	3.9	42.0	33.6	4.0	42.4	33.9	4.0	43.4	34.8	4.1	44.1	35.3	4.2
114.8	28.4	22.7	2.8	29.1	23.2	2.9	29.8	23.8	2.9	30.5	24.4	3.0	30.8	24.6	3.0	31.5	25.2	3.1	32.0	25.6	3.1

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	26.90	4.48	26.60	4.44	26.40	4.39	26.10	4.35	25.80	4.31	25.60	4.26
14.0	41.00	5.10	40.60	5.05	40.20	5.00	39.80	4.95	39.40	4.90	39.00	4.85
32.0	45.60	4.84	45.10	4.79	44.70	4.75	44.30	4.70	43.80	4.65	43.40	4.61
47.0	48.40	4.48	47.90	4.44	47.50	4.39	47.00	4.35	46.50	4.31	46.10	4.26
75.2	53.40	4.02	52.80	3.98	52.30	3.94	51.80	3.90	51.30	3.86	50.80	3.82

AC048JNHDCH/AA + AC048JXADCH/AA

Cooling

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

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / 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
-0.4	50.0	40.0	3.4	51.2	41.0	3.5	52.5	42.0	3.6	53.8	43.0	3.6	54.3	43.5	3.7	55.6	44.5	3.8	56.5	45.2	3.8
70	49.1	39.3	3.5	50.3	40.2	3.6	51.5	41.2	3.7	52.8	42.2	3.8	53.3	42.7	3.8	54.6	43.7	3.9	55.4	44.3	4.0
95	44.6	35.7	4.6	45.7	36.6	4.7	46.8	37.5	4.8	48.0	38.4	5.0	48.5	38.8	5.0	49.6	39.7	5.1	50.4	40.3	5.2
114.8	29.0	23.2	3.6	29.7	23.8	3.7	30.5	24.4	3.8	31.2	25.0	3.9	31.5	25.2	3.9	32.3	25.8	4.0	32.8	26.2	4.1

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	29.00	4.66	28.70	4.61	28.40	4.57	28.20	4.52	27.90	4.47	27.60	4.43
14.0	43.60	5.62	43.10	5.56	42.70	5.50	42.30	5.45	41.80	5.40	41.40	5.34
32.0	46.50	5.41	46.10	5.36	45.60	5.30	45.20	5.25	44.70	5.20	44.30	5.15
47.0	54.60	5.20	54.10	5.15	53.50	5.10	53.00	5.05	52.50	5.00	51.90	4.95
75.2	62.80	4.51	62.20	4.47	61.60	4.42	61.00	4.38	60.40	4.34	59.80	4.29

- 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

HSP Duct

AC018JNHDCH/AA, AC024JNHDCH/AA

Units : mm / inches

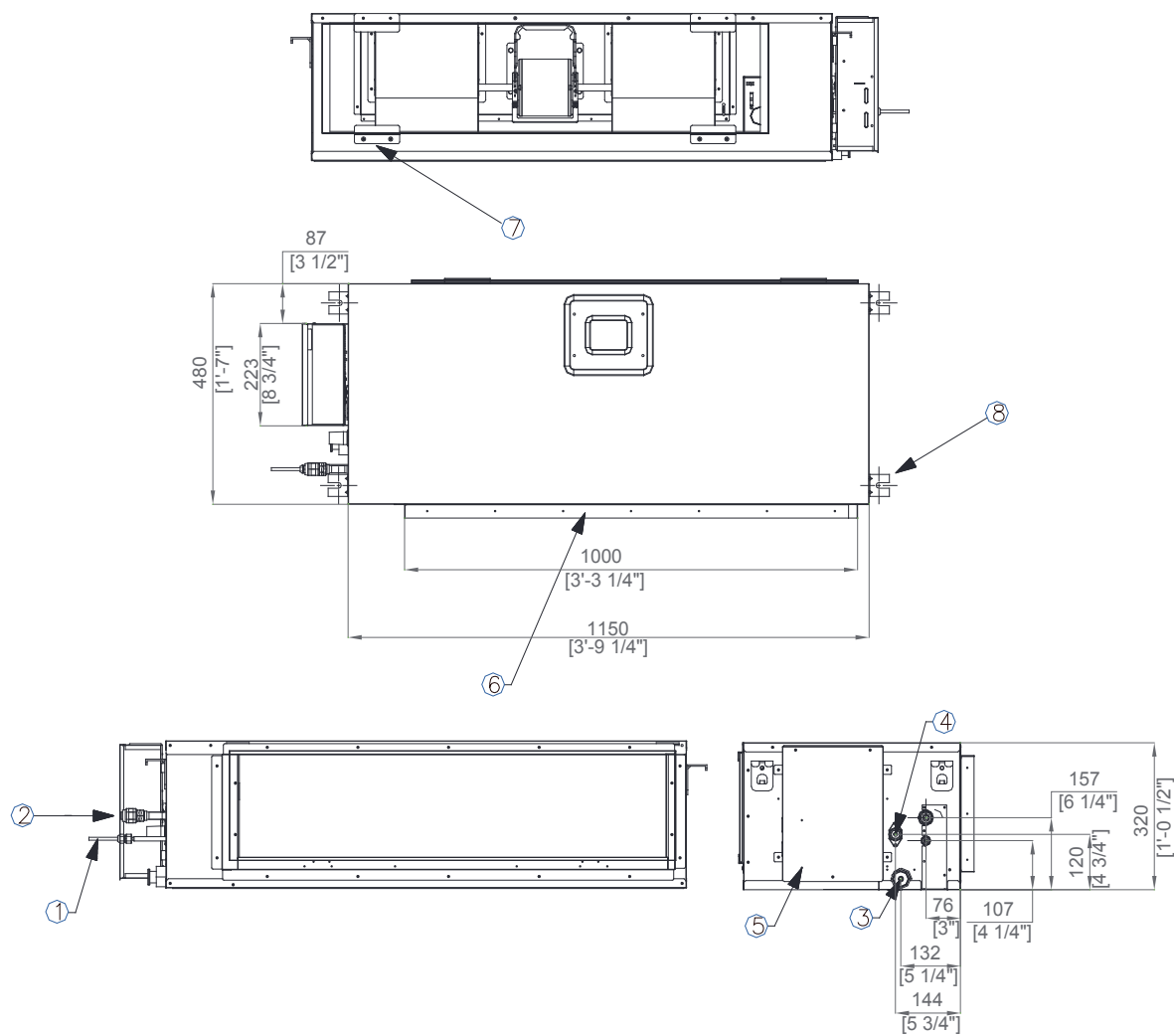


Table of descriptions

1	Refrigerant liquid pipe	7	Air filter
2	Refrigerant gas pipe	8	Hook
3	Drain Pipe Connection (Optional)	9	
4	Drain Pipe Connection (Using dain pump)	10	
5	Power supply connection	11	
6	Air discharge flange	12	

