

SAMSUNG

VRF

Technical Data Book

DVM S2 for Latin America
(R410A, 60Hz, HP)



Model : AM***CXVAFH/AZ, AM***CXVAJH/AZ

History

Version	Modification	Date	Remark
Ver.1.0	Released DVM S2 HP TDB for Latin America	22.08.08	
Ver.1.1	Updated the specification/sound/installation pages	22.09.16	

Nomenclature

Outdoor Unit

Model Name

AM

240

C

X

V

A

F

H

/

AZ

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

Buyer

(1) Classification

AM	DVM
----	-----

(5) Feature 1

V	Inverter
---	----------

(2) Capacity

x 1/10 HP (3 digits)

(6) Feature 2

A	Standard + General Temp. + Module
H	High EER + Low Temp. + Module
G	High EER + General Temp. + Module
D	Standard + General Temp. + Non-Module

(3) Version

B	2022
C	2023

(7) Rating Voltage

E	1Ø, 220~240V, 50Hz
F	3Ø, 208~230V, 60Hz
J	3Ø, 460V, 60Hz

(4) Product Type

X	Outdoor Unit
N	Indoor Unit

(8) Mode

H	Heat Pump
R	Heat Recovery

Features & Benefits

Rebuilt on all new innovations

Rethink your approach to air conditioning with the Samsung DVM S2. It delivers outstanding comfort and energy efficiency, even in extreme climates. Its intelligent features make installation and maintenance easier and more cost-effective.



Perfectly compatible with WindFree™

Active Frequency Drive 10Hz

Enjoy continuous comfort and avoid wasting energy. Active Frequency Drive 10Hz technology enables the compressor to precisely control a small amount of refrigerant. So it maintains a more consistent temperature and is compatible with Samsung's WindFree™ Cooling.

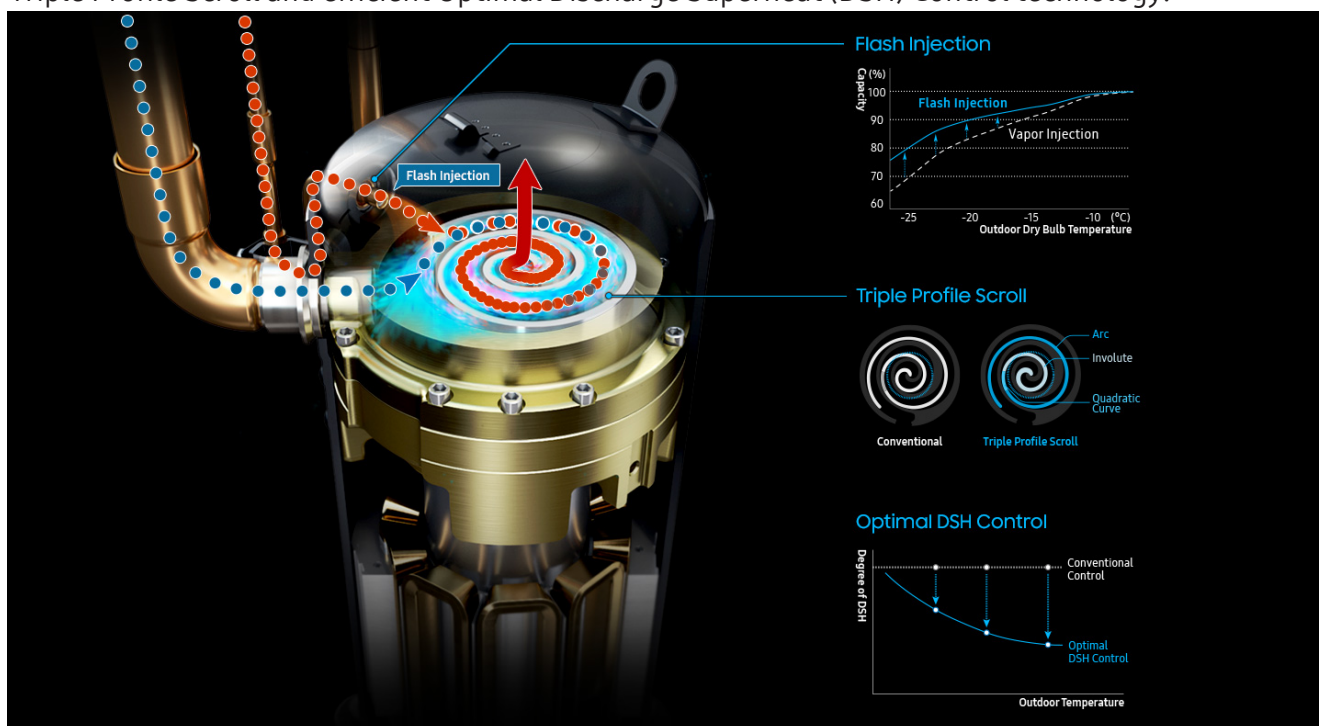


Features & Benefits

Enabling a new era of consistent comfort

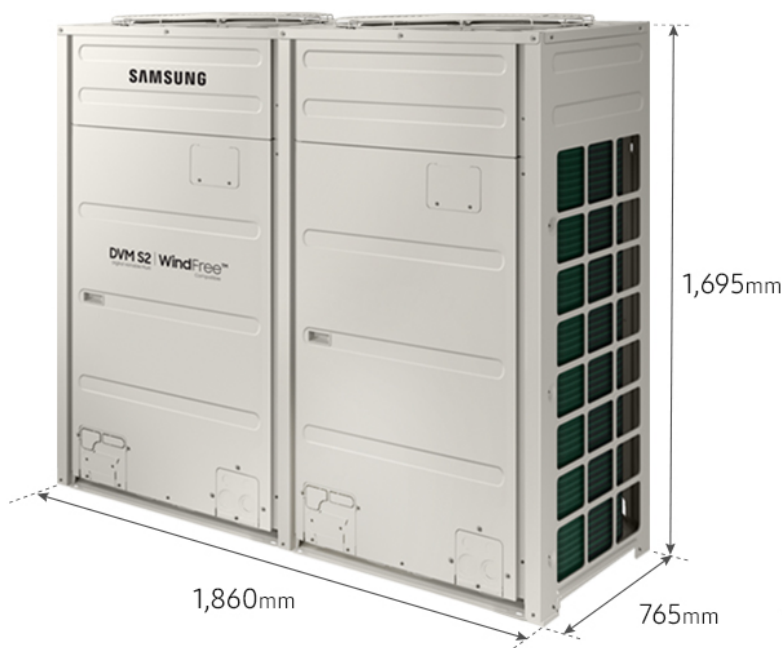
Advanced Flash Injection Compressor

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.



