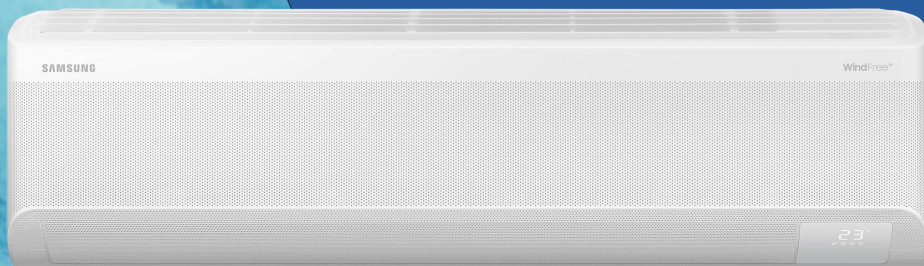


SAMSUNG

SINGLE **Technical** **Data Book**

Wall Mounted (R32, Heat Pump)



Model : CNG***DD (AC***DN*DCG/AA), CXG**SCD (AC***DXSCCG/AA)

History

Version	Modification	Date	Remark
Ver.1.0	Released Single Premium Wall Mounted TDB	24. 11. 19	
Ver.1.1	Modified some data.	24. 12. 06	
Ver.1.2	Updated Specification page.	25. 07. 01	

Nomenclature

US Code

Model Name

C

N

G

36

T

D

D

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(1) Classification

C	CAC
---	-----

(2) Product Type

N	Indoor Unit
X	Outdoor Unit

(3) Mode

F	Cooling Only (R32)
G	Heat Pump (R32)

(4) Capacity

X1,000 Btu/h (2 digits)

(5-2) Feature1 (Outdoor Unit)

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

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium
C	Deluxe + Low Temp.

(7) Version

D	2024
---	------

(5-1) Product Notation (Indoor Unit)

1	1 Way Cassette / Wind-Free 1Way Cassette
N	4 Way Cassette (600x600) Wind-Free 4 Way Cassette (600x600)
4	4 Way Cassette, 360 Cassette Wind-Free 4 Way Cassette
L	LSP Duct
H	HSP Duct
C	Ceiling
J	Console
A	AR9500 (Wall Mounted)
T	MAX4 (Wall Mounted)
Z	Multi-position AHU

Nomenclature

Indoor Unit

Model Name

AC

036

D

N

T

D

C

G

/

AA

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

Buyer

(1) Classification

AC	CAC
----	-----

(2) Capacity

X1,000 Btu/h (3 digits)

(3) Version

D	2024
---	------

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1 Way Cassette
N	4 Way Cassette (600x600) Wind-Free 4 Way Cassette (600x600)
4	4 Way Cassette, 360 Cassette Wind-Free 4 Way Cassette
L	LSP Duct
H	HSP Duct
C	Ceiling
J	Console
A	AR9500 (Wall Mounted)
T	MAX4 (Wall Mounted)
Z	Multi-position AHU

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Rating Voltage

C	1Φ, 208-230V,60Hz
---	-------------------

(8) Mode

F	Cooling Only (R32)
G	Heat Pump (R32)

Nomenclature

Outdoor Unit

Model Name

AC

036

D

X

S

C

C

G

/

AA

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

Buyer

(1) Classification

AC	CAC
----	-----

(2) Capacity

x 1000 Btu/h (3 digits)

(3) Version

D	2024
---	------

(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
S	Standard
D	Deluxe
P	Premium
C	Deluxe + Low Temp.

(7) Rating Voltage

C	1Φ, 208~230V, 60Hz
H	3Φ, 400V, 60Hz

(8) Mode

F	Cooling Only (R32)
G	Heat Pump (R32)

Wall Mounted

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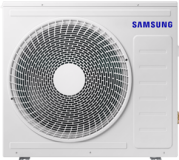
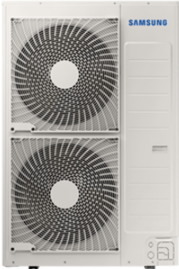
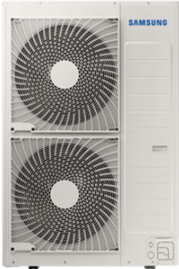
1. Line-up

Wall Mounted

Indoor unit

Model	Capacity (kBtu/h)			
	18	24	30	36
Wall Mounted				
	CNG18ADD (AC018DNADCG/AA)	CNG24ADD (AC024DNADCG/AA)	CNG30TDD (AC030DNTDCG/AA)	CNG36TDD (AC036DNTDCG/AA)

Outdoor Unit

Model	Capacity (kBtu/h)			
	18	24	30	36
Wall Mounted				
	CXG18SCD (AC018DXSCCG/AA)	CXG24SCD (AC024DXSCCG/AA)	CXG30SCD (AC030DXSCCG/AA)	CXG36SCD (AC036DXSCCG/AA)

2. Specification

Wall Mounted

Model Name		Indoor Unit			AC018DNADCG/AA		AC024DNADCG/AA		
		Outdoor Unit			AC018DXSCCG/AA		AC024DXSCCG/AA		
US Code		Indoor Unit			CNG18ADD		CNG24ADD		
		Outdoor Unit			CXG18SCD		CXG24SCD		
System	Mode			-	Heat Pump		Heat Pump		
	Performance	Capacity	Cooling (Min/Std/Max)	kW	1.7 / 5.2 / 6.5		2.4 / 7.0 / 8.4		
				Btu/h	6,100 / 18,000 / 22,500		8,200 / 24,000 / 29,000		
				US RT	0.51 / 1.50 / 1.88		0.68 / 2.00 / 2.42		
			Heating (Min/Std/Max)	kW	0.9 / 5.8 / 8.4		2.3 / 7.9 / 12.6		
				Btu/h	3,400 / 20,000 / 29,000		8,000 / 27,000 / 43,000		
				US RT	0.28 / 1.67 / 2.42		0.67 / 2.25 / 3.58		
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.38 / 1.47 / 2.19		0.49 / 2.00 / 2.90		
			Heating (Min/Std/Max)		0.30 / 1.72 / 4.55		0.38 / 2.47 / 5.30		
		Current Input	Cooling (Min/Std/Max)	A	2.0 / 6.5 / 9.7		2.6 / 8.9 / 12.8		
			Heating (Min/Std/Max)		1.5 / 7.7 / 16.0		1.9 / 11.0 / 23.3		
		Current	MCA	A	22.7		26.7		
			MOP	A	25		30		
	Efficiency	EER2	Cooling	-	3.58		3.52		
			Cooling (US)	(Btu/h)/W	12.2		12		
		COP	Heating	W/W	3.4		3.2		
			SEER2 (Cooling Energy Grade)		-	20.5		20	
		HSPF2 (Heating Energy Grade)		-	9.5		9.5		
		Pipe Connections	Liquid Pipe		Type	Flare		Flare	
	Φ, mm(inch)				6.35 (1/4)		6.35 (1/4)		
	Gas Pipe		Type	Flare		Flare			
			Φ, mm(inch)	12.7 (1/2)		15.88 (5/8)			
	Heat Insulation			-	Both liquid and gas pipes		Both liquid and gas pipes		
	Pipe Length (ODU-IDU)		Standard	m (ft)	7.5 (24.6)		7.5 (24.6)		
			Max.	m (ft)	50 (164.0)		50 (164.0)		
			Elevation	m (ft)	30 (98.4)		30 (98.4)		
			Chargeless	m (ft)	7.5 (24.6)		7.5 (24.6)		
	Wiring Connections	Communication	Min.	mm ²	0.75		0.75		
				AWG	18		18		
		Remark	-	F1,F2		F1,F2			
	Refrigerant	Type		-	R32		R32		
		Factory Charging		kg	1.7		2.3		
				lbs	3.75		5.1		
Indoor Unit	Power Supply			Φ,#,V,Hz	1, 2, 208-230, 60		1, 2, 208-230, 60		
	Heat Exchanger	Type		-	Fin & Tube		Fin & Tube		
		Material	Fin	-	Al		Al		
			Tube	-	Cu		Cu		
		Fin Treatment		-	Green Hydrophile		Green Hydrophile		
	Fan	Type		-	Cross Flow		Cross Flow		
		Quantity		EA	1		1		
		Air Flow Rate	Cooling (H/M/L)	m ³ /min	17.4 / 15.3 / 12.5		17.8 / 15.2 / 13.2		
				ft ³ /min	615 / 540 / 441		629 / 537 / 466		
			Heating (H/M/L)	m ³ /min	17.4 / 15.3 / 12.5		17.8 / 15.2 / 13.2		
			ft ³ /min	615 / 540 / 441		629 / 537 / 466			
	Fan Motor	Type		-	BLDC		BLDC		
		Output		W x n	27 x 1		27 x 1		
	Drain	Drain Pipe		Φ, mm	ID18		ID18		
	Sound Level	Sound Pressure Level	H/M/L/Silence		dB(A)	42 / 37 / 32 / 29		44 / 39 / 35 / 30	
		Sound Power Level			dB(A)	60		61	
	External Dimension	Net Weight			kg(lbs)	11.5 (25.4)		12.5 (27.6)	
		Shipping Weight			kg(lbs)	13.5 (29.8)		14.0 (30.9)	
		Net Dimensions (WxHxD)			mm	1,055 x 299 x 215		1,055 x 299 x 215	
					inch	41.54 x 11.77 x 8.46		41.54 x 11.77 x 8.46	
		Shipping Dimensions (WxHxD)			mm	1,115 x 290 x 375		1,115 x 290 x 375	
					inch	43.90 x 11.42 x 14.76		43.90 x 11.42 x 14.76	
		Casing	Material		-	Plastic		Plastic	

2. Specification

Wall Mounted

Model Name		Indoor Unit		AC018DNADCG/AA	AC024DNADCG/AA	
		Outdoor Unit		AC018DXSCCG/AA	AC024DXSCCG/AA	
US Code		Indoor Unit		CNG18ADD	CNG24ADD	
		Outdoor Unit		CXG18SCD	CXG24SCD	
Indoor Unit	Control	Infrared remote control		DB96-25924H	DB96-25924H	
	System	Wired remote control		MWR-WG01UN	MWR-WG01UN	
	Drain Pump	Drain Pump		-	-	
		Max.lifting Height / Displacement		in / gal/h	-	
	Additional Accessories	Air Filter		-	Removable / Washable	
Outdoor Unit	Power Supply		Φ,#,V,Hz	1,2,208-230,60	1,2,208-230,60	
	Heat Exchanger	Type	-	Fin & Tube	Fin & Tube	
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model		-	UB8TA8265FEWSG	UB8TN8300FJUSG
		Type		-	Twin Rotary	Twin Rotary
		Output		kW	2.55	2.91
		Oil	Type	-	POE	POE
			Initial Charge	cc (fl oz)	700	1,200
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Side	Side
		Quantity		EA	1	1
		Air Flow Rate		m³/min	61	76
				ft³/min	2,154	2,684
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound Level	Sound Pressure Level	Cooling	dB(A)	51	50
			Heating	dB(A)	51	52
		Sound Power Level		dB(A)	65	65
	External Dimension	Net Weight		kg(lbs)	53.0 (116.8)	70.5 (155.4)
		Shipping Weight		kg(lbs)	57.0 (125.7)	75.5 (166.4)
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	940 x 998 x 330
				inch	34.65 x 31.42 x 12.20	37.01 x 39.29 x 12.99
		Shipping Dimensions (WxHxD)		mm	1,023 x 881 x 413	995 x 1,096 x 426
				inch	40.28 x 34.69 x 16.26	39.17 x 43.15 x 16.77
	Casing	Material	Body	-	Steel	Steel
	Operating Temp. Range	Cooling		°C (°F)	-20~50 (-4~122)	-20~50 (-4~122)
		Heating		°C (°F)	-25~24 (-13~75)	-25~24 (-13~75)

• Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.

- Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB
- Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB
- Equivalent refrigerant piping length 5m(16.4ft), Level differences : 0m(0ft)

2) Select wire size based on the value of MCA

3) 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 = 20uPa

4) Sound power level is an absolute value that a sound source generates.

- dBA = A-weighted sound power level / Reference power: 1pW / Measured according to ISO 3741

5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.

2. Specification

Wall Mounted

Model Name		Indoor Unit			AC030DNTDCG/AA		AC036DNTDCG/AA		
		Outdooru Unit			AC030DXSCCG/AA		AC036DXSCCG/AA		
US Code		Indoor Unit			CNG30TDD		CNG36TDD		
		Outdooru Unit			CXG30SCD		CXG36SCD		
System	Mode			-	Heat Pump		Heat Pump		
	Performance	Capacity	Cooling (Min/Std/Max)	kW	3.2 / 8.7 / 10.2		3.5 / 9.6 / 13.1		
				Btu/h	11,000 / 30,000 / 35,000		12,000 / 33,000 / 45,000		
				US RT	0.92 / 2.50 / 2.92		1.00 / 2.75 / 3.75		
			Heating (Min/Std/Max)	kW	2.1 / 9.3 / 14.6		2.9 / 11.7 / 15.8		
				Btu/h	7,500 / 32,000 / 50,000		10,000 / 40,000 / 54,000		
				US RT	0.63 / 2.67 / 4.17		0.83 / 3.33 / 4.50		
	Power	Power Input	Cooling (Min/Std/Max)	kW	0.72 / 2.40 / 3.45		0.74 / 2.75 / 3.85		
			Heating (Min/Std/Max)		0.41 / 3.12 / 6.15		0.56 / 4.50 / 6.80		
		Current Input	Cooling (Min/Std/Max)	A	3.7 / 10.7 / 15.2		3.8 / 12.3 / 17.0		
			Heating (Min/Std/Max)		2.1 / 13.9 / 27.1		3.0 / 20.1 / 29.9		
		Current	MCA	A	35		35.8		
			MOP	A	40		40		
	Efficiency	EER2	Cooling	-	3.66		3.52		
			Cooling (US)	(Btu/h)/W	12.5		12		
		COP	Heating	W/W	3		2.6		
		SEER2 (Cooling Energy Grade)		-	21		20		
		HSPF2 (Heating Energy Grade)		-	9.5		9		
		Pipe Connections	Liquid Pipe		Type	Flare		Flare	
	Φ, mm(inch)				9.52 (3/8)		9.52 (3/8)		
	Gas Pipe		Type	Flare		Flare			
			Φ, mm(inch)	15.88 (5/8)		15.88 (5/8)			
	Heat Insulation		-	Both liquid and gas pipes		Both liquid and gas pipes			
	Pipe Length (ODU-IDU)		Standard	m (ft)	7.5 (24.6)		7.5 (24.6)		
			Max.	m (ft)	75 (246.0)		75 (246.0)		
			Elevation	m (ft)	30 (98.4)		30 (98.4)		
			Chargeless	m (ft)	7.5 (24.6)		7.5 (24.6)		
	Wiring Connections	Communication	Min.	mm ²	0.75		0.75		
				AWG	18		18		
		Remark	-	F1,F2		F1,F2			
	Refrigerant	Type		-	R32		R32		
		Factory Charging		kg	3.5		3.5		
				lbs	7.72		7.72		
Indoor Unit	Power Supply			Φ,#,V,Hz	1, 2, 208-230, 60		1, 2, 208-230, 60		
	Heat Exchanger	Type		-	Fin & Tube		Fin & Tube		
		Material	Fin	-	Al		Al		
			Tube	-	Cu		Cu		
		Fin Treatment		-	Green Hydrophile		Green Hydrophile		
	Fan	Type		-	Cross Flow		Cross Flow		
		Quantity		EA	2		2		
		Air Flow Rate	Cooling (H/M/L)	m ³ /min	22.0 / 20.5 / 19.0		23.5 / 21.3 / 19.8		
				ft ³ /min	777 / 724 / 671		830 / 752 / 699		
			Heating (H/M/L)	m ³ /min	22.0 / 20.5 / 19.0		23.5 / 21.3 / 19.8		
	ft ³ /min	777 / 724 / 671		830 / 752 / 699					
	Fan Motor	Type		-	BLDC		BLDC		
		Output		W x n	58 x 1		58 x 1		
	Drain	Drain Pipe		Φ, mm	ID18		ID18		
	Sound Level	Sound Pressure Level	H/M/L/Silence		dB(A)	49 / 47 / 45 / 37		51 / 48 / 46 / 38	
		Sound Power Level		dB(A)	63		65		
	External Dimension	Net Weight		kg(lbs)	18.5 (40.8)		18.5 (40.8)		
		Shipping Weight		kg(lbs)	22.5 (49.6)		22.5 (49.6)		
		Net Dimensions (WxHxD)		mm	1,280 x 345 x 253		1,280 x 345 x 253		
				inch	50.39 x 13.58 x 9.96		50.39 x 13.58 x 9.96		
		Shipping Dimensions (WxHxD)		mm	1,352 x 326 x 420		1,352 x 326 x 420		
				inch	53.23 x 12.83 x 16.54		53.23 x 12.83 x 16.54		
		Casing	Material		-	Plastic		Plastic	