4 Dimensional drawing

HSP Duct

AC030JNHDCH/AA, AC036JNHDCH/AA, AC042JNHDCH/AA, AC048JNHDCH/AA

Units : mm / inches

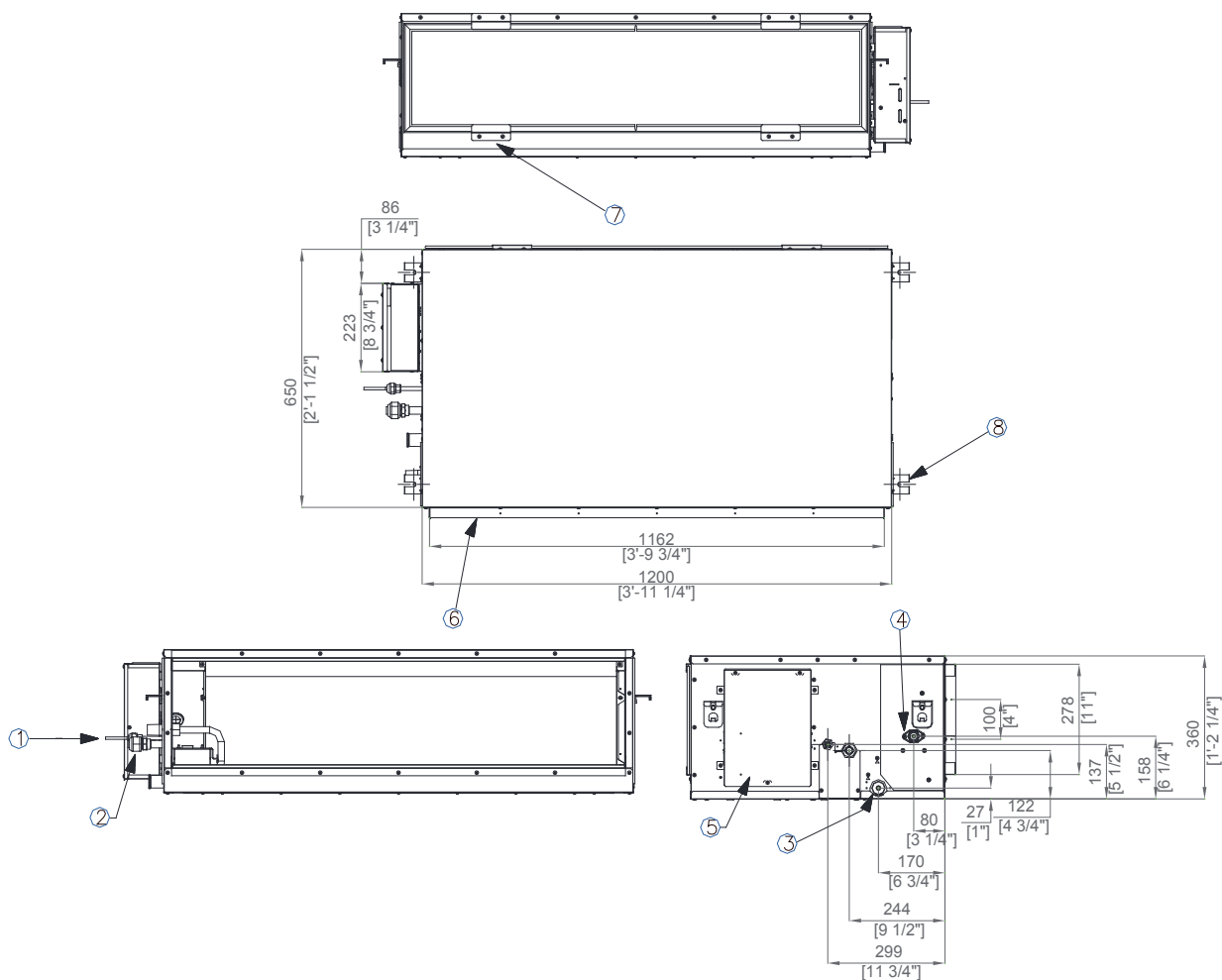


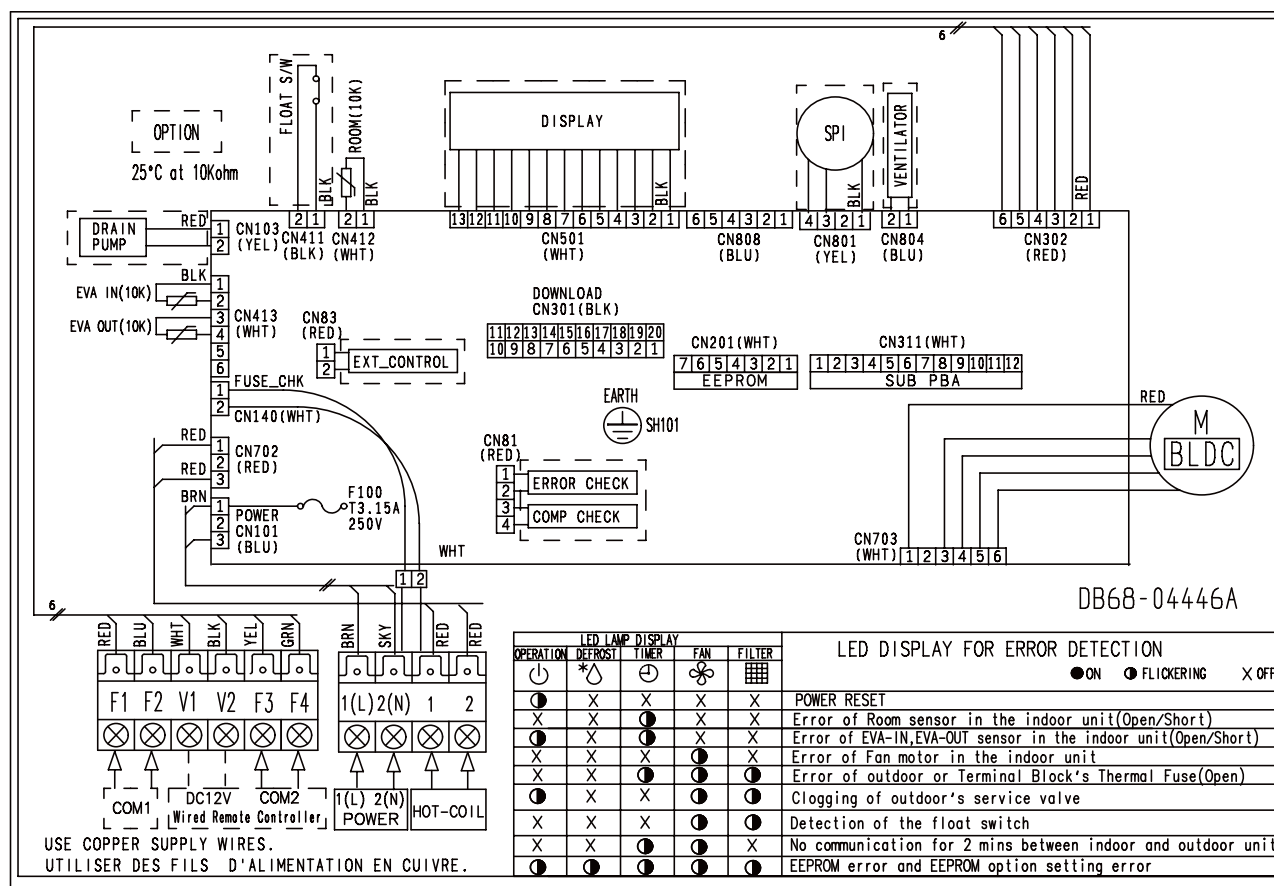
Table of descriptions

1	Refrigerant liquid pipe	7	Air filter
2	Refrigerant gas pipe	8	Hook
3	Drain Pipe Connection (Optional)	9	
4	Drain Pipe Connection (Using dain pump)	10	
5	Power supply connection	11	
6	Air discharge flange	12	

5

HSP Duct

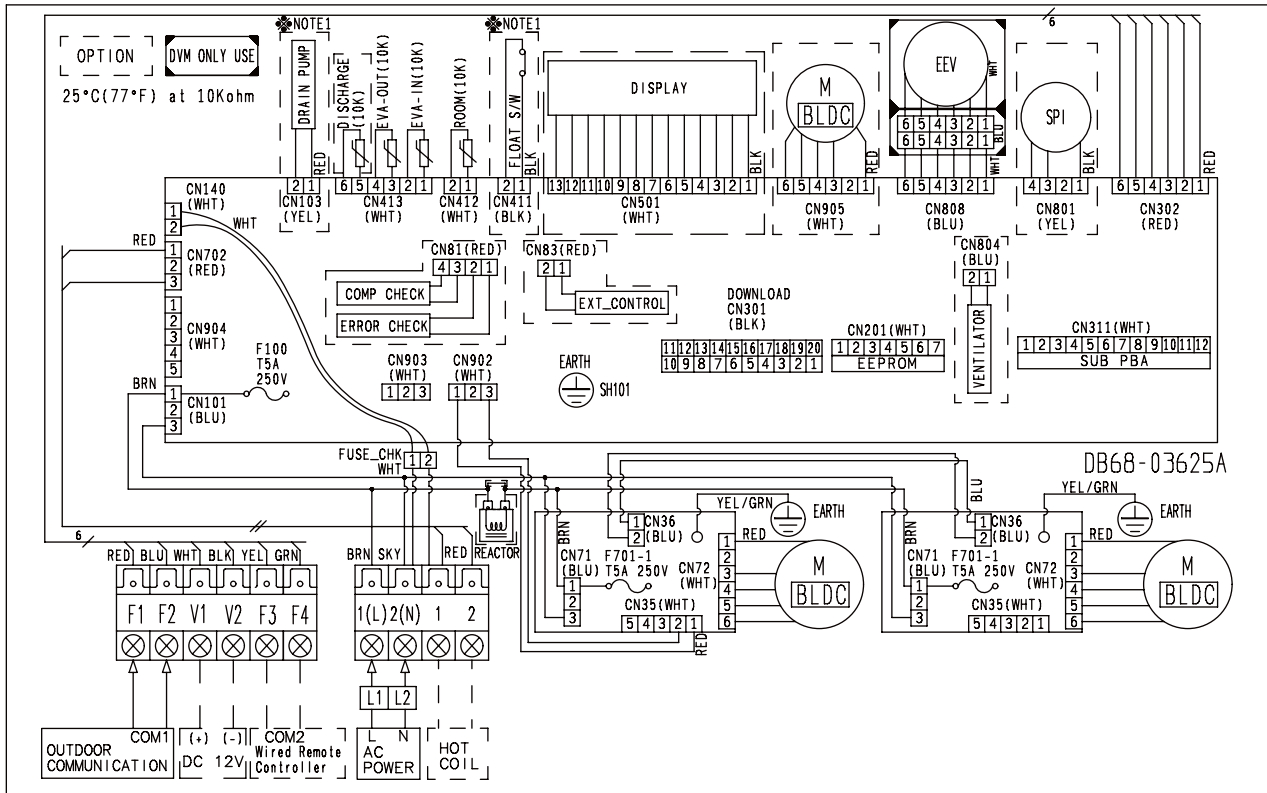
AC018JNHDCH/AA, AC024JNHDCH/AA



5 Electrical wiring diagram

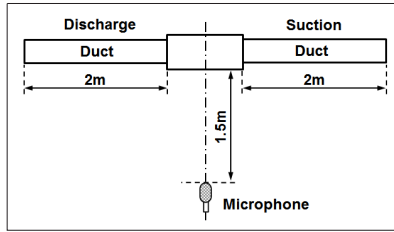
HSP Duct

AC030JNHDCH/AA, AC036JNHDCH/AA, AC042JNHDCH/AA, AC048JNHDCH/AA



6 Sound pressure level

HSP Duct

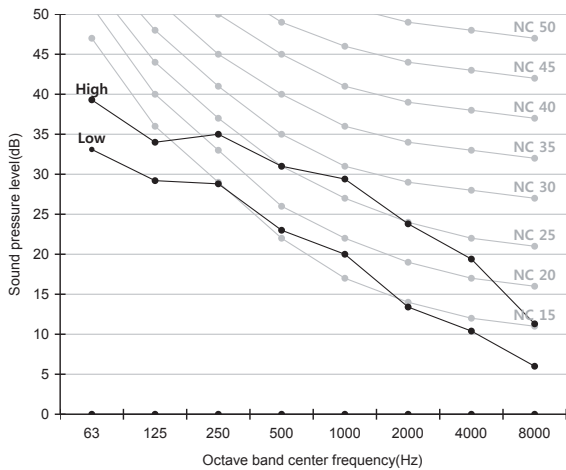


Unit: dB(A)