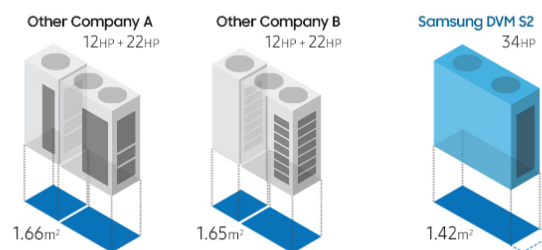
* Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (= 88cc x 140rps).

More powerful performance, less space



34HP Super Capacity with a Compact Design

Enjoy an exceptionally powerful performance and use less space. It's the first outdoor unit to offer super capacities of 32HP and 34HP in a single unit. Their compact design saves up to 18% space* and helps reduce the cost and effort of installation.



* Based on internal testing compared to both Samsung conventional outdoor units and those of other brands.

Contents

1. Combination Table / Design Procedure & Combination Ratio	7
2. Specification	15
3. Electric Characteristics	79
4. Dimensional Drawing	80
5. Center of Gravity	83
6. Electrical Wiring Diagrams	86
7. Sound Data	91
8. Operation Range	105
9. Piping Diagram	107
10. Installation	114

1. Combination Table

DVM S2 (208~230V)

System Model			Capacity (HP)									
Capa (HP)	Model Name	Number of individual outdoor units										
			8	10	12	14	16	18	20	22	24	26
8	AM080CXVAFH/AZ	1	1									
10	AM100CXVAFH/AZ	1		1								
12	AM120CXVAFH/AZ	1			1							
14	AM140CXVAFH/AZ	1				1						
16	AM160CXVAFH/AZ	1					1					
18	AM180CXVAFH/AZ	1						1				
20	AM200CXVAFH/AZ	1							1			
22	AM220CXVAFH/AZ	1								1		
24	AM240CXVAFH/AZ	1									1	
26	AM260CXVAFH/AZ	1										1
28	AM280CXVAFH/AZ	2			1		1					
30	AM300CXVAFH/AZ	2			1			1				
32	AM320CXVAFH/AZ	2			1				1			
34	AM340CXVAFH/AZ	2			1					1		
36	AM360CXVAFH/AZ	2			1						1	
38	AM380CXVAFH/AZ	2			1							1
40	AM400CXVAFH/AZ	2							2			
42	AM420CXVAFH/AZ	2							1	1		
44	AM440CXVAFH/AZ	2								2		
46	AM460CXVAFH/AZ	2								1	1	
48	AM480CXVAFH/AZ	2									2	
50	AM500CXVAFH/AZ	2									1	1
52	AM520CXVAFH/AZ	2										2
54	AM540CXVAFH/AZ	3			1				1	1		
56	AM560CXVAFH/AZ	3			1					2		
58	AM580CXVAFH/AZ	3			1					1	1	
60	AM600CXVAFH/AZ	3			1						2	
62	AM620CXVAFH/AZ	3			1						1	1
64	AM640CXVAFH/AZ	3			1							2
66	AM660CXVAFH/AZ	3								3		
68	AM680CXVAFH/AZ	3								2	1	
70	AM700CXVAFH/AZ	3								2		1
72	AM720CXVAFH/AZ	3								1	1	1
74	AM740CXVAFH/AZ	3									2	1
76	AM760CXVAFH/AZ	3									1	2
78	AM780CXVAFH/AZ	3										3
80	AM800CXVAFH/AZ	4			1					2	1	
82	AM820CXVAFH/AZ	4			1					1	2	
84	AM840CXVAFH/AZ	4			1						3	
86	AM860CXVAFH/AZ	4			1						2	1
88	AM880CXVAFH/AZ	4			1						1	2
90	AM900CXVAFH/AZ	4			1							3
92	AM920CXVAFH/AZ	4					1				1	2
94	AM940CXVAFH/AZ	4					1					3
96	AM960CXVAFH/AZ	4								2		2
98	AM980CXVAFH/AZ	4								1	1	2

- Make sure to use an indoor unit that is compatible with DVM S.
- 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.
- Total capacity of the connected indoor units can be allowed from 50% to 130% of the total outdoor unit capacity.
 $0.5 \times \Sigma (\text{Outdoor unit capacity}) \leq \text{Total capacity of the connected indoor units} \leq 1.3 \times \Sigma (\text{Outdoor unit capacity})$
 - ※ 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***NQDEH***, AM***JNVDKH***) can be connected.

