

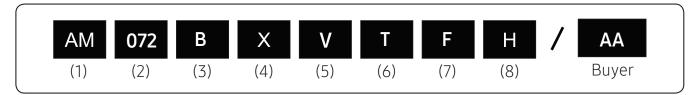
History

Version	Modification	Date	Remark
Ver.1.0	Release Max Heat DVM S2 HP TDB for America	22.06.28	
Ver.2.0	Updated the Final Specification	22.08.04	
Ver.2.1	Updated the Design Procedure & Combination Ratio page	22.12.01	

Nomenclature

Outdoor Unit

Model Name



(1) Classification

AM	DVM

(5) Feature 1

V	Inverter

(2) Capacity

kBtu/h (3 di	gits)

(6) Feature 2

Α	Standard + General Temp.+ Module
Н	High EER + Low Temp. + Module
G	High EER + General Temp. + Module
D	Standard + General Temp. + Non-Module
Т	High EER+Low Temp.+ Module

(3) Version

В	2022

(7) Rating Voltage

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

(4) Product Type

Χ	Outdoor Unit
N	Indoor Unit

(8) Mode

Н	Heat Pump	
R	Heat Recovery	

Features & Benefits



Perfectly compatible with WindFree™

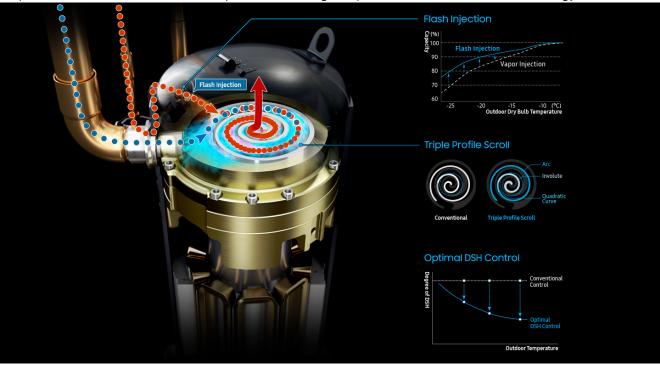


Features & Benefits

Enabling a new era of consistent comfort

Advanced Flash Injection Compressor

Enter a new era of non-stop comfort and efficiency. The Advanced Flash Injection Compressor provides the world's largest capacity*. It combines Flash Injection technology with a strengthened Triple Profile Scroll and efficient Optimal Discharge Superheat (DSH) Control technology.



^{*} Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (= 88cc x 140rps).

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1. Combination Table: Outdoor units

DVM S2HP (208~230V)

			Combined outdoor units		
Capa (Ton)	Model name for combination	Number of Individual outdoor units	COMMIN WAS A		
			072	096	120
			(6Ton)	(8Ton)	(10Ton)
6	AM072BXVTFH/AA	1	1		
8	AM096BXVTFH/AA	1		1	
10	AM120BXVTFH/AA	1			1
12	AM144BXVTFH/AA	2	2		
14	AM168BXVTFH/AA	2	1	1	
16	AM192BXVTFH/AA	2	1		1
18	AM216BXVTFH/AA	2		1	1
20	AM240BXVTFH/AA	2			2
22	AM264BXVTFH/AA	3	2		1
24	AM288BXVTFH/AA	3	1	1	1
26	AM312BXVTFH/AA	3	1		2
28	AM336BXVTFH/AA	3		1	2
30	AM360BXVTFH/AA	3			3

- Make sure to use an indoor unit that is compatible with DVM S2.
- Indoor units can be connected within the range indicated in following table.
- If the total capacity of the connected indoor units exceeds the indicated maximum capacity, cooling and heating capacity of the indoor unit may decrease.
- The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 - Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- ** You can connect maximum 64 indoor units to the outdoor unit. Maximum quantity of connectable indoor unit is set to 64 since outdoor unit only support up to 64 communication address. Indoor unit address can be assigned from 0~63. If the indoor unit address was assigned from 64~79, E201 error will occur.
- ** Maximum 32 Wall-mount type indoor units with EEV (AM*XXXNQDXXX, AMXXXNVDXXX) can be connected.

1. Combination Table: Outdoor units

DVM S2 HP (460V)

			Combined outdoor units		
Capa (Ton)	Model name for combination	Number of Individual outdoor units			
			072	096	120
			(6Ton)	(8Ton)	(10Ton)
6	AM072BXVTJH/AA	1	1		
8	AM096BXVTJH/AA	1		1	
10	AM120BXVTJH/AA	1			1
12	AM144BXVTJH/AA	2	2		
14	AM168BXVTJH/AA	2	1	1	
16	AM192BXVTJH/AA	2	1		1
18	AM216BXVTJH/AA	2		1	1
20	AM240BXVTJH/AA	2			2
22	AM264BXVTJH/AA	3	2		1
24	AM288BXVTJH/AA	3	1	1	1
26	AM312BXVTJH/AA	3	1		2
28	AM336BXVTJH/AA	3		1	2
30	AM360BXVTJH/AA	3			3

- Make sure to use an indoor unit that is compatible with DVM S2.
- Indoor units can be connected within the range indicated in following table.
- If the total capacity of the connected indoor units exceeds the indicated maximum capacity, cooling and heating capacity of the indoor unit may decrease.
- The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
 - Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- ** You can connect maximum 64 indoor units to the outdoor unit. Maximum quantity of connectable indoor unit is set to 64 since outdoor unit only support up to 64 communication address. Indoor unit address can be assigned from 0~63. If the indoor unit address was assigned from 64~79, E201 error will occur.
- ** Maximum 32 Wall-mount type indoor units with EEV (AM*XXXNQDXXX, AMXXXNVDXXX) can be connected.

1. Combination Table : Outdoor units

External Appearance

Capa [TON]	Model Name	Model	Capa [TON]	Model Name	Model
6 8 10	AM072BXVTFH/AA AM096BXVTFH/AA AM120BXVTFH/AA	Contil was in	. 22	AM264BXVTFH/AA	SANTONIO
			24 26	AM288BXVTFH/AA AM312BXVTFH/AA	
12	AM144BXVTFH/AA	SAMSUNG	28	AM336BXVTFH/AA	SAMSUNG
14	AM168BXVTFH/AA		30	AM360BXVTFH/AA	PMS Wedner
16	AM192BXVTFH/AA	DMS Wodies*			
18	AM216BXVTFH/AA				
20	AM240BXVTFH/AA				

1. Combination Table : Outdoor units

External Appearance

DVM S2 HP (460V)

Capa [TON]	Model Name	Model	Capa [TON]	Model Name	Model
6 8 10	AM072BXVTJH/AA AM096BXVTJH/AA AM120BXVTJH/AA	CONTROL WAREING	. 22	AM264BXVTJH/AA	AMERICAN CONTRACTOR OF THE PROPERTY OF THE PRO
			24 26	AM288BXVTJH/AA AM312BXVTJH/AA	
12	AM144BXVTJH/AA	SAMSUNG	28	AM336BXVTJH/AA	SAMSUNG
14	AM168BXVTJH/AA		30	AM360BXVTJH/AA	PMS Wedner
16	AM192BXVTJH/AA	DHS Wides*			COTAL WIND COST
18	AM216BXVTJH/AA				
20	AM240BXVTJH/AA	图 拍 图 拍			<u> </u>

Combination Ratio (Connection Ratio)

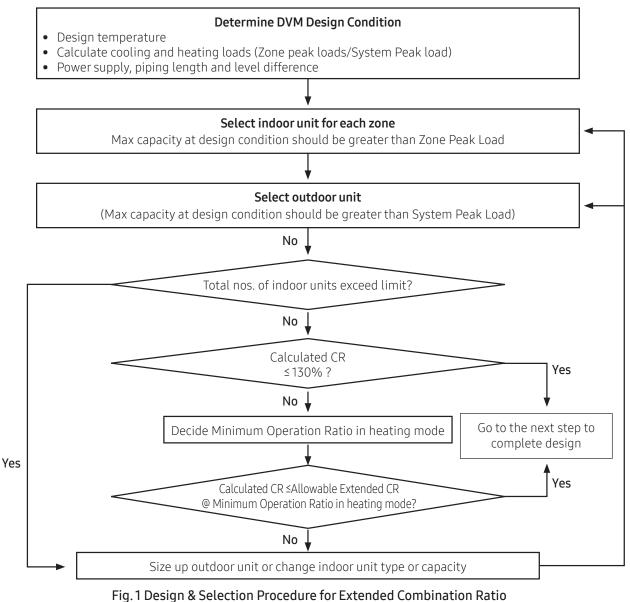
Definition of Combination Ratio, CR

CR = Sum of Nominal Cooling Capacity of Indoor units
Nominal Cooling Capacity of Outdoor unit
* 100%

Constraints of Allowable Combination Ratio

DVM S systems are normally designed to utilize a CR 50% to 130% to ensure effective load balancing between indoor units and outdoor unit. As buildings have become more insulated, and usage and occupancy of buildings are highly variable, more buildings can realize a higher load balancing between IDUs and ODU, thus higher CR (>130%) is often required. If a system design exceeds 130%, risks associated to increased indoor sound level and reduced comfort levels should be considered. Therefore, when it is necessary to design a combination ratio exceeding 130%, the following conditions must be complied with: -

Design & Selection Procedure



Combination Ratio (Connection Ratio)

Satisfying cooling & heating comfort

The Maximum Capacity of outdoor unit at design condition calculated from Samsung capacity data table or design tool (DVM Pro) should always be the same or greater than System Peak Load (Block Load) defined in table 1.

Time	Room A	Room B	Room C	Room D	Room E	Room F	Total
Tillle	Music Room	Class room	Totat				
09:00	8.4	8.0	8.4	8.0	8.4	8.6	49.8
12:00	9.2	8.8	10.8	8.6	10.8	9.8	58.0
14:00	10.0	9.6	9.6	9.6	11.4	10.8	61.0
16:00	11.0	10.6	8.8	10.8	9.6	9.6	60.4
18:00	9.4	9.0	8.8	9.0	9.0	8.4	53.6

Table 1. Example of System Peak loads

- ► Zone Peak Loads (): To satisfy the demand for each room any time
 - Sum of Zone peak Loads = 65.4kW (11.0 + 10.6 + 10.8 + 10.8 + 11.4 + 10.8)
- ▶ Block load (■): Total peak load at a given time of day.
 - Sum of Zone Peak Loads at 14:00 = 61.0kW



• When a system combination ratio is over 130%, a max system capacity is the same as the published capacity in TDB capacity table at the combination ratio of 130%

Cooling Operation Only

When only cooling operation is used, CR is allowed up to 180% if the Max Capacity of outdoor unit is greater than System Peak Load (Block load) as shown table 2.

Outdoor unit	All capacities of H/P & H/R model					
Indoor unit All indoor unit types						
Operation Condition	Cooling mode only					
Allowable CR	180%					

Table 2. Allowable CR in only cooling operation



Table 2 shows a standard for allowable CR of cooling only model. Samsung Electronics is not
responsible for any problem caused by using a heating mode at the site with a system designed by
table 2. If heating operation is required, extended CR design must follow section "Allowable CR limit to
avoid abnormal sound level risks in heating operation."

Combination Ratio (Connection Ratio)

Allowable CR limit to avoid abnormal sound level risks in heating operation

- ▶ If the CR exceeds 130%, in a specific case of heating operation, an indoor unit may have higher sound level than the level specified in the technical documents.
- ▶ In order to minimize the sound level, the system minimum operation ratio needs to be verified and considered as follows:
- * Operation Ratio(%), OR
 - Heat Pump system, H/P

OR (H/P) (%) =
$$\frac{\text{Sum of nominal capacity of indoor units running in heating mode}}{\text{Sum of nominal capacity of indoor units}} * 100%$$

• Heat Recovery system, H/R

The Minimum Operation Ratio should be determined during the project design stage using Fig. 2.

Outdoor unit	All capacities of H/P & H/R (Single, Dual and Triple Module Systems)								
Indoor unit	All indoor unit types*)	All indoor unit types*) except Wall-Mounted							
Operation Ratio	Nominal Capacity≤18kBtu/h	Nominal capacity > 18kBtu/h	All capacities						
10%	150%	158%	141%						
20%	161%	170%	155%						
30%	171%	184%	173%						



Fig. 2 Allowable CR with respect to indoor unit type as operation ratio increases

Combination Ratio (Connection Ratio)

- The minimum operation ratio should be considered during the design stage.
- If a system has a mix of unit types or capacity, the lowest extended connection ratio curve must be utilized.
- In case that a designed Minimum Operation Ratio is less than 5% or more than 30%, the Allowable Extended CR must be considered as the value at 5% and 30%, respectively.
- *)If one of following indoor unit types is included in a system, the CR cannot be extended beyond 130%.

Type of indoor unit	Limited by CR 130%		
1Way Cassette / 4Way Cassette (600 x 600)	9kBtu/h or below		
360 Cassette / Slim Duct (LSP duct)	12kBtu/h or below		
4Way Cassette	18kBtu/h or below		
Floor Standing (Exposed or Concealed)	18kBtu/h only		
Ceiling Suspended	24kBtu/h only		
Hydro unit (HE/HT)	All capacities		



• Samsung is not responsible for any issue, including abnormal noise that arises during heating operation due solely to the operation rate being lower than the designated combination ratio shown in Fig. 2. Please contact your local Samsung representative for further details if the project requires you to design the project with a connection ratio greater than 130%.

Model Name				AM072BXVTFH/AA	AM096BXVTFH/AA	AM120BXVTFH/AA
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
Outdoor unit module 3				-	-	-
	Outdoor unit module 4			_	_	_
Power Supply			Ø, #, V, Hz	3, 3, 208~230, 60	3, 3, 208~230, 60	3, 3, 208~230, 60
Mode			Ø,#, V, MZ	Heat Pump	Heat Pump	Heat Pump
1-1000	TON		TON	6	8	10
	-	Cooling	Btu/h	72,000	96,000	120,000
Performance	Capacity (Nominal)	Heating	Btu/h	81,000	108,000	135,000
		Cooling	Btu/h	69,000	92,000	114,000
	Capacity(Rated)	Heating	Btu/h	77,000	103,000	129,000
Maximum nui	mber of connectable in		EA	12	16	20
Total capacity	of the connected	Min.	Btu/h	36,000	48,000	60,000
IndoorUnits		Max.	Btu/h	93,600	124,800	156,000
_		MCA	A	50.0	62.0	76.0
Power	Current	МОР	Α	60	70	90
C!	Matarial	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Casing	Material	Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Туре		-	Fin & Tube	Fin & Tube	Fin & Tube
Heat	Matarial	Fin	-	Al	Al	Al
Exchanger	Material	Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	4.39 x 2	6.45 x 2	6.45 x 2
Compressor	Model Name		-	DS2GT7046EV* x 2	DS4GT5066EV* x 2	DS4GT5066EV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial	cc x n	900 x 2	1,100 x 2	1,100 x 2
		charge	fl oz x n	30.4 x 2	37.2 x 2	37.2 x 2
	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	2	2	2
Fan	Air Flow Rate		CFM (m³/min)	9,924 (281)	9,571 (271)	10,171 (288)
	External Static		mmAq	11	11	11
	Pressure	Max.	Pa	110	110	110
	T		in Wg (Pa)	0.43 (107.87)	0.43 (107.87)	0.43 (107.87)
Fan Motor	Туре		- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	620 x 2	620 x 2	620 x 2
	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, inch (mm)	3/8 (9.52)	3/8 (9.52)	1/2 (12.70)
	Gas Pipe		Type Φ, inch (mm)	Braze connection 3/4 (19.05)	Braze connection 7/8 (22.22)	Braze connection 1-1/8 (28.58)
	Heat Insulation		Ψ, IIICII (IIIIII)	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
Piping Connections	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
Commections	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

Model Name				AM072BXVTFH/AA	AM096BXVTFH/AA	AM120BXVTFH/AA
	Outdoor unit module 1	I		-	-	-
	Outdoor unit module 2	2		-	-	-
	Outdoor unit module 3	3		-	-	-
	Outdoor unit module 4	1		-	-	-
Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Connections	Transmissioncable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	Factory Charging II		lbs (kg)	17.6 (8.0)	23.1 (10.5)	23.1 (10.5)
	Sound Pressure	Cooling	dB(A)	55.0	57.0	59.0
Sound		Heating	dB(A)	56.0	58.0	59.0
	Sound Power dB(A)			74.0	77.0	79.0
	Net Weight lbs (kg)			553 (251)	644 (292)	644 (292)
	Shipping Weight		lbs (kg)	591 (268)	681 (309)	681 (309)
External	Net Dimensions		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
Dimension	(WxHxD)		inch	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8
	Chinning Dimensions	(M., ID.)	mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
	Shipping Dimensions (WxHxD) inch		inch	53-11/16 x 74-5/16 x 32-11/16	53-11/16 x 74-5/16 x 32-11/16	53-11/16 x 74-5/16 x 32-11/16
Operating	Cooling		°F(°C)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)



- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping: 25ft, Level differences: 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM144BXVTFH/AA	AM168BXVTFH/AA	AM192BXVTFH/AA
	Outdoor unit module 1			AM072BXVTFH/AA	AM072BXVTFH/AA	AM072BXVTFH/AA
Outdoor unit modu				AM072BXVTFH/AA	AM096BXVTFH/AA	AM120BXVTFH/AA
	Outdoor unit module 3			-	-	-
Outdoor unit module 4				_	_	-
Power Supply			Ø, #, V, Hz	3, 3, 208~230, 60	3, 3, 208~230, 60	3, 3, 208~230, 60
Mode			-	Heat Pump	Heat Pump	Heat Pump
	TON		TON	12	14	16
	C '' (N ' ' ')	Cooling	Btu/h	144,000	168,000	192,000
Performance	Capacity (Nominal)	Heating	Btu/h	162,000	189,000	216,000
	Capacity (Rated)	Cooling	Btu/h	138,000	160,000	182,000
	Capacity (Kateu)	Heating	Btu/h	154,000	180,000	206,000
	mber of connectable in		EA	25	29	33
	of the connected	Min.	Btu/h	72,000	84,000	96,000
IndoorUnits		Max.	Btu/h	187,200	218,400	249,600
Power	Current	MCA	Α	-	-	-
		МОР	A	-	-	-
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Type	Base	-	GI Steel Plate Fin & Tube	GI Steel Plate Fin & Tube	GI Steel Plate Fin & Tube
Haak	Туре	Fin	-	Al	Al	Al
Heat Exchanger	Material	Tube	-	Cu	Cu	Cu
Exchanger	Fin Treatment	Tube	_	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		_	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kWxn	(4.39 x 2) x 2	(4.39 x 2) x 1 + (6.45 x 2) x 1	(4.39 x 2) x 1 + (6.45 x 2) x 1
Compressor	Model Name		-	(DS2GT7046EV* x 2) x 2	(DS2GT7046EV* x 2) x 1 + (DS4GT5066EV* x 2) x 1	(DS2GT7046EV* x 2) x 1 + (DS4GT5066EV* x 2) x 1
	Oil	Туре	-	PVE	PVE	PVE
		Initial	cc x n	(900 x 2) x 2	(900 x 2) x 1 + (1,100 x 2) x 1	(900 x 2) x 1 + (1,100 x 2) x 1
		charge	flozxn	(30.4 x 2) x 2	(30.4 x 2) x 1 + (37.2 x 2) x 1	(30.4 x 2) x 1 + (37.2 x 2) x 1
	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		-	Тор	Тор	Тор
	Quantity		EA	4	4	4
Fan	Air Flow Rate		CFM (m³/min)	9,924 x 2 (281 x 2)	9,924 x 1 + 9,571 x 1 (281 x 1 + 271 x 1)	9,924 x 1 + 10,171 x 1 (281 x 1 + 288 x 1)
	External Static	Max.	mmAq Pa	-	-	-
	Pressure	ויומג.	in Wg (Pa)	-	-	-
	Туре		- "" wg (i a)	BLDC Motor	BLDC Motor	BLDC Motor
Fan Motor	Output		Wxn	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 2
			Туре	Braze connection	Braze connection	Braze connection
	Liquid Pipe		Φ, inch (mm)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
	C Di-		Туре	Braze connection	Braze connection	Braze connection
	Gas Pipe		Φ, inch (mm)	1-1/8 (28.58)	1-1/8 (28.58)	1-1/8 (28.58)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
D	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
Piping Connections	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