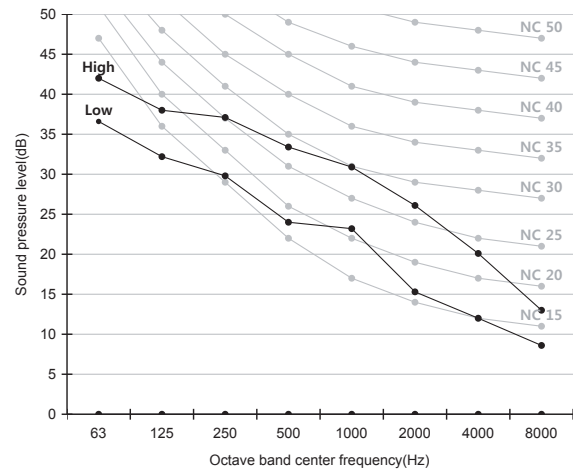
Model	High	Low
AC018JNHDCH/AA (ODU : AC018JXADCH/AA)	34	26
AC024JNHDCH/AA (ODU : AC024JXADCH/AA)	36	28
AC030JNHDCH/AA (ODU : AC030JXADCH/AA)	37	29
AC036JNHDCH/AA (ODU : AC036JXADCH/AA)	38	30

NC curve

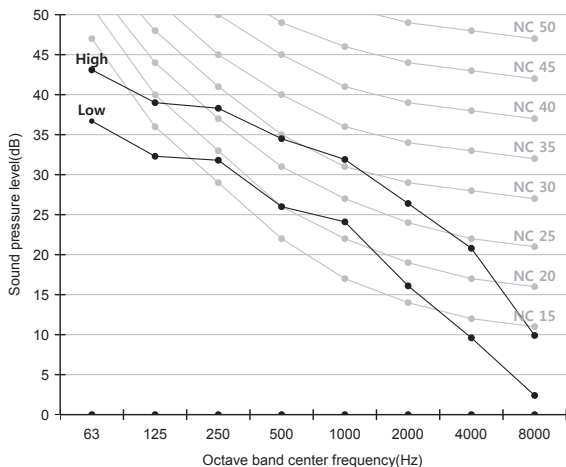
1) AC018JNHDCH/AA (ODU : AC018JXADCH/AA)



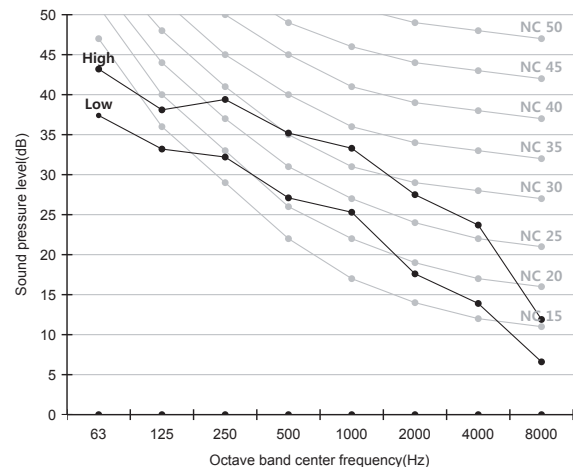
2) AC024JNHDCH/AA (ODU : AC024JXADCH/AA)



3) AC030JNHDCH/AA (ODU : AC030JXADCH/AA)



4) AC036JNHDCH/AA (ODU : AC036JXADCH/AA)

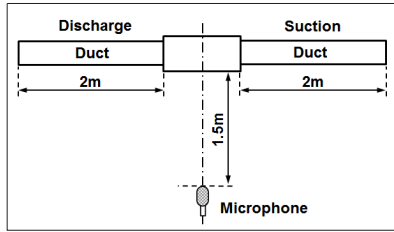


NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure level is 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.
- dBA = A-weighted sound pressure level
- Reference acoustic pressure 0 dB = 20μPa

6 Sound pressure level

HSP Duct

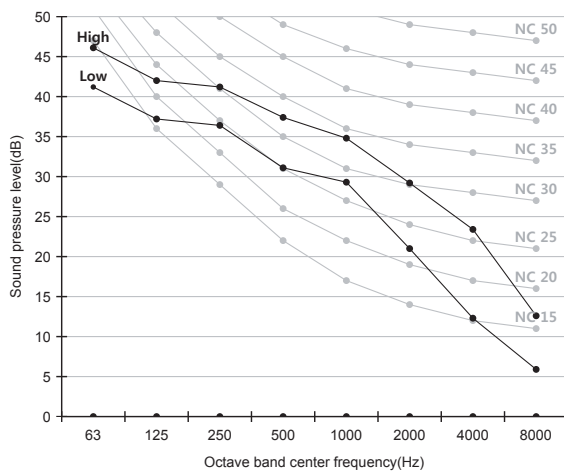


Unit: dB(A)

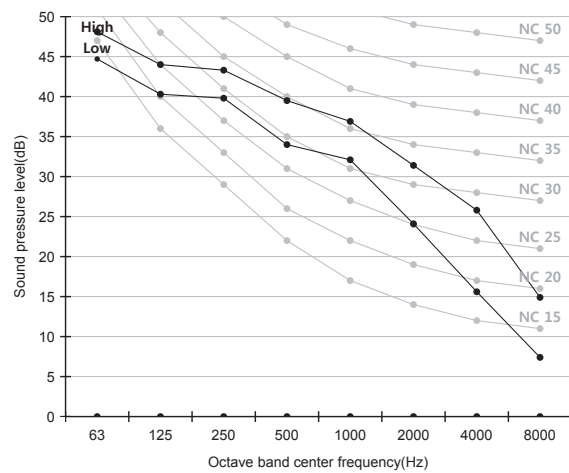
Model	High	Low
AC042JNHDCH/AA (ODU : AC042JXADCH/AA)	40	34
AC048JNHDCH/AA (ODU : AC048JXADCH/AA)	43	37

NC curve

1) AC042JNHDCH/AA (ODU : AC042JXADCH/AA)



2) AC048JNHDCH/AA (ODU : AC048JXADCH/AA)



NOTE

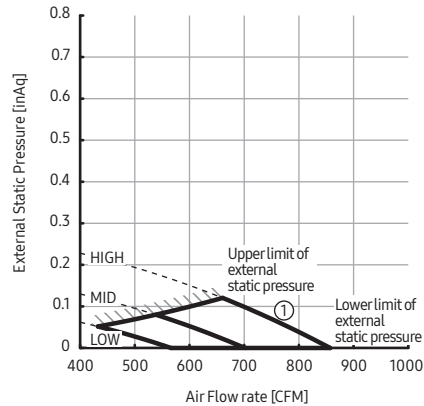
- Specifications may be subject to change without prior notice.
- Sound pressure level is obtained in an anechoic room.
- Sound pressure level is a relative value, depending on the distance and acoustic environment.
- Sound pressure level may differ depending on operation condition.
- dBA = A-weighted sound pressure level
- Reference acoustic pressure 0 dB = 20μPa

7 Recommended operation range

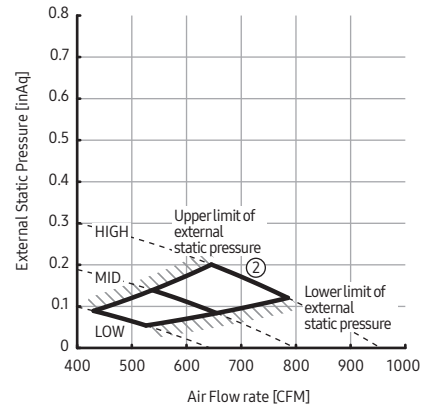
HSP Duct

1) AC018JNHDCH/AA (ODU : AC018JXADCH/AA)

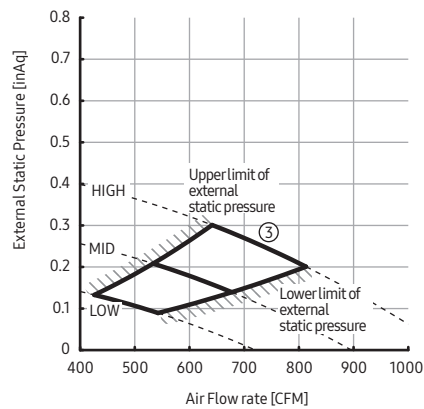
①	External Static Pressure(inAq)	Option Code
	$0 \leq P \leq 0.12$ (Default)	01C0EC-1C8424-27343B-370005



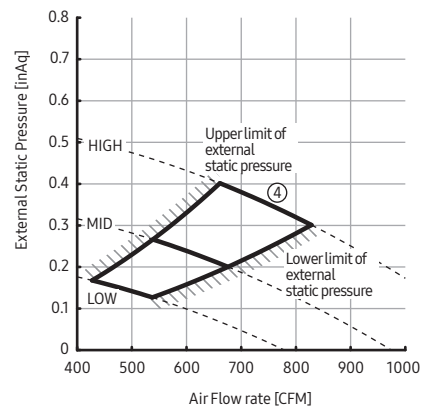
②	External Static Pressure(inAq)	Option Code
	$0.12 < P \leq 0.20$	01C0EC-1C5468-27343B-370005