2. Specification

Wall Mounted

Model Name		Indoor Unit		AC030DNTDCG/AA	AC036DNTDCG/AA		
		Outdoor Unit		AC030DXSCCG/AA	AC036DXSCCG/AA		
US Code		Indoor Unit		CNG30TDD	CNG36TDD		
		Outdoor Unit		CXG30SCD	CXG36SCD		
Indoor Unit	Control	Infrared remote control		-	DB96-25924H		
	System	Wired remote control		-	MWR-WG01UN		
	Drain Pump	Drain Pump		-	-		
		Max.lifting Height / Displacement		in / gal/h	-		
	Additional Accessories	Air Filter		-	Removable / Washable		
Outdoor Unit	Power Supply		Φ,#,V,Hz	1,2,208-230,60	1,2,208-230,60		
	Heat Exchanger	Type	-		Fin & Tube	Fin & Tube	
		Material	Fin	-		Al	Al
			Tube	-		Cu	Cu
		Fin Treatment		-		Anti-Corrosion	Anti-Corrosion
	Compressor	Model		-		ATQ420D1UNT1	ATQ420D1UNT1
		Type		-		Twin Rotary	Twin Rotary
		Output		kW		3.6	3.6
		Oil	Type	-		POE	POE
			Initial Charge	cc (fl oz)		1,500	1,500
	Fan	Type		-		Propeller	Propeller
		Discharge direction		-		Side	Side
		Quantity		EA		2	2
		Air Flow Rate		m³/min		125	125
				ft³/min		4,414	4,414
	Fan Motor	Type		-		BLDC	BLDC
		Output		W x n		125 x 2	125 x 2
	Sound Level	Sound Pressure Level	Cooling	dB(A)		49	50
			Heating	dB(A)		51	52
		Sound Power Level		dB(A)		67	69
	External Dimension	Net Weight		kg(lbs)		96.0 (211.6)	96.0 (211.6)
		Shipping Weight		kg(lbs)		106.0 (233.7)	106.0 (233.7)
		Net Dimensions (WxHxD)		mm		940 x 1,420 x 330	940 x 1,420 x 330
				inch		37.01 x 55.91 x 12.99	37.01 x 55.91 x 12.99
				mm		995 x 1,598 x 426	995 x 1,598 x 426
				inch		37.17 x 62.91 x 16.77	37.17 x 62.91 x 16.77
	Casing	Material	Body	-		Steel	Steel
	Operating Temp. Range	Cooling		°C (°F)		-20~50 (-4~122)	-20~50 (-4~122)
		Heating		°C (°F)		-25~24 (-13~75)	-25~24 (-13~75)

• Specification may be subject to change without prior notice.

1) Performances are based on the following test conditions.

- Cooling : Indoor temperature : 80°F(26.7°C) DB, 67°F(19.4°C) WB, Outdoor temperature : 95°F(35°C) DB, 75°F(23.9°C) WB
- Heating : Indoor temperature : 70°F(21.1°C) DB, 60°F(15.6°C) WB, Outdoor temperature : 47°F(8.3°C) DB, 43°F(6.1°C) WB
- Equivalent refrigerant piping length 5m(16.4ft), Level differences : 0m(0ft)

2) Select wire size based on the value of MCA

3) 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 = 20uPa

4) Sound power level is an absolute value that a sound source generates.

- dBA = A-weighted sound power level / Reference power: 1pW / Measured according to ISO 3741

5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.

3. Summary Table

Wall Mounted

Performance Characteristics

Model Code	Net Weight (lbs)	Capacity			Fan Speed	Air Flow Rate		Sound Pressure Level (dBA)	Sound Power Level (dBA)
			Cooling (Btu/h)	Heating (Btu/h)		Cooling (CFM)	Heating (CFM)		
CNG18ADD (AC018DNADCG/AA)	25.4	Max.	22,500	29,000	High	615	615	42	60
		Std.	18,000	20,000	Mid	540	540	37	-
		Min.	6,100	3,400	Low	441	441	32	-
CNG24ADD (AC024DNADCG/AA)	27.6	Max.	29,000	43,000	High	629	629	44	61
		Std.	24,000	27,000	Mid	537	537	39	-
		Min.	8,200	8,000	Low	466	466	35	-
CNG30TDD (AC030DNTDCG/AA)	40.8	Max.	35,000	50,000	High	777	777	49	63
		Std.	30,000	32,000	Mid	724	724	47	-
		Min.	11,000	7,500	Low	671	671	45	-
CNG36TDD (AC036DNTDCG/AA)	40.8	Max.	45,000	54,000	High	830	830	51	65
		Std.	33,000	40,000	Mid	752	752	48	-
		Min.	12,000	10,000	Low	699	699	46	-

NOTE

- Sound data is based on cooling operation.

Electric Characteristics

Model		Outdoor Unit				Input Current (Amperes)				Power Supply	
Indoor Unit	Outdoor Unit	Rated	Voltage range			Outdoor Unit		Indoor Unit	Total	MCA(A)	MOP(A)
		Hz	Volts	Min.	Max	Cooling	Heating				
CNG18ADD (AC018DNADCG/AA)	CXG18SCD (AC018DXSCCG/AA)	60	208 to 230	187	253	20.18	20.18	0.42	20.60	22.7	25
CNG24ADD (AC024DNADCG/AA)	CXG24SCD (AC024DXSCCG/AA)	60	208 to 230	187	253	23.64	23.64	0.42	24.06	26.7	30
CNG30TDD (AC030DNTDCG/AA)	CXG30SCD (AC030DXSCCG/AA)	60	208 to 230	187	253	31.47	31.47	0.51	31.98	35.0	40
CNG36TDD (AC036DNTDCG/AA)	CXG36SCD (AC036DXSCCG/AA)	60	208 to 230	187	253	31.47	31.47	0.51	31.98	35.8	40

NOTE

- MCA : Minimum circuit amperes
- MOP: Maximum Overcurrent Protective Device
- Select wire size based on the value of MCA

4. Capacity Table

Wall Mounted

(1)CNG18ADD (AC018DNADCG/AA) + CXG18SCD (AC018DXSCCG/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
-4	19.1	14.2	1.11	20.1	14.6	1.13	21.0	15.1	1.15	21.6	15.6	1.18	22.0	15.4	1.19	23.1	15.2	1.21	24.3	14.9	1.24
70	20.7	14.7	1.18	21.8	15.2	1.20	22.7	15.7	1.22	23.4	16.1	1.25	23.9	16.0	1.26	25.1	15.8	1.29	26.3	15.5	1.31
95	15.9	12.3	1.38	16.8	12.7	1.41	17.5	13.1	1.44	18.0	13.5	1.47	18.4	13.4	1.48	19.3	13.2	1.51	20.2	13.0	1.54
115	18.0	13.7	2.56	18.9	14.2	2.61	19.7	14.6	2.67	20.3	15.1	2.72	20.7	14.9	2.75	21.8	14.8	2.80	22.9	14.5	2.86
122	14.8	12.2	2.35	15.6	12.6	2.40	16.2	13.0	2.45	16.7	13.4	2.50	17.1	13.3	2.52	17.9	13.1	2.57	18.8	12.9	2.63

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)											
	61		64		68		70		72		75	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-13	15.9	2.66	15.7	2.63	15.6	2.61	15.4	2.58	15.2	2.55	15.1	2.53
-4	20.6	2.99	20.4	2.97	20.2	2.94	20.0	2.91	19.8	2.88	19.6	2.85
14	25.8	3.54	25.5	3.51	25.3	3.47	25.0	3.44	24.8	3.41	24.5	3.37
32	27.2	3.24	26.9	3.21	26.7	3.18	26.4	3.15	26.1	3.12	25.9	3.08
47	20.6	1.77	20.4	1.75	20.2	1.74	20.0	1.72	19.8	1.70	19.6	1.69
75.2	27.2	1.67	26.9	1.65	26.7	1.63	26.4	1.62	26.1	1.60	25.9	1.58

 NOTE

- The performance table shows the average value of each conditions.

4. Capacity Table

Wall Mounted

(2) CNG24ADD (AC024DNADCG/AA) + CXG24SCD (AC024DXSCCG/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
-4	26.5	20.8	1.13	27.9	21.5	1.15	29.1	22.1	1.18	30.0	22.8	1.20	30.6	22.6	1.21	32.1	22.3	1.24	33.7	21.9	1.26
70	23.8	17.4	1.41	25.0	18.0	1.44	26.1	18.5	1.47	26.9	19.1	1.50	27.4	18.9	1.52	28.8	18.7	1.55	30.2	18.3	1.58
95	21.2	14.7	1.88	22.3	15.1	1.92	23.3	15.6	1.96	24.0	16.1	2.00	24.5	15.9	2.02	25.7	15.8	2.06	27.0	15.5	2.10
115	21.7	17.4	2.92	22.8	18.0	2.98	23.7	18.5	3.04	24.5	19.1	3.10	25.0	18.9	3.13	26.2	18.7	3.19	27.5	18.3	3.26
122	18.0	17.3	2.30	19.0	17.9	2.34	19.8	18.4	2.39	20.4	19.0	2.44	20.8	18.8	2.46	21.8	18.6	2.51	22.9	18.2	2.56

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)											
	61		64		68		70		72		75	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-13	19.5	2.50	19.3	2.47	19.1	2.45	18.9	2.42	18.7	2.40	18.5	2.37
-4	27.8	4.99	27.5	4.94	27.3	4.89	27.0	4.85	26.7	4.80	26.5	4.75
14	34.5	5.65	34.2	5.59	33.8	5.54	33.5	5.48	33.1	5.43	32.8	5.37
32	38.9	4.07	38.6	4.03	38.2	3.99	37.8	3.95	37.4	3.91	37.0	3.87
47	27.8	2.54	27.5	2.52	27.3	2.49	27.0	2.47	26.7	2.45	26.5	2.42
75.2	38.9	3.28	38.6	3.25	38.2	3.22	37.8	3.19	37.4	3.16	37.0	3.12

 NOTE

- The performance table shows the average value of each conditions.

4. Capacity Table

Wall Mounted

(3) CNG30TDD (AC030DNTDCG/AA) + CXG30SCD (AC030DXSCCG/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
-4	30.5	22.0	1.81	32.1	22.7	1.84	33.5	23.4	1.88	34.5	24.2	1.92	35.2	23.9	1.94	36.9	23.7	1.96	38.8	23.2	2.00
70	33.2	24.0	1.81	34.9	24.7	1.84	36.4	25.5	1.88	37.5	26.3	1.92	38.3	26.0	1.94	40.2	25.7	1.96	42.2	25.2	2.00
95	26.5	19.2	2.26	27.9	19.8	2.30	29.1	20.4	2.35	30.0	21.0	2.40	30.6	20.8	2.42	32.1	20.6	2.45	33.7	20.2	2.50
115	31.8	23.0	4.07	33.5	23.7	4.15	34.9	24.4	4.23	36.0	25.2	4.32	36.7	24.9	4.36	38.6	24.7	4.41	40.5	24.2	4.49
122	29.2	21.1	3.84	30.7	21.7	3.92	32.0	22.4	4.00	33.0	23.1	4.08	33.7	22.9	4.12	35.3	22.6	4.16	37.1	22.2	4.24

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)											
	61		64		68		70		72		75	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-13	26.4	4.92	26.1	4.87	25.9	4.82	25.6	4.77	25.3	4.73	25.1	4.68
-4	31.3	5.79	31.0	5.73	30.7	5.67	30.4	5.62	30.1	5.56	29.8	5.50
14	36.3	5.34	35.9	5.28	35.6	5.23	35.2	5.18	34.8	5.13	34.5	5.08
32	37.9	4.82	37.5	4.77	37.2	4.73	36.8	4.68	36.4	4.63	36.1	4.59
47	33.0	3.21	32.6	3.18	32.3	3.15	32.0	3.12	31.7	3.09	31.4	3.06
75.2	41.2	3.38	40.8	3.34	40.4	3.31	40.0	3.28	39.6	3.24	39.2	3.21

NOTE

- The performance table shows the average value of each conditions.

4. Capacity Table

Wall Mounted

(4) CNG36TDD (AC036DNTDCG/AA) + CXG36SCD (AC036DXSCCG/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
-4	32.1	23.2	2.20	33.8	23.9	2.24	35.2	24.6	2.29	36.3	25.4	2.34	37.0	25.2	2.36	38.9	24.9	2.38	40.8	24.4	2.43
70	36.5	26.4	2.33	38.4	27.2	2.38	40.0	28.0	2.43	41.3	28.9	2.48	42.1	28.6	2.50	44.2	28.3	2.52	46.4	27.7	2.57
95	29.2	21.1	2.59	30.7	21.7	2.64	32.0	22.4	2.70	33.0	23.1	2.75	33.7	22.9	2.78	35.3	22.6	2.81	37.1	22.2	2.86
115	30.7	22.1	4.09	32.3	22.8	4.17	33.6	23.5	4.26	34.7	24.3	4.35	35.3	24.0	4.39	37.1	23.8	4.43	39.0	23.3	4.52
122	27.7	21.5	3.75	29.2	22.1	3.83	30.4	22.8	3.91	31.4	23.5	3.99	32.0	23.3	4.03	33.6	23.0	4.07	35.3	22.6	4.15

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)											
	61		64		68		70		72		75	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-13	33.0	6.12	32.6	6.06	32.3	6.00	32.0	5.94	31.7	5.88	31.4	5.82
-4	39.2	6.95	38.8	6.89	38.4	6.82	38.0	6.75	37.6	6.68	37.2	6.62
14	43.3	6.95	42.8	6.89	42.4	6.82	42.0	6.75	41.6	6.68	41.2	6.62
32	47.4	6.72	46.9	6.66	46.5	6.59	46.0	6.53	45.5	6.46	45.1	6.40
47	41.2	4.64	40.8	4.59	40.4	4.55	40.0	4.50	39.6	4.46	39.2	4.41
75.2	53.6	5.10	53.0	5.05	52.5	5.00	52.0	4.95	51.5	4.90	51.0	4.85