Model Name				AM144BXVTFH/AA	AM168BXVTFH/AA	AM192BXVTFH/AA
	Outdoor unit module 1			AM072BXVTFH/AA	AM072BXVTFH/AA	AM072BXVTFH/AA
	Outdoor unit module 2	2		AM072BXVTFH/AA	AM096BXVTFH/AA	AM120BXVTFH/AA
	Outdoor unit module 3	3		-	-	-
	Outdoor unit module 4	ļ		-	-	-
\\/:=:===	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Wiring Connections	TransmissionCable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	Factory Charging	Factory Charging lbs		17.6 x 2 (8.0 x 2)	17.6 x 1 + 23.1 x 1 (8.0 x 1 + 10.5 x 1)	17.6 x 1 + 23.1 x 1 (8.0 x 1 + 10.5 x 1)
	Sound Pressure	Cooling	dB(A)	58.0	59.1	60.5
Sound		Heating	dB(A)	59.0	60.1	60.8
	Sound Power	Sound Power dB(A)			78.8	80.2
	Net Weight lbs (kg			553 x 2 (251 x 2)	553 x 1 + 644 x 1 (251 x 1 + 292 x 1)	553 x 1 + 644 x 1 (251 x 1 + 292 x 1)
	Shipping Weight II		lbs (kg)	591 x 2 (268 x 2)	591 x 1 + 681 x 1 (268 x 1 + 309 x 1)	591 x 1 + 681 x 1 (268 x 1 + 309 x 1)
External	Net Dimensions	Net Dimensions		(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2
	Chinning Dimonsions	Shipping Dimensions (WxHxD) inch		(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2
	Silipping Dimensions ((53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 2
Operating	Cooling		°F(°C)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)



- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM216BXVTFH/AA	AM240BXVTFH/AA	AM264BXVTFH/AA	
	Outdoor unit module 1			AM096BXVTFH/AA	AM120BXVTFH/AA	AM072BXVTFH/AA	
	Outdoor unit module 2			AM120BXVTFH/AA	AM120BXVTFH/AA	AM072BXVTFH/AA	
	Outdoor unit module 3	;		-	-	AM120BXVTFH/AA	
Outdoor unit module 4				-	-	-	
Power Supply		<u>'</u>	Ø, #, V, Hz	3, 3, 208~230, 60	3, 3, 208~230, 60	3, 3, 208~230, 60	
Mode			-	Heat Pump	Heat Pump	Heat Pump	
	TON		TON	18	20	22	
	Composity (Nomeinal)	Cooling	Btu/h	216,000	240,000	264,000	
Performance	Capacity (Nominal)	Heating	Btu/h	243,000	270,000	297,000	
	Capacity(Rated)	Cooling	Btu/h	206,000	228,000	252,000	
	, ,	Heating	Btu/h	232,000	258,000	282,000	
	mber of connectable in		EA	37	41	45	
	of the connected	Min.	Btu/h	108,000	120,000	132,000	
IndoorUnits	T.	Max.	Btu/h	280,800	312,000	343,200	
Power	Current	MCA	A	-	-	-	
		MOP	A	CI Ctool Dista	- CLCtool Dista	- GI Steel Plate	
Casing	Material	Body Base	-	GI Steel Plate GI Steel Plate	GI Steel Plate GI Steel Plate	GI Steel Plate GI Steel Plate	
	Туре	Dase	-	Fin & Tube	Fin & Tube	Fin & Tube	
Heat	Турс	Fin	_	Al	Al	Al	
Exchanger	Material	Tube	_	Cu	Cu	Cu	
Exchange	Fin Treatment	1.555	-	Anti-corrosion	Anti-corrosion	Anti-corrosion	
	Туре		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 6	
	Output		kWxn	(6.45 x 2) x 2	(6.45 x 2) x 2	(4.39 x 2) x 2 + (6.45 x 2) x 1	
Compressor	Model Name		-	(DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 2	(DS2GT7046EV* x 2) x 2 + (DS4GT5066EV* x 2) x 1	
	Oil	Туре	-	PVE	PVE	PVE	
		Initial	cc x n	(1,100 x 2) x 2	(1,100 x 2) x 2	(900 x 2) x 2 + (1,100 x 2) x 1	
		charge	flozxn	(37.2 x 2) x 2	(37.2 x 2) x 2	(30.4 x 2) x 2 + (37.2 x 2) x 1	
	Туре		-	Propeller	Propeller	Propeller	
	Discharge direction		-	Тор	Тор	Тор	
	Quantity		EA CFM	4 9,571 x 1 + 10,171 x 1	4 10,171 x 2	6 9,924 x 2 + 10,171 x 1	
Fan	Air Flow Rate		(m³/min)	(271 x 1 + 288 x 1)	(288 x 2)	(281 x 2 + 288 x 1)	
	Futamal Statio		mmAq	-	-	-	
	External Static Pressure	Max.	Pa	-	-	-	
			in Wg (Pa)	-	-	-	
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor	
	Output		Wxn	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 3	
	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection	
			Φ, inch (mm)	5/8 (15.88)	5/8 (15.88)	3/4 (19.05) Braze connection	
	Gas Pipe		Туре Ф, inch (mm)	Braze connection 1-1/8 (28.58)	Braze connection 1-3/8 (34.92)	1-3/8 (34.92)	
	Heat Insulation		Ψ, ΠΙΟΠ (ΙΙΙΙΙΙ)	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Pipinglength (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]	
Piping Connections	Piping length (1st Branch-IDU)	Max.	ft	295	295	295	
	Total piping length (System)	Max.	ft	3,281	3,281	3,281	
	Level difference (ODU in highest position)	Max.	ft	361	361	361	
	Level difference (IDU in highest position)	Max.	ft	361	361	361	
	Level difference (IDU-IDU)	Max.	ft	164	164	164	

DVM S2 (208~230V)

Model Name				AM216BXVTFH/AA	AM240BXVTFH/AA	AM264BXVTFH/AA
	Outdoor unit module 1	1		AM096BXVTFH/AA	AM120BXVTFH/AA	AM072BXVTFH/AA
	Outdoor unit module 2	2		AM120BXVTFH/AA	AM120BXVTFH/AA	AM072BXVTFH/AA
	Outdoor unit module 3	3		-	-	AM120BXVTFH/AA
	Outdoor unit module 4	1		-	-	-
\\\!:-::	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Wiring Connections	TransmissionCable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	Factory Charging		lbs (kg)	23.1 x 2 (10.5 x 2)	23.1 x 2 (10.5 x 2)	17.6 x 2 + 23.1 x 1 (8.0 x 2 + 10.5 x 1)
	Sound Pressure	Cooling	dB(A)	61.1	62.0	61.5
Sound		Heating	dB(A)	61.5	62.0	62.0
	Sound Power dB(A)			81.1	82.0	81.1
	Net Weight lbs (kg)			644 x 2 (292 x 2)	644 x 2 (292 x 2)	553 x 2 + 644 x 1 (251 x 2 + 292 x 1)
	Shipping Weight lbs (kg)			681 x 2 (309 x 2)	681 x 2 (309 x 2)	591 x 2 + 681 x 1 (268 x 2 + 309 x 1)
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 3
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 3
	Chinning Dimonsions	Shipping Dimensions (WxHxD) inch		(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 3
	Silipping Dimensions ((53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 3
Operating	Cooling		°F(°C)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)

- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM288BXVTFH/AA	AM312BXVTFH/AA	AM336BXVTFH/AA
	Outdoor unit module 1			AM072BXVTFH/AA	AM072BXVTFH/AA	AM096BXVTFH/AA
	Outdoor unit module 2			AM096BXVTFH/AA	AM120BXVTFH/AA	AM120BXVTFH/AA
Outdoor unit module 3			AM120BXVTFH/AA	AM120BXVTFH/AA	AM120BXVTFH/AA	
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 3, 208~230, 60	3, 3, 208~230, 60	3, 3, 208~230, 60
Mode			ν,π,ν,112	Heat Pump	Heat Pump	Heat Pump
11000	TON		TON	24	26	28
		Cooling	Btu/h	288,000	312,000	336,000
Performance	Capacity (Nominal)	Heating	Btu/h	324,000	351,000	378,000
	Canacity/Dated)	Cooling	Btu/h	274,000	296,000	320,000
	Capacity (Rated)	Heating	Btu/h	308,000	334,000	360,000
Maximum nu	mber of connectable in	door units	EA	49	54	58
Total capacity	of the connected	Min.	Btu/h	144,000	156,000	168,000
IndoorUnits		Max.	Btu/h	374,400	405,600	436,800
Power	Current	MCA	A	-	-	-
		MOP	A	-	-	-
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Turne	Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Туре	Fin	-	Fin & Tube	Fin & Tube	Fin & Tube
Heat	Material	Tube	-	Al Cu	Al Cu	Al Cu
Exchanger	Fin Treatment	Tube	-	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		_	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(4.39 x 2) x 1 + (6.45 x 2) x 2	(4.39 x 2) x 1 + (6.45 x 2) x 2	(6.45 x 2) x 3
Compressor	Model Name		-	(DS2GT7046EV* x 2) x 1 + (DS4GT5066EV* x 2) x 2	(DS2GT7046EV* x 2) x 1 + (DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 3
	Oil	Туре	-	PVE	PVE	PVE
		Initial	cc x n	(900 x 2) x 1 + (1,100 x 2) x 2	(900 x 2) x 1 + (1,100 x 2) x 2	(1,100 x 2) x 3
		charge	fl oz x n	(30.4 x 2) x 1 + (37.2 x 2) x 2	(30.4 x 2) x 1 + (37.2 x 2) x 2	(37.2 x 2) x 3
	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		- EA	Тор	Тор	Тор
	Quantity	Quantity Quantity		6	6	6
Fan	Air Flow Rate	T	CFM (m³/min) mmAq	9,924 x 1 + 9,571 x 1 + 10,171 x 1 (281 x 1 + 271 x 1 + 288 x 1)	9,924 x 1 + 10,171 x 2 (281 x 1 + 288 x 2)	9,571 x 1 + 10,171 x 2 (271 x 1 + 288 x 2)
	External Static	Max.	Pa	-	<u>-</u>	-
	Pressure	i i i ax.	in Wg (Pa)	-	-	-
	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
Fan Motor	Output		Wxn	(620 x 2) x 3	(620 x 2) x 3	(620 x 2) x 3
			Туре	Braze connection	Braze connection	Braze connection
	Liquid Pipe		Φ, inch (mm)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
	Cas Dina		Туре	Braze connection	Braze connection	Braze connection
	Gas Pipe		Φ, inch (mm)	1-3/8 (34.92)	1-3/8 (34.92)	1-3/8 (34.92)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

DVM S2 (208~230V)

Model Name				AM288BXVTFH/AA	AM312BXVTFH/AA	AM336BXVTFH/AA
	Outdoor unit module 1	1		AM072BXVTFH/AA	AM072BXVTFH/AA	AM096BXVTFH/AA
	Outdoor unit module 2			AM096BXVTFH/AA	AM120BXVTFH/AA	AM120BXVTFH/AA
	Outdoor unit module 3	3		AM120BXVTFH/AA	AM120BXVTFH/AA	AM120BXVTFH/AA
	Outdoor unit module 4	1		-	-	-
\\/:=:===	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Wiring Connections	Transmissioncable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	efrigerant Factory Charging		lbs (kg)	17.6 x 1 + 23.1 x 2 (8.0 x 1 + 10.5 x 2)	17.6 x 1 + 23.1 x 2 (8.0 x 1 + 10.5 x 2)	23.1 x 3 (10.5 x 3)
	Sound Pressure	Cooling	dB(A)	62.1	62.8	63.2
Sound		Heating	dB(A)	62.6	63.0	63.5
	Sound Power		dB(A)	81.9	82.6	83.2
	Net Weight		lbs (kg)	553 x 1 + 644 x 2 (251 x 1 + 292 x 2)	553 x 1 + 644 x 2 (251 x 1 + 292 x 2)	644 x 3 (292 x 3)
	Shipping Weight		lbs (kg)	591 x 1 + 681 x 2 (268 x 1 + 309 x 2)	591 x 1 + 681 x 2 (268 x 1 + 309 x 2)	681 x 3 (309 x 3)
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 3	(51 x 66-3/4 x 30-1/8) x 3	(51 x 66-3/4 x 30-1/8) x 3
	Shipping Dimensions ((M^H^D)	mm	(1,363 x 1,887 x 829) x 3	(1,363 x 1,887 x 829) x 3	(1,363 x 1,887 x 829) x 3
	Simpling Dimensions (,vvx⊓xD)	inch	(53-11/16 x 74-5/16 x 32-11/16) x 3	(53-11/16 x 74-5/16 x 32-11/16) x 3	(53-11/16 x 74-5/16 x 32-11/16) x 3
Operating	Cooling °F(°C)		5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)

- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM360BXVTFH/AA
	Outdoor unit module 1			AM120BXVTFH/AA
	Outdoor unit module 2			AM120BXVTFH/AA
	Outdoor unit module 3			AM120BXVTFH/AA
	Outdoor unit module 4			-
Power Supply			Ø, #, V, Hz	3, 3, 208~230, 60
Mode				9, 3, 208 230, 60 Heat Pump
11000	TON		TON	30
		Cooling	Btu/h	360,000
Performance	Capacity (Nominal)	Heating	Btu/h	405,000
	Capacity (Rated)	Cooling	Btu/h	342,000
		Heating	Btu/h	386,000
	mber of connectable in	doorunits	EA	62
	of the connected	Min.	Btu/h	180,000
IndoorUnits		Max.	Btu/h	468,000
Power	Current	MCA	A	-
		МОР	Α	- CICL INI.
Casing	Material	Body Base	-	GI Steel Plate GI Steel Plate
	Type	Dase	-	Fin & Tube
Heat	Туре	Fin	-	Al
Exchanger	Material	Tube	_	Cu
Lacitatige	Fin Treatment	, use	_	Anti-corrosion
	Туре		-	Inverter Scroll x 6
	Output		kWxn	(6.45 x 2) x 3
Compressor	Model Name		-	(DS4GT5066EV* x 2) x 3
Cop. Co	Oil	Туре	-	PVE
		Initial	cc x n	(1,100 x 2) x 3
		charge	fl oz x n	(37.2 x 2) x 3
	Туре		-	Propeller
	Discharge direction		-	Тор
	Quantity		EA	6
Fan	Air Flow Rate		CFM (m/min)	10,171 x 3 (288 x 3)
	External Static		mmAq	-
	Pressure	Max.	Pa	-
	Type		in Wg (Pa)	- BLDC Motor
Fan Motor	Type Output		Wxn	(620 x 2) x 3
			Type	Braze connection
	Liquid Pipe		Φ, inch (mm)	3/4 (19.05)
			Type	Braze connection
	Gas Pipe		Φ, inch (mm)	1-5/8 (41.28)
	Heat Insulation		-	Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]
	Piping length (1st Branch-IDU)	Max.	ft	295
	Total piping length (System)	Max.	ft	3,281
	Level difference (ODU in highest position)	Max.	ft	361
	Level difference (IDU in highest position)	Max.	ft	361
	Level difference (IDU-IDU)	Max.	ft	164

Model Name				AM360BXVTFH/AA
	Outdoor unit module 1	l		AM120BXVTFH/AA
	Outdoor unit module 2	2		AM120BXVTFH/AA
	Outdoor unit module 3	3		AM120BXVTFH/AA
	Outdoor unit module	1		-
Wiring	Transmission Cable	Min.	mm²	0.75
Connections	TransmissionCable	Remark	-	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit
_	Туре		-	R410A
Refrigerant	Factory Charging		lbs (kg)	23.1 x 3 (10.5 x 3)
	Sound Pressure	Cooling	dB(A)	63.8
Sound		Heating	dB(A)	63.8
	Sound Power dB(A)			83.8
	Net Weight	let Weight lbs (k		644 x 3 (292 x 3)
	Shipping Weight		lbs (kg)	681 x 3 (309 x 3)
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 3
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 3
	Chinaina Diagonalana	(M11D)	mm	(1,363 x 1,887 x 829) x 3
	Shipping Dimensions	(WXHXD)	inch	(53-11/16 x 74-5/16 x 32-11/16) x 3
Operating	Cooling °F(°C)		°F(°C)	5 ~ 122 (-15 ~ 50)
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)



- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping: 25ft, Level differences: 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM072BXVTJH/AA	AM096BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			_	_	_
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60
Mode Supply			Ψ, #, V, ΠZ	Heat Pump	Heat Pump	Heat Pump
1-1000	TON		TON	6	8	10
	-	Cooling	Btu/h	72,000	96,000	120,000
Performance	Capacity (Nominal)	Heating	Btu/h	81,000	108,000	135,000
		Cooling	Btu/h	69,000	92,000	114,000
	Capacity (Rated)	Heating	Btu/h	77,000	103,000	129,000
Maximum nu	mber of connectable in		EA	12	16	20
	of the connected	Min.	Btu/h	36,000	48,000	60,000
Indoor Units		Max.	Btu/h	93,600	124,800	156,000
_		MCA	Α	25.0	31.0	38.0
Power	Current	МОР	А	30	35	45
C!	M-4:1	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Casing	Material	Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Туре		-	Fin & Tube	Fin & Tube	Fin & Tube
Heat	Material	Fin	-	Al	Al	Al
Exchanger	Material	Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	4.39 x 2	6.67 x 2	6.67 x 2
Compressor	Model Name		-	DS2GR7046FV* x 2	DS4GR7066FV* x 2	DS4GR7066FV* x 2
	Oil	Туре	-	PVE	PVE	PVE
		Initial	cc x n	900 x 2	1,100 x 2	1,100 x 2
		charge	flozxn	30.4 x 2	37.2 x 2	37.2 x 2
	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		- EA	Тор	Тор	Тор
	Quantity	Quantity		2	2	2
Fan	Air Flow Rate	T	CFM (m²/min)	9,924 (281)	9,571 (271)	10,171 (288)
	External Static		mmAq	11	11	11
	Pressure	Max.	Pa	110	110	110
	Tuno		in Wg (Pa)	0.43 (107.87)	0.43 (107.87) BLDC Motor	0.43 (107.87)
Fan Motor	Туре		- \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	BLDC Motor		BLDC Motor
	Output		Wxn	620 x 2 Braze connection	620 x 2 Braze connection	620 x 2 Braze connection
	Liquid Pipe		Type			
			Φ, inch (mm) Type	3/8 (9.52) Braze connection	3/8 (9.52) Braze connection	1/2 (12.70) Braze connection
	Gas Pipe		Φ, inch (mm)	3/4 (19.05)	7/8 (22.22)	1-1/8 (28.58)
	Heat Insulation		Ψ, IIICII (IIIIII)	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

DVM S2 (460V)

Model Name				AM072BXVTJH/AA	AM096BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 1	l		-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3	3		-	-	-
	Outdoor unit module 4	1		-	-	-
Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Connections	TransmissionCable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	efrigerant Factory Charging		lbs (kg)	17.6 (8.0)	23.1 (10.5)	23.1 (10.5)
	Sound Pressure	Cooling	dB(A)	55.0	57.0	59.0
Sound		Heating	dB(A)	56.0	58.0	59.0
	Sound Power		dB(A)	74.0	77.0	79.0
	Net Weight		lbs (kg)	571 (259)	661 (300)	661 (300)
	Shipping Weight		lbs (kg)	608 (276)	699 (317)	699 (317)
External	Net Dimensions		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
Dimension	(WxHxD)		inch	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8
	Chinning Dimonsis as	mm			1,363 x 1,887 x 829	1,363 x 1,887 x 829
	Shipping Dimensions ((WXHXD)	inch	53-11/16 x 74-5/16 x 32-11/16	53-11/16 x 74-5/16 x 32-11/16	53-11/16 x 74-5/16 x 32-11/16
Operating	Cooling °F(°C)		5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)

- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping: 25ft, Level differences: 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM144BXVTJH/AA	AM168BXVTJH/AA	AM192BXVTJH/AA
	Outdoor unit module 1			AM072BXVTJH/AA	AM072BXVTJH/AA	AM072BXVTJH/AA
	Outdoor unit module 2			AM072BXVTJH/AA	AM096BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60
Mode			-	Heat Pump	Heat Pump	Heat Pump
	TON		TON	12	14	16
	c '' () ' ' '	Cooling	Btu/h	144,000	168,000	192,000
Performance	Capacity (Nominal)	Heating	Btu/h	162,000	189,000	216,000
	Capacity (Rated)	Cooling	Btu/h	138,000	160,000	182,000
	Capacity (Kateu)	Heating	Btu/h	154,000	180,000	206,000
	mber of connectable in		EA	25	29	33
	of the connected	Min.	Btu/h	72,000	84,000	96,000
IndoorUnits		Max.	Btu/h	187,200	218,400	249,600
Power	Current	MCA	A	-	-	-
		MOP	A	-	-	-
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Type	Base	-	GI Steel Plate Fin & Tube	GI Steel Plate Fin & Tube	GI Steel Plate Fin & Tube
Haak	Туре	Fin	-	Al	Al	Al
Heat Exchanger	Material	Tube	_	Cu	Cu	Cu
Exchanger	Fin Treatment	Tube	_	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		_	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kWxn	(4.39 x 2) x 2	(4.39 x 2) x 1 + (6.67 x 2) x 1	(4.39 x 2) x 1 + (6.67 x 2) x 1
Compressor	Model Name		-	(DS2GR7046FV* x 2) x 2	(DS2GR7046FV* x 2) x 1 + (DS4GR7066FV* x 2) x 1	(DS2GR7046FV* x 2) x 1 + (DS4GR7066FV* x 2) x 1
·	Oil	Туре	-	PVE	PVE	PVE
		Initial	cc x n	(900 x 2) x 2	(900 x 2) x 1 + (1,100 x 2) x 1	(900 x 2) x 1 + (1,100 x 2) x 1
		charge	fl oz x n	(30.4 x 2) x 2	(30.4 x 2) x 1 + (37.2 x 2) x 1	(30.4 x 2) x 1 + (37.2 x 2) x 1
	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		- EA	Тор	Тор	Тор
	Quantity	Quantity		4	4	4
Fan	Air Flow Rate	Air Flow Rate		9,924 x 2 (281 x 2)	9,924 x 1 + 9,571 x 1 (281 x 1 + 271 x 1)	9,924 x 1 + 10,171 x 1 (281 x 1 + 288 x 1)
	External Static	Max.	mmAq Pa	-	-	-
	Pressure	ויומג.	in Wg (Pa)	-	-	-
	Туре			BLDC Motor	BLDC Motor	BLDC Motor
Fan Motor	Output		Wxn	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 2
			Туре	Braze connection	Braze connection	Braze connection
	Liquid Pipe		Φ, inch (mm)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
	Cooping		Туре	Braze connection	Braze connection	Braze connection
	Gas Pipe		Φ, inch (mm)	1-1/8 (28.58)	1-1/8 (28.58)	1-1/8 (28.58)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

DVM S2 (460V)

Model Name			AM144BXVTJH/AA	AM168BXVTJH/AA	AM192BXVTJH/AA	
	Outdoor unit module 1]		AM072BXVTJH/AA	AM072BXVTJH/AA	AM072BXVTJH/AA
	Outdoor unit module 2			AM072BXVTJH/AA	AM096BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 3	3		-	-	-
	Outdoor unit module 4	1		-	-	-
		Min.	mm²	0.75	0.75	0.75
Wiring	Transmission Cable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	gerant Factory Charging		lbs (kg)	17.6 x 2 (8.0 x 2)	17.6 x 1 + 23.1 x 1 (8.0 x 1 + 10.5 x 1)	17.6 x 1 + 23.1 x 1 (8.0 x 1 + 10.5 x 1)
	Sound Pressure	Cooling	dB(A)	58.0	59.1	60.5
Sound		Heating	dB(A)	59.0	60.1	60.8
	Sound Power		dB(A)	77.0	78.8	80.2
	Net Weight		lbs (kg)	571 x 2 (259 x 2)	571 x 1 + 661 x 1 (259 x 1 + 300 x 1)	571 x 1 + 661 x 1 (259 x 1 + 300 x 1)
	Shipping Weight		lbs (kg)	608 x 2 (276 x 2)	608 x 1 + 699 x 1 (276 x 1 + 317 x 1)	608 x 1 + 699 x 1 (276 x 1 + 317 x 1)
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2
	Chinning Dimensions	(WyllyD)	mm	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2
	Shipping Dimensions ((VXHXU)	inch	(53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 2
Operating	Cooling °F(°C)		5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)

- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping : 25ft, Level differences : 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM216BXVTJH/AA	AM240BXVTJH/AA	AM264BXVTJH/AA
	Outdoor unit module 1			AM096BXVTJH/AA	AM120BXVTJH/AA	AM072BXVTJH/AA
	Outdoor unit module 2			AM120BXVTJH/AA	AM120BXVTJH/AA	AM072BXVTJH/AA
	Outdoor unit module 3			-	-	AM120BXVTJH/AA
	Outdoor unit module 4			_	_	_
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60
Mode				Heat Pump	Heat Pump	Heat Pump
	TON		TON	18	20	22
		Cooling	Btu/h	216,000	240,000	264,000
Performance	Capacity (Nominal)	Heating	Btu/h	243,000	270,000	297,000
	Canacity/Dated)	Cooling	Btu/h	206,000	228,000	252,000
	Capacity (Rated)	Heating	Btu/h	232,000	258,000	282,000
Maximum nu	mber of connectable in	door units	EA	37	41	45
Total capacity	of the connected	Min.	Btu/h	108,000	120,000	132,000
IndoorUnits		Max.	Btu/h	280,800	312,000	343,200
Power	Current	MCA	Α	-	-	-
		MOP	Α	-	-	-
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Туре	F:	-	Fin & Tube	Fin & Tube	Fin & Tube
Heat	Material	Fin Tube	-	Al Cu	Al Cu	Al Cu
Exchanger	Fin Treatment	Tube	-	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		_	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 6
	Output		kWxn	(6.67 x 2) x 2	(6.67 x 2) x 2	(4.39 x 2) x 2 + (6.67 x 2) x 1
Compressor	Model Name		-	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 2	(DS2GR7046FV* x 2) x 2 + (DS4GR7066FV* x 2) x 1
сор. соос.		Туре	-	PVE	PVE	PVE
	Oil	Initial	cc x n	(1,100 x 2) x 2	(1,100 x 2) x 2	(900 x 2) x 2 + (1,100 x 2) x 1
		charge	flozxn	(37.2 x 2) x 2	(37.2 x 2) x 2	(30.4 x 2) x 2 + (37.2 x 2) x 1
	Туре		-	Propeller	Propeller	Propeller
	Discharge direction		- EA	Тор	Тор	Тор
	Quantity	uantity		4	4	6
Fan	Air Flow Rate	Air Flow Rate		9,571 x 1 + 10,171 x 1 (271 x 1 + 288 x 1)	10,171 x 2 (288 x 2)	9,924 x 2 + 10,171 x 1 (281 x 2 + 288 x 1)
	External Static	Max.	mmAq Pa	-	-	-
	Pressure	Max.	in Wg (Pa)	-	-	-
	Туре		iii wy (Fa)	BLDC Motor	BLDC Motor	BLDC Motor
Fan Motor	Output		Wxn	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 3
			Туре	Braze connection	Braze connection	Braze connection
	Liquid Pipe		Φ, inch (mm)	5/8 (15.88)	5/8 (15.88)	3/4 (19.05)
	G D:		Type	Braze connection	Braze connection	Braze connection
	Gas Pipe		Φ, inch (mm)	1-1/8 (28.58)	1-3/8 (34.92)	1-3/8 (34.92)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

Model Name				AM216BXVTJH/AA	AM240BXVTJH/AA	AM264BXVTJH/AA
	Outdoor unit module 1	I		AM096BXVTJH/AA	AM120BXVTJH/AA	AM072BXVTJH/AA
	Outdoor unit module 2			AM120BXVTJH/AA	AM120BXVTJH/AA	AM072BXVTJH/AA
	Outdoor unit module 3	3		-	-	AM120BXVTJH/AA
	Outdoor unit module 4	1		-	-	-
Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Wiring Connections	TransmissionCable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	Refrigerant Factory Charging		lbs (kg)	23.1 x 2 (10.5 x 2)	23.1 x 2 (10.5 x 2)	17.6 x 2 + 23.1 x 1 (8.0 x 2 + 10.5 x 1)
	Sound Pressure	Cooling	dB(A)	61.1	62.0	61.5
Sound		Heating	dB(A)	61.5	62.0	62.0
	Sound Power		dB(A)	81.1	82.0	81.1
	Net Weight		lbs (kg)	661 x 2 (300 x 2)	661 x 2 (300 x 2)	571 x 2 + 661 x 1 (259 x 2 + 300 x 1)
	Shipping Weight	Shipping Weight		699 x 2 (317 x 2)	699 x 2 (317 x 2)	608 x 2 + 699 x 1 (276 x 2 + 317 x 1)
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 3
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 3
	Chinning Dimonsions	(WyHyD)	mm	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 3
	Shipping Dimensions ((VVXIIXD)	inch	(53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 2	(53-11/16 x 74-5/16 x 32-11/16) x 3
Operating	Cooling °F(°C)		5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)



- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping: 25ft, Level differences: 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM288BXVTJH/AA	AM312BXVTJH/AA	AM336BXVTJH/AA
	Outdoor unit module 1			AM072BXVTJH/AA	AM072BXVTJH/AA	AM096BXVTJH/AA
	Outdoor unit module 2			AM096BXVTJH/AA	AM120BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 3			AM120BXVTJH/AA	AM120BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 4			_	-	-
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60
Mode	<u> </u>			Heat Pump	Heat Pump	Heat Pump
11000	TON		TON	24	26	28
		Cooling	Btu/h	288,000	312,000	336,000
Performance	Capacity (Nominal)	Heating	Btu/h	324,000	351,000	378,000
	C:t(D-+1)	Cooling	Btu/h	274,000	296,000	320,000
	Capacity (Rated)	Heating	Btu/h	308,000	334,000	360,000
Maximum nu	mber of connectable in	door units	EA	49	54	58
Total capacity	of the connected	Min.	Btu/h	144,000	156,000	168,000
Indoor Units		Max.	Btu/h	374,400	405,600	436,800
Power	Current	MCA	Α	-	-	-
TOWEI	Current	МОР	Α	-	-	-
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
	Туре	1	-	Fin & Tube	Fin & Tube	Fin & Tube
Heat	Material	Fin	-	Al	Al	Al
Exchanger		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
	Туре		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(4.39 x 2) x 1 + (6.67 x 2) x 2	(4.39 x 2) x 1 + (6.67 x 2) x 2	(6.67 x 2) x 3
Compressor	Model Name		-	(DS2GR7046FV* x 2) x 1 + (DS4GR7066FV* x 2) x 2	(DS2GR7046FV* x 2) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 3
	Oil	Туре	-	PVE	PVE	PVE
		Initial	cc x n	(900 x 2) x 1 + (1,100 x 2) x 2	(900 x 2) x 1 + (1,100 x 2) x 2	(1,100 x 2) x 3
	_	charge	flozxn	(30.4 x 2) x 1 + (37.2 x 2) x 2	(30.4 x 2) x 1 + (37.2 x 2) x 2	(37.2 x 2) x 3
	Type		-	Propeller	Propeller	Propeller
	Discharge direction		EA	Top 6	Top 6	Тор 6
	Quantity		CFM	9,924 x 1 + 9,571 x 1 + 10,171 x 1	9,924 x 1 + 10,171 x 2	9,571 x 1 + 10,171 x 2
Fan	Air Flow Rate		(m/min)	(281 x 1 + 271 x 1 + 288 x 1)	(281 x 1 + 288 x 2)	(271 x 1 + 288 x 2)
	External Static		mmAq	-	-	-
	Pressure	Max.	Pa	-	-	-
			in Wg (Pa)	-	-	-
Fan Motor	Туре		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		Wxn	(620 x 2) x 3	(620 x 2) x 3	(620 x 2) x 3
	Liquid Pipe		Туре	Braze connection	Braze connection	Braze connection
			Φ, inch (mm)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
	Gas Pipe		Туре Ф, inch (mm)	Braze connection 1-3/8 (34.92)	Braze connection 1-3/8 (34.92)	Braze connection 1-3/8 (34.92)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.]	ft	656 [722]	656 [722]	656 [722]
	Piping length (1st Branch-IDU)	Max.	ft	295	295	295
	Total piping length (System)	Max.	ft	3,281	3,281	3,281
	Level difference (ODU in highest position)	Max.	ft	361	361	361
	Level difference (IDU in highest position)	Max.	ft	361	361	361
	Level difference (IDU-IDU)	Max.	ft	164	164	164

DVM S2 (460V)

Model Name				AM288BXVTJH/AA	AM312BXVTJH/AA	AM336BXVTJH/AA
	Outdoor unit module 1	1		AM072BXVTJH/AA	AM072BXVTJH/AA	AM096BXVTJH/AA
	Outdoor unit module 2	2		AM096BXVTJH/AA	AM120BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 3	3		AM120BXVTJH/AA	AM120BXVTJH/AA	AM120BXVTJH/AA
	Outdoor unit module 4	4		-	-	-
Wiring	Transmission Cable	Min.	mm²	0.75	0.75	0.75
Connections	TransmissionCable	Remark	-	F1, F2	F1, F2	F1, F2
Connections	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
	Туре		-	R410A	R410A	R410A
Refrigerant	gerant Factory Charging		lbs (kg)	17.6 x 1 + 23.1 x 2 (8.0 x 1 + 10.5 x 2)	17.6 x 1 + 23.1 x 2 (8.0 x 1 + 10.5 x 2)	23.1 x 3 (10.5 x 3)
	Sound Pressure	Cooling	dB(A)	62.1	62.8	63.2
Sound		Heating	dB(A)	62.6	63.0	63.5
	Sound Power		dB(A)	81.9	82.6	83.2
	Net Weight		lbs (kg)	571 x 1 + 661 x 2 (259 x 1 + 300 x 2)	571 x 1 + 661 x 2 (259 x 1 + 300 x 2)	661 x 3 (300 x 3)
	Shipping Weight		lbs (kg)	608 x 1 + 699 x 2 (276 x 1 + 317 x 2)	608 x 1 + 699 x 2 (276 x 1 + 317 x 2)	699 x 3 (317 x 3)
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3	(1,295 x 1,695 x 765) x 3
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 3	(51 x 66-3/4 x 30-1/8) x 3	(51 x 66-3/4 x 30-1/8) x 3
	Shipping Dimensions	CI :			(1,363 x 1,887 x 829) x 3	(1,363 x 1,887 x 829) x 3
	Simpling Dimensions ((WXIIXD)	inch	(53-11/16 x 74-5/16 x 32-11/16) x 3	(53-11/16 x 74-5/16 x 32-11/16) x 3	(53-11/16 x 74-5/16 x 32-11/16) x 3
Operating	Cooling °F(°C)		5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	5 ~ 122 (-15 ~ 50)	
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)	-22 ~ 75 (-30 ~ 24)

- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping: 25ft, Level differences: 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- 6) Sound power level is an absolute value that a sound source generates.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound values are obtained in an anechoic room.
 - Sound values of multi comvination are theoretical values based on sound results of individual installed units.
- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

Model Name				AM360BXVTJH/AA
	Outdoor unit module 1			AM120BXVTJH/AA
	Outdoor unit module 2			AM120BXVTJH/AA
	Outdoor unit module 3			AM120BXVTJH/AA
	Outdoor unit module 4			-
Power Supply		•	Ø, #, V, Hz	3, 3, 460, 60
Mode				Heat Pump
	TON		TON	30
	6	Cooling	Btu/h	360,000
Performance	Capacity (Nominal)	Heating	Btu/h	405,000
	Capacity (Rated)	Cooling	Btu/h	342,000
		Heating	Btu/h	386,000
	mber of connectable in		EA	62
	of the connected	Min.	Btu/h	180,000
IndoorUnits		Max.	Btu/h	468,000
Power	Current	MCA	A	-
		MOP	A -	- GI Steel Plate
Casing	Material	Body Base	_	GI Steel Plate
	Туре	Dase	_	Fin & Tube
Heat		Fin	_	Al
Exchanger	Material	Tube	-	Cu
	Fin Treatment	-	-	Anti-corrosion Anti-corrosion
	Туре		-	Inverter Scroll x 6
	Output		kW x n	(6.67 x 2) x 3
Compressor	Model Name		-	(DS4GR7066FV* x 2) x 3
	Oil	Туре	-	PVE
		Initial	cc x n	(1,100 x 2) x 3
	_	charge	fl oz x n	(37.2 x 2) x 3
	Туре		-	Propeller
	Discharge direction		EA	
	Quantity		CFM	
Fan	Air Flow Rate		(㎡/min)	10,171 x 3 (288 x 3)
	External Static		mmAq	-
	Pressure	Max.	Pa	-
	_		in Wg (Pa)	-
Fan Motor	Туре		-	BLDC Motor
	Output		W x n Type	(620 x 2) x 3 Braze connection
	Liquid Pipe		Φ, inch (mm)	3/4 (19.05)
			Type	Braze connection
	Gas Pipe		Φ, inch (mm)	1-5/8 (41.28)
	HeatInsulation		-	Both liquid and gas pipes
	Pipinglength Max. (ODU-IDU) [Equiv.]		ft	656 [722]
Piping Connections	Piping length (1st Branch-IDU)	Max.	ft	295
	Total piping length (System)	Max.	ft	3,281
	Level difference (ODU in highest position)	Max.	ft	361
	Level difference (IDU in highest position) Level difference	Max.	ft	361
	(IDU-IDU)	Max.	ft	164

DVM S2 (460V)

Model Name				AM360BXVTJH/AA					
	Outdoor unit module	1		AM120BXVTJH/AA					
	Outdoor unit module ?	2		AM120BXVTJH/AA					
	Outdoor unit module:	3		AM120BXVTJH/AA					
	Outdoor unit module	4		-					
Wiring	Transmission Cable	Min.	mm²	0.75					
Connections	Transmissioncable	Remark	-	F1, F2					
Connections	Power supply intake		-	Both indoor and outdoor unit					
_	Туре		-	R410A					
Refrigerant	Factory Charging		lbs (kg)	23.1 x 3 (10.5 x 3)					
	Sound Pressure	Cooling	dB(A)	63.8					
Sound		Heating	dB(A)	63.8					
	Sound Power dB(A			83.8					
	Net Weight		lbs (kg)	661 x 3 (300 x 3)					
	Shipping Weight		lbs (kg)	699 x 3 (317 x 3)					
External	Net Dimensions		mm	(1,295 x 1,695 x 765) x 3					
Dimension	(WxHxD)		inch	(51 x 66-3/4 x 30-1/8) x 3					
	Chinaina Diagonalana	() () () () () () () () () () () () () (mm	(1,363 x 1,887 x 829) x 3					
	Shipping Dimensions	(WXHXD)	inch	(53-11/16 x 74-5/16 x 32-11/16) x 3					
Operating	Cooling		°F(°C)	5 ~ 122 (-15 ~ 50)					
Temp. Range	Heating		°F(°C)	-22 ~ 75 (-30 ~ 24)					

- · Specification may be subject to change without prior notice.
- Specification comply with EN14511.
- 1) Nominal capacities are based on (Equivalent refrigerant piping: 25ft, Level differences: 0ft);
- Cooling : Indoor temperature 80°F DB, 67°F WB / Outdoor temperature 95°F DB, 75°F WB
- Heating : Indoor temperature 70°F DB, 60°F WB / Outdoor temperature 47°F DB, 43°F WB
- 2) The standard allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%. Combination ratio of up to 184% is allowed depending on operation mode, minimum operation ratio and connected indoor unit models. DVM Pro 2 design software supports designing over 130% based on system design. Refer to the "Design Procedure & Combination Ratio" section of this document for details
- 3) Ilf outdoor unit is located in a higher position than indoor unit, level difference is 361ft or under.
 - (If the level difference is higher than 164ft, the PDM kit should be installed)
 - *PDM kit: Pressure Drop Modulation kit
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
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- 7) Cooling operation is possible at -15°C(5°F) or higher if satisfied following conditions.
 - (If the outdoor temperature below -5°C(23°F), wind(snow) protection duct must be installed on the suction side of the heat exchanger and at least 50%capacity of the connected indoor units must be operated.) However, if the outdoor unit is installed below the indoor unit, cooling operation is possible only at -5°C(23°F) or higher.
- 8) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- For more information regarding capacity correction, please refer to capacity tables available at www.SamsungHVAC.com/downloads.