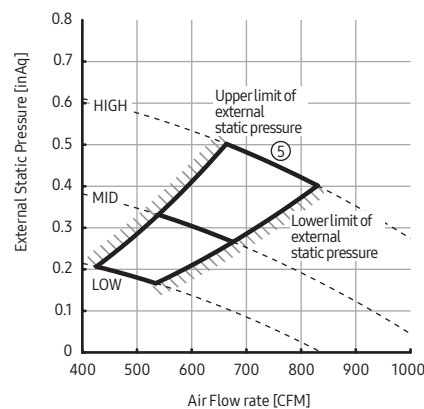
③	External Static Pressure(inAq)	Option Code
	$0.20 < P \leq 0.30$	01C0EC-1C54CE-27343B-370005



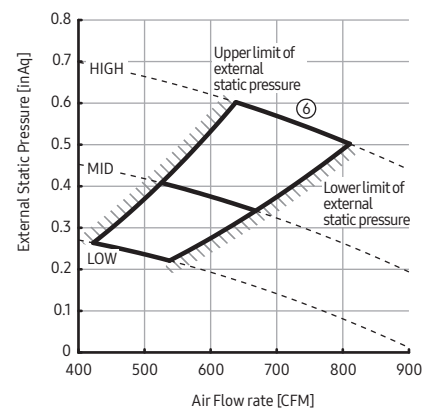
④	External Static Pressure(inAq)	Option Code
	$0.30 < P \leq 0.40$	01C0EC-1C5924-27343B-370005



⑤	External Static Pressure(inAq)	Option Code
	$0.40 < P \leq 0.50$	01C0EC-1C596A-27343B-370005



⑥	External Static Pressure(inAq)	Option Code
	$0.50 < P \leq 0.60$	01C0EC-1C59CE-27343B-370005



Note

Adjust option code according to the actual installation condition (external static pressure).

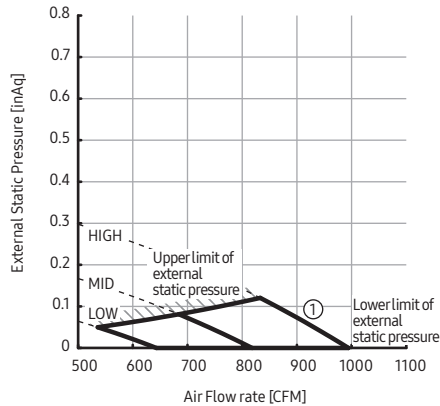
The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Recommended operation range

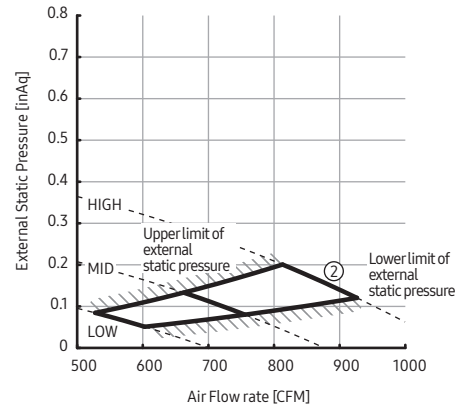
HSP Duct

2) AC024JNHDCH/AA (ODU : AC024JXADCH/AA)

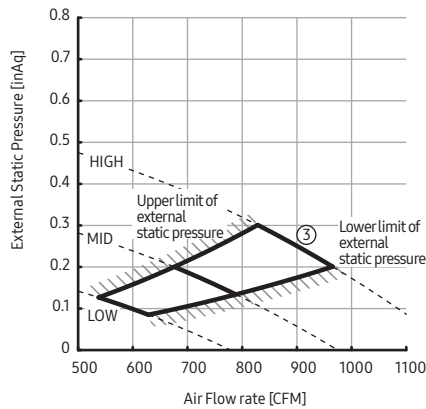
①	External Static Pressure(inAq)	Option Code
	$0 \leq P \leq 0.12$ (Default)	01C0EC-1C747C-274750-370005



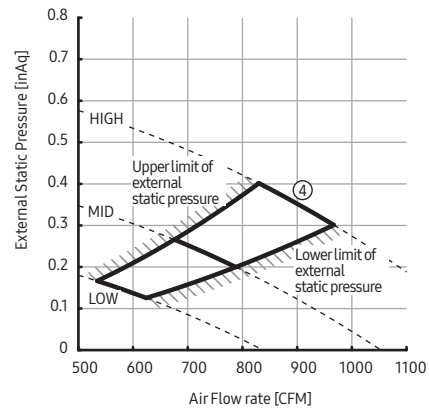
②	External Static Pressure(inAq)	Option Code
	$0.12 < P \leq 0.20$	01C0EC-1C54AF-274750-370005



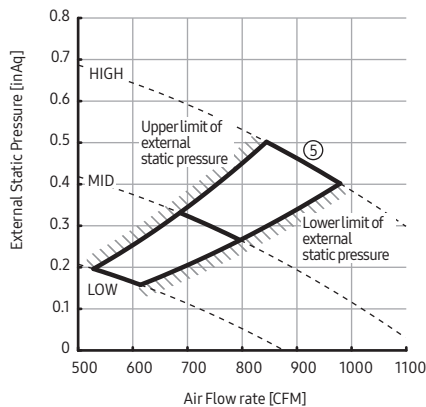
③	External Static Pressure(inAq)	Option Code
	$0.20 < P \leq 0.30$	01C0EC-1C55E6-274750-370005



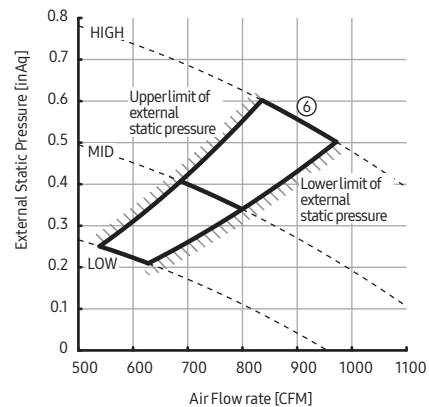
④	External Static Pressure(inAq)	Option Code
	$0.30 < P \leq 0.40$	01C0EC-1C595A-274750-370005



⑤	External Static Pressure(inAq)	Option Code
	$0.40 < P \leq 0.50$	01C0EC-1C5AB0-274750-370005



⑥	External Static Pressure(inAq)	Option Code
	$0.50 < P \leq 0.60$	01C0EC-1C5AE3-274750-370005



Note

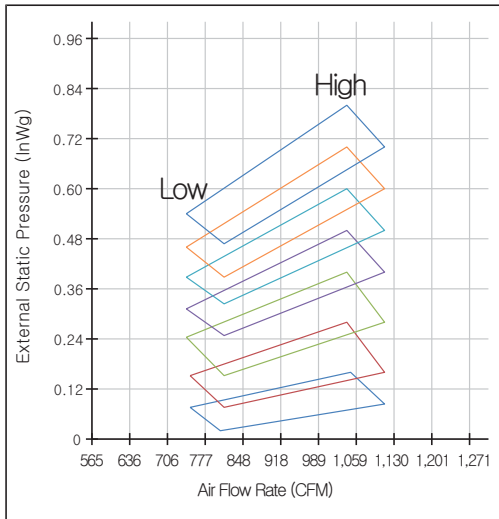
Adjust option code according to the actual installation condition (external static pressure).

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 Recommended operation range

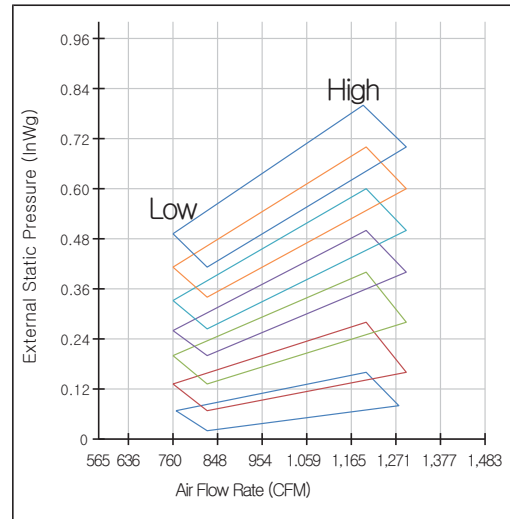
HSP Duct

3) AC030JNHDCH/AA (ODU : AC030JXADCH/AA)



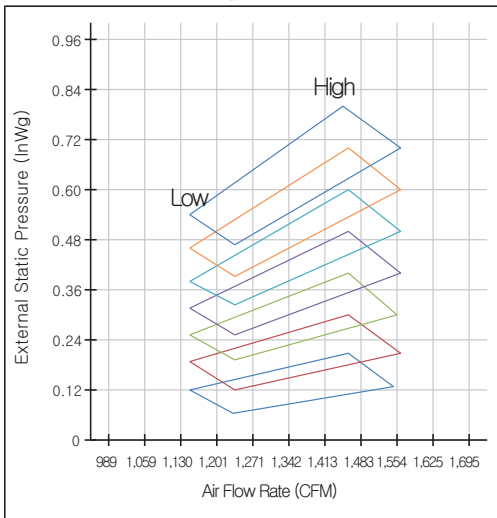
External Static Pressure (inWg)	Option Code
0.12≤P≤0.16(Default)	0100EC-1A55D4-275A64-370005
0.16P≤0.28	0100EC-1A5927-275A64-370005
0.28P≤0.40	0100EC-1A594A-275A64-370005
0.40P≤0.50	0100EC-1A598C-275A64-370005
0.50P≤0.60	0100EC-1A59BE-275A64-370005
0.60P≤0.70	0100EC-1A5AE0-275A64-370005
0.70P≤0.80	0100EC-1A5E02-275A64-370005