1. Combination Table

DVM S2 (460V)

System Model			Capacity (HP)														
Capa (HP)	Model Name	Number of individual outdoor units															
			8	10	12	14	16	18	20	22	24	26	28	30	32	34	
8	AM080CAVAJH/AZ	1	1														
10	AM100CAVAJH/AZ	1		1													
12	AM120CAVAJH/AZ	1			1												
14	AM140CAVAJH/AZ	1				1											
16	AM160CAVAJH/AZ	1					1										
18	AM180CAVAJH/AZ	1						1									
20	AM200CAVAJH/AZ	1							1								
22	AM220CAVAJH/AZ	1								1							
24	AM240CAVAJH/AZ	1									1						
26	AM260CAVAJH/AZ	1										1					
28	AM280CAVAJH/AZ	1											1				
30	AM300CAVAJH/AZ	1												1			
32	AM320CAVAJH/AZ	1													1		
34	AM340CAVAJH/AZ	1														1	
36	AM360CAVAJH/AZ	2			1						1						
38	AM380CAVAJH/AZ	2			1							1					
40	AM400CAVAJH/AZ	2						1		1							
42	AM420CAVAJH/AZ	2							1	1							
44	AM440CAVAJH/AZ	2								2							
46	AM460CAVAJH/AZ	2								1	1						
48	AM480CAVAJH/AZ	2									2						
50	AM500CAVAJH/AZ	2									1	1					
52	AM520CAVAJH/AZ	2										2					
54	AM540CAVAJH/AZ	3			1				1	1							
56	AM560CAVAJH/AZ	3			1					2							
58	AM580CAVAJH/AZ	3			1					1	1						
60	AM600CAVAJH/AZ	3			1						2						
62	AM620CAVAJH/AZ	3			1						1	1					
64	AM640CAVAJH/AZ	3			1							2					
66	AM660CAVAJH/AZ	3						1		1		1					
68	AM680CAVAJH/AZ	3								2	1						
70	AM700CAVAJH/AZ	3								2		1					
72	AM720CAVAJH/AZ	3								1	1	1					
74	AM740CAVAJH/AZ	3									2	1					
76	AM760CAVAJH/AZ	3									1	2					
78	AM780CAVAJH/AZ	3										3					
80	AM800CAVAJH/AZ	4			1					2	1						
82	AM820CAVAJH/AZ	4			1					1	2						
84	AM840CAVAJH/AZ	4			1						3						
86	AM860CAVAJH/AZ	4			1						2	1					
88	AM880CAVAJH/AZ	4			1						1	2					
90	AM900CAVAJH/AZ	4			1							3					
92	AM920CAVAJH/AZ	4					1				1	2					
94	AM940CAVAJH/AZ	4					1					3					
96	AM960CAVAJH/AZ	4								2		2					
98	AM980CAVAJH/AZ	4								1	1	2					

- Make sure to use an indoor unit that is compatible with DVM S.
- 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.
- Total capacity of the connected indoor units can be allowed from 50% to 130% of the total outdoor unit capacity.
 $0.5 \times \Sigma (\text{Outdoor unit capacity}) \leq \text{Total capacity of the connected indoor units} \leq 1.3 \times \Sigma (\text{Outdoor unit capacity})$
 - ※ 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***NQDEH***, AM***JNVDKH***) can be connected.

1. Combination Table

External Appearance

DVM S2 (208~230V)

Capa [HP]	Model Name	Model	Capa [HP]	Model Name	Model
8 10 12	AM080CXVAFH/AZ AM100CXVAFH/AZ AM120CXVAFH/AZ		66 68 70 72 74 76 78	AM660CXVAFH/AZ AM680CXVAFH/AZ AM700CXVAFH/AZ AM720CXVAFH/AZ AM740CXVAFH/AZ AM760CXVAFH/AZ AM780CXVAFH/AZ	
14 16 18 20 22 24 26	AM140CXVAFH/AZ AM160CXVAFH/AZ AM180CXVAFH/AZ AM200CXVAFH/AZ AM220CXVAFH/AZ AM240CXVAFH/AZ AM260CXVAFH/AZ				
28 30 32 34 36 38	AM280CXVAFH/AZ AM300CXVAFH/AZ AM320CXVAFH/AZ AM340CXVAFH/AZ AM360CXVAFH/AZ AM380CXVAFH/AZ		80 82 84 86 88 90	AM800CXVAFH/AZ AM820CXVAFH/AZ AM840CXVAFH/AZ AM860CXVAFH/AZ AM880CXVAFH/AZ AM900CXVAFH/AZ	
40 42 44 46 48 50 52	AM400CXVAFH/AZ AM420CXVAFH/AZ AM440CXVAFH/AZ AM460CXVAFH/AZ AM480CXVAFH/AZ AM500CXVAFH/AZ AM520CXVAFH/AZ				
54 56 58 60 62 64	AM540CXVAFH/AZ AM560CXVAFH/AZ AM580CXVAFH/AZ AM600CXVAFH/AZ AM620CXVAFH/AZ AM640CXVAFH/AZ	 	92 94 96 98	AM920CXVAFH/AZ AM940CXVAFH/AZ AM960CXVAFH/AZ AM980CXVAFH/AZ	

1. Combination Table

External Appearance

DVM S2 (460V)

Capa [HP]	Model Name	Model	Capa [HP]	Model Name	Model
8 10 12	AM080CXVAJH/AZ AM100CXVAJH/AZ AM120CXVAJH/AZ		54 56 58 60 62 64	AM540CXVAJH/AZ AM560CXVAJH/AZ AM580CXVAJH/AZ AM600CXVAJH/AZ AM620CXVAJH/AZ AM640CXVAJH/AZ	  
14 16 18 20 22 24 26 28	AM140CXVAJH/AZ AM160CXVAJH/AZ AM180CXVAJH/AZ AM200CXVAJH/AZ AM220CXVAJH/AZ AM240CXVAJH/AZ AM260CXVAJH/AZ AM280CXVAJH/AZ		66 68 70 72 74 76 78	AM660CXVAJH/AZ AM680CXVAJH/AZ AM700CXVAJH/AZ AM720CXVAJH/AZ AM740CXVAJH/AZ AM760CXVAJH/AZ AM780CXVAJH/AZ	  
30 32 34	AM300CXVAJH/AZ AM320CXVAJH/AZ AM340CXVAJH/AZ		80 82 84 86 88 90	AM800CXVAJH/AZ AM820CXVAJH/AZ AM840CXVAJH/AZ AM860CXVAJH/AZ AM880CXVAJH/AZ AM900CXVAJH/AZ	   
36 38	AM360CXVAJH/AZ AM380CXVAJH/AZ				
40 42 44 46 48 50 52	AM400CXVAJH/AZ AM420CXVAJH/AZ AM440CXVAJH/AZ AM460CXVAJH/AZ AM480CXVAJH/AZ AM500CXVAJH/AZ AM520CXVAJH/AZ		92 94 96 98	AM920CXVAJH/AZ AM940CXVAJH/AZ AM960CXVAJH/AZ AM980CXVAJH/AZ	   