3. Electric Characteristics

DVM S2 (208~230V)

Canacity	Model Name	Power Supply		Module #1				Module #2				Module #3			
Capacity				FLA[A]		MCA	МОР	FLA[A]		MCA	МОР	FLA[A]		MCA	МОР
TON		Hz	Voltage	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]
6	AM072BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	-	-	-	-	-	-	-	-
8	AM096BXVTFH/AA	60	208~230	4.2	4.2	62.0	70.0	-	-	-	-	-	-	-	-
10	AM120BXVTFH/AA	60	208~230	4.2	4.2	76.0	90.0	-	-	-	-	-	-	-	-
12	AM144BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	4.2	4.2	50.0	60.0	-	-	-	-
14	AM168BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	4.2	4.2	62.0	70.0	-	-	-	-
16	AM192BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	4.2	4.2	76.0	90.0	-	-	-	-
18	AM216BXVTFH/AA	60	208~230	4.2	4.2	62.0	70.0	4.2	4.2	76.0	90.0	-	-	-	-
20	AM240BXVTFH/AA	60	208~230	4.2	4.2	76.0	90.0	4.2	4.2	76.0	90.0	-	-	-	-
22	AM264BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	4.2	4.2	50.0	60.0	4.2	4.2	76.0	90.0
24	AM288BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	4.2	4.2	62.0	70.0	4.2	4.2	76.0	90.0
26	AM312BXVTFH/AA	60	208~230	4.2	4.2	50.0	60.0	4.2	4.2	76.0	90.0	4.2	4.2	76.0	90.0
28	AM336BXVTFH/AA	60	208~230	4.2	4.2	62.0	70.0	4.2	4.2	76.0	90.0	4.2	4.2	76.0	90.0
30	AM360BXVTFH/AA	60	208~230	4.2	4.2	76.0	90.0	4.2	4.2	76.0	90.0	4.2	4.2	76.0	90.0

DVM S2 (460V)

Canacity		Power Supply		Module #1				Module #2				Module #3			
Capacity	Model Name			FLA[A]		MCA	МОР	FLA[A]		MCA	МОР	FLA[A]		MCA	МОР
TON		Hz	Voltage	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]	FAN1	FAN2	[A]	[A]
6	AM072BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	-	-	-	-	-	-	-	-
8	AM096BXVTJH/AA	60	460	2.1	2.1	31.0	35.0	-	-	-	-	-	-	-	-
10	AM120BXVTJH/AA	60	460	2.1	2.1	38.0	45.0	=	=	-	-	-	-	-	-
12	AM144BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	2.1	2.1	25.0	30.0	-	-	-	-
14	AM168BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	2.1	2.1	31.0	35.0	-	-	-	-
16	AM192BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	2.1	2.1	38.0	45.0	-	-	-	-
18	AM216BXVTJH/AA	60	460	2.1	2.1	31.0	35.0	2.1	2.1	38.0	45.0	-	-	-	-
20	AM240BXVTJH/AA	60	460	2.1	2.1	38.0	45.0	2.1	2.1	38.0	45.0	-	-	-	-
22	AM264BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	2.1	2.1	25.0	30.0	2.1	2.1	38.0	45.0
24	AM288BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	2.1	2.1	31.0	35.0	2.1	2.1	38.0	45.0
26	AM312BXVTJH/AA	60	460	2.1	2.1	25.0	30.0	2.1	2.1	38.0	45.0	2.1	2.1	38.0	45.0
28	AM336BXVTJH/AA	60	460	2.1	2.1	31.0	35.0	2.1	2.1	38.0	45.0	2.1	2.1	38.0	45.0
30	AM360BXVTJH/AA	60	460	2.1	2.1	38.0	45.0	2.1	2.1	38.0	45.0	2.1	2.1	38.0	45.0

■ NOTE

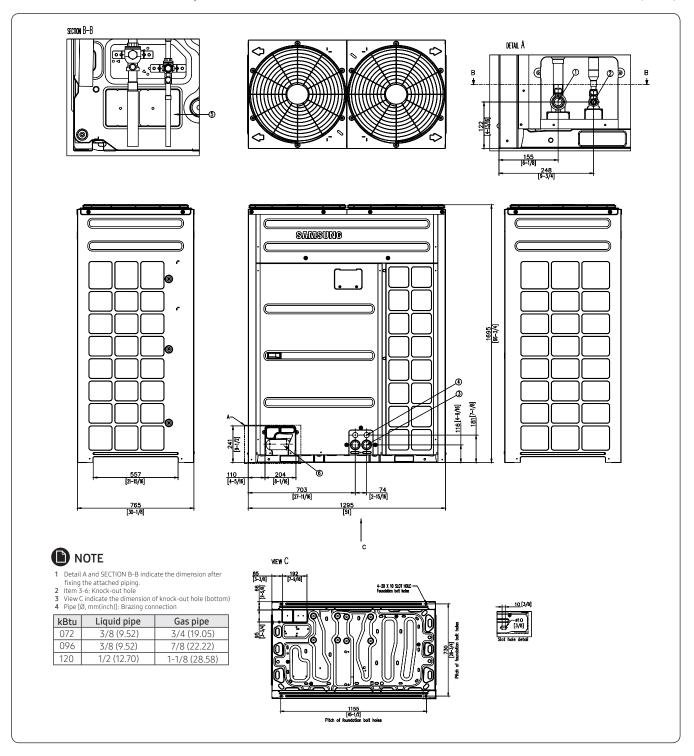
- Voltage Tolerance is ± 10%
- Maximum allowable voltage between phases is 2%
- Refer to module combination table for independent units information
- FLA : Full Load Ampere
- MCA: Minimum Circuit Ampere (A)
- MOP: Maximum Overcurrent Protective Device (A)

4. Dimensional Drawing

Outdoor unit

AM072/096/120BXVTFH/AA, AM072/096/120BXVTJH/AA

Unit: mm (inches)

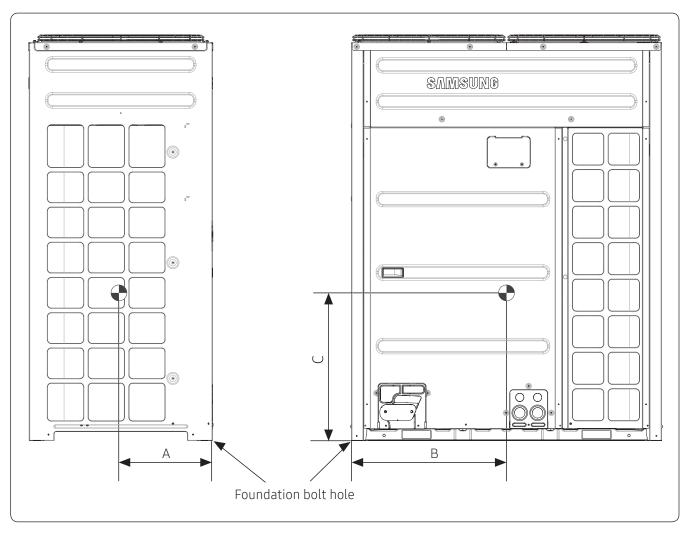


NO	Table of descriptions	Table of descriptions Remark		Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

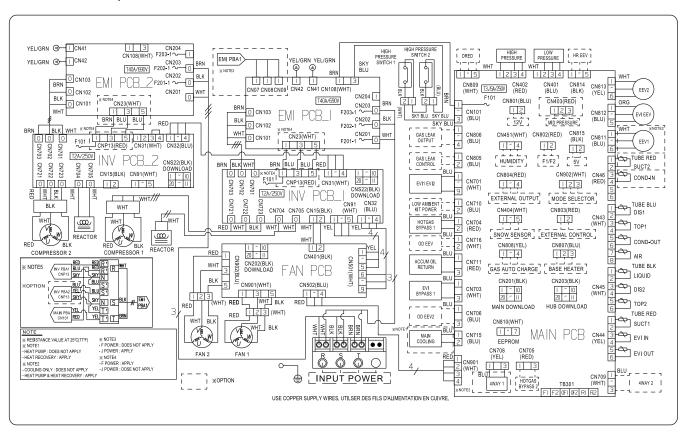


Model	А	В	С
AM072BXVT*H/AA AM096BXVT*H/AA AM120BXVT*H/AA	324 [12 - 3/4]	520 [20 - 1/2]	678 [26 - 11/16]

6. Electrical Wiring Diagrams

Outdoor unit

AM072BXVTFH/AA, AM072/096/120BXVTJH/AA



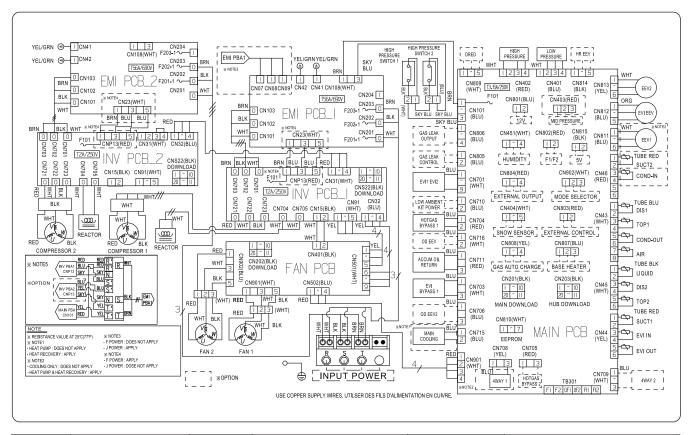
INV PCB1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter2)	EEV2	Electronic expansion valve 2	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (emi1)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
EMI PCB2	Printed circuit board (emi2)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	4WAY1 V/V	Solenoid valve (4 Way valve1)
FAN PCB	Printed circuit board (fan motor)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	4WAY2 V/V	Solenoid valve (4 Way valve2)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
COMPRSSOR1	Motor (compressor1)	COND IN(10K)	Thermistor (Cond In Temp10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
COMPRSSOR2	Motor (compressor2)	AIR(10K)	Thermistor (Ambient Temp10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Cond Out Temp10Kohm)	F101	FUSE (INV PCB)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	690V/40A	FUSE (EMI PCB)
EVI V/V1	Solenode valve (EVI1)	TOP2(200K)	Thermistor (Compressor Top 2200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
EVI V/V2	Solenode valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
SNOW SENSOR	SNOW SENSOR	LIQUID(10K)	Thermistor (Liquid Tube Temp10Kohm)		

- 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

6. Electrical Wiring Diagrams

Outdoor unit

AM096/120BXVTFH/AA



INV PCB1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter1)	EEV2	Electronic expansion valve 2	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (inverter2)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
EMI PCB2	Printed circuit board (emi1)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	4WAY1 V/V	Solenoid valve (4 Way valve1)
FAN PCB	Printed circuit board (emi2)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	4WAY2 V/V	Solenoid valve (4 Way valve2)
FAN PCB	Printed circuit board (fan motor)	SUCT1(10K)	Thermistor (Suction Temp.2_10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Cond In Temp10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
COMPRSSOR1	Motor (compressor1)	COND IN(10K)	Thermistor (Ambient Temp10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
COMPRSSOR2	Motor (compressor2)	AIR(10K)	Thermistor (Cond Out Temp10Kohm)	F101	FUSE (INV PCB)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Compressor Top 1_200Kohm)	690V/56A	FUSE (EMI PCB)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 2_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
EVI V/V1	Solenode valve (EVI1)	TOP2(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
EVI V/V2	Solenode valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.2_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Liquid Tube Temp10Kohm)		
SNOW SENSOR	SNOW SENSOR	LIQUID(10K)	Thermistor (Liquid Tube Temp10Kohm)		

- 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

Sound Pressure level

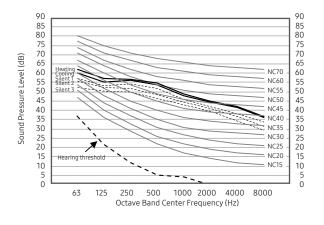
Microphone 1m Front

Unit: dB(A)

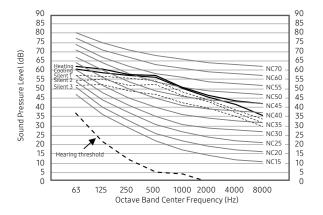
Model	Cooling	Silent1	Silent 2	Silent 3
AM072BXVTFH/AA	55	53	51	49
AM096BXVTFH/AA	57	55	53	49
AM120BXVTFH/AA	59	57	53	49

• NC Curve

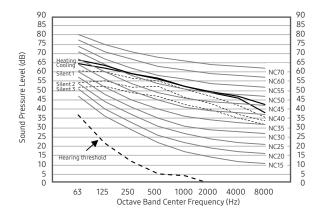
1) AM072BXVTFH/AA



2) AM096BXVTFH/AA



3) AM120BXVTFH/AA



- 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

Sound Pressure level

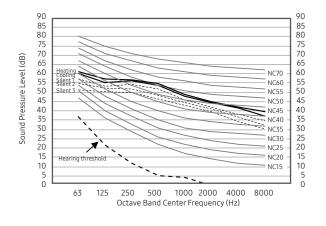
Microphone 1m Front

Unit:	d	B(Α)
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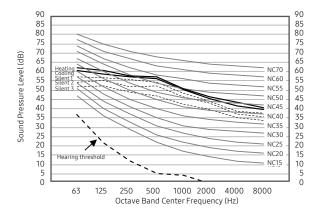
Model	Cooling	Silent1	Silent 2	Silent 3
AM072BXVTJH/AA	55	53	51	49
AM096BXVTJH/AA	57	55	53	49
AM120BXVTJH/AA	59	57	53	49

• NC Curve

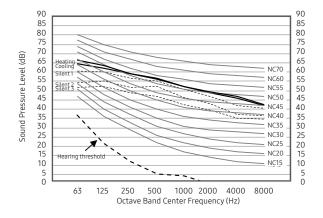
1) AM072BXVTJH/AA



3) AM096BXVTJH/AA



3) AM120BXVTJH/AA



- 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

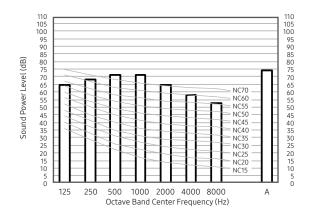
Sound Power level

Unit: dB(A)

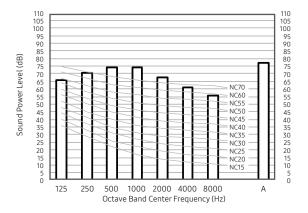
Model	Cooling
AM072BXVTFH/AA	74
AM096BXVTFH/AA	77
AM120BXVTFH/AA	79

• NC Curve

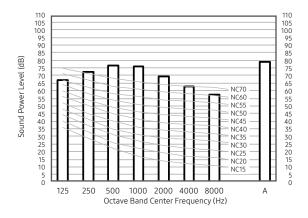
1) AM072BXVTFH/AA



2) AM096BXVTFH/AA



3) AM120BXVTFH/AA



- 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.

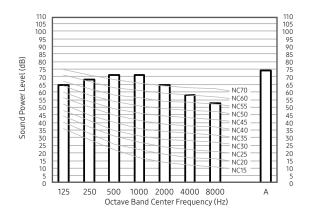
Sound Power level

Unit: dB(A)

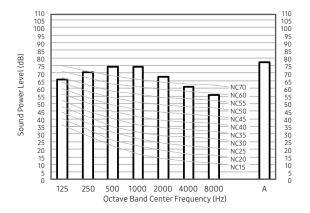
Model	Cooling
AM072BXVTJH/AA	74
AM096BXVTJH/AA	77
AM120BXVTJH/AA	79

• NC Curve

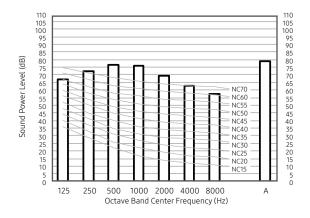
1) AM072BXVTJH/AA



2) AM096BXVTJH/AA



3) AM120BXVTJH/AA

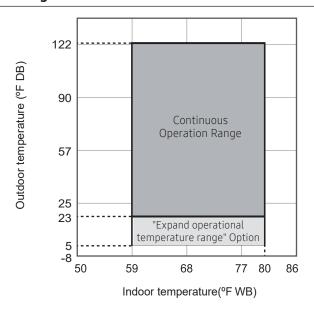


- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power: 1pW.
 - Measured according to ISO 3741.

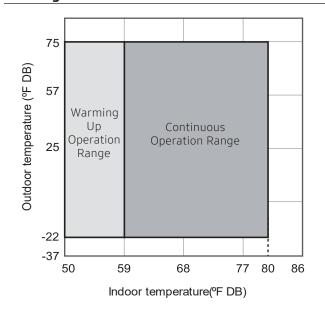
8. Operation Range

Outdoor unit

Cooling



Heating



- (1) The operating range is shown in these figures
- (2) The assumed installation condtions are as follows
 - Outdoor units and indoor units combination
 - The Pipe length(including elbow) is 5m (16.4ft)
 - The Level difference is 0m
- (3) In the low temperature expansion option application, the cooling operating is possible under expand operational range only for HR system
- (4) In case of heating mode, operating is possible under warming up operation range. However continus opearting is impossible due to a protection control

8. Operation Range

Outdoor unit

Defrosting correction factor

The heating capacity tables do not take account of the reduction in capacity, when frost has accumulated or while the defrosting operation is in progress.

The capacity values, which take these factors into account, in other words, the integrated heating capacity values, can be calculated as follows:

Formula : $A = B \times C$

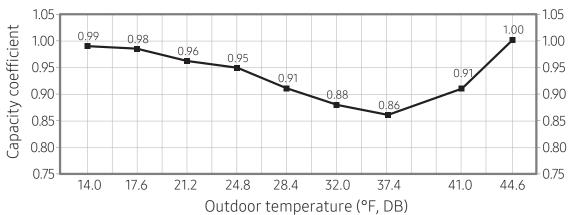
Integrated heating capacity = A

Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

Outdoor temperature (°F, DB)	14	17.6	21.2	24.8	28.4	32	37.4	41	44.6
Capacity coefficient	0.99	0.98	0.96	0.95	0.91	0.88	0.86	0.91	1.00

Capacity coefficient of outdoor unit on defrost operation



On heating operation, frost can be formed on heat exchanger according to outdoor temperature.

(Frost on heat exchanger results in decreasing the performance.)

To remove frost on heat exchanger of outdoor unit, defrost operation is carried out periodically.

During defrost operation, capacity of outdoor unit may decrease.

The decrement is not considered to the individual capacity tables.

This figure shows an effect of intelligence defrost operation

It is actually the frost occurrence section from 0 °C(32 °F) or less.