NOTE

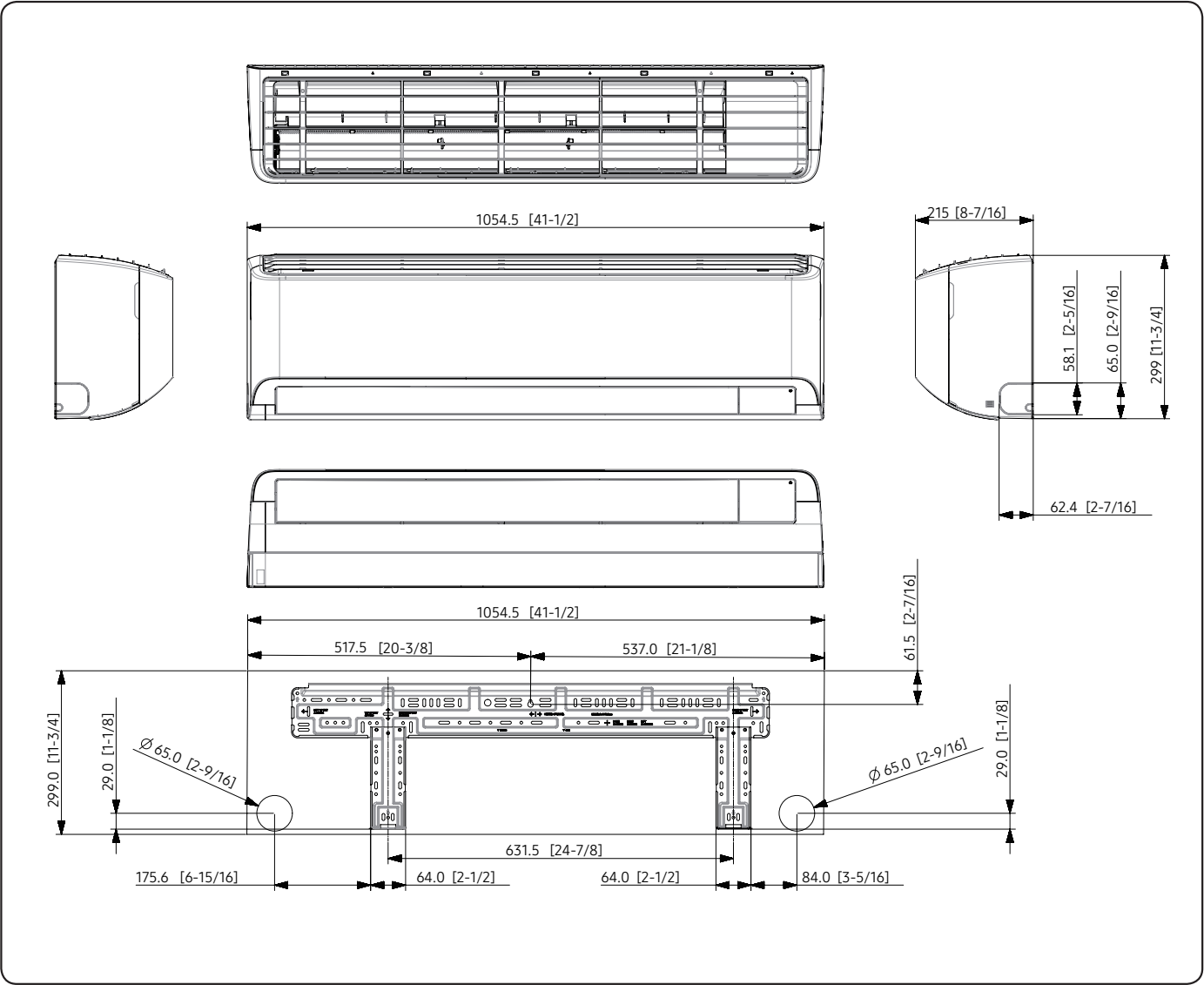
- The performance table shows the average value of each conditions.

5. Dimensional Drawing

Wall Mounted

CNG18ADD (AC018DNADCG/AA), CNG24ADD (AC024DNADCG/AA)

Units : mm [inches]

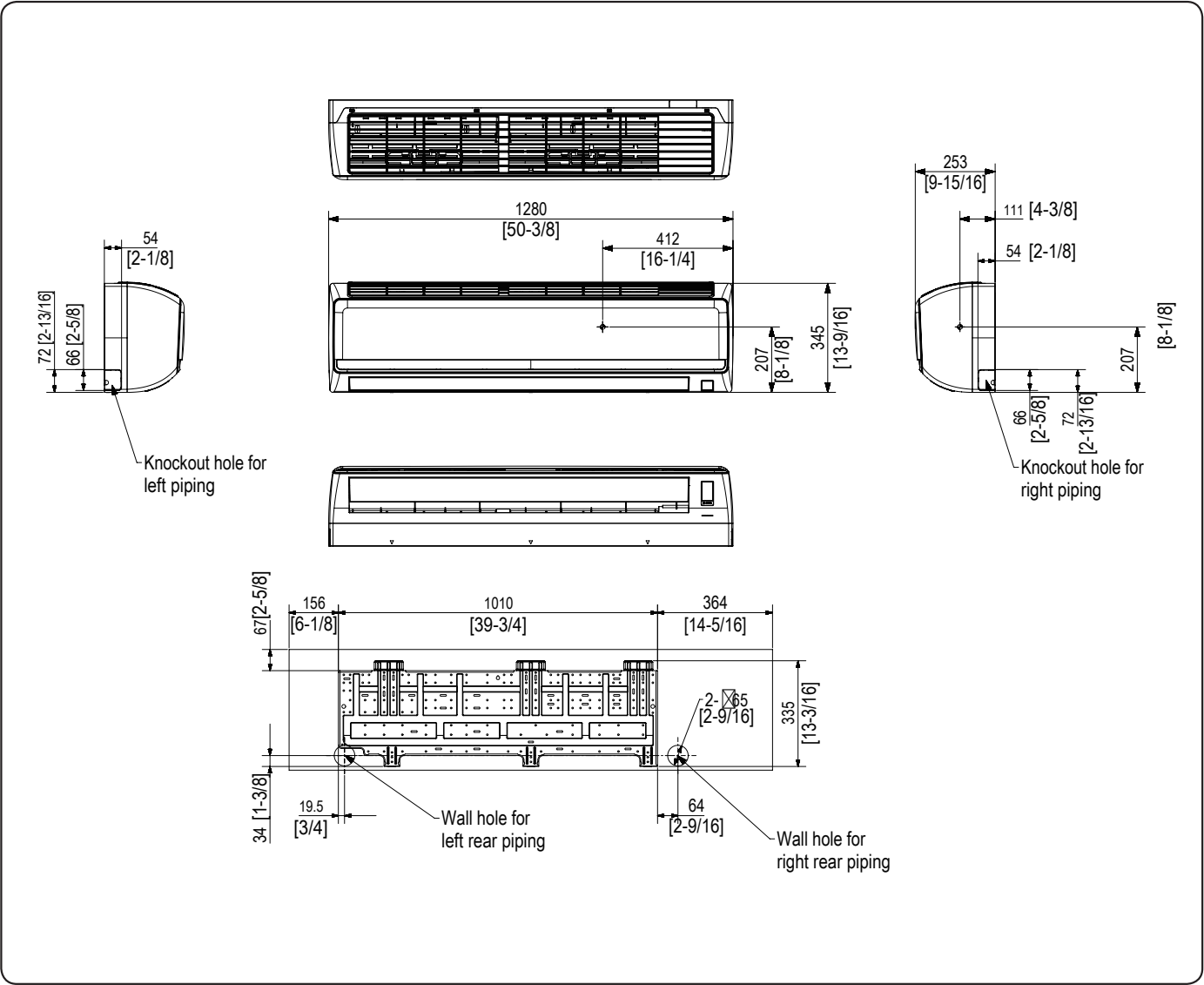


5. Dimensional Drawing

Wall Mounted

CNG30TDD (AC030DNTDCG/AA), CNG36TDD (AC036DNTDCG/AA)

Units : mm [inches]

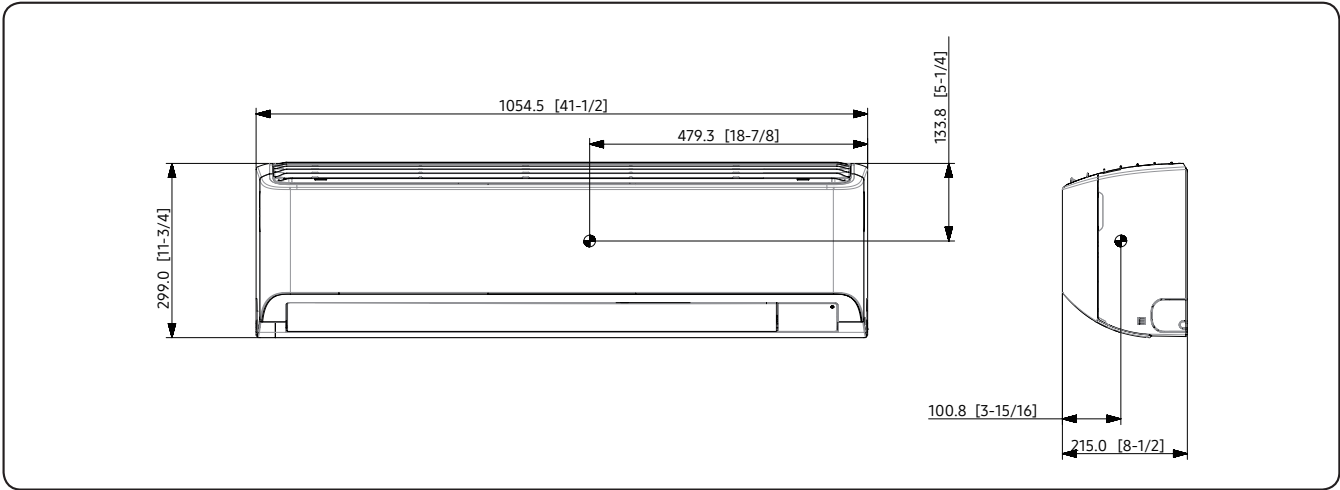


6. Center of Gravity

Wall Mounted

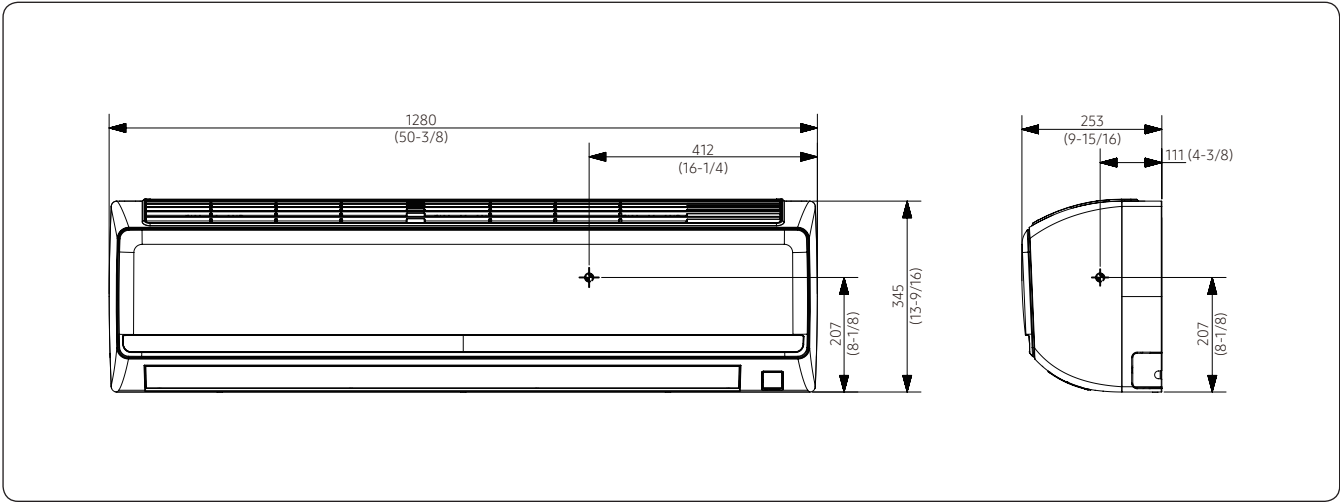
CNG18ADD (AC018DNADCG/AA), CNG24ADD (AC024DNADCG/AA)

Units : mm [inches]



CNG30TDD (AC030DNTDCG/AA), CNG36TDD (AC036DNTDCG/AA)

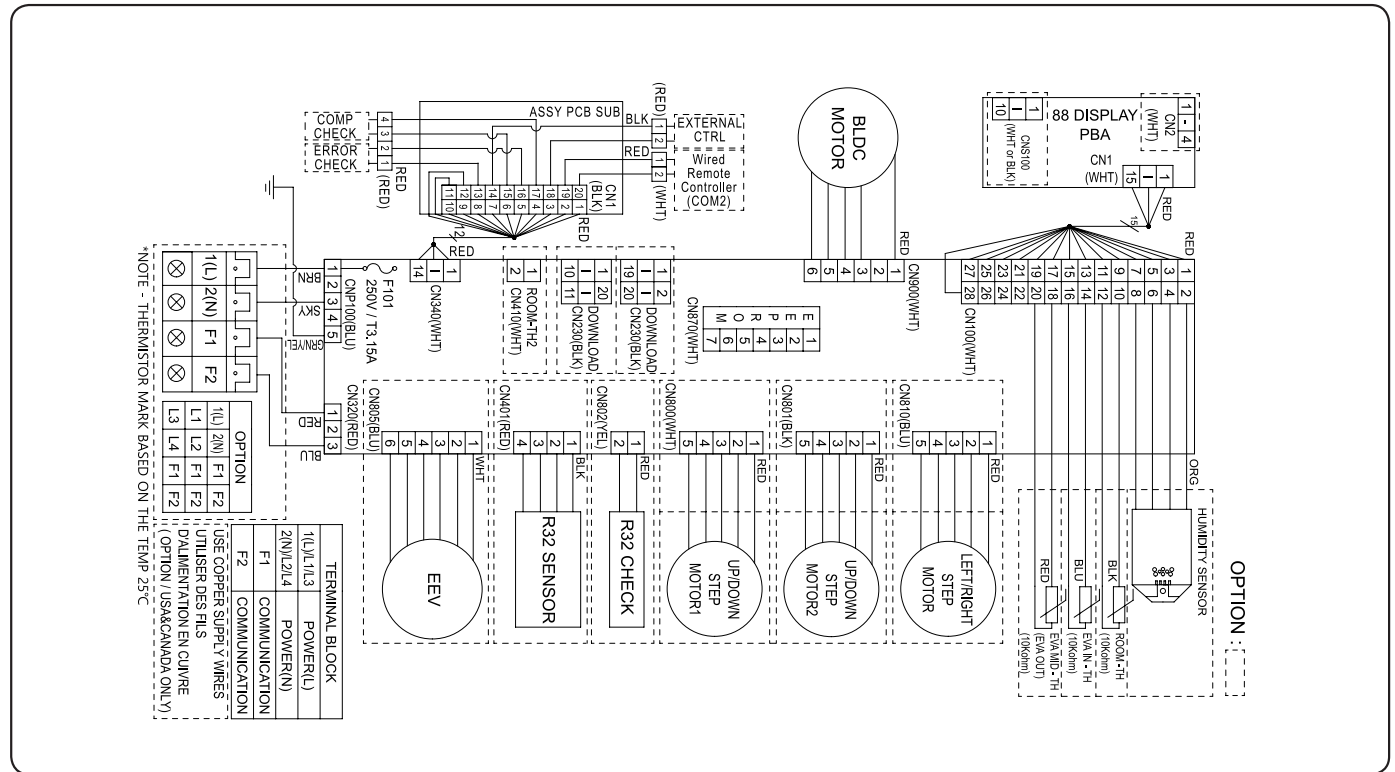
Units : mm [inches]



7. Electrical Wiring Diagram

Wall Mounted

CNG18ADD (AC018DNADCG/AA), CNG24ADD (AC024DNADCG/AA)



88 DISPLAY PBA	DISPLAY SUB PBA	ROOM-TH(10Kohm)	Thermistor - Indoor Room	EEV	Electronic Expansion Valve
COMP CHECK	Contact output port for compressor operation check	EVA IN-TH(10Kohm)	Thermistor - IDU heat exchanger In	F101	Fuse
ERROR CHECK	Contact output port for error check	EVA MID-TH(10Kohm)	Thermistor - IDU heat exchanger Out	EEPROM	EEPROM SUB PBA
R32 SENSOR	R32 Gas sensor	EXTERNAL CTRL	Input port for external contact control		
R32 CHECK	Contact output port for R32 Gas check	BLDC MOTOR	Motor for Indoor Fan		