1. Design Procedure & Combination Ratio

Combination Ratio (Connection Ratio)

Definition of Combination Ratio, CR

$$CR = \frac{\text{Sum of Nominal Cooling Capacity of Indoor units}}{\text{Nominal Cooling Capacity of Outdoor unit}} * 100\%$$

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

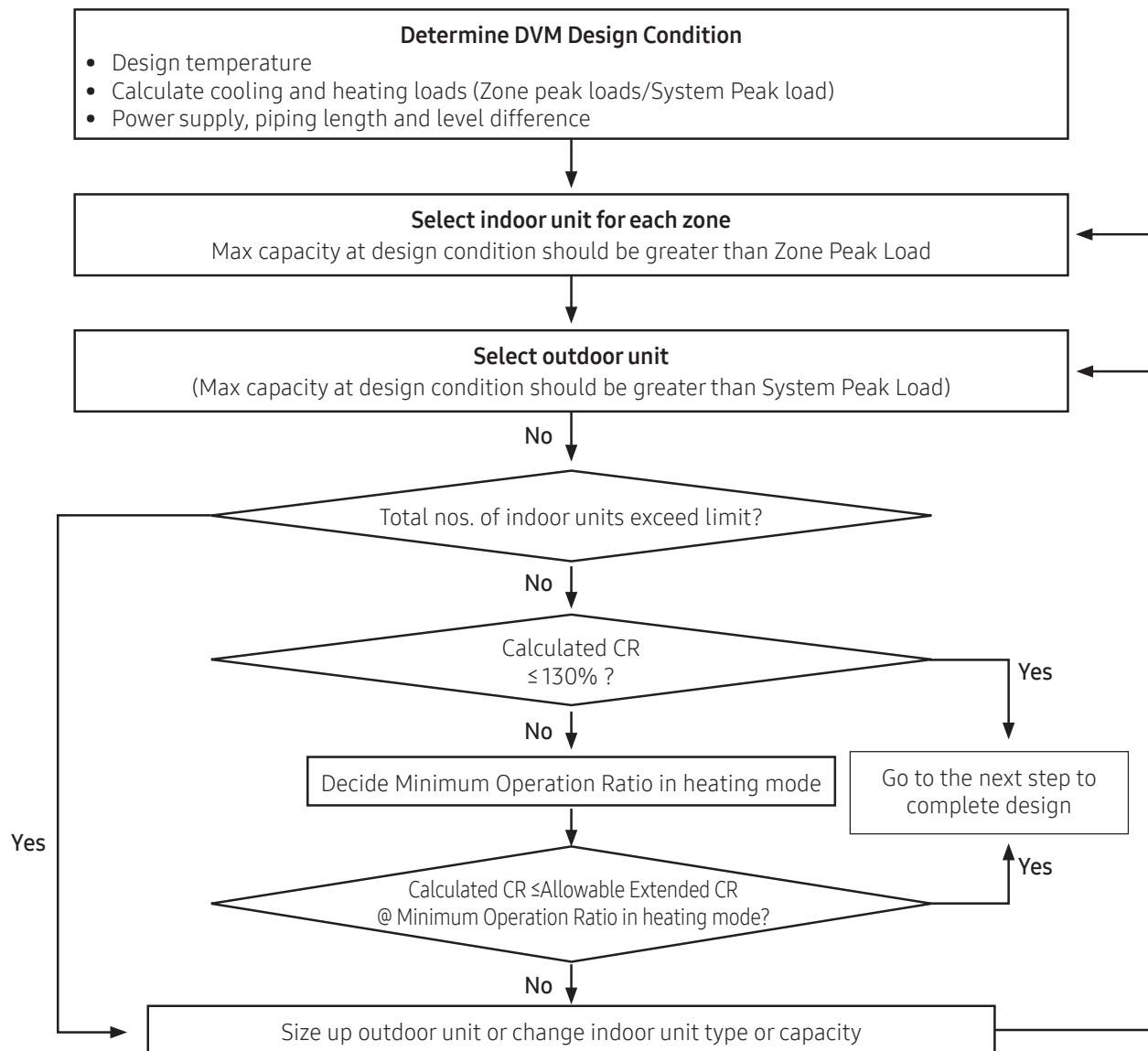


Fig. 1 Design & Selection Procedure for Extended Combination Ratio

1. Design Procedure & Combination Ratio

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
	Music Room	Class room	Class room	Class room	Class room	Class room	
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



NOTE

- 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



NOTE

- 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."