4) AC036JNHDCH/AA (ODU : AC036JXADCH/AA)



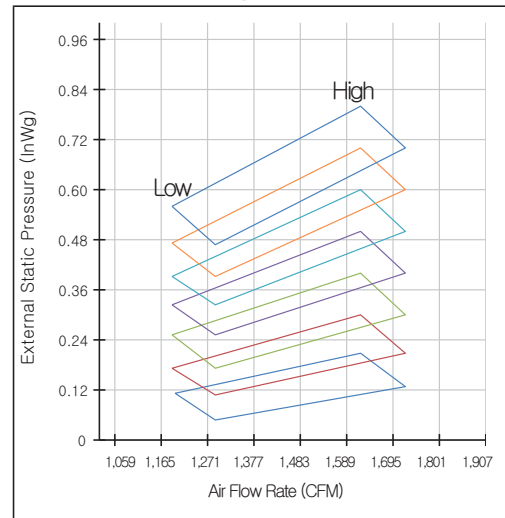
External Static Pressure (inWg)	Option Code
0.12≤P≤0.16(Default)	0100EC-1A5902-276470-370005
0.16P≤0.28	0100EC-1A595A-276470-370005
0.28P≤0.40	0100EC-1A598C-276470-370005
0.40P≤0.50	0100EC-1A59BE-276470-370005
0.50P≤0.60	0100EC-1A5AE0-276470-370005
0.60P≤0.70	0100EC-1A5E12-276470-370005
0.70P≤0.80	0100EC-1A5E34-276470-370005

5) AC042JNHDCH/AA (ODU : AC042JXADCH/AA)



External Static Pressure (inWg)	Option Code
0.16≤P≤0.20(Default)	0100EC-1A194D-277D8C-370005
0.20P≤0.30	0100EC-1A597E-277D8C-370005
0.30P≤0.40	0100EC-1A5AA1-277D8C-370005
0.40P≤0.50	0100EC-1A5AD3-277D8C-370005
0.50P≤0.60	0100EC-1A5E06-277D8C-370005
0.60P≤0.70	0100EC-1A5E38-277D8C-370005
0.70P≤0.80	0100EC-1A5E5A-277D8C-370005

6) AC048JNHDCH/AA (ODU : AC048JXADCH/AA)



External Static Pressure (inWg)	Option Code
0.16≤P≤0.20(Default)	0100EC-1A1A81-278CA0-370005
0.20P≤0.30	0100EC-1A5AA2-278CA0-370005
0.30P≤0.40	0100EC-1A5AD4-278CA0-370005
0.40P≤0.50	0100EC-1A5E06-278CA0-370005
0.50P≤0.60	0100EC-1A5E38-278CA0-370005
0.60P≤0.70	0100EC-1A5E6A-278CA0-370005
0.70P≤0.80	0100EC-1A5E7D-278CA0-370005

Note

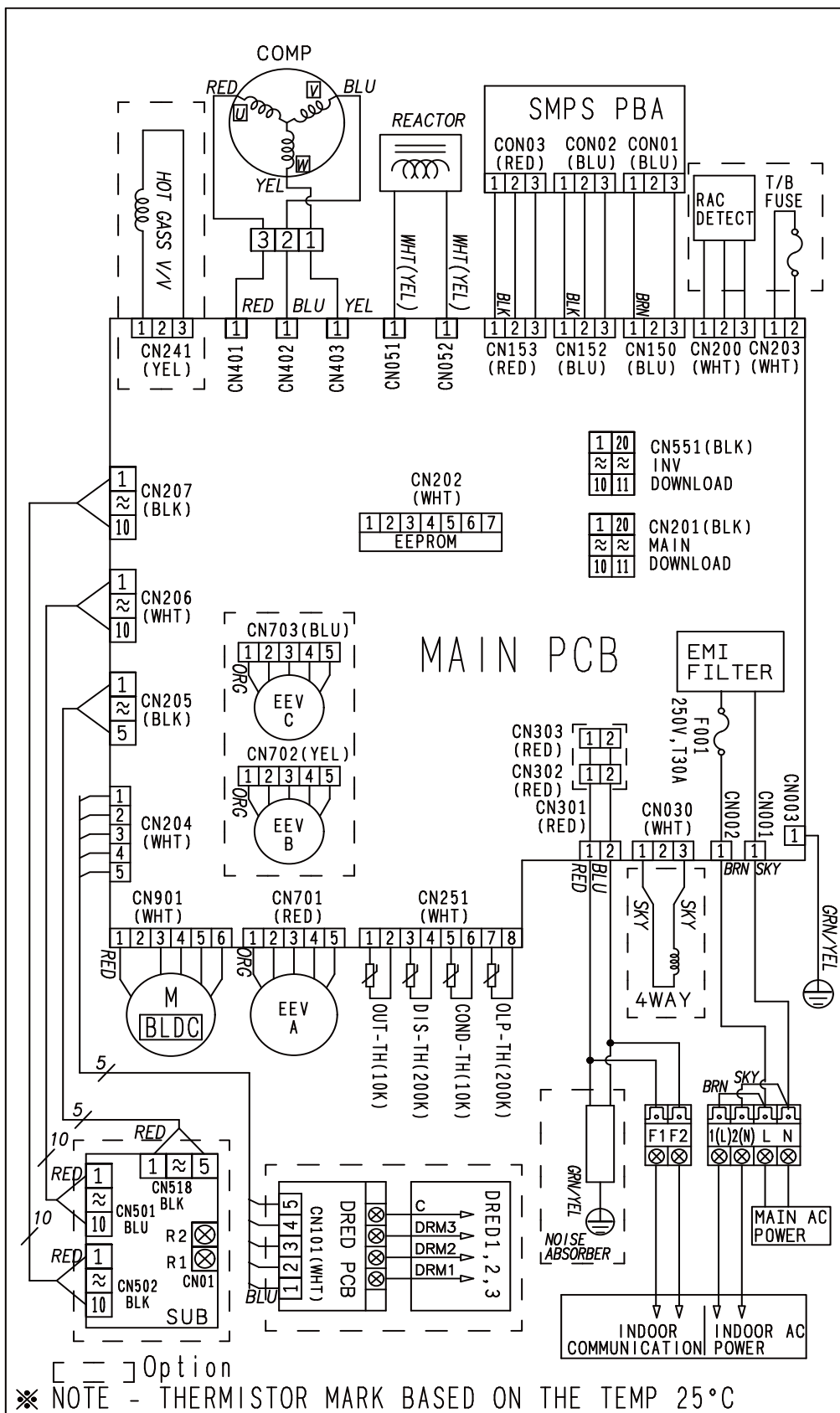
Adjust option code according to the actual installation condition (external static pressure).