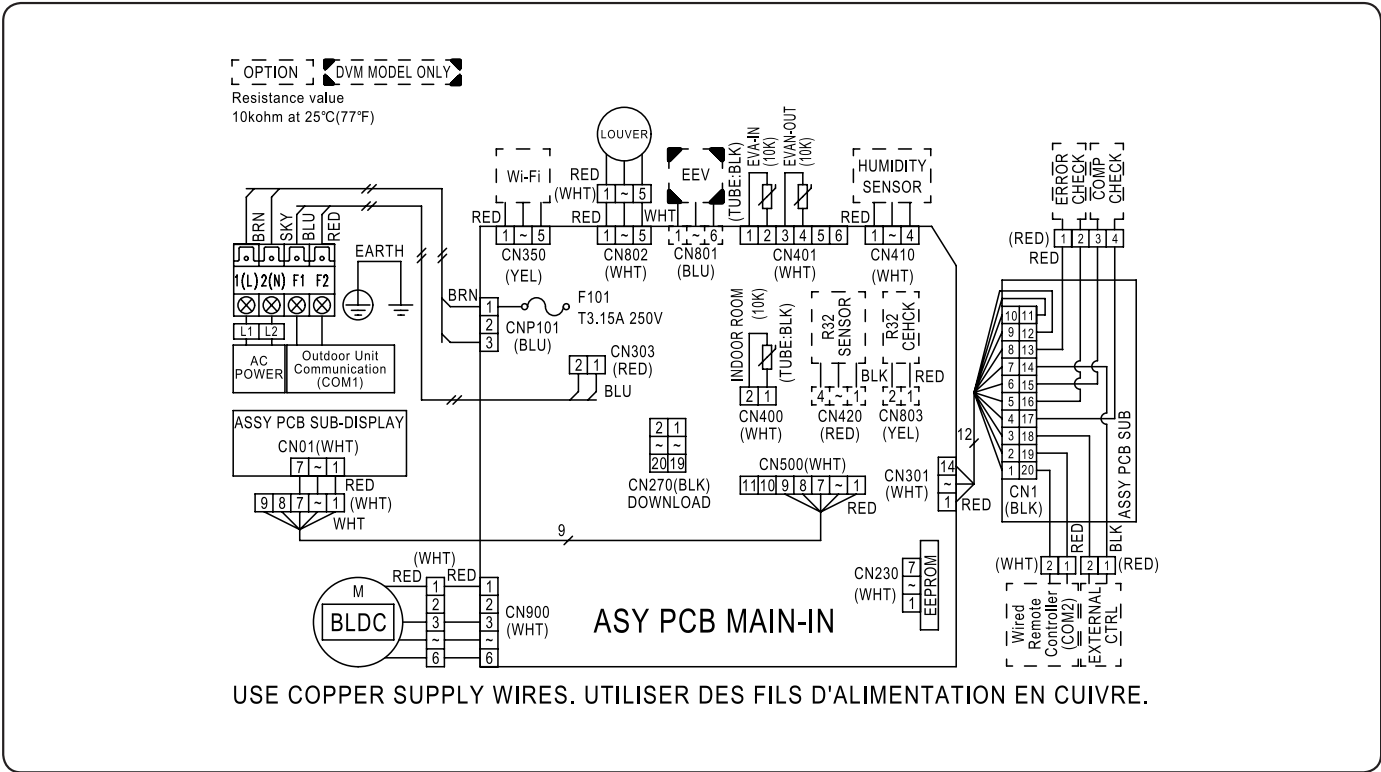
NOTE

- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- ⏏ Protective earth(screw), □ : connector, $\frac{1}{2}$: The wire quantity

7. Electrical Wiring Diagram

Wall Mounted

CNG30TDD (AC030DNTDCG/AA), CNG36TDD (AC036DNTDCG/AA)



ASSY PCB SUB-DISPLAY	DISPLAY SUB PBA	INDOOR ROOM(10K)	Thermistor - Indoor Room	EEV	Electronic Expansion Valve
COMP CHECK	Contact output port for compressor operation check	EVA IN(10K)	Thermistor - IDU heat exchanger In	F101	Fuse
ERROR CHECK	Contact output port for error check	EVA OUT(10K)	Thermistor - IDU heat exchanger Out	EEPROM	EEPROM SUB PBA
R32 SENSOR	R32 Gas sensor	EXTERNAL CTRL	Input port for external contact control		
R32 CHECK	Contact output port for R32 Gas check	M-BLDC	Motor for Indoor Fan		

NOTE

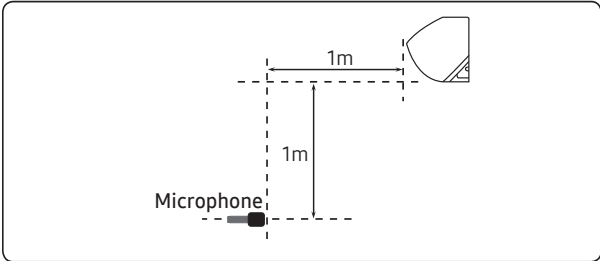
- This wiring diagram applies only to the Indoor unit.
- Symbols show as follow :
blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue: grn: green
- For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remote controller transmission F3-F4.
- Protective earth(screw), : connector, : The wire quantity

8. Sound Data

Wall Mounted

Sound Pressure level

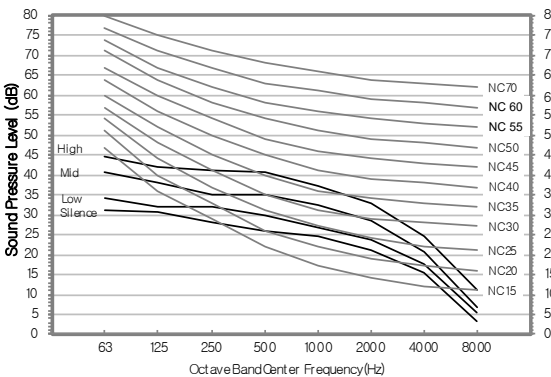
Unit: dB(A)



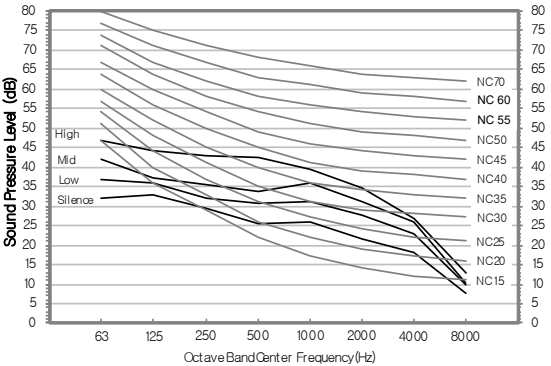
Model	High	Mid	Low	Silence
CNG18ADD (AC018DNADCG/AA)	42	37	32	29
CNG24ADD (AC024DNADCG/AA)	44	39	35	30
CNG30TDD (AC030DNTDCG/AA)	49	47	45	37
CNG36TDD (AC036DNTDCG/AA)	51	48	46	38

- NC Curve

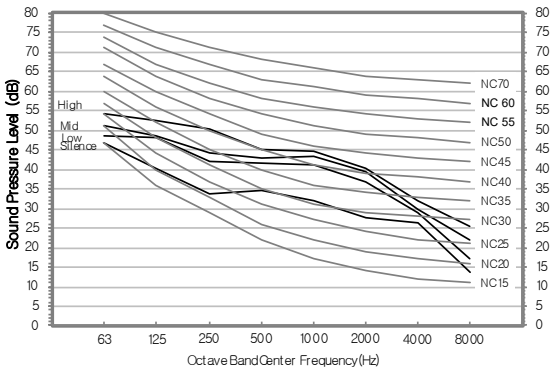
1) CNG18ADD (AC018DNADCG/AA)



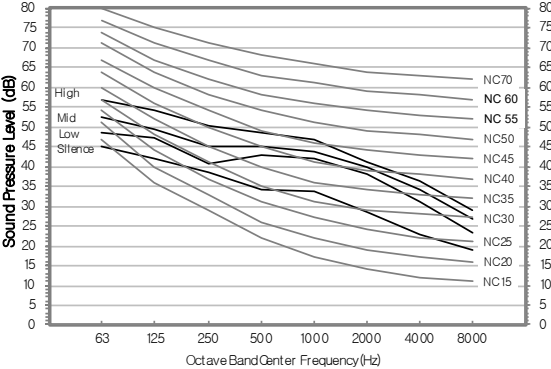
2) CNG24ADD (AC024DNADCG/AA)



3) CNG30TDD (AC030DNTDCG/AA)



4) CNG36TDD (AC036DNTDCG/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

8. Sound Data

Wall Mounted

Sound Power level



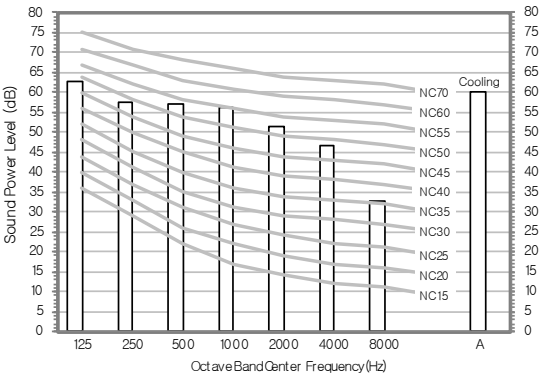
- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

Unit: dB(A)

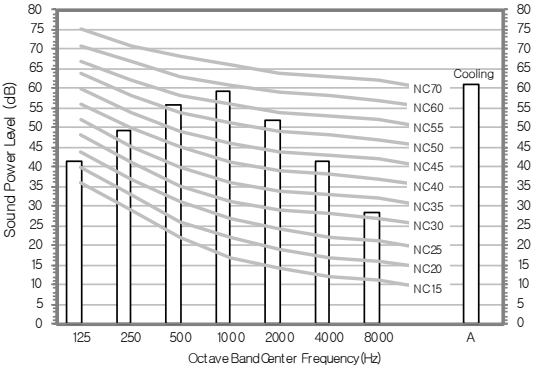
Model	Cooling
CNG18ADD (AC018DNADCG/AA)	60
CNG24ADD (AC024DNADCG/AA)	61
CNG30TDD (AC030DNTDCG/AA)	63
CNG36TDD (AC036DNTDCG/AA)	65

NC Curve

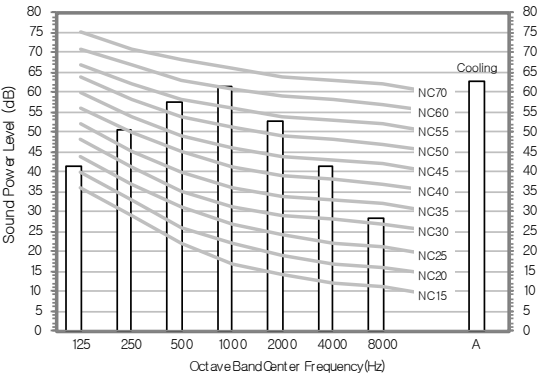
1) CNG18ADD (AC018DNADCG/AA)



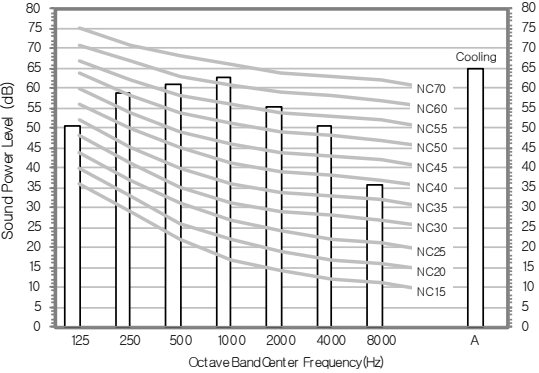
2) CNG24ADD (AC024DNADCG/AA)



3) CNG30TDD (AC030DNTDCG/AA)



4) CNG36TDD (AC036DNTDCG/AA)

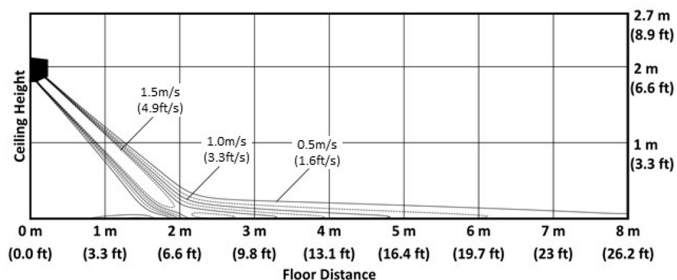


9. Temperature and air flow distribution

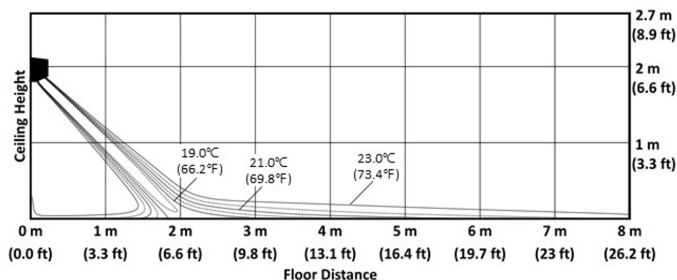
Wall Mounted

CNG18ADD (AC018DNADCG/AA) + CXG18SCD (AC018DXSCCG/AA)

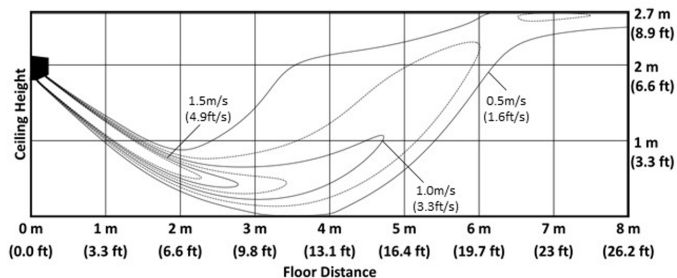
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



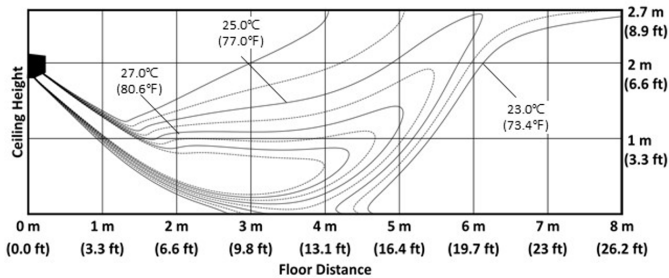
- Cooling temperature distribution
(Discharge angle : 20 degree)



- Heating Air Velocity distribution
(Discharge angle : 30 degree)

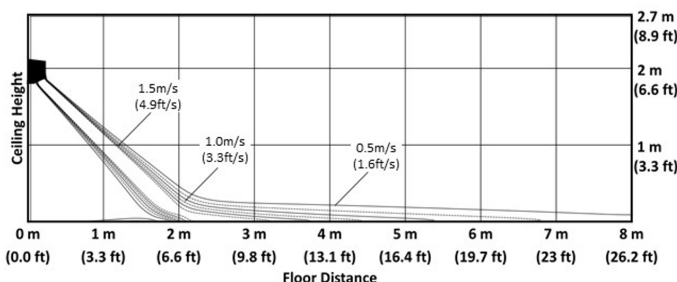


- Heating temperature distribution
(Discharge angle : 30 degree)

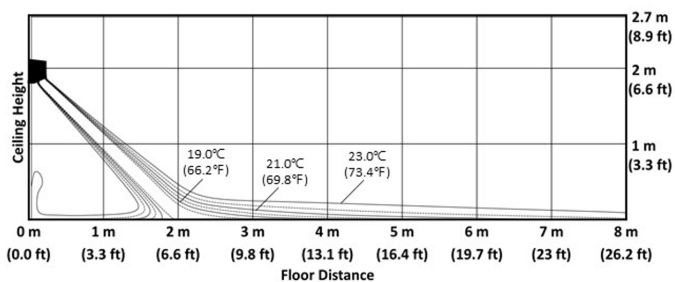


CNG24ADD (AC024DNADCG/AA) + CXG24SCD (AC024DXSCCG/AA)