1. Design Procedure & Combination Ratio

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

$$OR_{(H/R)} (\%) = \frac{\text{Sum of nominal capacity of indoor units running in both cooling \& heating mode}}{\text{Sum of nominal capacity of indoor units}} * 100\%$$

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 *)except Wall-Mounted		Wall-Mounted
Operation Ratio	Nominal Capacity ≤ 4.5kW	Nominal capacity > 4.5kW	All capacities
10%	131%	145%	135%
20%	137%	153%	141%
30%	149%	162%	151%

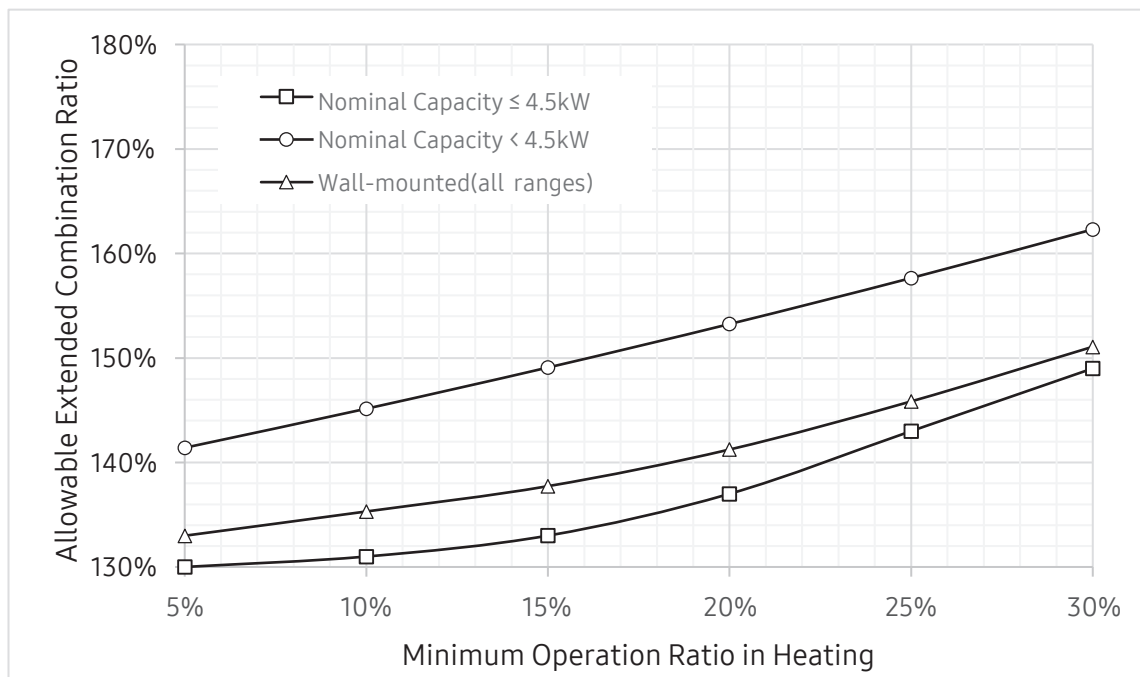


Fig. 2 Allowable CR with respect to indoor unit type as operation ratio increases

1. Design Procedure & Combination Ratio

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)	2.8kW or below
360 Cassette / Slim Duct (LSP duct)	3.6kW or below
4Way Cassette	5.6kW or below
Floor Standing (Exposed or Concealed)	5.6kW only
Ceiling Suspended	14.0kW only
Hydro unit (HE/HT)	All capacities



NOTE

- 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%.

2. Specification

DVM S2 (208~230V)

Model Name				AM080CXVAFH/AZ	AM100CXVAFH/AZ	AM120CXVAFH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	8	10	12
	TON		TON	6.37	7.96	9.55
	Capacity	Cooling	kW	22.4	28.0	33.6
			Btu/h	76,400	95,500	114,600
			US RT	6.37	7.96	9.55
		Heating	kW	25.2	31.5	37.8
			Btu/h	86,000	107,500	129,000
			US RT	7.17	8.96	10.75
Maximum number of connectable indoor units		EA	14	18	21	
Total capacity of the connected Indoor Units		Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Power Input	Cooling	kW	4.28	5.43	7.22
		Heating	kW	4.38	5.33	7.40
	Current Input	Cooling	A	12.60	15.90	21.10
		Heating	A	12.80	15.60	21.60
	Current	MCA	A	28.0	34.0	37.0
		MFA	A	40	50	50
Efficiency	EER	Cooling	W/W	5.23	5.16	4.65
			Btu/Wh	17.9	17.6	15.9
	COP	Heating	W/W	5.75	5.91	5.11
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	4.39 x 1	6.45 x 1	6.45 x 1
	Model Name		-	DS2GT7046EV* x 1	DS4GT5066EV* x 1	DS4GT5066EV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
			fl oz x n	30.4 x 1	37.2 x 1	37.2 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	1	1	1
	Air Flow Rate		m³/min (CFM)	162 (5,709)	187 (6,603)	201 (7,090)
			l/s	2,694	3,116	3,346
	External Static Pressure	Max.	mmAq	11	11	8
			Pa	110	110	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x 1	630 x 1	630 x 1

2. Specification

DVM S2 (208~230V)

Model Name				AM080CXVAFH/AZ	AM100CXVAFH/AZ	AM120CXVAFH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	12.70 (1/2)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 (15.4)	7.0 (15.4)	7.0 (15.4)
Sound	Sound Pressure	Cooling	dB(A)	56.0	58.0	62.0
		Heating	dB(A)	58	61	63
	Sound Power		dB(A)	77	78	81
External Dimension	Net Weight		kg (lbs)	188 (414)	203 (448)	203 (448)
	Shipping Weight		kg (lbs)	202 (445)	217 (478)	217 (478)
	Net Dimensions (WxHxD)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
			inch	36-5/8 x 66-3/4 x 30-1/8	36-5/8 x 66-3/4 x 30-1/8	36-5/8 x 66-3/4 x 30-1/8
	Shipping Dimensions (WxHxD)		mm	998 x 1,887 x 829	998 x 1,887 x 829	998 x 1,887 x 829
			inch	39-5/16 x 74-5/16 x 32-11/16	39-5/16 x 74-5/16 x 32-11/16	39-5/16 x 74-5/16 x 32-11/16
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM140CXVAFH/AZ	AM160CXVAFH/AZ	AM180CXVAFH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	14	16	18
	TON		TON	11.37	12.80	14.33
	Capacity	Cooling	kW	40.0	45.0	50.4
			Btu/h	136,500	153,500	172,000
			US RT	11.37	12.80	14.33
		Heating	kW	45.0	50.4	56.7
			Btu/h	153,500	172,000	193,500
			US RT	12.80	14.33	16.12
Maximum number of connectable indoor units		EA	26	29	32	
Total capacity of the connected Indoor Units		Min.	kW	20.0	22.5	25.2
		Max.	kW	52.0	58.5	65.5
Power	Power Input	Cooling	kW	8.70	10.23	9.69
		Heating	kW	8.04	9.51	10.13
	Current Input	Cooling	A	25.80	29.90	28.30
		Heating	A	23.50	27.80	29.60
	Current	MCA	A	50.0	52.0	60.0
		MFA	A	63	63	75
Efficiency	EER	Cooling	W/W	4.60	4.40	5.20
			Btu/Wh	15.7	15.0	17.8
	COP	Heating	W/W	5.60	5.30	5.60
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	4.39 x 2	4.39 x 2	6.45 x 2
	Model Name		-	DS2GT7046EV* x 2	DS2GT7046EV* x 2	DS4GT5066EV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	900 x 2	900 x 2	1,100 x 2
			fl oz x n	30.4 x 2	30.4 x 2	37.2 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min (CFM)	299 (10,545)	299 (10,545)	288 (10,161)
			l/s	4,976	4,976	4,795
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	80	80	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2