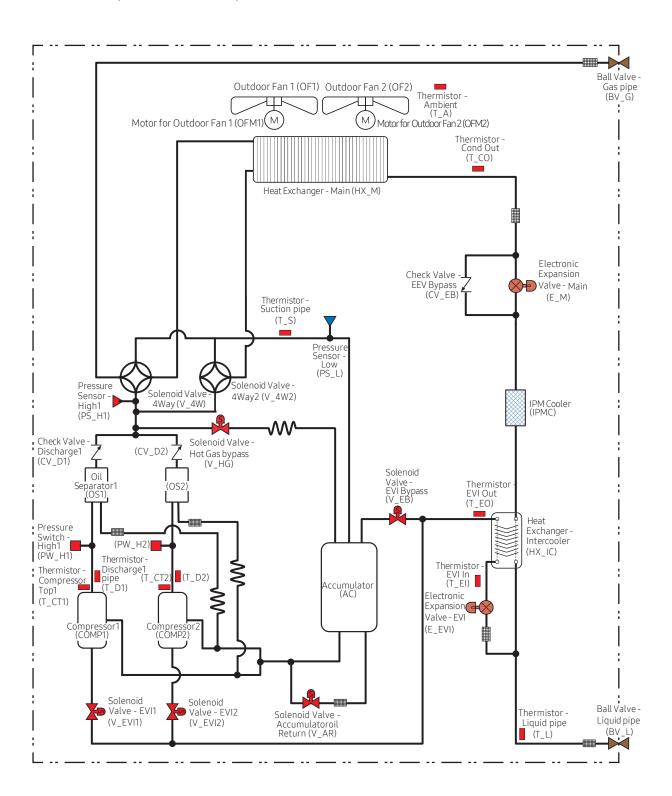
Since the outdoor temperature over 0 °C(32 °F), the heating performance is the same before and after applying intelligence defrost operation

In outdoor conditions below 0 °C(32 °F), frost conditions reflect the actual entering the defrost opration because heating performance is improved

9. Piping Diagram

Outdoor unit

AM072BXVT*H/AA, AM096BXVT*H/AA, AM120BXVT*H/AA



Choosing the installation location

Outdoor unit location requirements

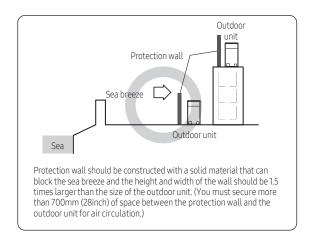
Decide the installation location, with the consideration of the following conditions, under user's approval.

- Place where hot discharge air or noise from the outdoor unit may not disturb the neighbor (Especially in residential areas, keep the operation hours in mind.)
- Place where structure can bear the weight and vibration of the outdoor unit.
- Place with flat surface where rainwater does not settle or leak.
- Place where it is not exposed to strong wind.
- Well ventilated place with sufficient service place for repairs and maintenance. (Discharge duct must be purchased separately in your local market.)
- Place where you can connect the refrigerant pipes between indoor and outdoor units within allowable distance.
- Place where it allows easy waterproofing and draining work for the condensation water generated from the outdoor unit during heating operation.
- Place where there is no risk of inflammable gas leakage.
- Place where there is no direct influence of snow or rain.
- Place where a large amount of water generated by external environment does not directly affect the top of the outdoor unit

Installation Guide at the seashore

Make sure to follow below guides when installing at the seashore.

- 1 Do not install the product in a place where it is directly exposed to sea water and sea breeze.
 - Make sure to install the product behind a structure (such as building) that can block see breeze.
 - Even when it is inevitable to install the product in seashore, make sure that product is not directly exposed to sea breeze by installing a protection wall.

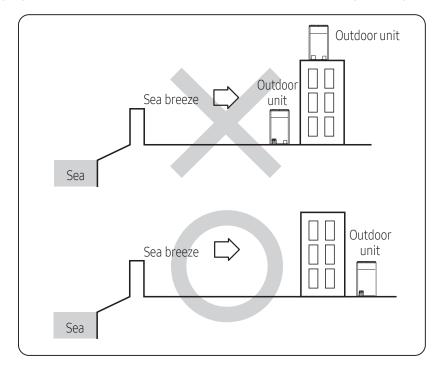


- 2 Consider that the salinity particles clinging to the external panels should be sufficiently washed out.
- **3** Because the residual water at the bottom of the outdoor unit significantly promotes corrosion, make sure that the slope does not disturb drainage.
 - Keep the floor level so that rain does not accumulate.
 - Be careful not to block the drain hole due to foreign substance
- 4 When product is installed in seashore, periodically clean it with water to remove attached salinity.
- 5 Make sure to install the product in a place that provides smooth water drainage. Especially, ensure that the base part has good drainage.
- 6 If the product is damaged during the installation or maintenance, make sure to repair it

Choosing the installation location

- 7 Check the condition of the product periodically.
 - Check the installation site every 3 months and perform anticorrosiontreatment such as R-Pro supplied by SAMSUNG (Code: MOK-220SA) or commercial water repellent grease and wax, etc., based on the product condition.
 - When the product is to be shut down for a long period of time, such as off-peak hours, take appropriate measures like covering the product.
- **8** If the product installed within 500m (1640ft) of seashore, special anticorrosiontreatment is required.
 ** Please contact your local SAMSUNG representative for further details.

If you cannot find a proper location to install the outdoor unit, consult with an expert or specialty store.



\bigwedge

CAUTION

- System air conditioner may cause static noise when listening to AM stations. Therefore, select an installation location for indoor unit where electrical wiring can be done while keeping certain distance from a radio, computer and stereo equipment.
 - Especially, keep the unit at least 3m (9.84ft) away from the electrical equipment in an area with weak
 electromagnetic waves and put the main power cable and communication cables in a separately installed
 protection tube.
 - Make sure that there is no equipment that generates electromagnetic waves. If not electromagnetic waves may cause problem to the control systems which may lead to air conditioner malfunction.
 (Example: Remote control sensor of the indoor unit may not receive the signal very well, due to ballast stabilizer of the lighting equipment.)
- In regions with heavy snowfall, make sure to install the outdoor unit where there is no concerns of direct snowfall on the outdoor unit. Also, build higher base support so that accumulated snow does not block the air inlet or the heat exchanger.
- R-410A refrigerant is a safe, nontoxic and nonflammable refrigerant. However, if the place holds any concerns
 for exceeding dangerous level of refrigerant concentration in case of refrigerant leakage, extra ventilation
 system is required.
- When you install the outdoor unit in high places such as a roof, install fence or guardrail around it. When there is no fence or guardrail, service person could fall.

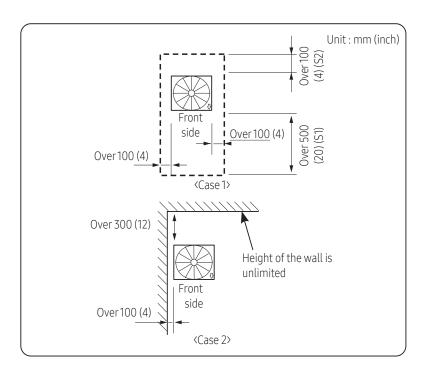
Choosing the installation location

- Do not install the product in places where corrosive gases such as sulfur oxides, ammonia, and sulfurous gas are produced. (e.g. Toilet outlet, ventilation opening, sewage works, dyeing complex, cattle shed, sulfuric hot spring, nuclear power plant, ship etc.) When installing the product in those places, contact an installationspecialty store as the copper pipe and brazing part will need additional corrosion proof or antirust additive to prevent corrosion.
- Make sure not to keep any inflammable materials (such as wooden materials, oil etc.) around the outdoor unit. When there's fire, those inflammable material will easily catch the fire and may pass it on to the product.
- Depending on the condition of power supply, unstable power or voltage any cause malfunction of the parts or control system. (At the ship or places using power supply from electric generator...etc)
- Make sure to install MCU when using HR products.
- When you select the location to install the MCU, the location is far away from indoor rooms because the refrigerant running of MCU may create noise.

Outdoor unit space requirements

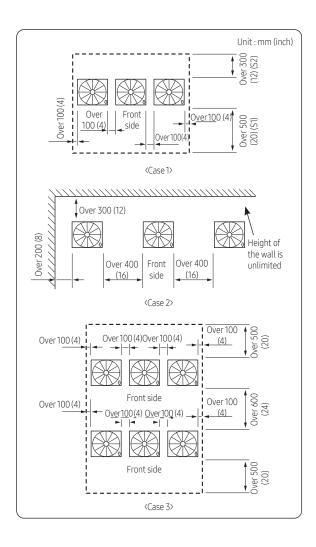
- Space requirement was decided based on following conditions; Cooling mode, outdoor temperature of 35°C (95°F). Larger space is required if the outdoor temperature is higher than 35°C (95°F)or if the place is heated easily by quantity of solar radiation.
- When you secure installation space, consider path for people and the direction of the wind.
- Secure installation space as shown in the below illustration, considering ventilation and the service space.
- If the installation space is narrow, installer or other worker may get injured during work and may also cause problem to the product.
- If you install multiple number of outdoor units in one space, make sure to secure enough ventilation space if there's any walls around the product that may disturb the air flow. If enough ventilation space is not secured, product may malfunction.
- You may install the outdoor units with 20mm (0.78inch) of space between the product, but product's performance may decrease depending on the installation environment.

Single installation

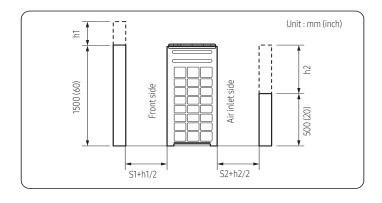


Choosing the installation location

Module installation

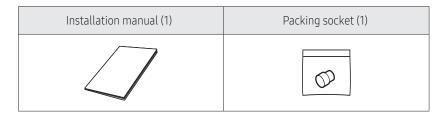


- For <Case 1> or <Case 3>
 - Height of the wall on the front side should not be higher than 1500mm (60inch).
 - Height of the wall on the air inlet side should not be higher than 500mm (20inch).
 - Height of the wall on the side is not limited.
 - If the height of the wall exceeds by certain value (h1, h2), additional clearance [(h1)/2, (h2)/2 : Half of the exceeded height] should be added to the service space (S1, S2).



Preparing materials and tools

- You must keep the installation manual until the installation is finished.
- Hand over the installation manual to the customer after finishing the installation.



* Certain models are supplied with a packing socket. The socket type may differ, depending on the model.

Optional accessories

• Following optional accessories are needed for connecting pipes between the indoor and outdoor units.

Classification	Model Name	Specification		
Classification	Model Name	MBH	kW	
	MXJ-YA1509M	51 and below	15.0 and below	
	MXJ-YA2512M	52~136	15.1 ~40.0	
	MXJ-YA2812M	137~154	40.1 ~45.0	
Y-Joint	MXJ-YA2815M	155~240	45.1 ~70.3	
	MXJ-YA3419M	241~336	70.4 ~98.4	
	MXJ-YA4119M	337~461	98.5 ~135.2	
	MXJ-YA4422M	Over 461	Over 135.2	

Classification	Model Name	Specifi	ication
Classification	Model Name	MBH	kW
	MXJ-YA1500M	76 and below	22.4 and below
Y-Joint	MXJ-YA2500M	77~240	22.5 ~70.3
(Only H/R)	MXJ-YA3100M	241~461	70.4 ~135.2
	MXJ-YA3800M	Over 461	Over 135.2
	MXJ-HA2512M	154 and below (for 4 rooms)	45.0 and below (for 4 rooms)
Distribution header	MXJ-HA3115M	240 and below (for 8 rooms)	70.3 and below (for 8 rooms)
	MXJ-HA3819M	241 ~ 461 (for 8 rooms)	70.4 ~ 135.2 (for 8 rooms)
Y-Joint Outdoorupit	MXJ-TA3819M	461 and below	135.2 and below
- Outdoor unit	MXJ-TA4422M	Over 461	Over 135.2
Y-Joint (Only H/R)	MXJ-TA3100M	461 and below	135.2 and below
- Outdoor unit	MXJ-TA3800M	Over 461	Over 135.2

^{*} If you use an indoor unit with no internal EEV(Electric Expansion Valve), you will need an EEV kit.

^{*} Only use the genuine accessories listed in above table and do not use imitated accessories.

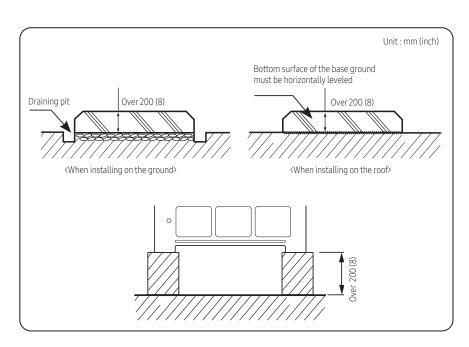
Outdoor unit installation

♠ WARNING

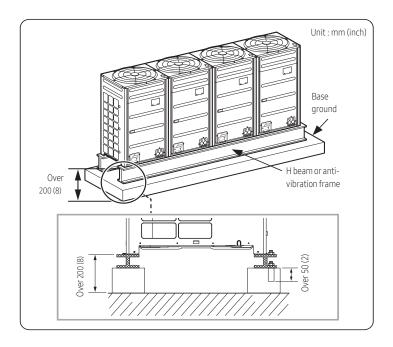
- Make sure to remove the wooden pallet before installing the outdoor unit. If you do not remove the wooden pallet, there is risk of fire during welding the pipes. If the outdoor unit is installed with wooden pallet on, and it was used for long period time, wooden palette may break and cause electrical hazard or high pressure may damage the pipes.
- * Fix an outdoor unit firmly on the base ground with anchor bolts.
- * Manufacturer is not responsible for the damage occurred by not following the installation standards.
- 1 Make sure that the height of the base ground is 200mm (8inch) or higher to protect the outdoor unit from rain water or othe external conditions. Also, install a draining pit around the base ground and connect the drain pipe to the drainage.
- 2 Considering the vibration and weight of the outdoor unit, strength of the base ground must be strong to prevent noise and the top surface of it should be flat.
- 3 Base ground should be 1.5 times larger than the bottom of the outdoor unit.
- 4 Outdoor unit must be fixed firmly so that it can withstand the wind speed of 30m/s. If you cannot fix the outdoor unit on the base ground, fix it by side or use extra structure.
- 5 In heating operation, defrost water may form so you must really care about the drainage and waterproofing the floor.

 To prevent defrost water from stagnating or freezing, construct a drainage with over 1/50 slope. (Ice may form on the floor in winter season.)
- 6 It is necessary to add wire mesh or steel bar during concrete construction for the base ground to prevent damages or cracks.
- 7 When installing multiple outdoor units at the same place, construct an H beam or an anti-vibration frame on the base ground to install the outdoor unit.
- 8 After installing an H beam or an anti-vibration frame, apply corrosion protection and other necessary coating.
- 9 When concrete construction for outdoor unit installation is completed, install an anti-vibration pad (t=20mm/0.78inch or more) or an anti-vibration frame to prevent vibration of the outdoor unit from transferring to the base ground.
- 10 Place the outdoor unit on an H beam or an anti-vibration frame and fix it with the bolt, nut and washer. (The bearing force has to be over 3.5kN)

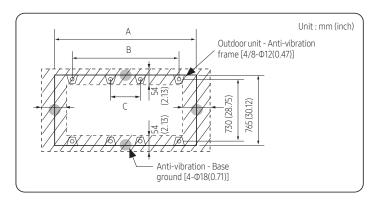
Base ground construction



Outdoor unit installation



Outdoor unit base mount and anchor bolt position



Unit : mm (inch)

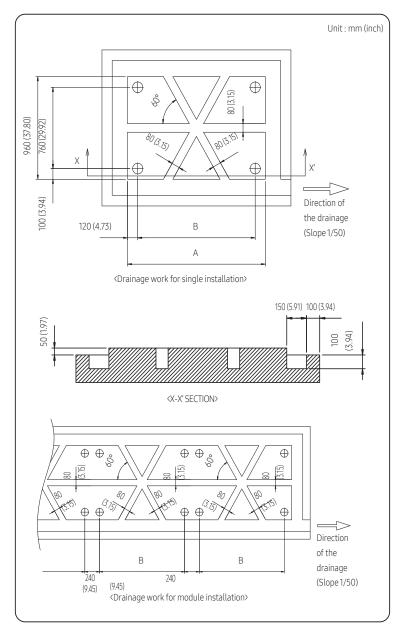
Classification	DVM S2 Large type
А	1,295 (51)
В	1,155 (45.5)
С	-

* Refer to the blueprints in technical data book to make a holes for connecting the anti-vibration pad.

Outdoor unit installation

Examples of draining work

- Construct the drainage ditch with reinforced concretes and make sure that water-proofing work is done.
- For smooth draining of defrost water, make sure to apply 1/50 slope.
- Construct a drainage around the outdoor unit to prevent the defrost water (from the outdoor unit) from stagnating, overflowing or freezing near the installation space.
- When the outdoor unit is installed on the roof, check the strength and waterproof status of the roof.



Unit: mm (inch)

Classification	DVM S2 Large type
А	1,395 (54.9)
В	1,155 (45.5)

! CAUTION

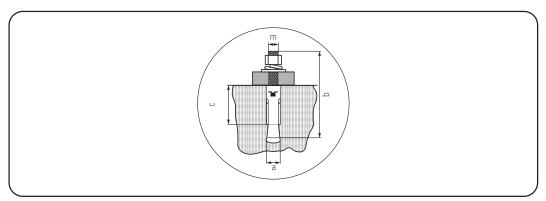
- Cautions regarding on connecting the anchor bolt
 - Tighten the rubber washer to prevent the bolt connection part of the outdoor unit from corroding.



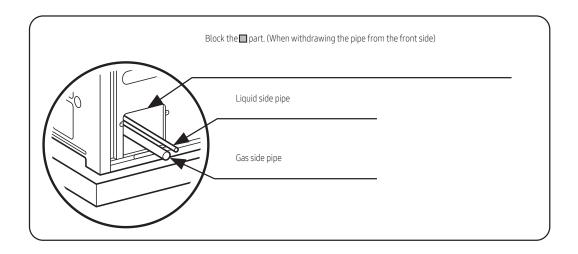
Anchor specification

Size	Diameter of drill bit (a)	Anchor length (b)	Sleeve length (c)	Insert depth	Fastening torque
Ø 10	14mm (1/2")	75mm (3")	40mm (1-1/2")	50mm (2")	30 N·m

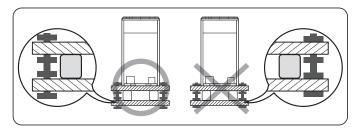
* Use the anchor bolts and nuts that is zinc plated or made of STS material. Regular anchor bolts or nuts may get damaged by corrosion.



- Cautions regarding on connecting the pipe
 - If you install the outdoor unit on the rooftop, check the strength and make sure to waterproof the rooftop.
 - Construct draining pit around the base construction and pay attention to the drainage around the outdoor unit. (Condensation or defrost water may form during outdoor unit operation.)
 - If there's any possibility of small animals from entering the pipe outlet, block the outlet as shown in the illustration.



- Cautions regarding on anti-vibration frame installation
 - During installation, make sure there is no gap between thebase ground and the supporting structures such as antivibrationframe or H beam.
 - Base ground must be constructed strongly to support the bottom part of the anti-vibration mount.

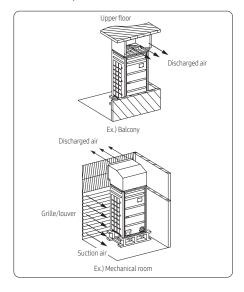


- After installing the anti-vibration frame, untighten the fixing part on the top and bottom part of the frame.
- Caution for installing discharge duct
 - Static pressure of the discharge duct should be within the standard specification when installing the duct.
 - If you remove the fan guard to install the discharge duct, make sure to install a safety net on the duct outlet. Foreign substance may enter into the product and there could be a risk of personal injury.
 - Wear protection equipment at all times when making galvanized sheet metal duct, since the orker may get injured by the sharp parts.
 - When installing the outdoor unit under the tree or near forest, leafs may get into the product and cause problems on the product. Therefore, install a discharge duct to prevent foreign substance infiltration.



Installing the outdoor unit in various environments Installing the outdoor unit around the obstacles

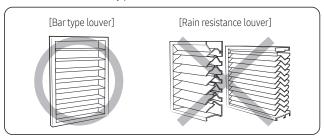
• It is necessary to install a discharge guide duct(field supply) to direct exhaust from the fan horizontally, when it is difficult to provide a minimum space of 2m (6.56ft) between the air outlet and a nearby obstacle.



Outdoor unit installation

MARNING

Should adopt bar type louver. Don't use a type of rain resistance louver.