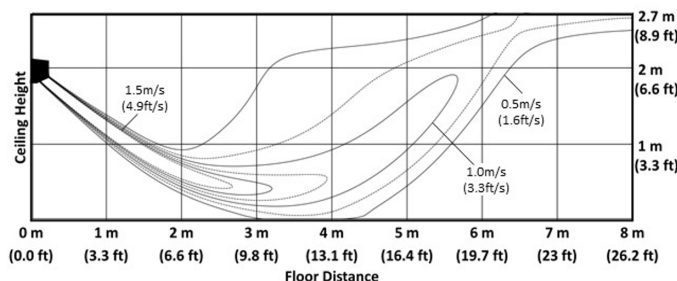
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



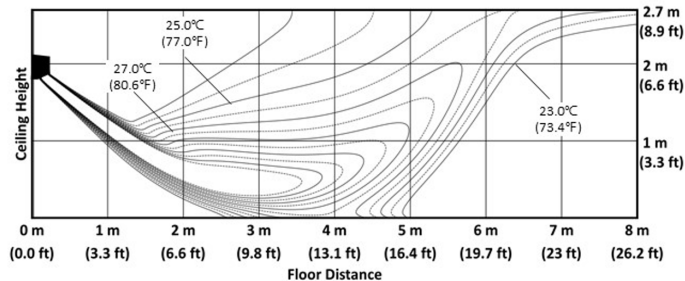
- Cooling temperature distribution
(Discharge angle : 20 degree)



- Heating Air Velocity distribution
(Discharge angle : 30 degree)



- Heating temperature distribution
(Discharge angle : 30 degree)

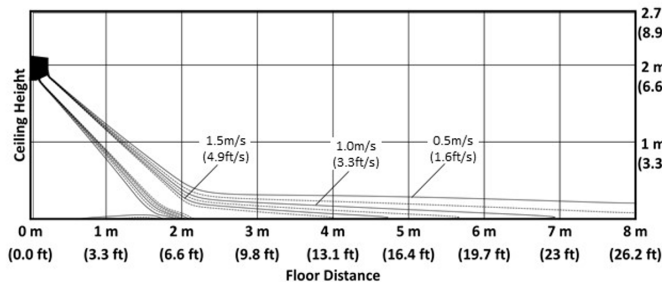


9. Temperature and air flow distribution

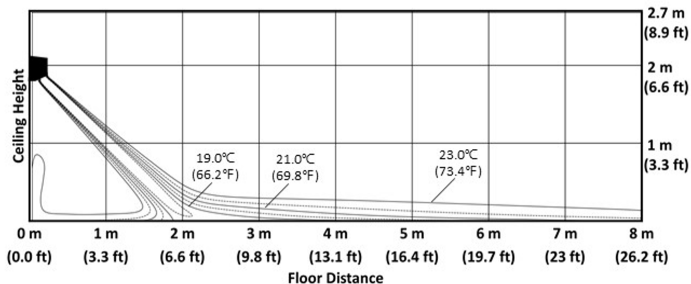
Wall Mounted

CNG30TDD (AC030DNTDCG/AA) + CXG30SCD (AC030DXSCCG/AA)

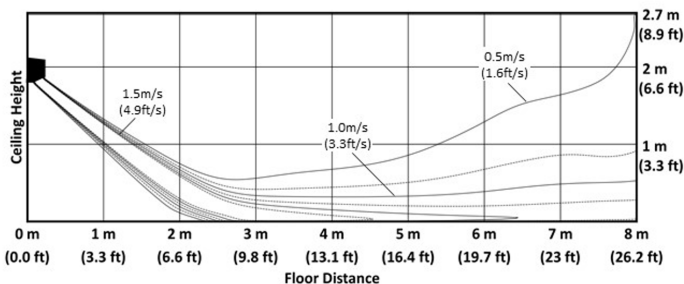
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



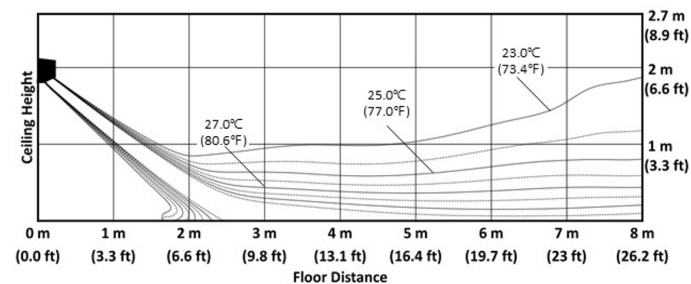
- Cooling temperature distribution
(Discharge angle : 20 degree)



- Heating Air Velocity distribution
(Discharge angle : 30 degree)

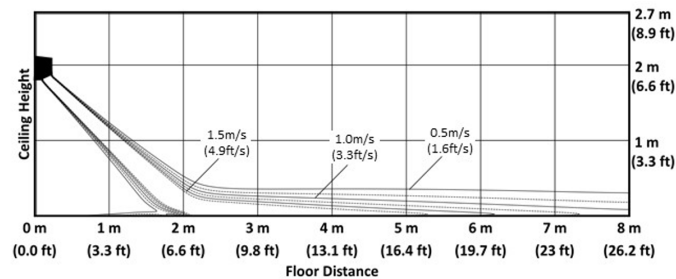


- Heating temperature distribution
(Discharge angle : 30 degree)

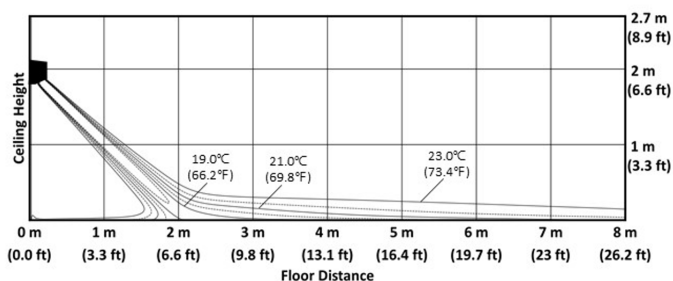


CNG36TDD (AC036DNTDCG/AA) + CXG36SCD (AC036DXSCCG/AA)

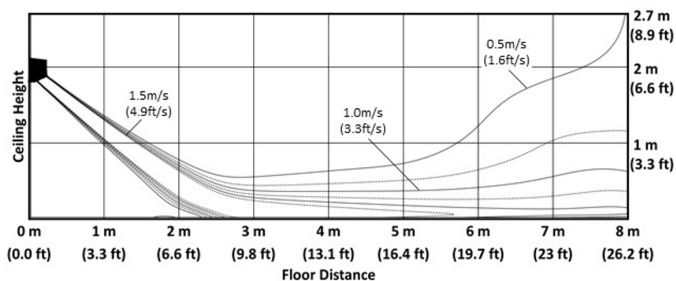
- Cooling Air Velocity distribution
(Discharge angle : 20 degree)



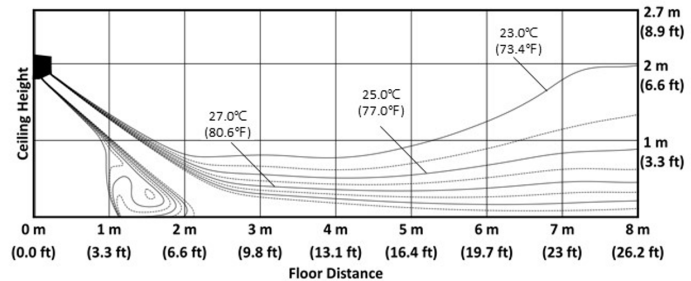
- Cooling temperature distribution
(Discharge angle : 20 degree)



- Heating Air Velocity distribution
(Discharge angle : 30 degree)



- Heating temperature distribution
(Discharge angle : 30 degree)



Outdoor Units

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1. Summary Table

Outdoor Units

Performance Characteristics

Capacity (Btu/h)	Model Code	Net Size (WxHxD inch)	Net Weight (lbs)	Airflow (CFM)	Sound Pressure Level (dBA)		Sound Power Level (dBA)
					Cooling	Heating	
18,000	CXG18SCD (AC018DXSCCG/AA)	34.65 x 31.42 x 12.20	116.8	2,154	51	51	65
24,000	CXG24SCD (AC024DXSCCG/AA)	37.01 x 39.29 x 12.99	155.4	2,684	50	52	65
30,000	CXG30SCD (AC030DXSCCG/AA)	37.01 x 55.91 x 12.99	211.6	4,414	49	51	67
36,000	CXG36SCD (AC036DXSCCG/AA)	37.01 x 55.91 x 12.99	211.6	4,414	50	52	69

 NOTE

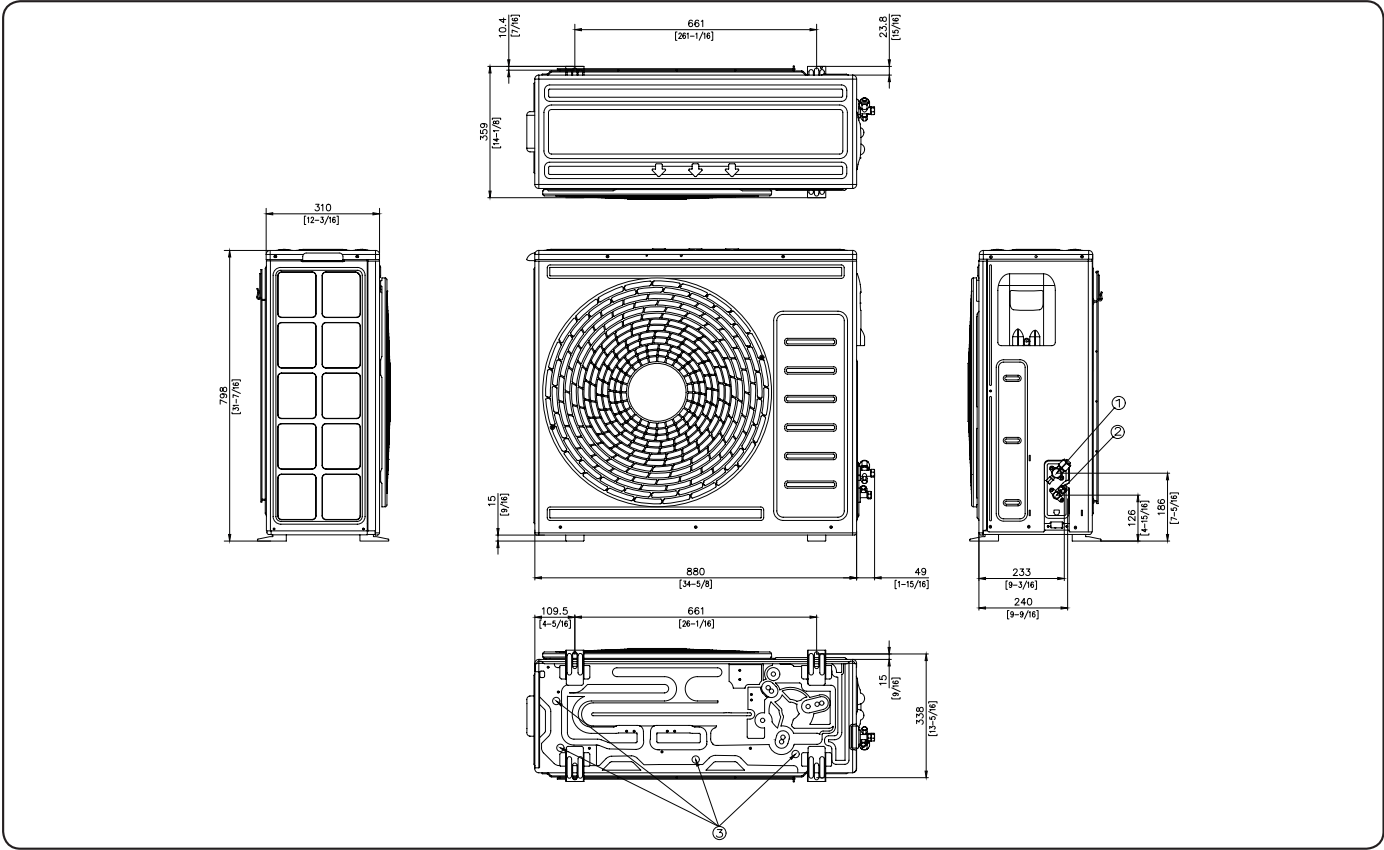
- Sound power level is based on cooling operation.

2. Dimensional Drawing

Outdoor Units

CXG18SCD (AC018DXSCCG/AA)

Units : mm [inches]



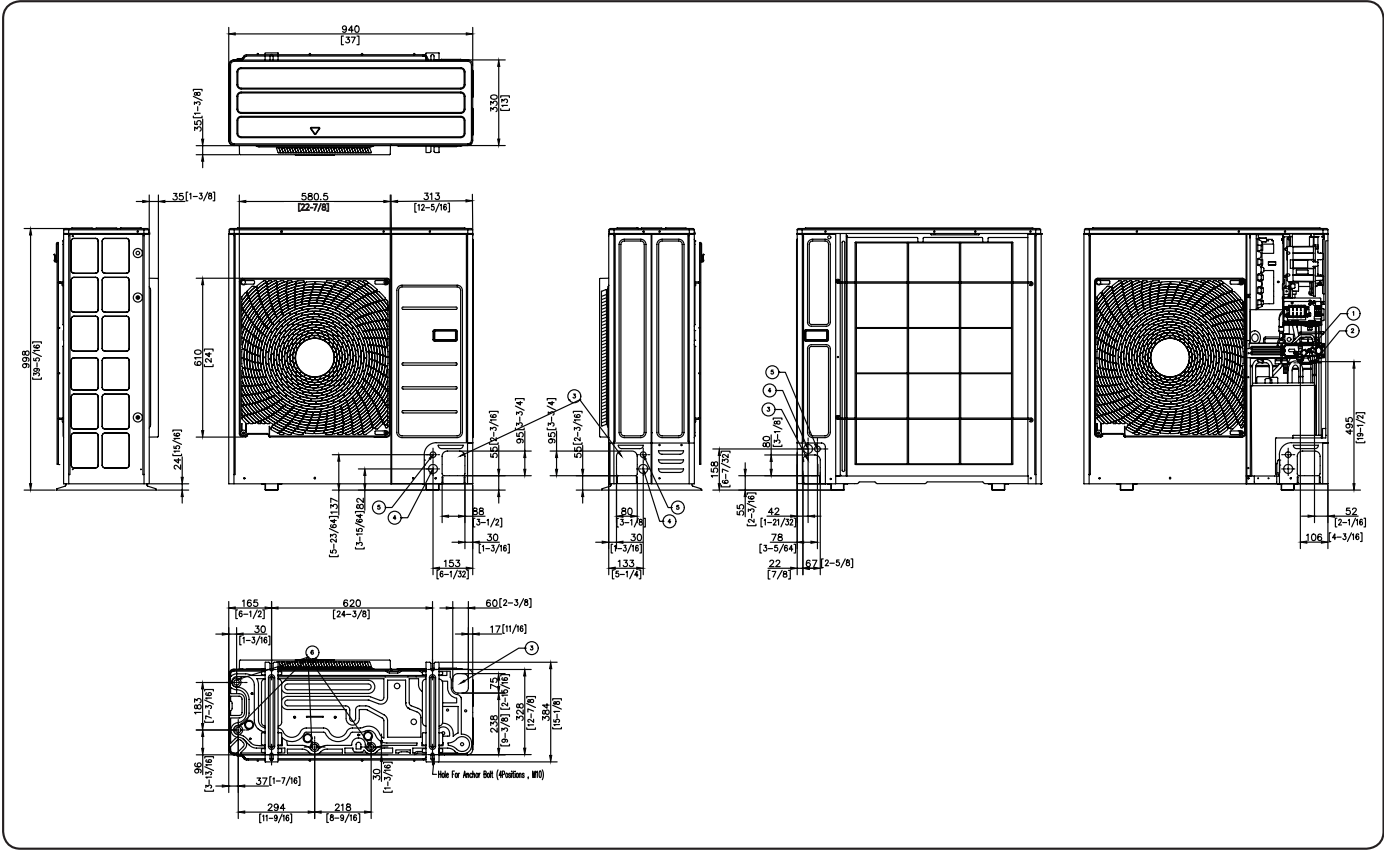
No.	Name	Description
1	Gas pipe connection	Φ 12.7 (1/2)
2	Liquid pipe connection	Φ 6.35 (1/4)
3	Drain pipe connection	