2. Specification

DVM S2 (208~230V)

Model Name				AM140CXVAFH/AZ	AM160CXVAFH/AZ	AM180CXVAFH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		12.70 (1/2)	12.70 (1/2)	15.88 (5/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	8.0 (17.6)	8.0 (17.6)	10.5 (23.1)
Sound	Sound Pressure	Cooling	dB(A)	59.5	59.5	59.5
		Heating	dB(A)	62	62	62
	Sound Power		dB(A)	82	82	82
External Dimension	Net Weight		kg (lbs)	257 (567)	257 (567)	301 (664)
	Shipping Weight		kg (lbs)	273 (602)	273 (602)	317 (699)
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
			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
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
			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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM200CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	20	22	24
	TON		TON	15.92	17.52	19.11
	Capacity	Cooling	kW	56.0	61.6	67.2
			Btu/h	191,100	210,200	229,300
			US RT	15.92	17.52	19.11
		Heating	kW	63.0	69.3	75.6
			Btu/h	215,000	236,500	258,000
			US RT	17.91	19.71	21.50
Maximum number of connectable indoor units			EA	36	40	43
Total capacity of the connected Indoor Units		Min.	kW	28.0	30.8	33.6
		Max.	kW	72.8	80.1	87.4
Power	Power Input	Cooling	kW	11.07	13.84	16.39
		Heating	kW	11.67	13.33	14.88
	Current Input	Cooling	A	32.30	40.40	48.50
		Heating	A	34.10	38.90	43.40
	Current	MCA	A	64.0	68.0	71.0
		MFA	A	75	75	80
Efficiency	EER	Cooling	W/W	5.06	4.45	4.10
			Btu/Wh	17.3	15.2	14.0
	COP	Heating	W/W	5.40	5.20	5.08
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	6.45 x 2	6.45 x 2	6.45 x 2
	Model Name		-	DS4GT5066EV* x 2	DS4GT5066EV* x 2	DS4GT5066EV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	1,100 x 2	1,100 x 2
			fl oz x n	37.2 x 2	37.2 x 2	37.2 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min (CFM)	302 (10,662)	330 (11,663)	353 (12,465)
			l/s	5,032	5,504	5,882
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	80	80	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2

2. Specification

DVM S2 (208~230V)

Model Name				AM200CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	10.5 (23.1)	10.5 (23.1)	14.0 (30.9)
Sound	Sound Pressure	Cooling	dB(A)	60.0	62.0	65.0
		Heating	dB(A)	63	65	66
	Sound Power		dB(A)	83	86	87
External Dimension	Net Weight		kg (lbs)	301 (664)	301 (664)	320 (705)
	Shipping Weight		kg (lbs)	317 (699)	317 (699)	336 (741)
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
			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
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
			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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM260CXVAFH/AZ	AM280CXVAFH/AZ	AM300CXVAFH/AZ
				-	AM120CXVAFH/AZ	AM120CXVAFH/AZ
				-	AM160CXVAFH/AZ	AM180CXVAFH/AZ
				-	-	-
				-	-	-
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
Performance	HP		HP	26	28	30
	TON		TON	20.70	22.35	23.88
	Capacity	Cooling	kW	72.8	78.6	84.0
			Btu/h	248,400	268,200	286,600
			US RT	20.70	22.35	23.88
		Heating	kW	78.4	88.2	94.5
			Btu/h	267,500	301,000	322,400
			US RT	22.29	25.08	26.87
Maximum number of connectable indoor units			EA	47	51	54
Total capacity of the connected Indoor Units		Min.	kW	36.4	39.3	42.0
		Max.	kW	94.6	102.2	109.2
Power	Power Input	Cooling	kW	18.62	17.45	16.91
		Heating	kW	17.23	16.91	17.53
	Current Input	Cooling	A	54.80	51.00	49.40
		Heating	A	50.30	49.40	51.20
	Current	MCA	A	73.0	-	-
		MFA	A	80	-	-
Efficiency	EER	Cooling	W/W	3.91	4.50	4.97
			Btu/Wh	13.3	15.4	16.9
	COP	Heating	W/W	4.55	5.22	5.39
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 3	Inverter Scroll x 3
	Output		kW x n	6.45x 2	(6.45 x 1) x 1 + (4.39 x 2) x 1	(6.45 x 1) x 1 + (6.45 x 2) x 1
	Model Name		-	DS4GT5066EV* x 2	(DS4GT5066EV* x 1) x 1 + (DS2GT7046EV* x 2) x 1	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	(1,100 x 1) x 1 + (900 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1
			fl oz x n	37.2 x 2	(37.2 x 1) x 1 + (30.4 x 2) x 1	(37.2 x 1) x 1 + (37.2 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	3	3
	Air Flow Rate		m³/min (CFM)	353 (12,465)	201 x 1 + 299 x 1 (7,090 x 1 + 10,545 x 1)	201 x 1 + 288 x 1 (7,090 x 1 + 10,161 x 1)
			l/s	5,882	3,346 x 1 + 4,976 x 1	3,346 x 1 + 4,795 x 1
	External Static Pressure	Max.	mmAq	8	-	-
			Pa	80	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1