The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

8) Electrical wiring diagram

Outdoor

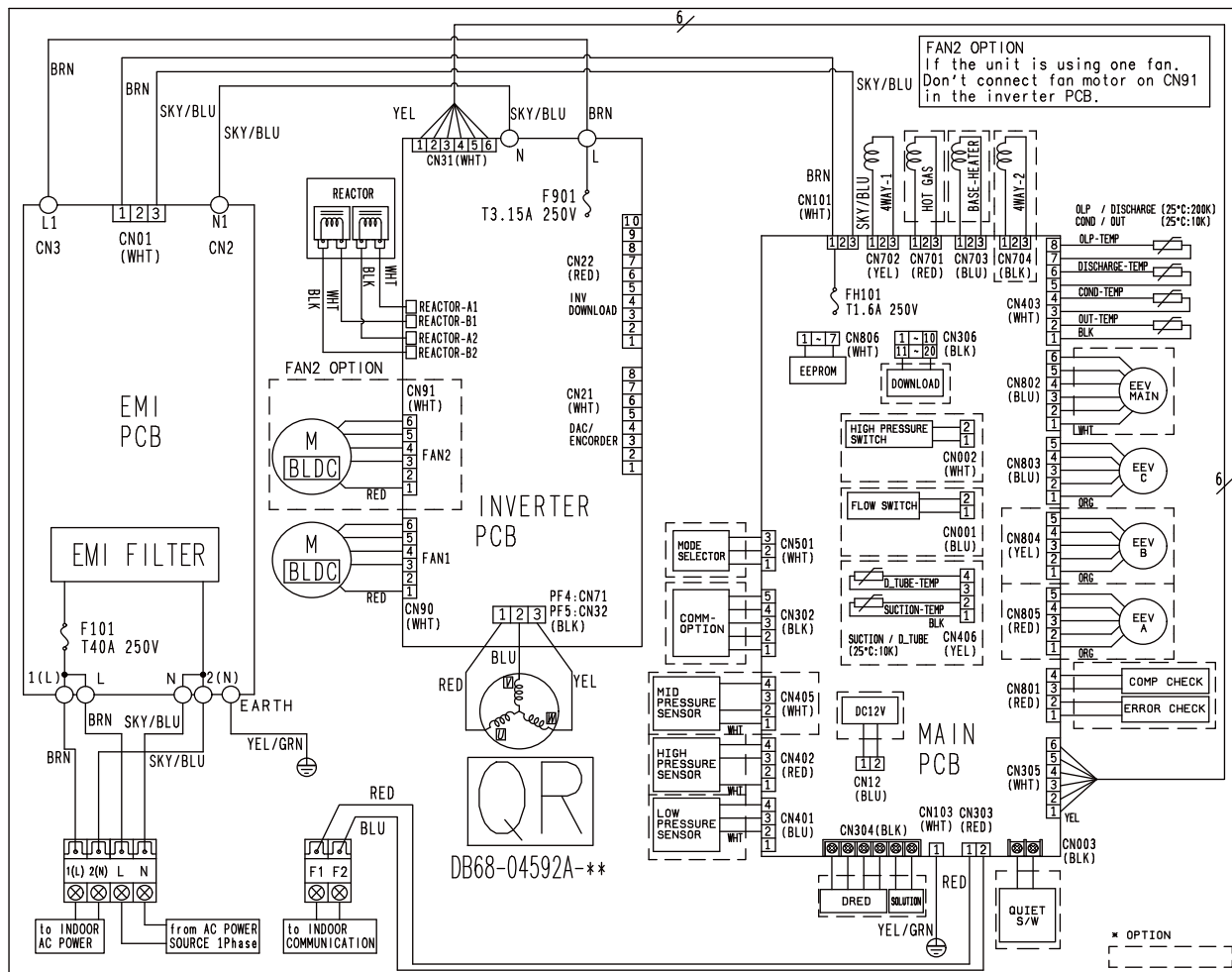
AC018JXADCH/AA



8 Electrical wiring diagram

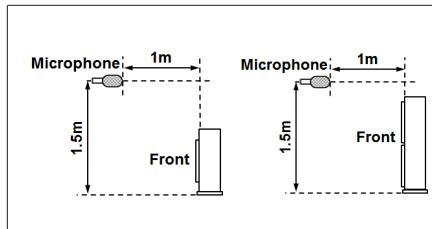
Outdoor

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



9 Sound pressure level

Outdoor

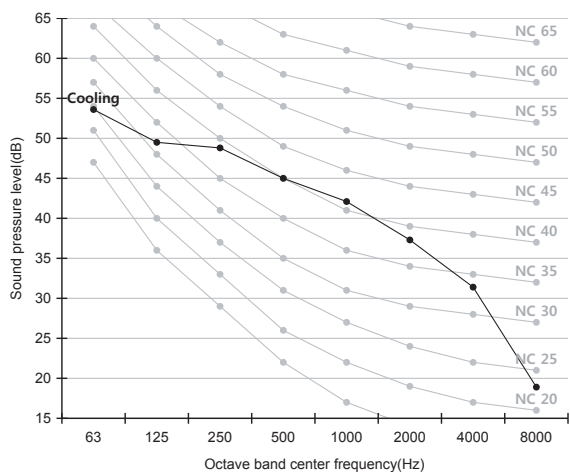


Unit: dB(A)

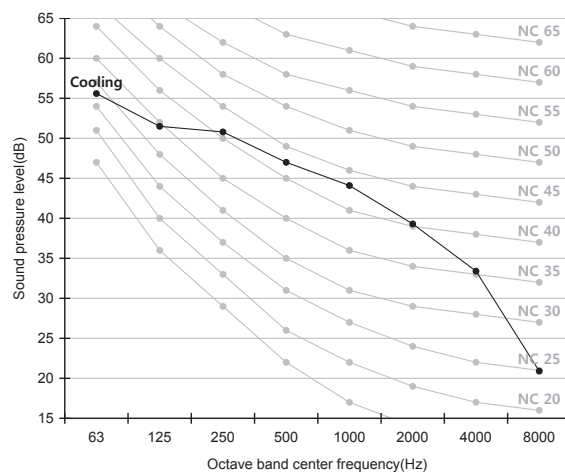
Model	Cooling
AC018JXADCH/AA (IDU : AC018JNHDCH/AA)	48
AC024JXADCH/AA (IDU : AC024JNHDCH/AA)	50
AC030JXADCH/AA (IDU : AC030JNHDCH/AA)	50
AC036JXADCH/AA (IDU : AC036JNHDCH/AA)	49

NC curve

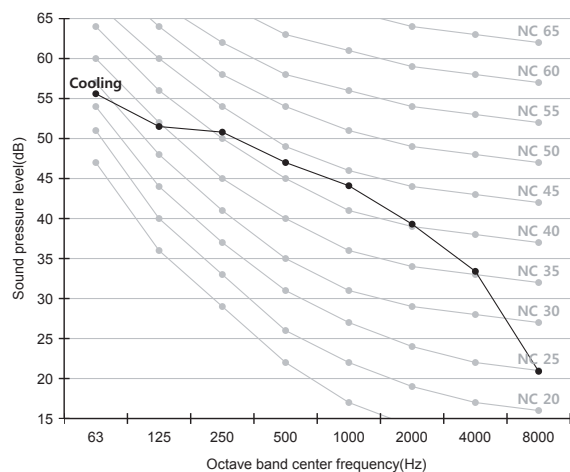
1) AC018JXADCH/AA (IDU : AC018JNHDCH/AA)



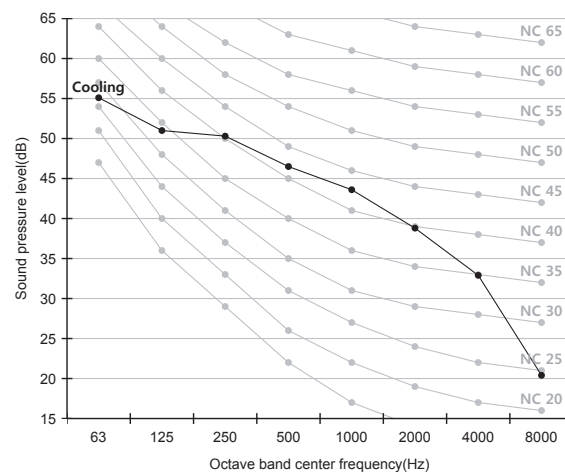
2) AC024JXADCH/AA (IDU : AC024JNHDCH/AA)



3) AC030JXADCH/AA (IDU : AC030JNHDCH/AA)



4) AC036JXADCH/AA (IDU : AC036JNHDCH/AA)

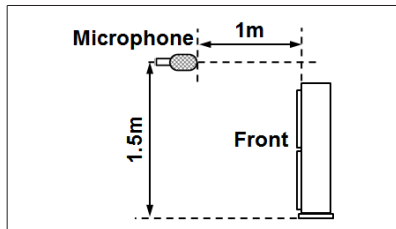


NOTE

- Specifications may be subject to change without prior notice.
 - Sound pressure level is 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.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20μPa

9 Sound pressure level

Outdoor

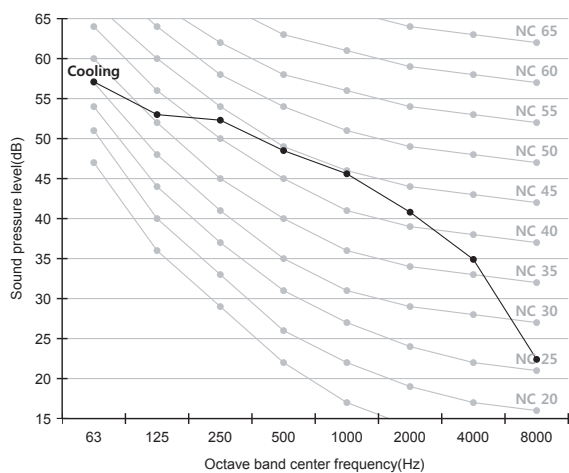


Unit: dB(A)

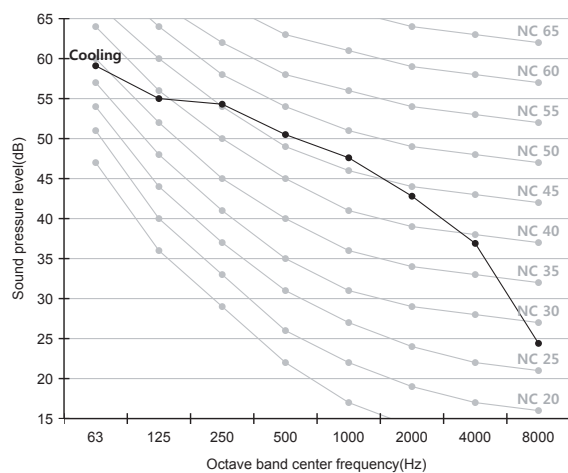
Model	Cooling
AC042JXADCH/AA (IDU : AC042JNHDCH/AA)	51
AC048JXADCH/AA (IDU : AC048JNHDCH/AA)	53

NC curve

1) AC042JXADCH/AA (IDU : AC042JNHDCH/AA)



2) AC048JXADCH/AA (IDU : AC048JNHDCH/AA)