2. Dimensional Drawing

Outdoor Units

CXG24SCD (AC024DXSCCG/AA)

Units : mm [inches]

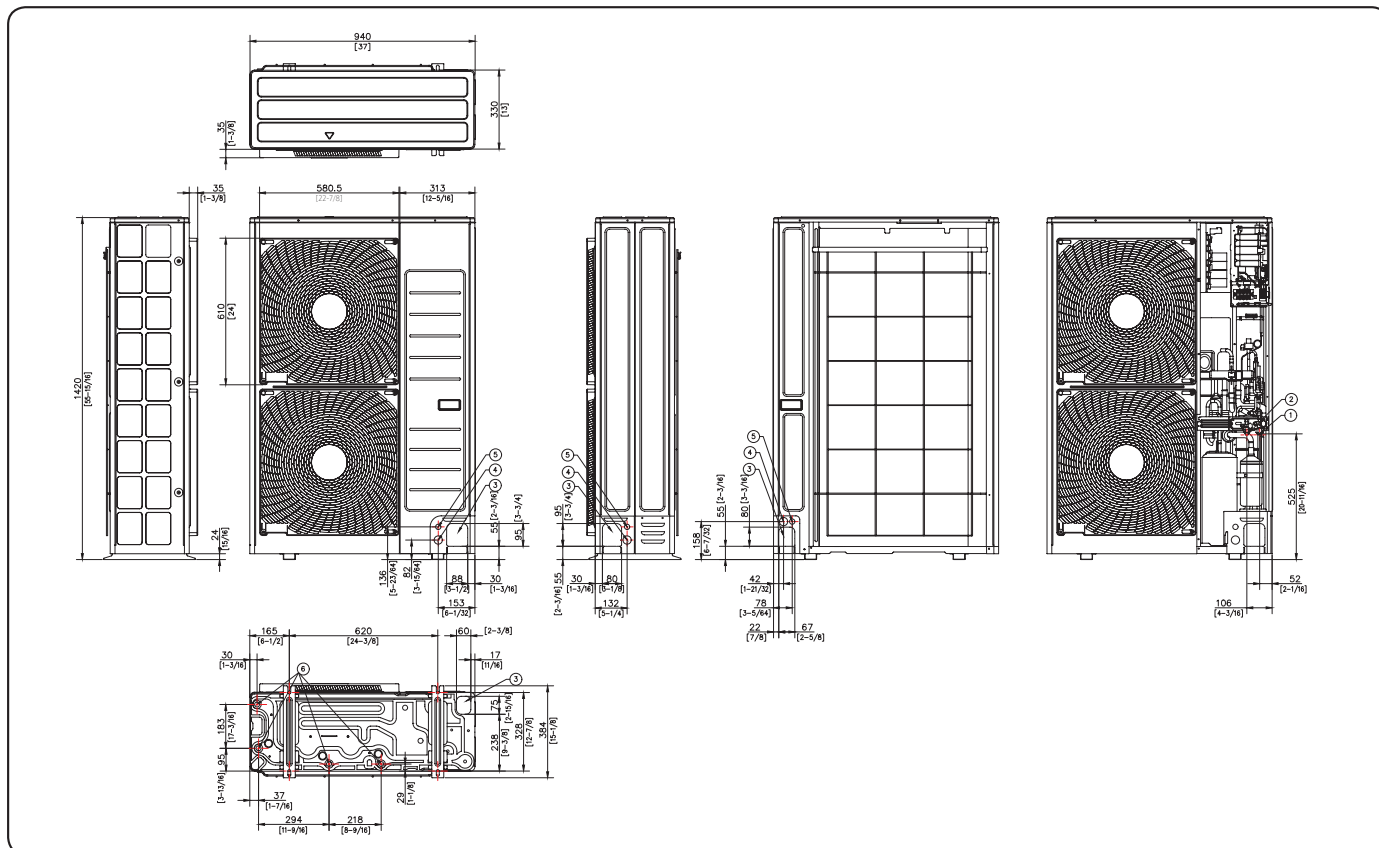


2. Dimensional Drawing

Outdoor Units

CXG30SCD (AC030DXSCCG/AA), CXG36SCD (AC036DXSCCG/AA)

Units : mm [inches]



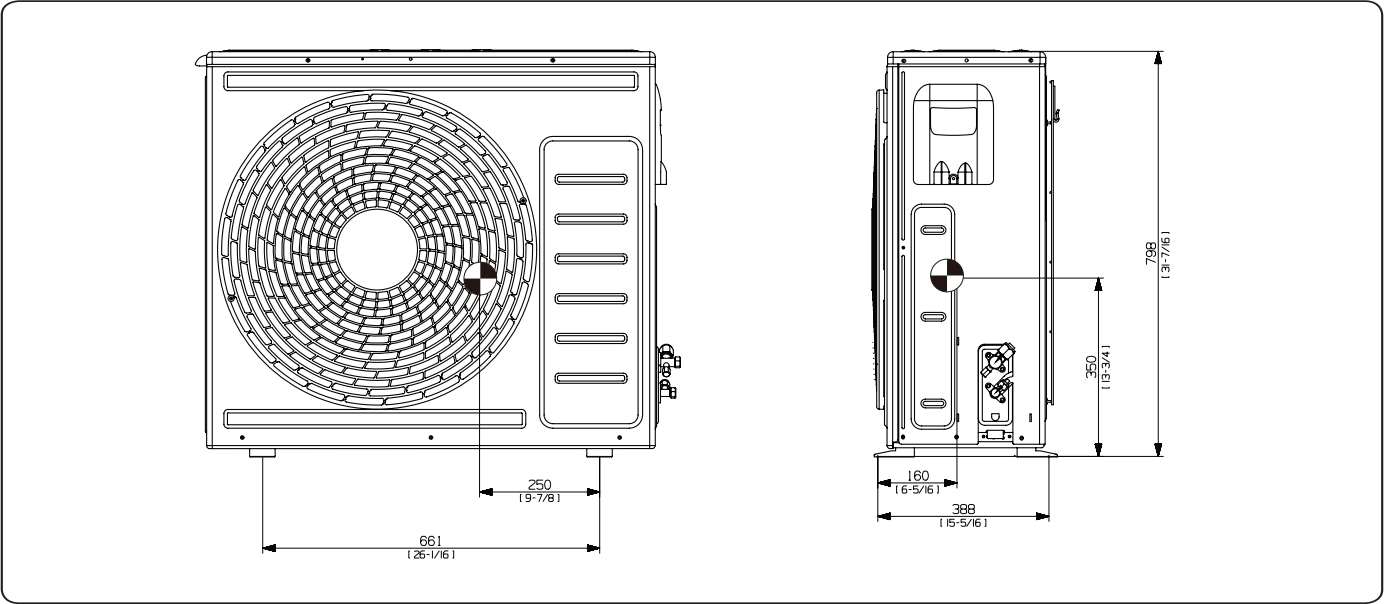
No.	Name	Description
1	Liquid pipe connection	Φ 9.52 (3/8)
2	Gas pipe connection	Φ 15.88 (5/8)
3	Piping intake knockout hole	Front / Side / Rear / Bottom
4	Power wiring conduit	Front / Side / Rear , Φ 34(1-3/8)
5	Communication wiring conduit	Front / Side / Rear , Φ 22(7/8)
6	Drain Hole	Connect with the provided drain plug

3. Center of Gravity

Outdoor Units

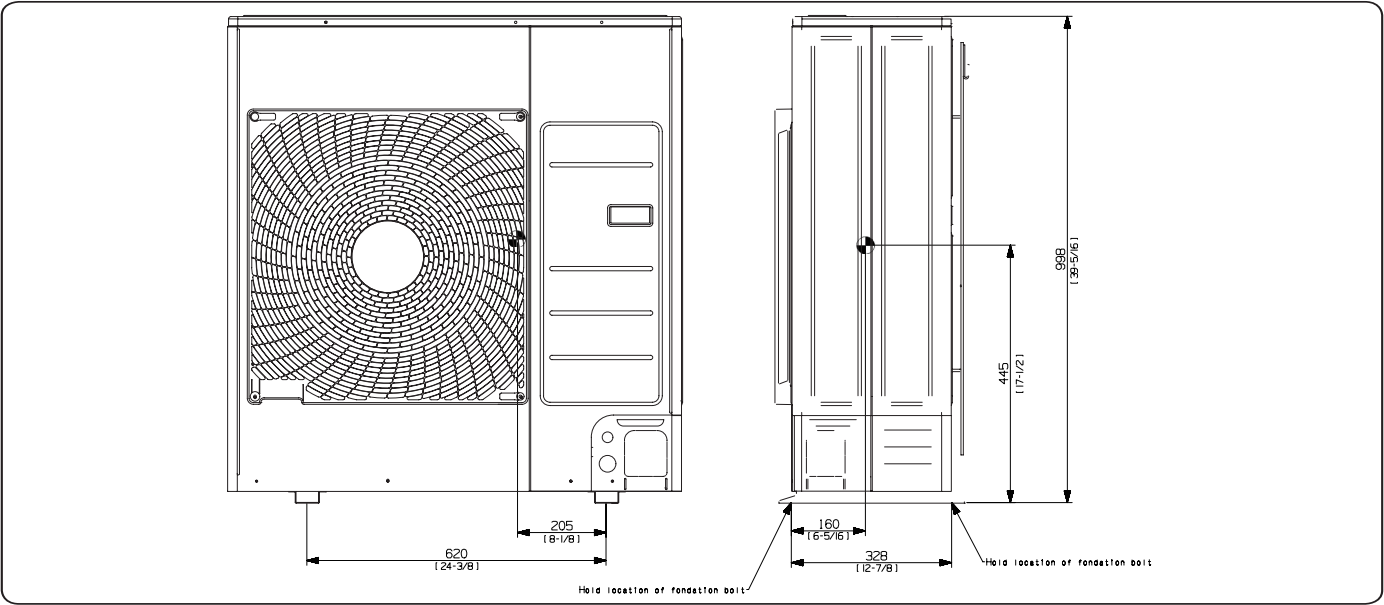
CXG18SCD (AC018DXSCCG/AA)

Units : mm [inches]



CXG24SCD (AC024DXSCCG/AA)

Units : mm [inches]

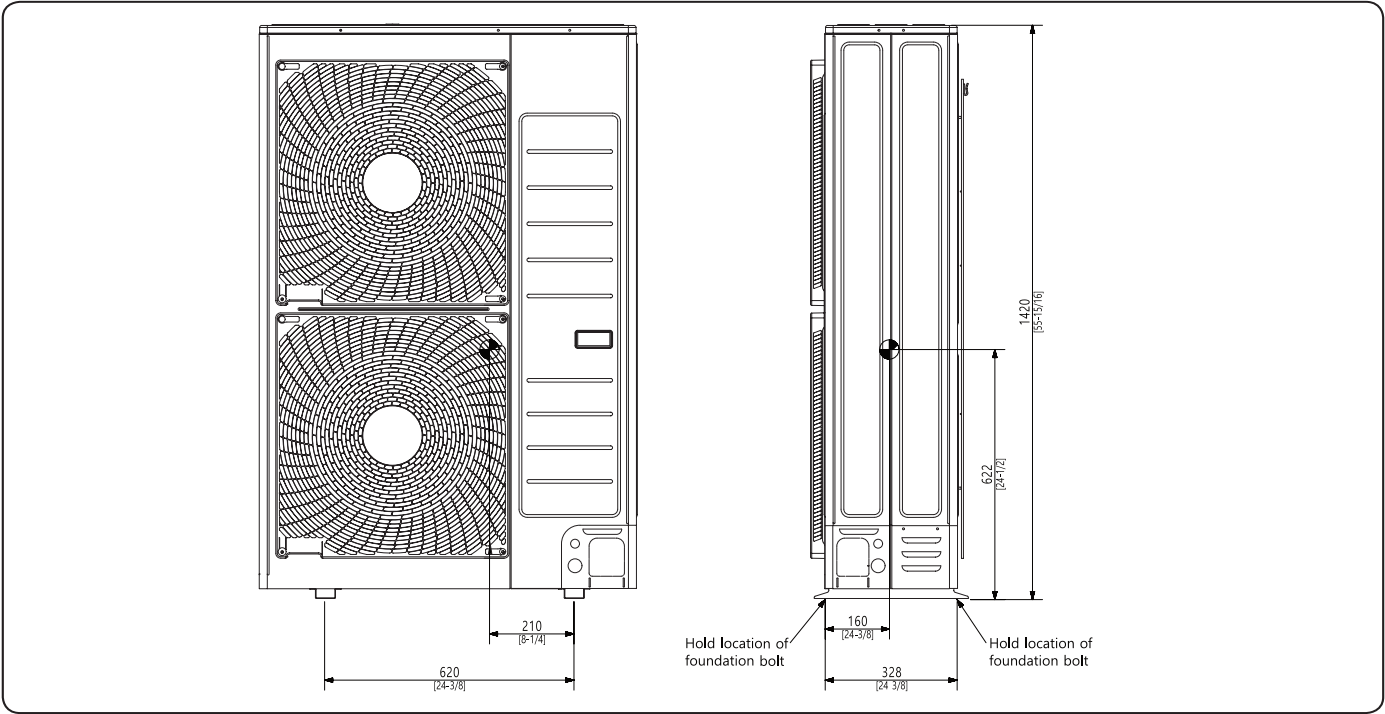


3. Center of Gravity

Outdoor Units

CXG30SCD (AC030DXSCCG/AA), CXG36SCD (AC036DXSCCG/AA)