2. Specification

DVM S2 (208~230V)

Model Name				AM260CXVAFH/AZ	AM280CXVAFH/AZ	AM300CXVAFH/AZ
	Outdoor unit module 1			-	AM120CXVAFH/AZ	AM120CXVAFH/AZ
	Outdoor unit module 2			-	AM160CXVAFH/AZ	AM180CXVAFH/AZ
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	14.0 (30.9)	7.0 x 1 + 8.0 x 1 (15.4 x 1 + 17.6 x 1)	7.0 x 1 + 10.5 x 1 (15.4 x 1 + 23.1 x 1)
Sound	Sound Pressure	Cooling	dB(A)	65.0	63.9	63.9
		Heating	dB(A)	67	66	66
	Sound Power		dB(A)	87	85	85
External Dimension	Net Weight		kg (lbs)	320 (705)	203 x 1 + 257 x 1 (448 x 1 + 567 x 1)	203 x 1 + 301 x 1 (448 x 1 + 664 x 1)
	Shipping Weight		kg (lbs)	336 (741)	217 x 1 + 273 x 1 (478 x 1 + 602 x 1)	217 x 1 + 317 x 1 (478 x 1 + 699 x 1)
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
			inch	51 x 66-3/4 x 30-1/8	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1
			inch	53-11/16 x 74-5/16 x 32-11/16	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM320CXVAFH/AZ	AM340CXVAFH/AZ	AM360CXVAFH/AZ
				AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
				AM200CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
				-	-	-
				-	-	-
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
Performance	HP		HP	32	34	36
	TON		TON	25.48	27.07	28.66
	Capacity	Cooling	kW	89.6	95.2	100.8
			Btu/h	305,700	324,800	343,900
			US RT	25.48	27.07	28.66
		Heating	kW	100.8	107.1	113.4
			Btu/h	343,900	365,400	386,900
			US RT	28.66	30.45	32.24
Maximum number of connectable indoor units			EA	58	61	64
Total capacity of the connected Indoor Units		Min.	kW	44.8	47.6	50.4
		Max.	kW	116.5	123.8	131.0
Power	Power Input	Cooling	kW	18.29	21.06	23.61
		Heating	kW	19.07	20.73	22.28
	Current Input	Cooling	A	53.40	61.50	69.60
		Heating	A	55.70	60.50	65.00
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.90	4.52	4.27
			Btu/Wh	16.7	15.4	14.6
	COP	Heating	W/W	5.29	5.17	5.09
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 3	Inverter Scroll x 3
	Output		kW x n	(6.45 x 1) x 1 + (6.45 x 2) x 1	(6.45x 1) x 1 + (6.45x 2) x 1	(6.45 x 1) x 1 + (6.45 x 2) x 1
	Model Name		-	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 1	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 1	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1	(1,100 x 1) x 1 + (1,100 x 2) x 1
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 1	(37.2 x 1) x 1 + (37.2 x 2) x 1	(37.2 x 1) x 1 + (37.2 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	3	3	3
	Air Flow Rate		m³/min (CFM)	201 x 1 + 302 x 1 (7,090 x 1 + 10,662 x 1)	201 x 1 + 330 x 1 (7,090 x 1 + 11,663 x 1)	201 x 1 + 353 x 1 (7,090 x 1 + 12,465 x 1)
			l/s	3,346 x 1 + 5,032 x 1	3,346 x 1 + 5,504 x 1	3,346 x 1 + 5,882 x 1
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1	(630 x 1) x 1 + (620 x 2) x 1

2. Specification

DVM S2 (208~230V)

Model Name				AM320CXVAFH/AZ	AM340CXVAFH/AZ	AM360CXVAFH/AZ
	Outdoorunit module 1			AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
	Outdoorunit module 2			AM200CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoorunit module 3			-	-	-
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	34.92 (1-3/8)	34.92 (1-3/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)	
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 10.5 x 1 (15.4 x 1 + 23.1 x 1)	7.0 x 1 + 10.5 x 1 (15.4 x 1 + 23.1 x 1)	7.0 x 1 + 14.0 x 1 (15.4 x 1 + 30.9 x 1)
Sound	Sound Pressure		Cooling	dB(A)	64.1	65.0
			Heating	dB(A)	66	67
	Sound Power		dB(A)	85	87	88
External Dimension	Net Weight		kg (lbs)	203 x 1 + 301 x 1 (448 x 1 + 664 x 1)	203 x 1 + 301 x 1 (448 x 1 + 664 x 1)	203 x 1 + 320 x 1 (448 x 1 + 705 x 1)
	Shipping Weight		kg (lbs)	217 x 1 + 317 x 1 (478 x 1 + 699 x 1)	217 x 1 + 317 x 1 (478 x 1 + 699 x 1)	217 x 1 + 336 x 1 (478 x 1 + 741 x 1)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM380CXVAFH/AZ	AM400CXVAFH/AZ	AM420CXVAFH/AZ
Outdoor unit module 1				AM120CXVAFH/AZ	AM200CXVAFH/AZ	AM200CXVAFH/AZ
Outdoor unit module 2				AM260CXVAFH/AZ	AM200CXVAFH/AZ	AM220CXVAFH/AZ
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
Performance	HP		HP	38	40	42
	TON		TON	30.25	31.85	33.44
	Capacity	Cooling	kW	106.4	112.0	117.6
			Btu/h	363,100	382,200	401,300
			US RT	30.25	31.85	33.44
			Heating	kW	116.2	126.0
		Btu/h		396,500	429,900	451,400
		US RT		33.04	35.83	37.62
Maximum number of connectable indoor units		EA	64	64	64	
Total capacity of the connected Indoor Units		Min.	kW	53.2	56.0	58.8
		Max.	kW	138.3	145.6	152.9
Power	Power Input	Cooling	kW	25.84	22.14	24.91
		Heating	kW	24.63	23.34	25.00
	Current Input	Cooling	A	75.90	64.60	72.70
		Heating	A	71.90	68.20	73.00
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.12	5.06	4.72
			Btu/Wh	14.1	17.3	16.1
	COP	Heating	W/W	4.72	5.40	5.29
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kW x n	(6.45x 1) x 1 + (6.45 x 2) x 1	(6.45 x 2) x 2	(6.45x 2) x 2
	Model Name		-	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 1	(DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 1	(1,100 x 2) x 2	(1,100 x 2) x 2
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 1	(37.2 x 2) x 2	(37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	3	4	4
	Air Flow Rate		m³/min (CFM)	201 x 1 + 353 x 1 (7,090 x 1 + 12,465 x 1)	302 x 2 (10,662 x 2)	302 x 1 + 330 x 1 (10,662 x 1 + 11,663 x 1)
			l/s	3,346 x 1 + 5,882 x 1	5,032 x 2	5,032 x 1 + 5,504 x 1
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 1	(620 x 2) x 2	(620 x 2) x 2