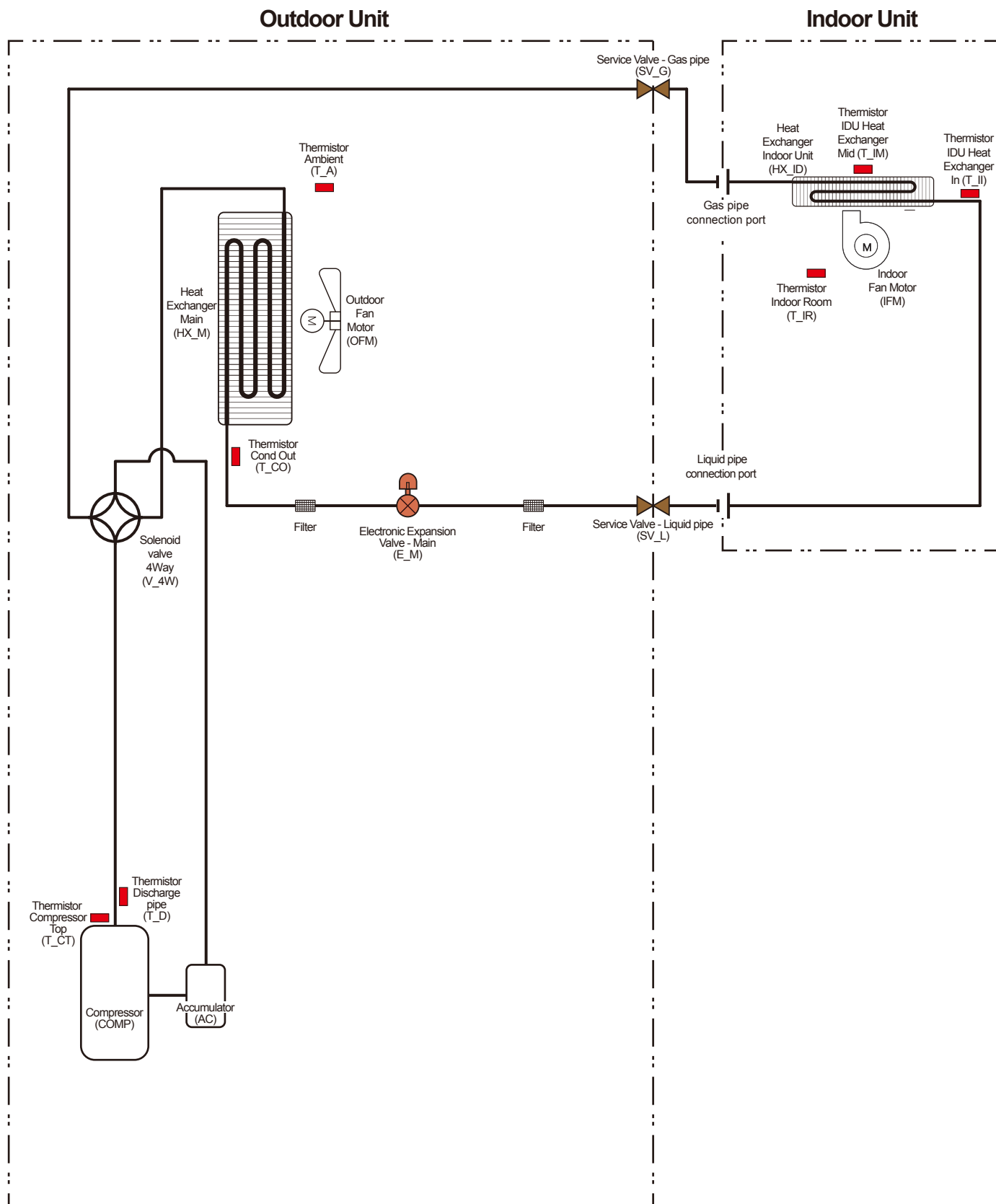
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure level is 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.
- dBA = A-weighted sound pressure level
- Reference acoustic pressure 0 dB = 20μPa

10 Cycle diagram

Outdoor

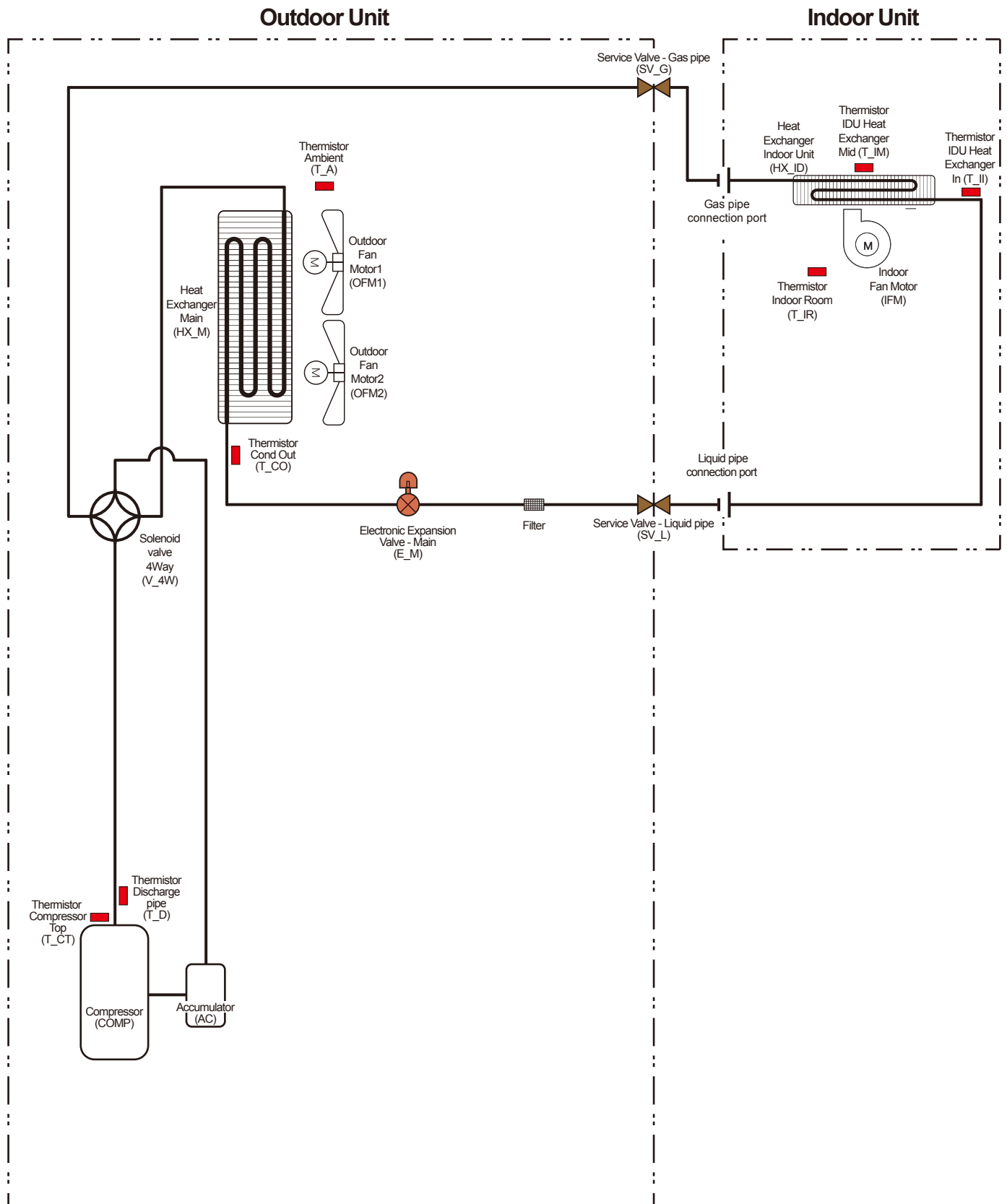
AC018JXADCH/AA, AC024JXADCH/AA, AC030JXADCH/AA