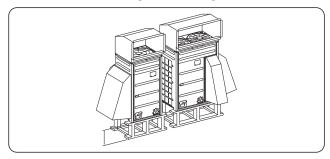
- Louver specifications.
 - Angle criteria: less than 20°
 - Opening ratio criteria: greater than 80%

Installing the outdoor unit in cold region

- In cold regions with lots of snowfall, install a snow prevention duct, as a sufficient countermeasure, to prevent snow from accumulating on the outdoor unit. When the snow prevention duct is not installed, frost may accumulate on the heat exchanger and heating operation may not work normally.
- Air outlet of the duct should not be directed to the enclosed space.

! CAUTION

- Cautions regarding on installing the frame and selecting the base ground
 - Height (h) of the frame and the base ground should be higher than the "heaviest expected snowfall".
 - Area of the frame and the base ground should not be larger than the are of the outdoor unit. Snow may
 accumulate if the area of the frame or the base ground is larger.

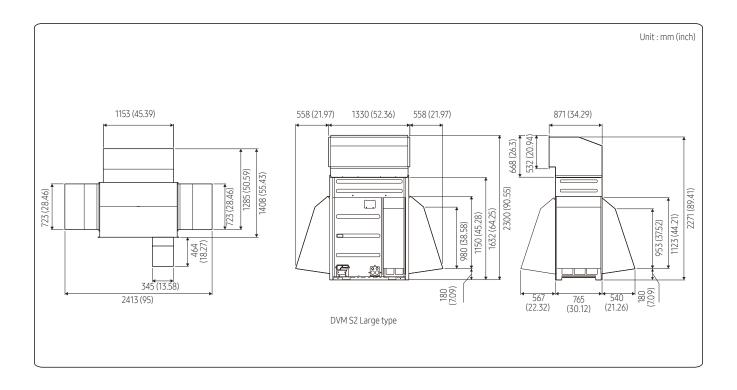


Installing the outdoor unit in windy region

- In windy regions such as near sea shores, protection wall or wind protection duct must be installed for normal operation of the outdoor unit. (Refer to the illustration of the snow prevention duct, for installing the wind protection duct.)
- Install the wind prevention duct with the consideration of major wind direction. If the direction of the discharge part is same as major direction of the wind, it could cause product's performance decrease.

CAUTION

- Cautions regarding on installing the frame and selecting the base ground
 - The base ground must be solid and the outdoor unit must be fixed with anchor bolts.
 - Make sure to install outdoor unit in a place strong enough to withstand its weight. If the place cannot withstand the weight of the outdoor unit, outdoor unit may fall and cause personal injury.
 - When installing on a rooftop subject to strong wind, countermeasures must be taken to prevent the unit from falling down.
 - Use a frame that is resistant to corrosion.



Refrigerant pipe installation



/ WARNING

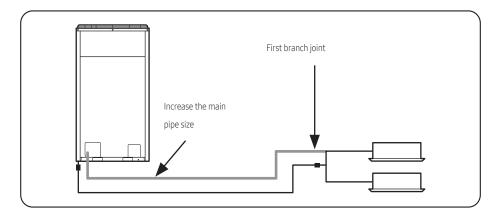
When installing, make sure there is no leakage. When collecting the refrigerant, stop the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high which may lead to explosion and injury.

Refrigerant pipe work

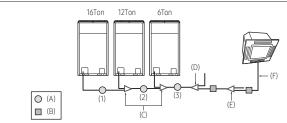
- The length of refrigerant pipe should be as short as possible and the height difference between an indoor and outdoor unit should be minimized.
- Piping work must be done within allowable piping length, height difference, and the allowable length after branching.
- The pressure of the R-410A is high. Use only certified refrigerant pipe and follow the installation method.
- After installing the pipes, calculate the total length of the pipe to check if additional refrigerant is needed. When you need to charge the additional refrigerant, make sure to use R-410A refrigerant.
- Use clean refrigerant pipe and there shouldn't be any harmful ion, oxide, dust, iron content or moisture inside
- Use tools and accessories that fit on R-410A only.

Tool		n process/ pose	Compatibility with conventional tool
Pipe cutter		Pipe cutting	Competible
Flaring tool		Pipe flaring	Compatible
Refrigerant machine oil	Refrigerant pipe	Apply refrigerant oil on flared part	Exclusive ether oil, ester oil, alkali benzene oil or synthetic oil
Torque wrench	installation	Connect flare nut with pipe	
Pipe bender		Pipe bending	
Nitrogen gas	Air tightness test	Prevent oxidation within the pipe	Compatible
Welder		Pipe welding	
Manifold gage	Air tightness	Vacuuming, charging	Compatible
Refrigerant charging hose	test ~ additional refrigerant charging	refrigerant and checking operation	Need exclusive one since there is risk of refrigerant leakage or inflow of impurities
Vacuum pump	Pipe di	rying	Compatible (Use products which contain the check valve to prevent the oil from flowing backward into the outdoor unit.) Use the one that can be vacuumed up to -100.7kpa(5Torr).
Scale for refrigerant charging	Refrigerant charging		Compatible
Gas leak detector	Gas leak test		Need exclusive one (Ones used for R-134a is compatible)
Flare nut	Must ı	use the flare nut eq	uipped with the product.

Selecting refrigerant pipe



- Install the refrigerant pipe according to main pipe size of each outdoor unit capacity.
- When the pipe length (including elbow) between an outdoor unit and the farthest indoor unit exceeds 90m (295ft), you must increase the size of the pipe (main pipe) by one grade which connects between the outdoor unit to the first branch joint.



Size of the pipe connected to the outdoor unit (A)

Select the size of the main pipe according to the below table.

Outdoor unit capacity (MBH)	Outdoor unit capacity (kW)	*Maximum pipe length within 295ft (90m)			*Maximum pipe length over 295ft (90m)				
(Cooling)	' ' '	Liq	uid	G	ias	Li	quid	Gas	
(Cooting)	(Cooling)	inch	mm	inch	mm	inch	mm	inch	mm
Capacity ≤ 85	Capacity ≤ 25			Ø3/4	Ø19.05			Ø7/8	Ø22.22
85 < Capacity ≤ 99	25 < Capacity ≤ 29	Ø3/8	Ø9.52	Ø7/8	Ø22.22	Ø1/2	Ø12.70	Ø1 note1)	Ø25.40 note1)
99 < Capacity ≤ 120	29 < Capacity ≤ 35							O(11 /O	020 F0
120 < Capacity ≤ 140	35 < Capacity ≤ 41	Ø1/2	Ø12.70			Ø5/8	Ø15.88	Ø11/8	Ø28.58
140 < Capacity ≤ 160	41 < Capacity ≤ 47]		Ø11/8	Ø28.58			011/4	Q71.7F
160 < Capacity ≤ 181	47 < Capacity ≤ 53							Ø11/4	Ø31.75
181 < Capacity ≤ 222	53 < Capacity ≤ 65	Ø5/8	Ø15.88			Ø3/4	Ø19.05	110(62)	Hotez)
222 < Capacity ≤ 240	65 < Capacity ≤ 70							Ø13/8	Ø34.92
240 < Capacity ≤ 336	70 < Capacity ≤ 98	Ø3/4	Ø19.05	Ø13/8	Ø34.92	Ø7/8	077.77	Ø1 1/2 note3)	Ø38.10
336 < Capacity ≤ 467	98 < Capacity ≤ 137	4/دس	17.00	Ø15/8	Ø41.28	ס/וש	WLL.LL	Ø15/8	Ø41.28
467 < Capacity ≤ 583	137 < Capacity ≤ 171			0/010	1041.20			ס/כוש	1.20

*Maximum pipe length: The pipe length between an outdoor unit and the farthest indoor unit. Note1) If \emptyset 1" (25.40mm) pipe is not available on site, use \emptyset 11/8" (28.58mm) pipe. Note2) If \emptyset 11/4" (31.75mm) pipe is not available on site, use \emptyset 13/8" (34.92mm) pipe. Note3) If \emptyset 11/2" (38.10mm) pipe is not available on site, use \emptyset 15/8" (41.28mm) pipe.

Size of the pipe between branch joints (B)

Select the pipe size according to the sum of indoor unit capacity which will be connected after the branch.

However, if the size of the pipe between branch joints (B) is bigger than the size of the pipe connected to the outdoor unit (A), apply the pipe size (A).

Indoor unit	Indoor unit	Br	anch pipe	length wi	thin	Branch pipe length between 148ft~295ft (45~90m)			
capacity (MBH)	capacity (kW)	Lio	uid		as		uid		as
cupacity (1-15/1)	Capacity (KVV)	inch	mm	inch	mm	inch	mm	inch	mm
Capacity < 19	Capacity < 5.7	Ø1/4	Ø6.35	Ø1/2	Ø12.70	Ø3/8	09.52	Ø5/8	Ø15.88
19≤Capacity < 55	5.7≤Capacity <16	DIJT	20.55	Ø5/8	Ø15.88	103/0	107.32	Ø3/4	Ø19.05
55 ≤ Capacity < 79	16≤Capacity < 23.2	}		Ø3/4	Ø19.05			Ø7/8	Ø22.22
33 = capacity 177	10 = Capacity 123.2	Ø3/8	Ø9.52	103/4	2017.03	Ø1/2	Ø12.70	10170	025.40
79 ≤ Capacity < 115	23.2 ≤ Capacity < 33.6			Ø7/8	Ø22.22			Ø1 note1)	(025.40 note1)
115 ≤ Capacity < 133	33.6 ≤ Capacity < 39							Ø11/8	Ø28.58
133 ≤ Capacity < 150	39≤Capacity < 44	Ø1/2	Ø12.70	011/0	220.50	Ø5/8	Ø15.88	8/ווע	1028.38
150 ≤ Capacity < 172	44 ≤ Capacity < 50.4	ĺ		Ø11/8	Ø28.58			Ø11/4	Ø31.75
172 ≤ Capacity < 229	50.4≤Capacity < 67.2	Ø5/8	Ø15.88			03/4	Ø19.05	note2)	note2)
230 ≤ Capacity < 248	67.2 ≤ Capacity < 72.8	105/8	15.88			105/4		Ø13/8	Ø34.92
240.46 31.4744	72.8≤Capacity			Ø13/8	Ø34.92			Ø11/2	Ø38.10
248≤Capacity < 344	<100.8							note3)	note3)
344 ≤ Capacity < 392	100.8 ≤ Capacity < 115	Ø3/4	Ø19.05			Ø7/8	Ø22.22	Ø15/8	Ø41.28
702 / Canadib / F02	11F < Canasib (177 /			Ø15/8	Ø41.28			Ø13/4	Ø44.45
392 ≤ Capacity < 592	115 ≤ Capacity < 173.6							note4)	note4)
E02 < Capacity / 474	177 4 4 Canacity / 100			Ø13/4	Ø44.45		QDF 40		
592 ≤ Capacity < 676	173.6≤Capacity < 198	Ø7/8	Ø22.22	note4)	note4)	Ø1 note1)	Ø25.40		
676≤Capacity < 860	198 ≤ Capacity < 252						note1)	Ø21/8	Ø53.98
860 ≤ Capacity	252 ≤ Capacity	Ø1 note1)	Ø25.40 note1)	Ø21/8	Ø53.98	Ø11/8	Ø28.58		

Note1) If \emptyset 1" (25.40mm) pipe is not available on site, use \emptyset 11/8" (28.58mm) pipe. Note2) If \emptyset 11/4" (31.75mm) pipe is not available on site, use \emptyset 13/8" (34.92mm) pipe. Note3) If \emptyset 11/2" (38.10mm) pipe is not available on site, use \emptyset 15/8" (41.28mm) pipe. Note4) If \emptyset 13/4" (44.45mm) pipe is not available on site, use \emptyset 21/8" (53.98mm) pipe.

Ex.) 34 Ton

		Pipe size (O.D)						
Ton	No.	Liquid pipe		Gas pipe				
		mm	inch	mm	inch			
16	(1)	15.88	5/8	28.58	11/8			
28	(2)	19.05	3/4	34.92	13/8			
34	(3)	19.05	3/4	41.28	15/8			

Branch joint (C~E)

Branch joint between outdoor units (C)

Select a branch joint according to the sum of the capacity of outdoor units connected to the branch joint.

Classification	Outdoor ur	Model name		
Ctassification	MBH kW		Modername	
Y-joint for outdoor	Capacity ≠578	Capacity ≠248	MXJ-TA3819M	
unit (C)	467 < Capacity	MXJ-TA4422M		

First branch joint (I

Select according to the sum of the capacity of the outdoor unit

Classification	Outdoor ur	Model name		
Classification	MBH kW		Model name	
	Capacity ≠251	Capacity ≠52	MXJ-YA2512M	
	Capacity ≠ 271	Capacity ≠58	MXJ-YA2812M	
Y-joint (D)	Capacity ≠349	Capacity ≠81	MXJ-YA2815M	
1-joilit (D)	Capacity ≠447	Capacity ≠99	MXJ-YA3419M	
	Capacity ≠578	Capacity ≠248	MXJ-YA4119M	
	467 < Capacity	137 < Capacity	MXJ-YA4422M	

Branch joint (E)

Select a branch joint according to the sum of indoor unit capacity which will be connected after the branch.

* However, if the branch joints (E) is bigger than the first branch joint (D), apply the branch joint of the same size as the first branch joint (D).

Classification	Indooruni	Model name	
Classification	МВН	kW	Model name
	Capacity < 55	Capacity <16	MXJ-YA1509M
	55 ≤ Capacity < 133	16 ≤ Capacity < 39	MXJ-YA2512M
	133 ≤ Capacity < 172	39 ≤ Capacity < 50.4	MXJ-YA2812M
Y-joint (E)	172 ≤ Capacity < 248	50.4 ≤ Capacity < 72.8	MXJ-YA2815M
	248 ≤ Capacity < 344	72.8 ≤ Capacity < 100.8	MXJ-YA3419M
	344 ≤ Capacity < 478	100.8 ≤ Capacity < 140	MXJ-YA4119M
	478 < Capacity	140 < Capacity	MXJ-YA4422M
	Capacity < 172 (for 4 rooms)	Capacity < 50.4 (for 4 rooms)	MXJ-HA2512M
Distribution header (E)	Capacity < 248 (for 8 rooms)	Capacity < 72.8 (for 8 rooms)	MXJ-HA3115M
1100001 (2)	Capacity < 478 (for 8 rooms)	Capacity < 140 (for 8 rooms)	MXJ-HA3819M

Size of the pipe between the branch joint and the indoor unit (F)

Select according to the capacity of the indoor unit.

Indoor unit capacity		Liq	uid	Gas		
MBH	kW	inch	mm	inch	mm	
Capacity ≤ 20	Capacity ≤ 6	Ø1/4	Ø6.35	Ø1/2	Ø12.7	
20 < Capacity ≤ 54	6 < Capacity ≤ 16	Ø3/8	Ø9.52	Ø5/8	Ø15.88	
54 < Capacity ≤ 78	16 < Capacity ≤ 23	Ø3/8	Ø9.52	Ø3/4	Ø19.05	
78 < Capacity	23 < Capacity	Ø3/8	Ø9.52	Ø7/8	Ø22.22	

Fig. 16 the criteria for selecting the branch in the outdoor installation manual and the branch installation manual are different, please select the branch in accordance with the outdoor installation manual.

For the case that the diameter of the default pipe of an outdoor unit does not match that of the pipe installed on the site, a socket is provided by default together with the outdoor unit.

Refrigerant pipe installation

When all the following conditions are met, install the main liquid pipe that is one step smaller to reduce piping load and the amount of refrigerant.

Note that the refrigerant for the main liquid pipe must be added by the specified amount upon reduction.

Condition 1: The vertical piping length is less than 131 ft (40m)

Condition 2: For BG units, allowable length A (ft) ≥ max. piping length (ft) / {1 - (vertical piping length (ft) * 0.0046)}

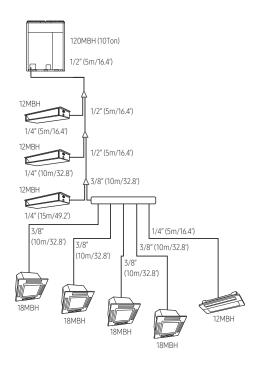
- * Max. piping length: The equivalent length (ft) of piping from the outdoor unit to the farthest indoor unit For SI units, allowable length A (m) ≥ max. piping length (m) / {1 (vertical piping length (m) * 0.015)}
- * Max. piping length: The equivalent length (m) of piping from the outdoor unit to the farthest indoor unit
- * If the conditions above are satisfied and one-size smaller piping has been installed, set the "liquid pipe (main pipe) size reduction" option.
- Length allowed to reduce the diameter of liquid pipe, A (equivalent length)

	Maximum pipe length within 90m (295.3ft)			Maximum pipe length over 90m (295.3ft)				
Outdoor unit capacity	Pipe di	iameter	Allowab	le length	Pipe diameter		Allowab	le length
(Ton)	mm	inch	m	ft	mm	inch	m	ft
6				This capacity is	not supported.			
8				This capacity is	not supported.			
10	9.52	3/8	50	164	12.7	1/2	200	656
12	9.52	3/8	30	98	12.7	1/2	160	525
14	12.7	1/2	90	295	15.88	5/8	200	656
16	12.7	1/2	90	295	15.88	5/8	200	656
18	12.7	1/2	80	262	15.88	5/8	200	656
20	12.7	1/2	60	197	15.88	5/8	190	623
22	15.88	5/8	90	295	19.05	3/4	200	656
24	15.88	5/8	90	295	19.05	3/4	200	656
26	15.88	5/8	90	295	19.05	3/4	200	656
28	15.88	5/8	90	295	19.05	3/4	200	656
30	15.88	5/8	90	295	19.05	3/4	200	656
32	15.88	5/8	80	262	19.05	3/4	200	656
34	15.88	5/8	70	230	19.05	3/4	200	656
36	15.88	5/8	60	197	19.05	3/4	190	623
38	15.88	5/8	60	197	19.05	3/4	170	558
40	15.88	5/8	50	164	19.05	3/4	150	492

E.g.1 : For a site with 18 tons (BG units), max. piping length of 460ft (395 ft-long horizontal piping and 65ft-long vertical piping) condition, allowable length A ≥ max. piping length / {1 - (vertical piping length * 0.0046)} 656ft ≥ 460ft / {1 - (65 * 0.0046)} = 460ft / 0.701 = 656ft

E.g.2 : For a site with 18 tons (SI units), max. piping length of 140m (120 m-long horizontal piping and 20m-long vertical piping) condition, allowable length A ≥ max. pping length / {1 - (vertical piping length * 0.015) } 200m ≥ 140m/ {1 - (20 * 0.015) } = 140m / 0.7 = 200m Accordingly, the max. piping length of 140m (120m-long horizontal piping and 20m-long vertical piping) is allowable.

Additional refrigerant



Refrigerant pipe installation

- Basic amount of refrigerant within the outdoor unit [lb(kg)]
 - Amount of additional refrigerant has to be calculated based on the sum of all liquid pipe length.

Classification	AM072BXVT**	AM096BXVT**	AM120BXVT**
Basic amount [lb(kg)]	17.6 (8.0)	23.1 (10.5)	23.1 (10.5)

- Amount of additional refrigerant depending on the pipe size (a)
 - Amount of additional refrigerant has to be calculated based on the sum of all liquid pipe length.

Size of liquid pipe	Φ1/4	Ф3/8	Φ1/2	Φ5/8	Φ3/4	Φ7/8	Φ1	Φ1 1/8
[mm (inch)]	(Φ6.35)	(Ф9.52)	(Φ12.7)	(Φ15.88)	(Φ19.05)	(Φ22.22)	(Φ25.4)	(Φ28.58)
Additional amount	0.013	0.04	0.084	0.121	0.181	0.235	0.356	0.437
[lb/ft (kg/m)]	(0.02)	(0.06)	(0.125)	(0.18)	(0.27)	(0.35)	(0.53)	(0.65)
Amount of refrigerant added when the diameter of liquid pipe is reduced [kg/m (lb/ft)]	-	0.054 (0.08)	0.087 (0.13)	0.131 (0.195)	0.188 (0.28)	0.282 (0.42)	0.356 (0.53)	-

– For the indoor unit already connected to EEV kit, the additional refrigerant charging is 0.0067lb/ft (0.01kg/m) regardless of the pipe size.