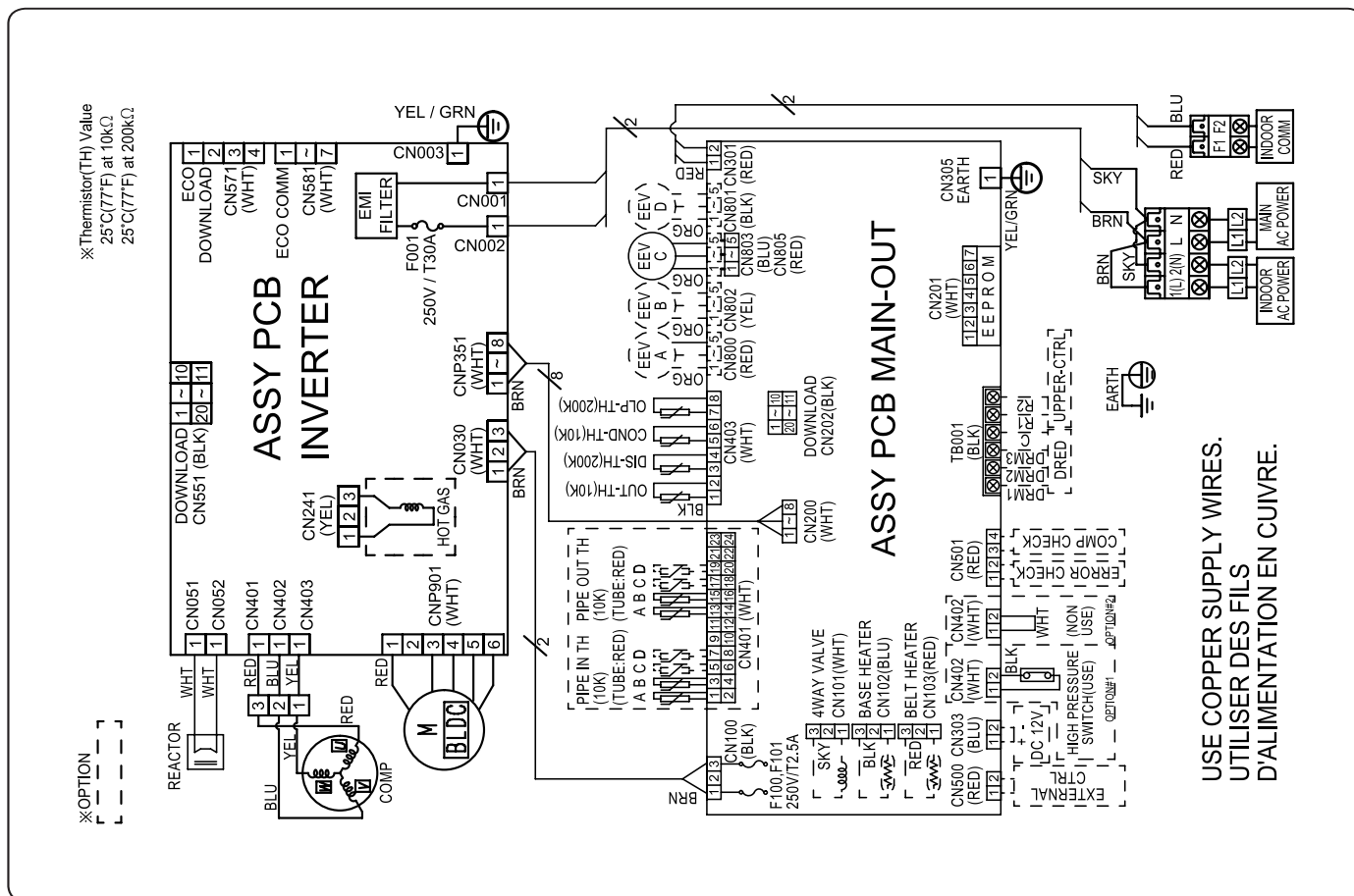
Units : mm [inches]



4. Electrical Wiring Diagram

Outdoor Units

CXG18SCD (AC018DXSCCG/AA)



ERROR CHECK	Contact output port for error check	OUT-TH(10K)	OUTDOOR TEMPERATURE SENSOR	EEV	Electronic Expansion Valve
COMP CHECK	Contact output port for compressor operation check	DIS-TH(200K)	DISCHARGE TEMPERATURE SENSOR	EXTERNAL CRTL	Input port for external contact control
INDOOR ROOM(10K)	Thermistor - Indoor Room	COND-TH(10K)	CONDENSOR TEMPERATURE SENSOR	F100, F101	Fuse
PIPE IN TH(10K)	Thermistor - ODU PIPE IN	OLP-TH(200K)	OLP TEMPERATURE SENSOR	M-BLDC	Motor for outdoor Fan
PIPE OUT TH(10K)	Thermistor - ODU PIPE OUT	DISPLAY	Panel LED display		

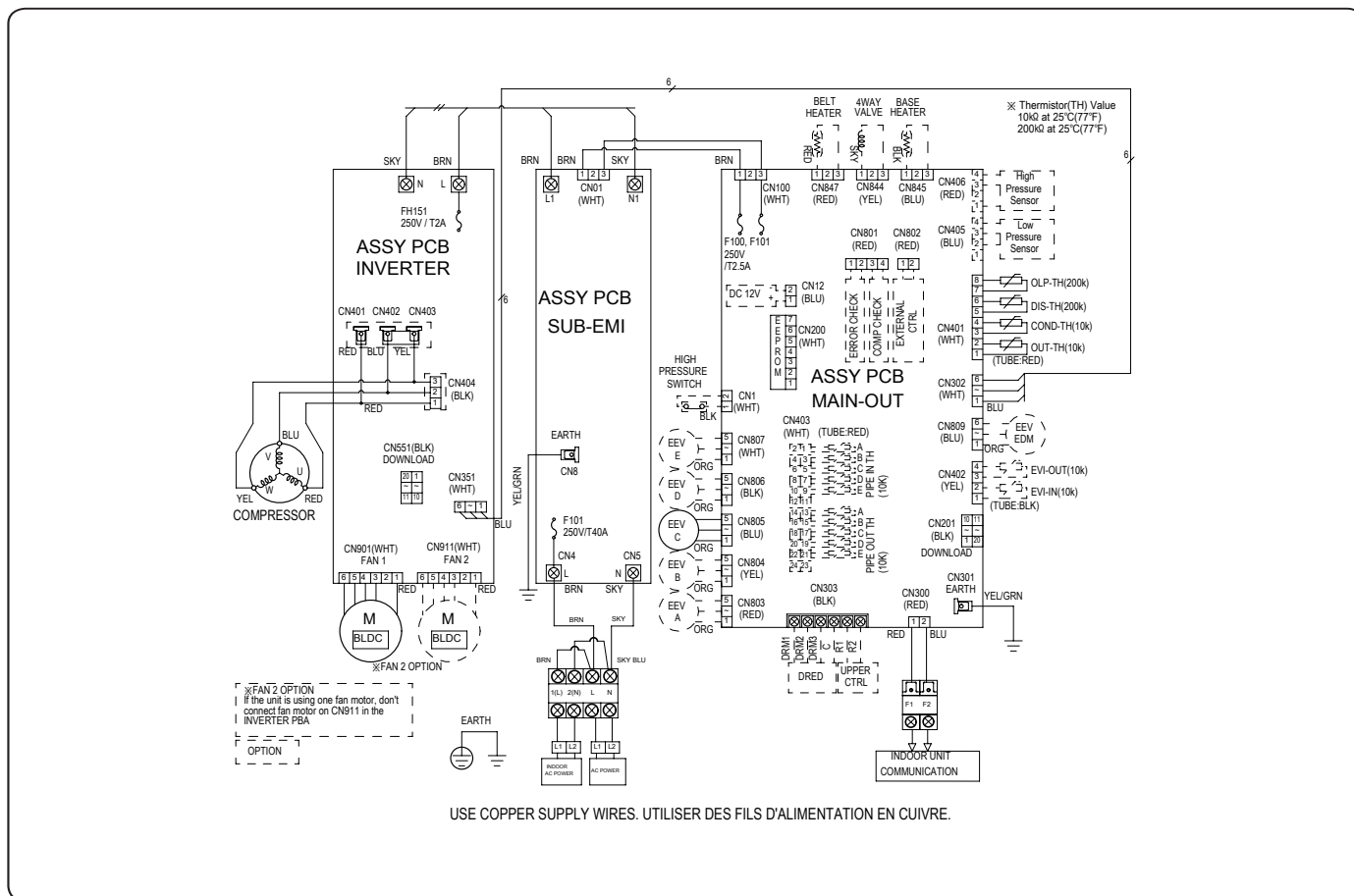
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.
- ⚡ Protective earth(screw), □□□□ : connector, ✂ : The wire quantity

4. Electrical Wiring Diagram

Outdoor Units

CXG24SCD (AC024DXSCCG/AA), CXG30SCD (AC030DXSCCG/AA), CXG36SCD (AC036DXSCCG/AA)



M-BLDC	Motor for outdoor Fan	PIPE IN TH(10K)	Thermistor - ODU PIPE IN	EEV	Electronic Expansion Valve
ERROR CHECK	Contact output port for error check	PIPE OUT TH(10K)	Thermistor - ODU PIPE OUT	EXTERNAL CRTL	Input port for external contact control
COMP CHECK	Contact output port for compressor operation check	OUT-TH(10K)	OUTDOOR TEMPERATURE SENSOR	F100, F101	Fuse
INDOOR ROOM(10K)	Thermistor - Indoor Room	DIS-TH(200K)	DISCHARGE TEMPERATURE SENSOR	DISPLAY	Panel LED display
EVI-IN(10K)	ESC IN TEMPERATURE SENSOR	COND-TH(10K)	CONDENSOR TEMPERATURE SENSOR		
EVI-OUT(10K)	ESC OUT TEMPERATURE SENSOR	OLP-TH(200K)	OLP TEMPERATURE SENSOR		

NOTE

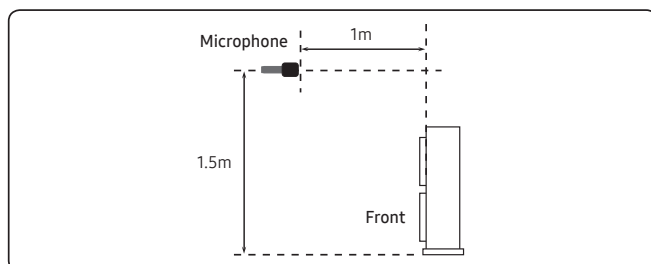
- This wiring diagram applies only to the outdoor unit.
- Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.
- ⏏ Protective earth(screw), □□□□ : connector, $\frac{N}{\times}$: The wire quantity

5. Sound Data

Outdoor Units

Sound Pressure level

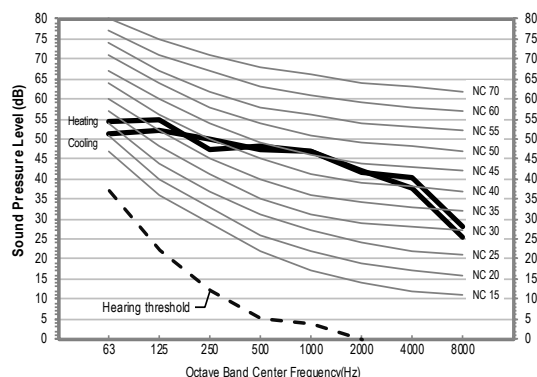
Unit: dB(A)



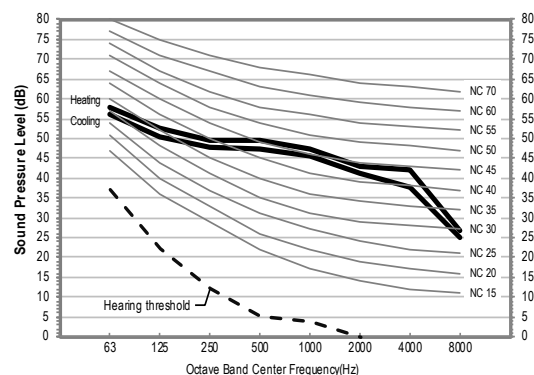
Model	Cooling	Heating
CXG18SCD (AC018DXSCCG/AA)	51	51
CXG24SCD (AC024DXSCCG/AA)	50	52
CXG30SCD (AC030DXSCCG/AA)	49	51
CXG36SCD (AC036DXSCCG/AA)	50	52

• NC Curve

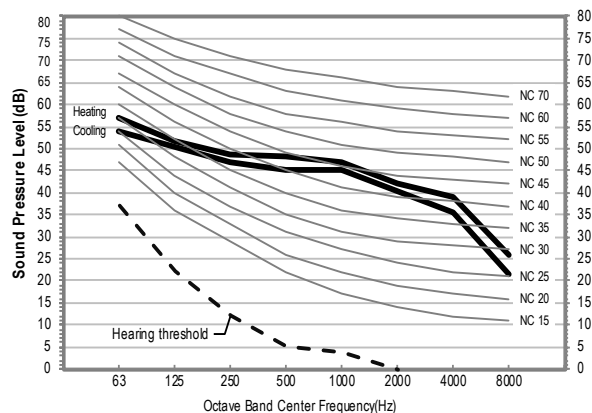
1) CXG18SCD (AC018DXSCCG/AA)



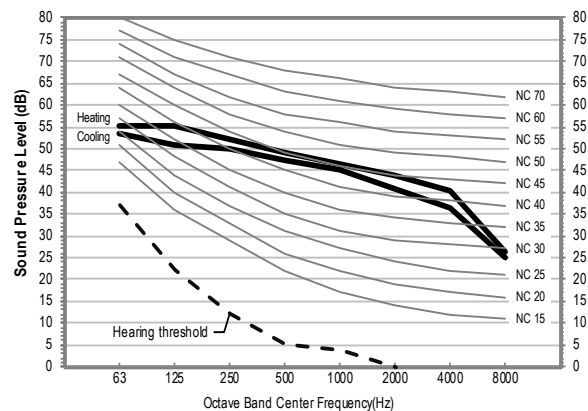
2) CXG24SCD (AC024DXSCCG/AA)



3) CXG30SCD (AC030DXSCCG/AA)



4) CXG36SCD (AC036DXSCCG/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

5. Sound Data

Outdoor Units

Sound Power level

 NOTE

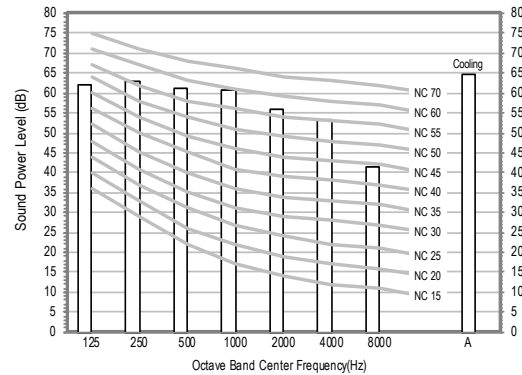
Unit: dB(A)

- Specifications may be subject to change without prior notice
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

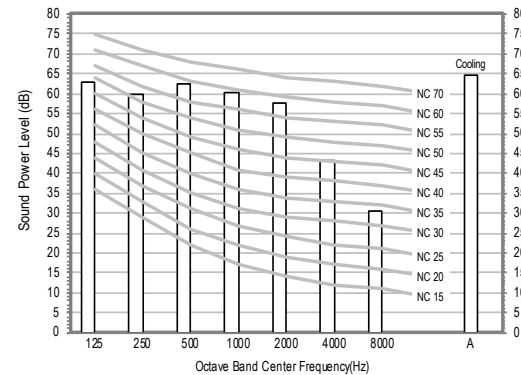
Model	Cooling
CXG18SCD (AC018DXSCCG/AA)	65
CXG24SCD (AC024DXSCCG/AA)	65
CXG30SCD (AC030DXSCCG/AA)	67
CXG36SCD (AC036DXSCCG/AA)	69

- NC Curve

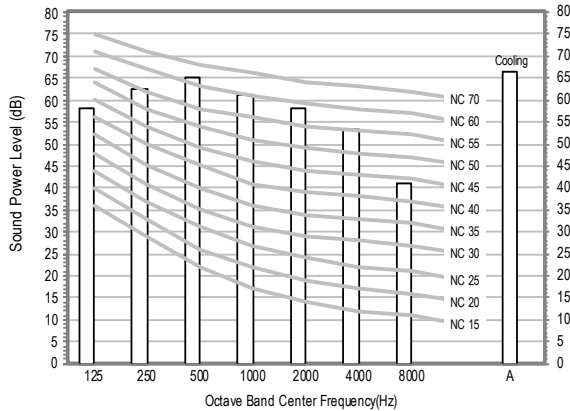
1) CXG18SCD (AC018DXSCCG/AA)



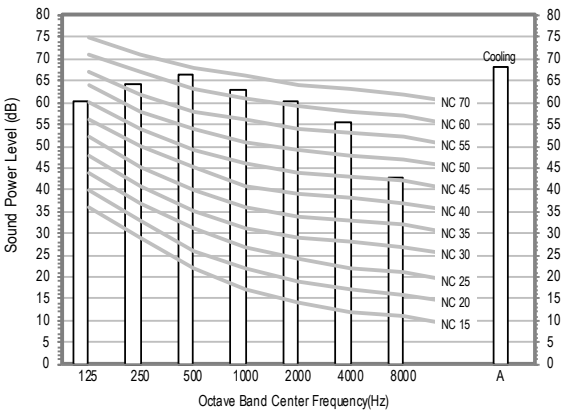
2) CXG24SCD (AC024DXSCCG/AA)