10 Cycle diagram

Outdoor

AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA



11 Dimensional drawing

Outdoor

AC018JXADCH/AA

Units : mm / inches

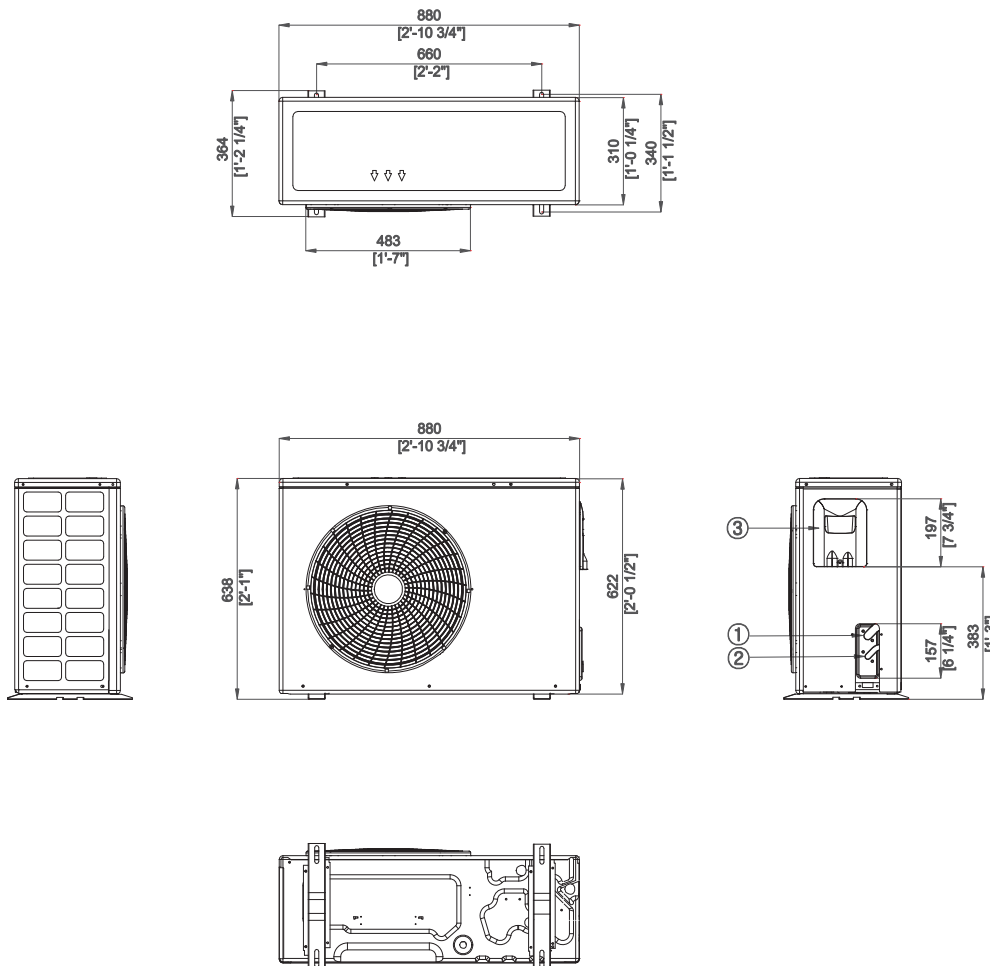


Table of descriptions

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

11 Dimensional drawing

Outdoor

AC024JXADCH/AA, AC030JXADCH/AA

Units : mm / inches

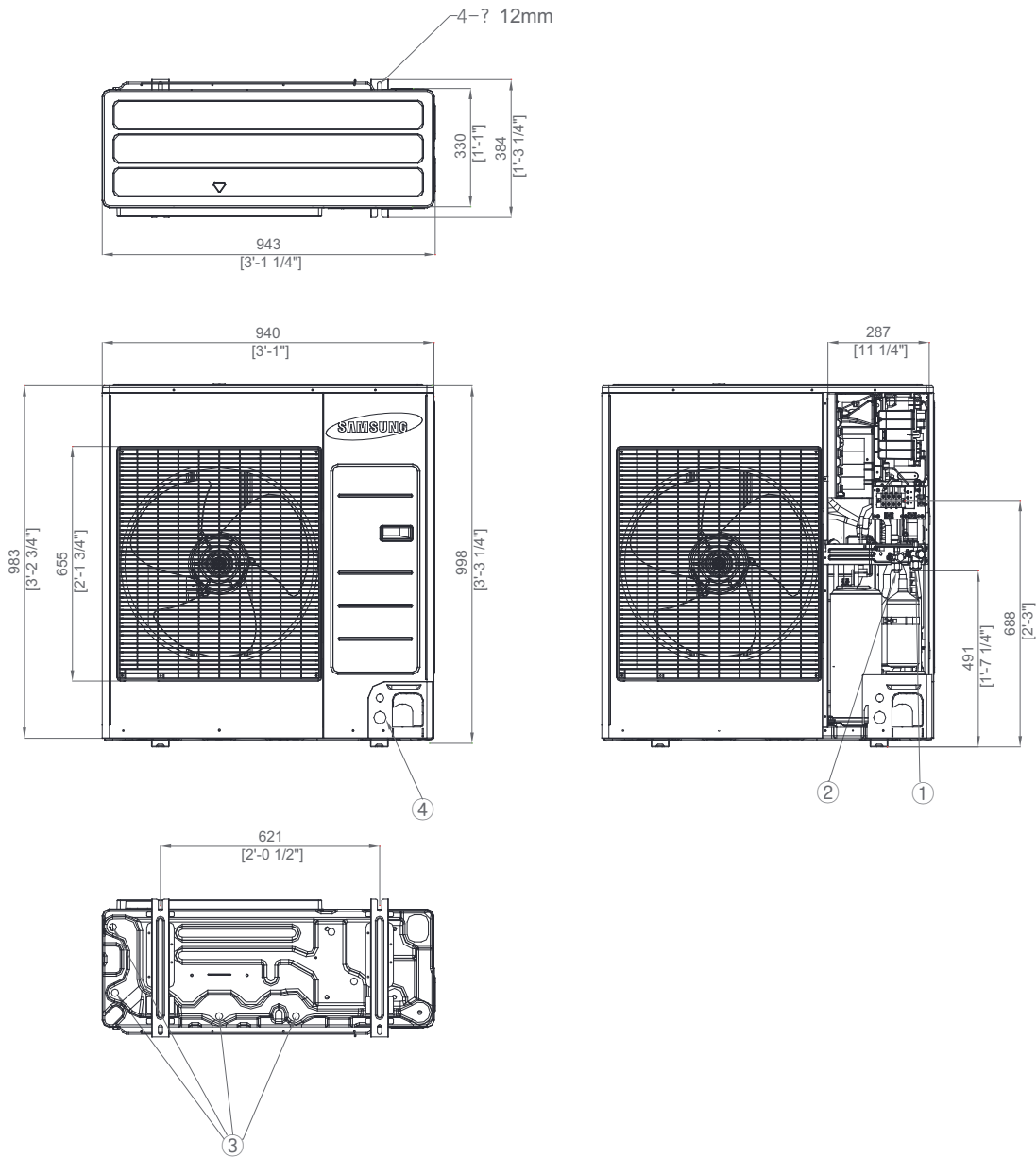


Table of descriptions

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

11 Dimensional drawing

Outdoor

AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA

Units : mm / inches

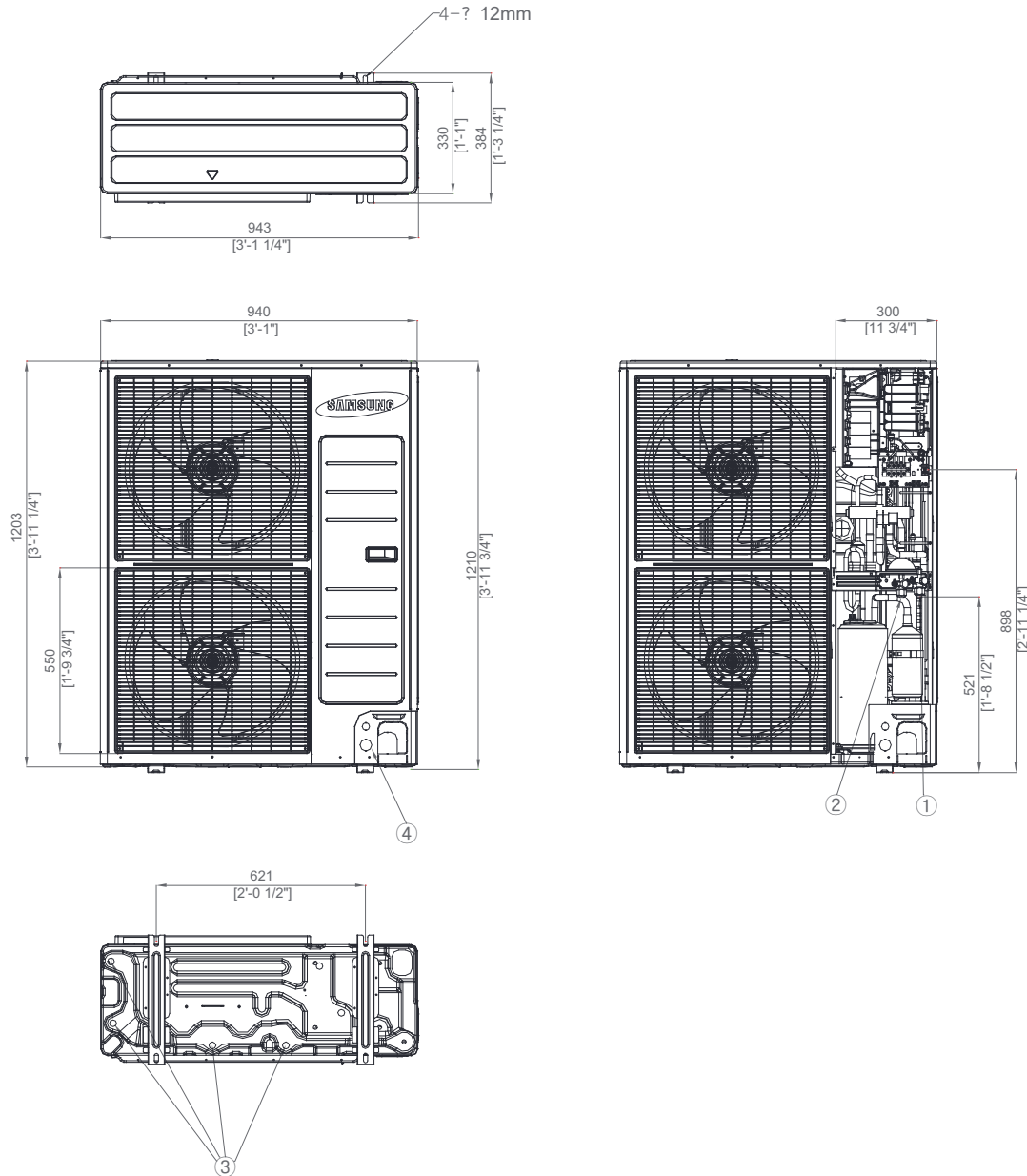


Table of descriptions

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

12 Capacity correction

Outdoor

AC018JNHDCH/AA + AC018JXADCH/AA

Cooling



		Pipe Length (ft)					
		16.4	32.8	49.2	65.6	82.0	98.4
Level Difference (ft)	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)					
		16.4	32.8	49.2	65.6	82.0	98.4
Level Difference (ft)	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

AC024JNHDCH/AA + AC024JXADCH/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	-	-	-	-	-	0.94	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	180.4	196.9	213.3	229.7	246.1
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	-	-	-	-	-

12 Capacity correction

Outdoor

AC030JNHDCH/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	180.4	196.9	213.3	229.7	246.1
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	180.4	196.9	213.3	229.7	246.1
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	-	-	-	-	-

AC036JNHDCH/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

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

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