• Amount of additional refrigerant for each indoor unit ((b))

Unit : lb(kg)

Capacity Index (MBH)	5	6	7	9	12	15	18	20	24	27	28	30	32	36	42	48	54	60	72	76	96
1way cassette			0.55	0.55	0.55																
(AM****N1DCH/**)			(0.25)	(0.25)	(0.25)																
1way cassette	0.33		0.33	0.55	0.55	0.71	0.71		0.71												ı
(AM****N1PCH/**)	(0.15)		(0.15)	(0.25)	(0.25)	(0.32)	(0.32)		(0.32)												oxdot
4way cassette S (600x600) (AM****NNDCH/**)	0.64 (0.29)		0.64 (0.29)	0.64 (0.29)	0.64 (0.29)		0.82 (0.37)	0.82 (0.37)													
4way cassette S (AM***RN4DCH/**)		0.99 (0.45)		0.99 (0.45)	0.99 (0.45)		1.26 (0.57)		1.26 (0.57)			2.20 (1.00)		2.20 (1.00)		2.20 (1.00)					
4way cassette S		1.61		1.61	1.61		1.61		1.61			1.94		1.94		1.94					\Box
(AM***BN4PCH/**)		(0.73)		(0.73)	(0.73)		(0.73)		(0.73)			(0.88)		(0.88)		(0.88)					ı
360 cassette				0.99	0.99		0.99		0.99			1.52		1.52		1.52					
(AM***KN4DCH/**)				(0.45)	(0.45)		(0.45)		(0.45)			(0.69)		(0.69)		(0.69)					
LSP duct			0.77	0.77	0.77		0.99		0.99			0.93		0.93		1.37					
(AM***FNLDCH/**)			(0.35)	(0.35)	(0.35)		(0.45)		(0.45)			(0.42)		(0.42)		(0.62)					1
MSP duct		0.99	0.99	0.99	0.99	0.99	1.50														
(AM***ANMDCH/**)		(0.45)	(0.45)	(0.45)	(0.45)	(0.45)	(0.68)														
HSP duct (AM***ANHDCH/**)									1.50 (0.68)	1.50 (0.68)		1.50 (0.68)		1.85 (0.84)		1.85 (0.84)					
HSP duct (AM***FNHDCH/**) (AM***JNHDCH/**)																	2.01 (0.91)			2.60 (1.18)	2.60 (1.18)
OAP duct (AM***NE*CH/**)																			2.60 (1.18)		2.60 (1.18)
Floor Standing (AM****NFDCH/**) (AM****NGDCH/**)		0.26 (0.12)		0.49 (0.22)	0.49 (0.22)		0.71 (0.32)		0.71 (0.32)												
Ceiling (AM***NCDCH/**)							0.86 (0.39)		0.86 (0.39)					1.23 (0.56)		2.09 (0.95)					
MPAHU(V-AHU) (AM***NZDCH/**)					0.73 (0.33)		1.10 (0.50)		1.10 (0.50)			1.83		1.94 (0.88)		2.60	2.80	3.73 (1.69)	3.73 (1.69)		
Wall mounted (with EEV) (AM****NVDCH/**) (AM****NQDCH/**)	0.51 (0.23)		0.51 (0.23)	0.71 (0.32)	0.71 (0.32)	1.06 (0.48)	1.06 (0.48)		1.06 (0.48)		1.41 (0.64)	(0.03)	1.50 (0.68)	(0.00)		(1.10)	(1.27)	(1.07)	(1.07)		
MCU (MCU-S*NE**N)		1.10 (0.50)																			

- * If there is no additional refrigerant value for the indoor unit in the above table, refer to the indoor unit installation manual.
- If AHU kit is included among the indoor units, you must add 0.018kg(0.04lb) of refrigerant for every 1MBH of AHU capacity increase.
 - Note1) In case the capacity conjunction of the Hydro Unit HT exceeds 50% among the total indoor unit, please don't put the additional refrigerant.
- Method to calculate total amount of additional refrigerant
 - Amount of additional refrigerant depending on th pipe length (a)
 - Amount of additional refrigerant for each indoor unit (⑤) = ∑(Amount of additional refrigerant for each connected indoor unit)
 - * Refer to the table
 - Total amount of additional refrigerant = (a)+(b)
- ** Sum of total amount of additional refrigerant and the basic amount of refrigerant should not exceed 100kg (220lb). If the refrigerant exceeds 100kg (220lb), separate the module so that weight of the refrigerant doesn't exceed 100kg (220lb).
 - Ex> If the outdoor unit's basic refrigerant amount is 8.7kg (19.1lb), the total amount of additional refrigerant(@+6)) should not exceed 91.3kg (220.9lb)

• Example of refrigerant calculation for HP models

Classification	Size of liquid pipe	Length [m (ft)]	Unit amount of refrigerant [kg/m (lb/ft)]	Amount of additional refrigerant [kg (lb)]	Total amount of additional refrigerant [kg (lb)]
	[mm (inch)]	1)	2	①×②	Σ(①×②)
	Ø6.35 (Ø1/4)	35 (114.8)	0.02 (0.013)	0.7 (1.49)	
Liquid pipe (a)	Ø9.52 (Ø3/8)	50 (164.0)	0.06 (0.040)	3.0 (6.56)	(a) 5.575 (12.19)
	Ø12.70 (Ø1/2)	15 (49.2)	0.125 (0.084)	1.875 (4.13)	

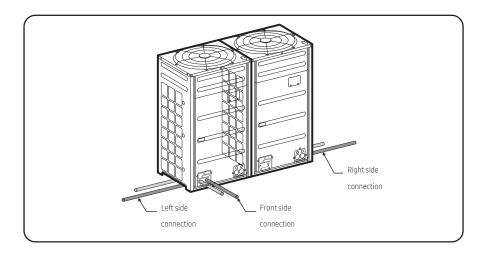
Classification	Model name of	Number of indoor units	Unit amount of refrigerant [kg/EA (lb/EA)]	Amount of additional refrigerant [kg (lb)]	Total amount of additional refrigerant [kg (lb)]
	indoor unit	1	2	①×②	Σ(①×②)
	4way cassette (AM018RN4DCH)	4	0.57 (1.26)	2.28 (4.92)	
Independent (D)	LSP duct (AM024FNLDCH)	2	0.45 (0.99)	0.90 (1.98)	() 7.70 (0.22)
Indoor unit ((b))	LSP duct (AM012FNLDCH)	1	0.35 (0.77)	0.35 (0.77)	(b) 3.78 (8.22)
	1way cassette (AM012AN1PCH)	1	0.25 (0.55)	0.25 (0.55)	

⁻ Total amount of refrigerant (ⓐ + ⓑ) = 5.575 + 3.78 = 9.355(kg) = 12.19 + 8.22 = 20.41(lb)

Refrigerant pipe installation

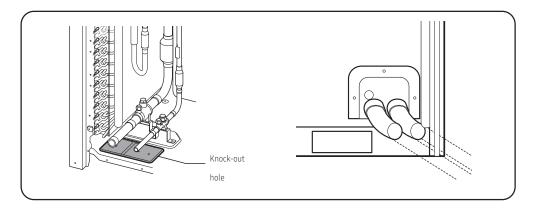
Pipe installation for an outdoor unit

1 Direction of the pipe Refrigerant pipe can be withdrawn from the front, left and right side. Take necessary method to install the pipes according to the condition of the installation site.



! CAUTION

• Caution for using knock-out hole



- Make sure to prevent any damages on the exterior of the outdoor unit.
- Remove all burrs around the knock-out hole and apply varnish on the cross section and edges of the knock-out hole to prevent rust.
- Use a cable protection tube and bushing to prevent a cable from being damaged when passing through a knock-out hole.

Refrigerant pipe installation

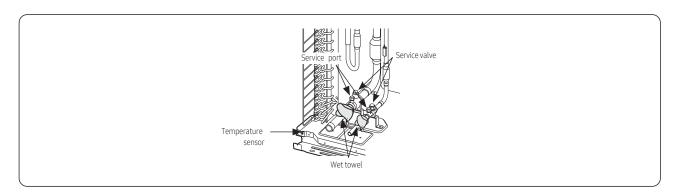
Pipe installation for an outdoor unit

2 Connecting refrigerant pipe for outdoor unit

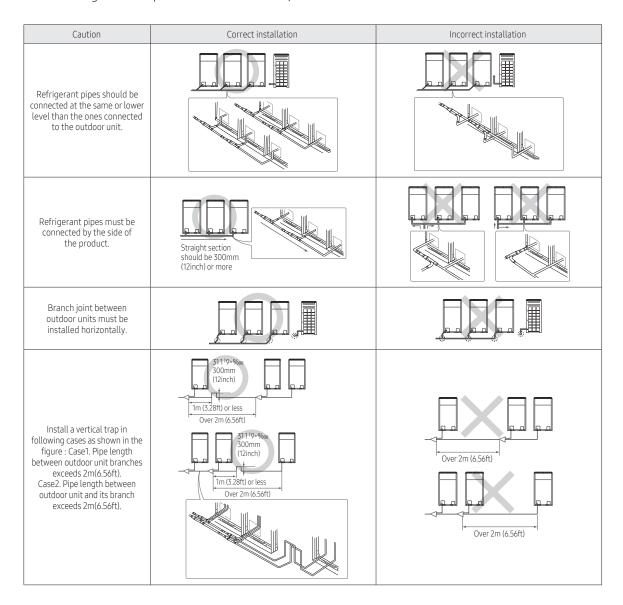
Classification	Front side connection	Right/left (and bottom) side connection
Working process	First, remove the piping cover from the outdoor unit. Separate the knock-out hole that you are going to use. If you separate the knock-out hole that is going to be unused, small animals such as squirrels and rats may get into the unit through the hole. Fix the bottom side of the piping cover first and then fix the top part of it.	Separate the knock-out hole at the bottom side of the unit and install the pipe. After installing and insulating the pipe, close up the remaining holes. If not, small animals such as rats and squirrels may get inside the unit.
H/P	Gas side pipe Liquid side pipe	Gas side pipe Liquid side pipe

! CAUTION

- Caution for welding the pipe to an outdoor unit
 - When welding the pipe, the unit may get damaged by the heat and flame from welding. Use a flame
 proofing cloth to protect the unit from a welding fire or flame. Sensor for detecting outside temperature is
 located on the left side of the welding part so be extra careful not to damage the sensor when welding.
 - The O-ring and Teflon packing inside service valve may get damaged by the heat from welding. Wrap the bottom side of the service valve with a wet cloth and weld it as shown in the illustration. Also, water dripping from the wet cloth may interrupt the welding. Make sure the water does not drip from the wet cloth.
 - Make sure that connected pipes does not interrupt each other or make contact with the product.
 (Vibration may cause damage to the pipes.)
 - When removing the sealed pipe on the bottom side of the service valve, cut it with a pipe cutter first and then start the welding.
 - When the sealed pipe is welded without cutting, you may get injured by the refrigerant within the pipe.



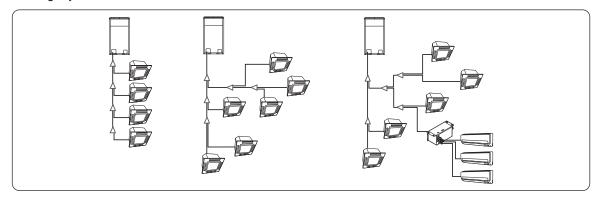
- 3 Pipe installation between the outdoor units
- You will need branch joints, which is an optional accessory, for connecting in between outdoor units in order to combine outdoor units in module.
 - * For optimal distribution of the refrigerant, you must use Y-joint as branch joint for connecting outdoor units. (Do not use T-joint)
- When you install the outdoor units in module, there is no restriction of installation order among outdoor units.
- Height of the connection pipe should be same or lower than the ones connected to the outdoor units.
- Check the changes in comparison with the DVM II, III and IV.



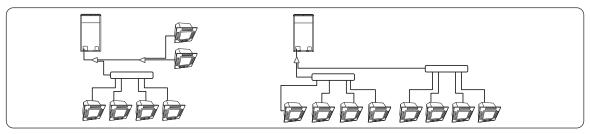
Refrigerant pipe installation

Examples of refrigerant pipe installation

1 Using Y-joint

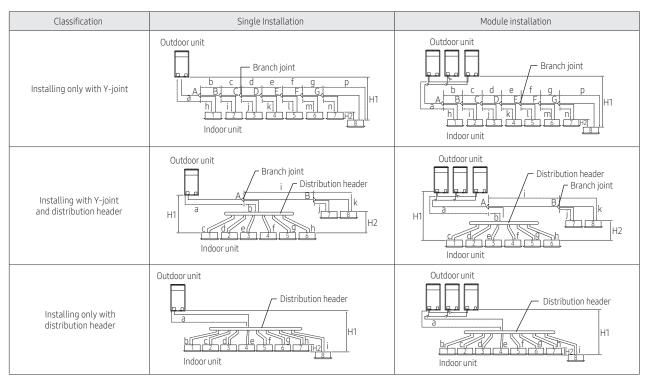


2 Using distribution header



Refrigerant pipe installation

Allowable length of the refrigerant pipe and the installation examples



	Classif	ication			Example	Remarks				
			200 m(656')	Installing only with Y-joint	a+b+c+d+e+f+g+p ≤ 200 m(220 m)/656'(722')	Equivalent length				
		Actual length (Equivalent length)	and below [220 m(722') and below]	Installing with Y-joint and distribution header	a+b+h≤200m (220m), a+i+k≤ 200 m(220 m)/656'(722')	Y-joint: 0.5 m (1.64'), Distribution header:				
	Outdoor		and below)	Installing only with distribution header	a+i ≤ 200 m(220 m)/656'(722')	1 m(3.28')				
Maximum	unit ~ Indoor unit			Installing only with Y-joint	a+b+c+d+e+f+g+h+i+ j+k+l+m+n+p≤1000 m (3281')	-				
allowable length of pipe		Total length of pipe (m)	1000 m(3281') or less	Installing with Y-joint and distribution header	a+b+c+d+e+f+g+h+i+j+k ≤1000 m (3281')	-				
				Installing only with distribution header	a+b+c+d+e+f+g+h+i ≤1000 m (3281')	-				
	Outdoor unit ~	Pipe length	10 m (33') or less	x ≤ 10 m (33'), y ≤ 10 m (33')), z ≤ 10 m (33')					
	Outdoor unit (Module installation)	Equivalent length	13 m (43') or less	x ≤ 13 m (43'), y ≤ 13 m (43')	X Z					
Maximum allowable	Outdoor unit ~ Indoor unit	110/110 m(361'/3	61') Note 2)	H1 ≤ 110/110 m(361'/361')						
height difference of	Indoor unit	50 m (164') or les	SS	H2 ≤ 50 m (164')		·				
pipe	~ Indoor unit	But, when wall-r	nount type indoor ι	units with EEV (AM****NQD* / AM****NVD*) is installed, H2 is 15 m(49') or less.						

	Classifi	cation			Remarks	
				Installing only with Y-joint	b+c+d+e+f+g+p ≤ 45m (148')	
Maximum allowable	First branch		45m (148') or less	Installing with Y-joint and distribution header	i+k ≤ 45m (148')	-
length after branch joint	joint ~ Farthest Indoor unit	Pipe length		Installing only with distribu-tion header	i ≤ 45m (148')	
			45m~90m (148'~295') Note 1)	Required conditions must b	e satisfied	-

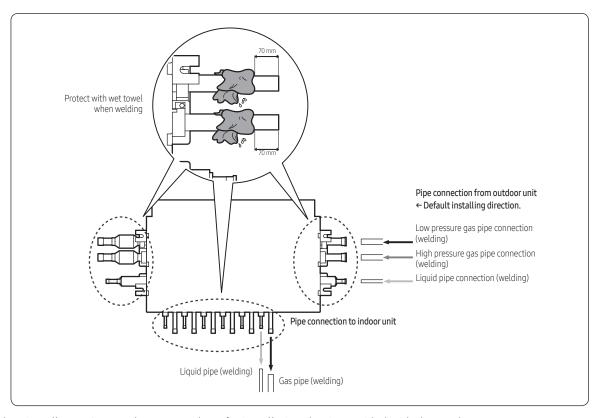
	EEV kit		N	Remarks	
		2m (6.6')	MEV-E24SA	1 indoor	
		2111 (0.07)	MEV-E32SA	i ilidool	
			MXD-E24K132A		
			MXD-E24K200A	2 indoor	Apply to products
EEV kit ~ Indoor unit	Actual pipe length		MXD-E32K200A		without EEV (Wall
		20m (66') or less	MXD-E24K232A		mount & ceiling)
			MXD-E24K300A	3 indoor	
			MXD-E32K224A	3 1110001	
			MXD-E32K300A		

* Please refer to the EEV Kit manual.Note 1) Required condition

Classification	Condition	Example
First branch joint ~ Farthest Indoor unit	45m (148') ≤ b+c+d+e+f+g+p ≤ 90m (295'): branch pipes (b, c, d, e, f, g) size must be increased by 1 grade	
Total length of	If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is not increased by 1 grade, a+(b+c+d+e+f+g)×2 +h+i+j+k+l+m+n+p≤1000m (3281')	
extended pipe	If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is increased by 1 grade, (a+b+c+d+e+f+g)×2 +h+i+j+k+l+m+n+p≤1000m (3281')	A B C D E F G P H1
Each Y-joint ~ Each indoor unit	h, i, j, p ≤ 45m (148')	1 2 3 4 5 6 7 H2
Difference between	the distance of the outdoor unit to the farthest indoor unit and nearest	
indoor	unit ≤ 45m(148'), (a+b+c+d+e+f+g+p)-(a+h) ≤ 45m (148')	

Note 2) When indoor unit is located at higher level than outdoor unit, allowable height difference is 110m(361'), (If the height difference is over 40m(131'), contact your local dealer for more information.) but when the indoor unit is located at lower level than outdoor unit, allowable height difference is 110m(361') (If the height difference is over 50m(164'), need to decide whether to install PDM kit or not.) Model name of the PDM kit: MXD-A38K2A, MXD-A12K2A, MXD-A58K2A

How to connect the pipes



- * When installing MCU, use the pattern sheet for installation that is provided with the product.
- When welding the gas pipes, protect the product with the flame-proof sheet.
- * When connecting the MCU with outdoor units, default direction is set in the MCU.

 If installing opposite direction, weld the enclosed copper cap in each high pressure, low pressure and liquid pipes.