3) CXG30SCD (AC030DXSCCG/AA)



4) CXG36SCD (AC036DXSCCG/AA)

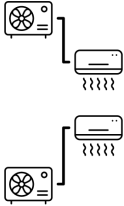


6. Capacity Correction

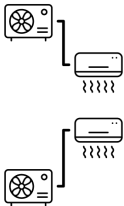
Outdoor Units

CXG18SCD (AC018DXSCCG/AA), CXG24SCD (AC024DXSCCG/AA)

Cooling

		Pipe Length (ft)									
		24.6	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
		0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91
		-16.4	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
		-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

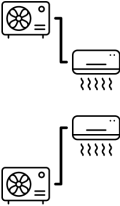
		Pipe Length (ft)									
		24.6	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
	Level Difference (ft)	98.4	-	-	-	-	0.94	0.93	0.92	0.91	0.90
		82.0	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
		65.6	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
		49.2	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
		32.8	0.99	0.98	0.97	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
		0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91
		-16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91
		-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

6. Capacity Correction

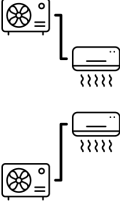
Outdoor Units

CXG30SCD (AC030DXSCCG/AA), CXG36SCD (AC036DXSCCG/AA)

Cooling

		Pipe Length (ft)														
		24.6	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
		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
		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
		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
		0.0	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
		-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
		-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
		-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
		-65.6	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86
		-82.0	-	-	-	-	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85
		-98.4	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84

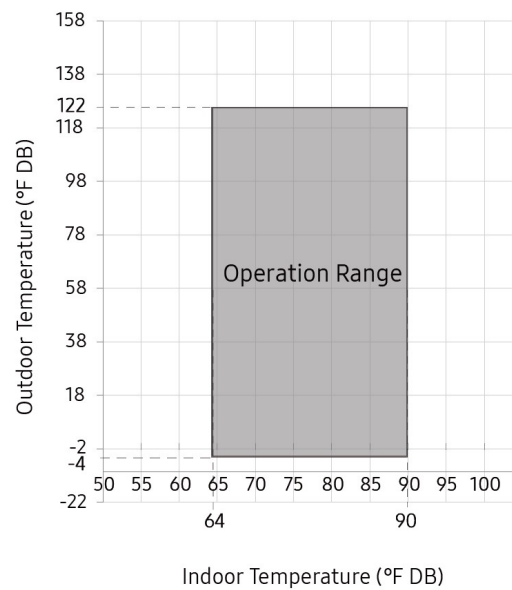
Heating

		Pipe Length (ft)														
		24.6	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
		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
		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
		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
		0.0	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
		-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
		-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
		-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
		-65.6	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89
		-82.0	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89
		-98.4	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89

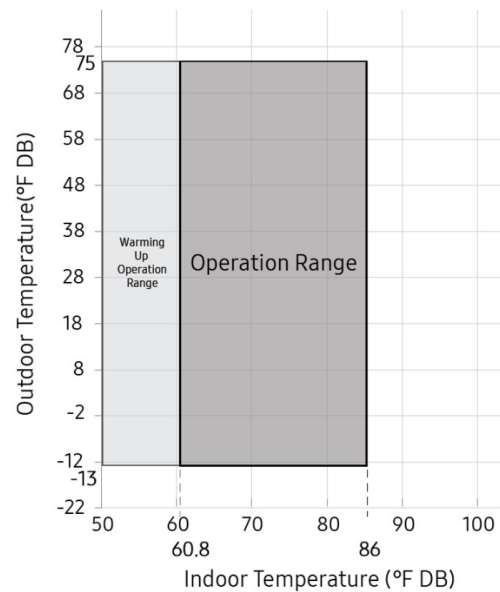
7. Operation Range

Outdoor Units

Cooling



Heating



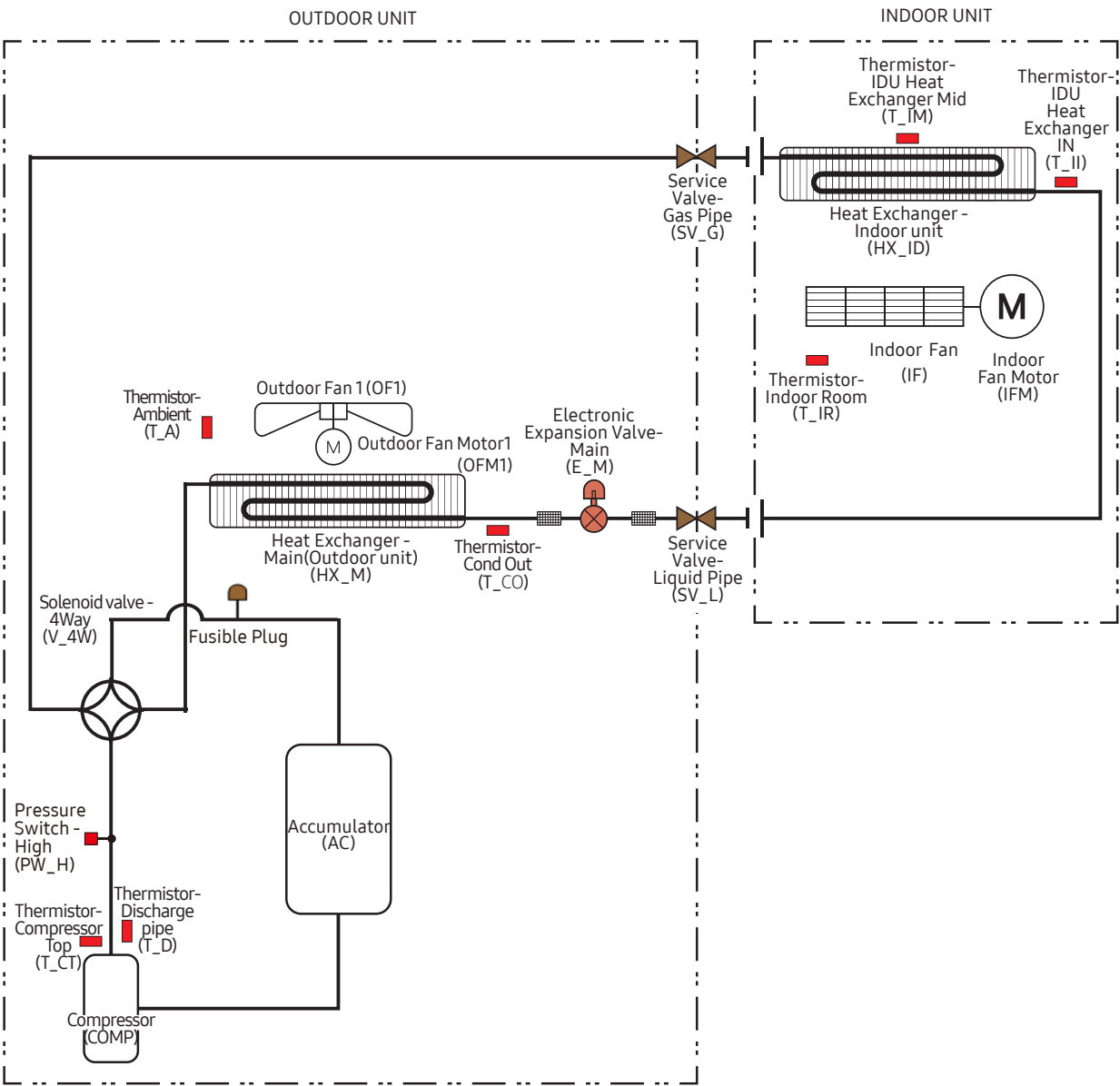
NOTE

- The assumed installation conditions are follows
 - The pipe length(including elbow) is 7.5m(24.6ft).
 - The level difference is 0 m.

8. Piping Diagram

Outdoor Units

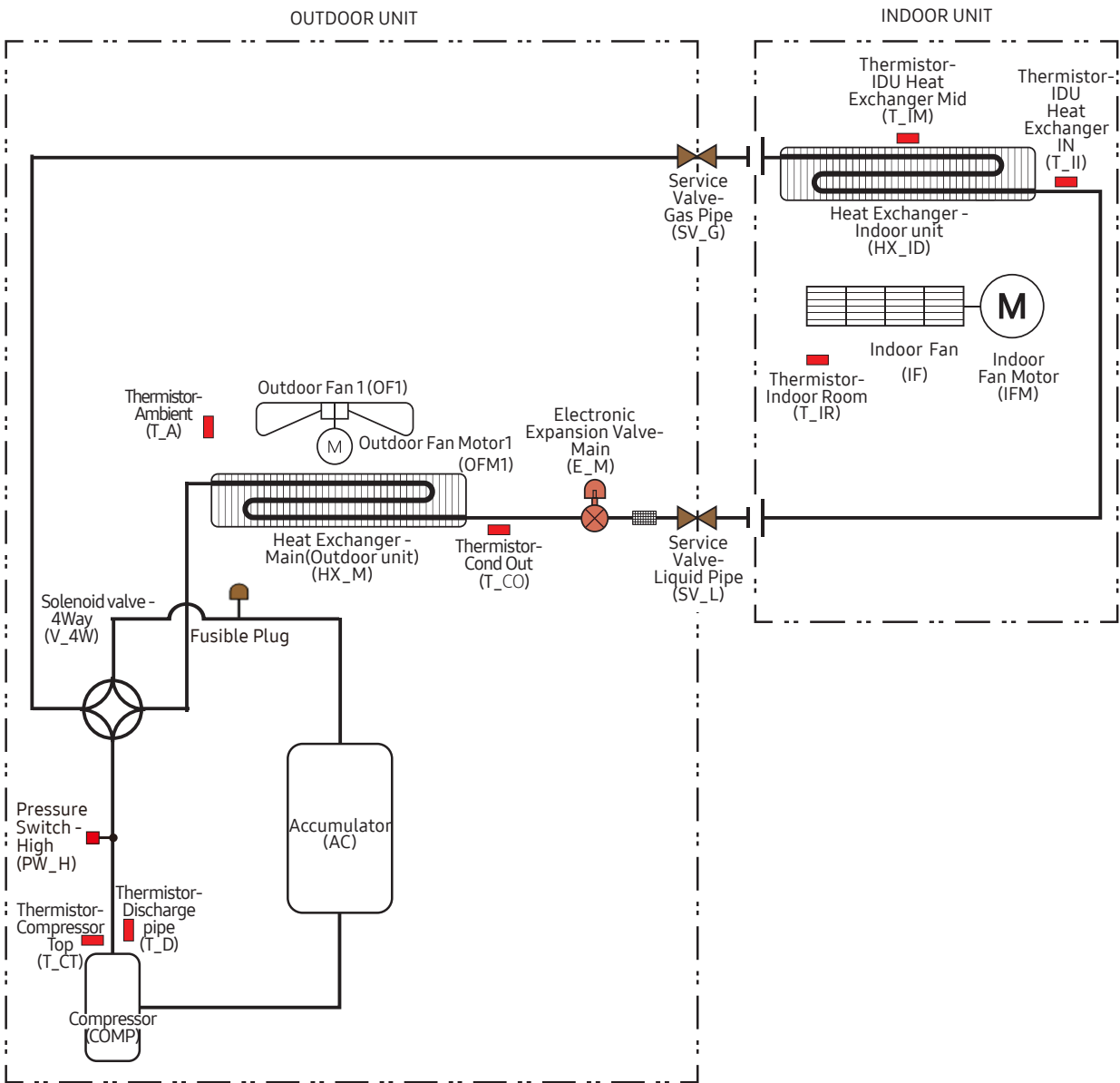
CNG18ADD (AC018DNADCG/AA) + CXG18SCD (AC018DXSCCG/AA)



8. Piping Diagram

Outdoor Units

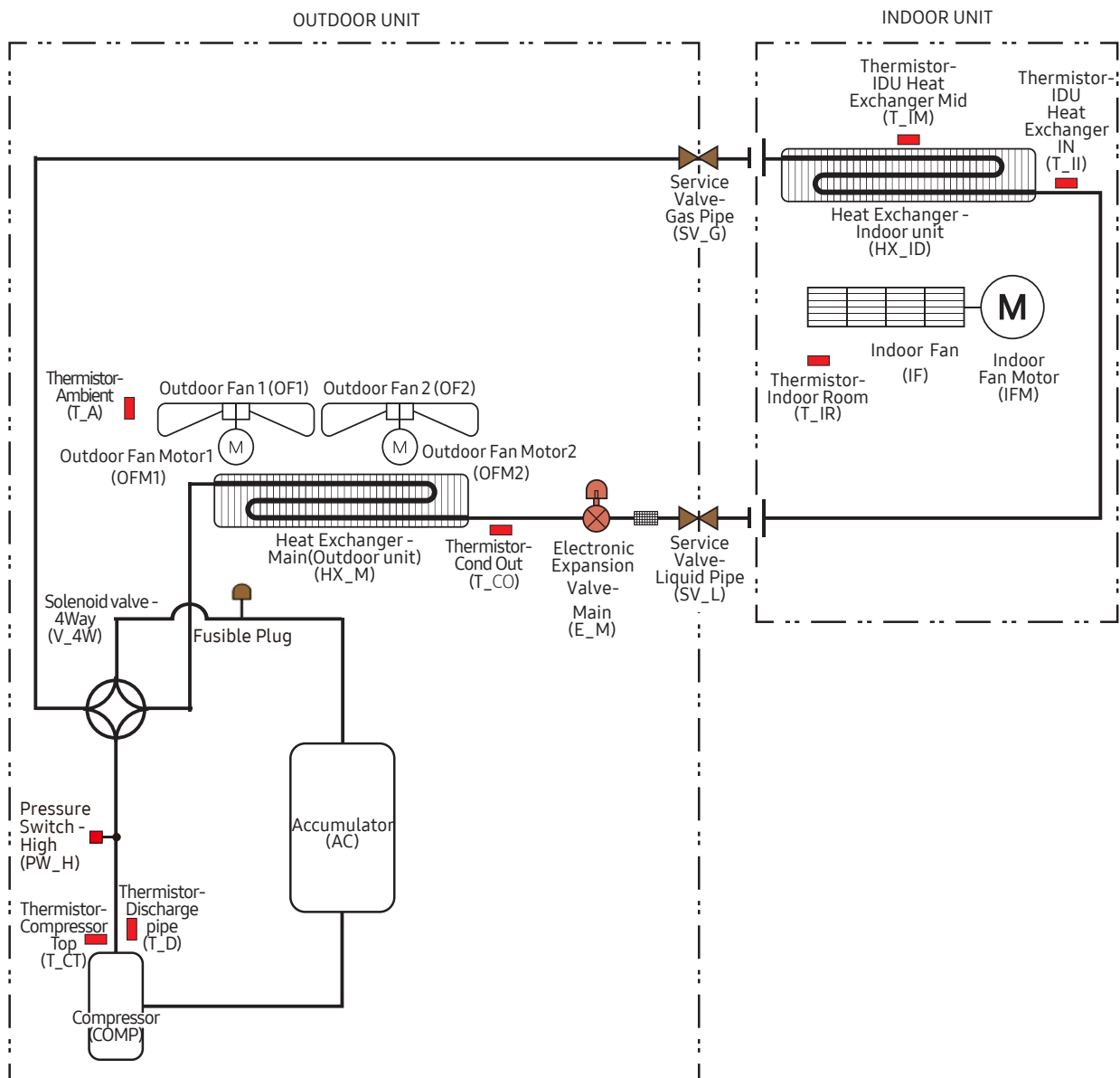
CNG24ADD (AC024DNADCG/AA) + CXG24SCD (AC024DXSCCG/AA)



8. Piping Diagram

Outdoor Units

CNG30TDD (AC030DNTDCG/AA) + CXG30SCD (AC030DXSCCG/AA)
CNG36TDD (AC036DNTDCG/AA) + CXG36SCD (AC036DXSCCG/AA)





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Ver.1.2

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