Electrical wiring work

Electric Characteristics

1. Heat Pump / Heat Recovery (208~230V)

						Mod	ule#1					Mod	ule#2			Module #3							
Nom. Ton	Model		Units	R	RLA		RLA		FLA		Power Supply		RLA		FLA		Supply	RLA		F	LA	Power Supply	
1011		Hz	Volts	Comp1	Comp2	FAN1	FAN2	MCA	МОР	Comp1	Comp2	FAN1	FAN2	MCA	МОР	Comp1	Comp2	FAN1	FAN2	MCA	МОР		
6Ton	AM072BXVTF*	60	208~230	18	18	4.2	4.2	50	60	-	-	-	-	-	-	-	-	-	-	-	-		
8Ton	AM096BXVTF*	60	208~230	22	22	4.2	4.2	62	70	-	-	-	-	-	-	-	-	-	-	-	-		
10Ton	AM120BXVTF*	60	208~230	28	28	4.2	4.2	76	90	-	-	-	-	-	-	-	-	-	-	-	-		
12Ton	AM144BXVTF*	60	208~230	18	18	4.2	4.2	50	60	18	18	4.2	4.2	50	60	-	-	-	-	-	-		
14Ton	AM168BXVTF*	60	208~230	18	18	4.2	4.2	50	60	22	22	4.2	4.2	62	70	-	-	-	-	-	-		
16Ton	AM192BXVTF*	60	208~230	18	18	4.2	4.2	50	60	28	28	4.2	4.2	76	90	-	-	-	-	-	-		
18Ton	AM216BXVTF*	60	208~230	22	22	4.2	4.2	62	70	28	28	4.2	4.2	76	90	-	-	-	-	-	-		
20Ton	AM240BXVTF*	60	208~230	28	28	4.2	4.2	76	90	28	28	4.2	4.2	76	90	-	-	-	-	-	-		
22Ton	AM264BXVTF*	60	208~230	18	18	4.2	4.2	50	60	18	18	4.2	4.2	50	60	28	28	4.2	4.2	76	90		
24Ton	AM288BXVTF*	60	208~230	18	18	4.2	4.2	50	60	22	22	4.2	4.2	62	70	28	28	4.2	4.2	76	90		
26Ton	AM312BXVTF*	60	208~230	18	18	4.2	4.2	50	60	28	28	4.2	4.2	76	90	28	28	4.2	4.2	76	90		
28Ton	AM336BXVTF*	60	208~230	22	22	4.2	4.2	62	70	28	28	4.2	4.2	76	90	28	28	4.2	4.2	76	90		
30Ton	AM360BXVTF*	60	208~230	28	28	4.2	4.2	76	90	28	28	4.2	4.2	76	90	28	28	4.2	4.2	76	90		

2. Heat Pump / Heat Recovery (460V)

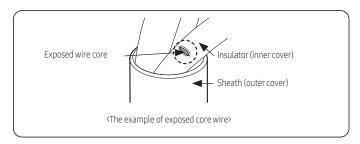
						Mod	ule#1					Mod	ule#2					Modu	ıle#3		
Nom. Ton	Model	'	Units				FLA Power Supply		R	RLA		FLA		Power Supply		LA	FLA		Power Supply		
1011		Hz	Volts	Comp1	Comp2	FAN1	FAN2	МСА	МОР	Comp1	Comp2	FAN1	FAN2	MCA	МОР	Comp1	Comp2	FAN1	FAN2	MCA	МОР
6Ton	AM072BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	-	-	-	-	-	-	-	-	-	-	-	-
8Ton	AM096BXVTJ*	60	460	11.0	11.0	2.1	2.1	31	35	-	-	-	-	-	-	-	-	-	-	-	-
10Ton	AM120BXVTJ*	60	460	14.0	14.0	2.1	2.1	38	45	-	-	-	-	-	-	-	-	-	-	-	-
12Ton	AM144BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	9.2	9.2	2.1	2.1	25	30	-	-	-	-	-	-
14Ton	AM168BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	11.0	11.0	2.1	2.1	31	35	-	-	-	-	-	-
16Ton	AM192BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	14.0	14.0	2.1	2.1	38	45	-	-	-	-	-	-
18Ton	AM216BXVTJ*	60	460	11.0	11.0	2.1	2.1	31	35	14.0	14.0	2.1	2.1	38	45	-	-	-	-	-	-
20Ton	AM240BXVTJ*	60	460	14.0	14.0	2.1	2.1	38	45	14.0	14.0	2.1	2.1	38	45	-	-	-	-	-	-
22Ton	AM264BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	9.2	9.2	2.1	2.1	25	30	14	14	2.1	2.1	38	45
24Ton	AM288BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	11.0	11.0	2.1	2.1	31	35	14	14	2.1	2.1	38	45
26Ton	AM312BXVTJ*	60	460	9.2	9.2	2.1	2.1	25	30	14.0	14.0	2.1	2.1	38	45	14	14	2.1	2.1	38	45
28Ton	AM336BXVTJ*	60	460	11.0	11.0	2.1	2.1	31	35	14.0	14.0	2.1	2.1	38	45	14	14	2.1	2.1	38	45
30Ton	AM360BXVTJ*	60	460	14.0	14.0	2.1	2.1	38	45	14.0	14.0	2.1	2.1	38	45	14	14	2.1	2.1	38	45

- RLA is based on AHRI 1230 Cooling Standard Condton (Indoor Temp : 26.7°C / 80°F (DB) / 19.46°C / 67°F (WB), Outdoor Temp : 35°C / 95°F (DB))
- Voltage Tolerance is \pm 10%
- Maximum allowable voltage between phases is 2%
- Refer to module combination table for independent units information
- Symbols:
 - RLA : Rated Load Ampere - FLA : Full Load Ampere
 - MCA: Minimum Circuit Ampere (A)
 - MOP: Maximum Overcurrent Protective Device (A)"

Electrical wiring work

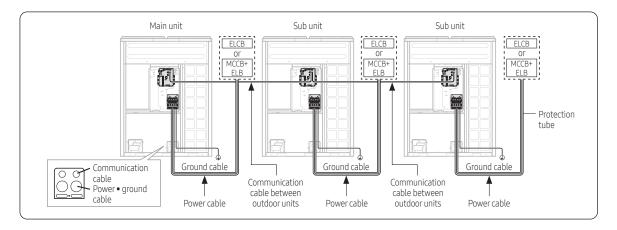
CAUTION

- Caution for electrical work
 - You must install ELCB or MCCB + ELB
 - ELCB: Earth leakage breaker
 - MCCB: Molded case circuit breaker
 - ELB: Earth leakage breaker
 - Do not operate the outdoor unit before completing the refrigerant pipe work.
 - Do not disconnect or change the cable inside the product. It may cause damage to the product.
 - Specification of the power cable is selected based on following installation condition; culvert installation/ ambient temperature 30°C/ single multi conductor cables. If the condition is different from the ones stated, please consult an electrical installation expert and re-select the power cable.
 - If the length of power cable exceed 50m, re-select the power cable considering the voltage drop.
 - Use a power cable made out of incombustible material for the insulator (inner cover) and the sheath (outer cover).
 - Do not use the power cable with the core wire exposed due to insulator damage occurred during removal of the sheath. When the core wire is exposed, it may cause fire



Power and communication cable configuration

- Main power and the ground cable must be withdrawn through the knock-out hole on the bottom-right or right side of the cabinet.
- Withdraw the communication cable from the designated knock-out hole on the bottom-right side of the front part.
- Install the power and communication cable using separate cable protection tube.
- Fix a protection tube to the knock-out hole on the outdoor unit by using a CD connector or bushing. Make sure to use insulating bushing.

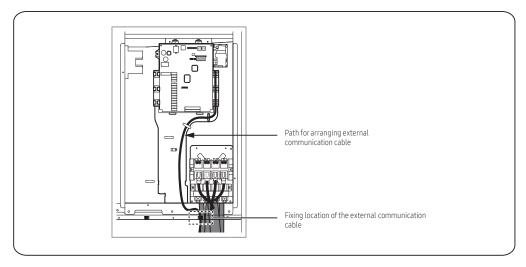


Specification of the protection tube

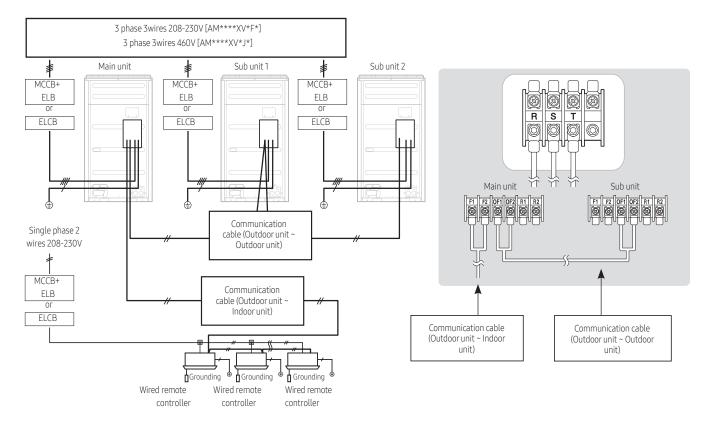
Name	Temper grade	Applicable conditions
Flexible PVC conduit	PVC	When the protection tube is installed indoor and not exposed to outside, because it is embedded in concrete structure
Class 1 flexible conduit	Galvanized steel sheet	When the protection tube is installed indoor but exposed to outside so there are risk of damage to the protection tube
Class 1 PVC coated flexible conduit	Galvanized steel sheet and Soft PVC compound	When the protection tube is installed outdoor and exposed to outside so there are risk of damage to the protection tube and extra waterproof is needed

CAUTION

- Caution for perforating the knock-out hole
- Perforate a knock-out hole by punching it with a hammer
- After perforating the knock-out hole, apply rust resisting paint around the hole.
- When you need to pass the cables through the knock-out hole, remove burrs on the hole and protection the cable with a protection tape or bushing etc.
- Caution for installing communication cable
- When you connect the cable, it may sag and pressed by other parts. Therefore cables should be fixed to a clamp highlighted with a box on the illustration.



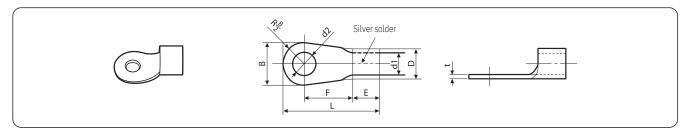
Power wiring diagram



- Connect a power cable of the outdoor unit after checking that R-S-T (3 phase 3 wire) is properly connected.
- Malfunction may occur if one or more of the wires among R-S-T phases (3 Phases 3 Wires) are not connected properly.
 - (*Malfunction : Turing on/off, occurrence of error, consecutive reset)
- Communication cable between indoor and outdoor units and communication cable between outdoor units has no polarity.
- Arrange the cables with a cable tie.
- * ELCB and ELB must be installed since there is risk of electric shock or fire when they are not installed.

Selecting solderless ring terminal

- Select a solderless ring terminal for a power cable according to the nominal dimensions for cable
- Apply insulation coating to the connection part of the solderless ring terminal and the power cable

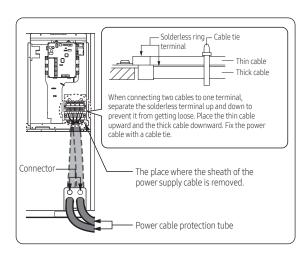


Nominal dimensions for cable [mm2 (inch2)]		4/6 (0.006/0.009)		10 (0.01)	16 (0.02)	25 (0.03)		35 (0.05)		50 (0.07)	70 (0.10)
Nominal dimensions for screw [mm (inch)]		4 (3/8)	8 (3/16)	8 (3/16)	8 (3/16)	8 (3/16)	8 (3/16)	8 (3/16)	8 (3/16)	8 (3/16)	8 (3/16)
В -	Standard dimension [mm (inch)]	9.5 (3/8)	15 (9/16)	15 (9/16)	16 (10/16)	12 (1/2)	16.5 (10/16)	16 (10/16)	22 (7/8)	22 (7/8)	24 (1)
	Allowance [mm (inch)]	±0.2 (±0.007)		±0.2 (±0.007)	±0.2 (±0.007)	±0.3 (±0.011)		±0.3 (±0.011)		±0.3 (±0.011)	±0.4 (±0.015)
D	Standard dimension [mm (inch)]	5.6 (1/4)		7.1 (1/4)	9 (3/8)	11.5 (7/16)		13.3 (1/2)		13.5 (1/2)	17.5 (1/2)
	Allowance [mm (inch)]	+0.3 (+0.011) -0.2 (-0.007)		+0.3 (+0.011) -0.2 (-0.007)	+0.3 (+0.011) -0.2 (-0.007)	+0.5 (+0.019) -0.2 (-0.007)		+0.5 (+0.019) -0.2 (-0.007)		+0.5 (+0.019) -0.2 (-0.007)	+0.5 (+0.019) -0.4 (-0.015)
d1	Standard dimension [mm (inch)]	3.4 (1/8)		4.5 (3/16)	5.8 (1/4)	7.7 (5/16)		9.4 (3/8)		11.4 (7/16)	13.3 (1/2)
	Allowance [mm (inch)]	±0.2 (±0.007)		±0.2 (±0.007)	±0.2 (±0.007)	±0.2 (±0.007)		±0.2 (±0.007)		±0.3 (±0.011)	±0.4 (±0.015)
Е	Min. [mm (inch)]	6 (1/4)		7.9 (5/16)	9.5 (5/16)	11 (3/8)		12.5 (1/2)		17.5 (11/16)	18.5 (3/4)
F	Min. [mm (inch)]	5 (3/16)	9 (3/8)	9 (3/8)	13 (1/2)	15 (5/8)	13 (1/2)	13 (1/2)	13 (1/2)	14 (9/16)	20 (3/4)
L	Max. [mm (inch)]	20 (3/4)	28.5 (1-1/8)	30 (1-3/16)	33 (1-5/16)	34 (1-3/8)		38 (1-1/2)	43 (1-11/16)	50 (2)	51 (2)
d2	Standard dimension [mm (inch)]	4.3 (3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)	8.4 (1-3/16)
	Allowance [mm (inch)]	+ 0.2 (+0.007) 0 (0)	+ 0.4 (+0.015) 0 (0)	+ 0.4 (+0.015) 0 (0)	+ 0.4 (+0.015) 0 (0)	+ 0.4 (+0.015) 0 (0)		+ 0.4 (+0.015) 0 (0)		+ 0.4 (+0.015) 0 (0)	+ 0.4 (+0.015) 0 (0)
t	Min. [mm (inch)]	0.9 (0.03)	1.15 (0.04)	1.45 (0.05)	1.7 (0.06)		1.8 (0.07)		1.8 (0.07)	2.0 (0.078)

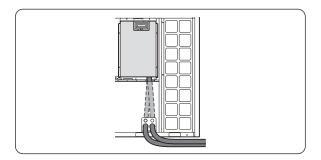
Connecting the power terminal

- Connect the cables to the terminal board with solderless ring terminals.
- Properly connect the cables by using certified and rated cables and make sure to fix them properly so that external force is not applied to the terminal.
- Use a driver and wrench that can apply the rated torque when tightening the screws on the terminal board.
- Tighten the terminal screws by complying rated torque value. If the terminal is loose, fire can occur due to arc heat generation and if the terminal is too tight, terminal board could get damaged.

1 Front connection



2 Closing the cover

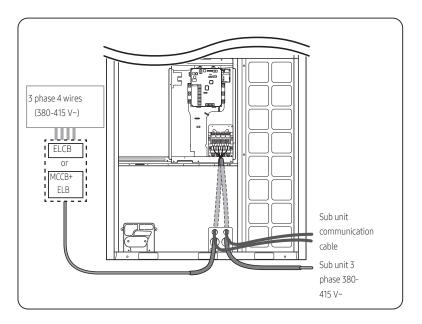


Screw		ng torque for rminal	Remarks				
	N⋅m	lbf∙ft					
M3.5	0.78~1.18 0.6~0.9		communication cable				
M4	1.2~1.8	0.9~1.3	Single phase 208~230V power cable				
M8	M8 5.5~7.3 4.1~5.4		3 phase 208~230V / 460V power cable				

A CAUTION

- When removing the outer sheath of the power supply cable, be careful not to scratch the inner sheath of the cable.
- Make sure that more than 20mm (0.79inch) of the outer sheath of the indoor unit power and communication cable are inside the electrical component box.
- Install the communication cable separately from power cable and other communication cables.
- There is a risk of electric shock when power is applied. Close the cover of the control box before proceeding to work
- To inspect the compressor or PBA, first make sure to turn off the system. Electricity may flow even in a compressor that has not been used recently. Exercise caution to protect yourself from an electric shock.

Fixing the power cable

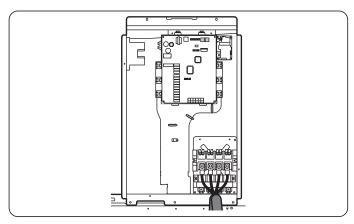


! CAUTION

- Do not let the power cable come into contact with the pipes inside the outdoor unit. If the power supply cable touches the pipes, the vibration of the compressor is transferred to the pipes and can damage the power supply cables or pipes, creating the danger of fire or explosion.
- Make sure that the place where the sheath of power supply cable is removed is inside the power supply box. If it is impossible, you should connect the protection tube for power cable to the power supply box.
- After arranging the power cable into the power supply box, tighten the cover.

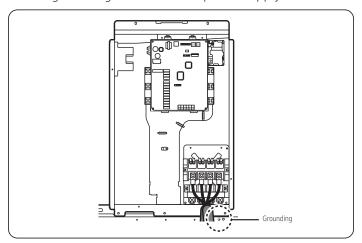
Connect the ring terminal of 3 phase cable

- 1 Cut the power cable to an appropriate length and connect it with the solderless terminal.
- 2 After connecting the power cable to the terminal as seen in the illustration, fix it with cable tie.
- 3 Fix the housing, which has an insulator, to the terminal board.



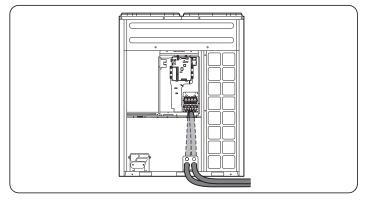
Fixing the ground cable

• Connect the ground cable to the grounding hole inside the power supply box



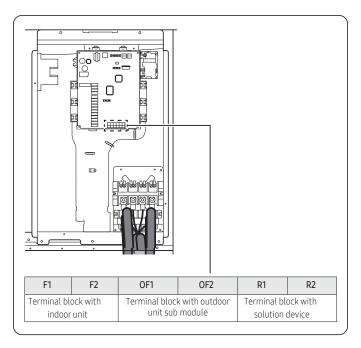
Withdrawing the power cable

- Withdrawing from the front side
 - Connect the power cable protection tube into the power supply box as shown picture.
 - Be sure that the power supply cable is not damaged by burr on the knock-out hole.

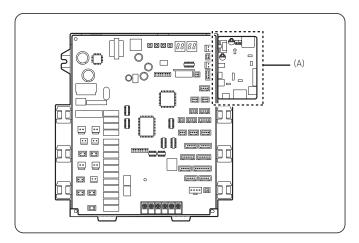


Installing the Solution device

When the number of indoor units installed with the outdoor unit is 16 or less



Where to install the interface module



- Install the interface module in location (A), considering the installation conditions.
 - For details on how to install, refer to the interface module installation manual.

11. AHRI Data

	Rated Capacity (Btu/h)		EER (Btu/h)		IEER (Btu/h)		COP (W/W)		Low COP(17F) (W/W)		SCHE (Btu/h/W)	
Model	Cooling	Heating	Non- Ducted	Ducted	Non- Ducted	Ducted	Non- Ducted	Ducted	Non- Ducted	Ducted	Non- Ducted	Ducted
AM072BXVT**	69,000	77,000	14.43	12.66	34.60	24.70	4.55	4.14	2.69	2.46	29.80	26.10
AM096BXVT**	92,000	103,000	14.75	12.81	36.10	26.10	4.42	3.94	2.60	2.47	29.60	26.40
AM120BXVT**	114,000	129,000	13.86	12.65	33.60	26.20	4.33	3.92	2.08	2.32	29.40	25.60
AM144BXVT**	138,000	154,000	14.00	12.28	32.90	21.10	4.28	3.89	2.56	2.34	27.70	25.80
AM168BXVT**	160,000	180,000	14.01	12.23	33.20	24.10	4.17	3.86	2.49	2.32	26.80	24.80
AM192BXVT**	182,000	206,000	13.58	12.15	32.10	24.10	4.13	3.83	2.27	2.27	25.90	23.90
AM216BXVT**	206,000	232,000	13.59	12.09	31.70	24.10	4.03	3.81	2.18	2.23	26.40	23.90
AM240BXVT**	228,000	258,000	13.17	12.02	31.60	24.00	3.98	3.80	2.06	2.16	23.40	23.40
AM264BXVT**	252,000	282,000	13.10	11.58	31.50	23.40	3.76	3.74	2.31	2.15	23.50	23.00
AM288BXVT**	274,000	308,000	12.91	11.5	31.30	23.00	3.68	3.60	2.28	2.13	23.80	22.00
AM312BXVT**	296,000	334,000	12.36	11.13	29.90	22.60	3.61	3.51	2.12	2.11	24.50	21.39
AM336BXVT**	320,000	360,000	12.17	10.92	29.60	22.30	3.53	3.38	2.07	2.09	24.20	21.21
AM360BXVT**	342,000	386,000	11.64	10.63	28.20	22.00	3.46	3.33	2.06	2.06	23.80	20.74