2. Specification

DVM S2 (208~230V)

Model Name				AM380CXVAFH/AZ	AM400CXVAFH/AZ	AM420CXVAFH/AZ
	Outdoorunit module 1			AM120CXVAFH/AZ	AM200CXVAFH/AZ	AM200CXVAFH/AZ
	Outdoorunit module 2			AM260CXVAFH/AZ	AM200CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoorunit module 3			-	-	-
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	7.0 x 1 + 14.0 x 1 (15.4 x 1 + 30.9 x 1)	10.5 x 2 (23.1 x 2)	10.5 x 2 (23.1 x 2)
Sound	Sound Pressure	Cooling	dB(A)	66.8	63.0	64.1
		Heating	dB(A)	68	66	67
	Sound Power		dB(A)	88	86	88
External Dimension	Net Weight		kg (lbs)	203 x 1 + 320 x 1 (448 x 1 + 705 x 1)	301 x 2 (664 x 2)	301 x 2 (664 x 2)
	ShippingWeight		kg (lbs)	217 x 1 + 336 x 1 (478 x 1 + 741 x 1)	317 x 2 (699 x 2)	317 x 2 (699 x 2)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1	(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 Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM440CXVAFH/AZ	AM460CXVAFH/AZ	AM480CXVAFH/AZ
		Outdoor unit module 1		AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
		Outdoor unit module 2		AM220CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
		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
Performance	HP		HP	44	46	48
	TON		TON	35.03	36.62	38.22
	Capacity	Cooling	kW	123.2	128.8	134.4
			Btu/h	420,400	439,500	458,600
			US RT	35.03	36.62	38.22
			Heating	kW	138.6	144.9
		Btu/h		472,900	494,400	515,900
		US RT		39.41	41.20	42.99
Maximum number of connectable indoor units		EA	64	64	64	
Total capacity of the connected Indoor Units		Min.	kW	61.6	64.4	67.2
		Max.	kW	160.2	167.4	174.7
Power	Power Input	Cooling	kW	27.68	30.23	32.78
		Heating	kW	26.66	28.21	29.76
	Current Input	Cooling	A	80.80	88.90	97.00
		Heating	A	77.80	82.30	86.80
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.45	4.26	4.10
	Btu/Wh		15.2	14.5	14.0	
	COP	Heating	W/W	5.20	5.14	5.08
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kW x n	(6.45 x 2) x 2	(6.45 x 2) x 2	(6.45 x 2) x 2
	Model Name		-	(DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 2	(1,100 x 2) x 2	(1,100 x 2) x 2
			fl oz x n	(37.2 x 2) x 2	(37.2 x 2) x 2	(37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	4
	Air Flow Rate		m³/min (CFM)	330 x 2 (11,663 x 2)	330 x 1 + 353 x 1 (11,663 x 1 + 12,465 x 1)	353 x 2 (12,465 x 2)
			l/s	5,504 x 2	5,504 x 1 + 5,882 x 1	5,882 x 2
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 2

2. Specification

DVM S2 (208~230V)

Model Name				AM440CXVAFH/AZ	AM460CXVAFH/AZ	AM480CXVAFH/AZ
	Outdoorunit module 1			AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoorunit module 2			AM220CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoorunit module 3			-	-	-
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highestposition)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	10.5 x 2 (23.1 x 2)	10.5 x 1 + 14.0 x 1 (23.1 x 1 + 30.9 x 1)	14.0 x 2 (30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	65.0	66.8
			Heating	dB(A)	68	69
	Sound Power		dB(A)	89	90	90
External Dimension	Net Weight		kg (lbs)	301 x 2 (664 x 2)	301 x 1 + 320 x 1 (664 x 1 + 705 x 1)	320 x 2 (705 x 2)
	ShippingWeight		kg (lbs)	317 x 2 (699 x 2)	317 x 1 + 336 x 1 (699 x 1 + 741 x 1)	336 x 2 (741 x 2)
	Net Dimensions(WxHxD)		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
			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
	ShippingDimensions(WxHxD)		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
			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 Temp. Range	Cooling		℃ (ºF)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (ºF)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table 1DB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM500CXVAFH/AZ	AM520CXVAFH/AZ	AM540CXVAFH/AZ
Outdoor unit module 1				AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM120CXVAFH/AZ
Outdoor unit module 2				AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM200CXVAFH/AZ
Outdoor unit module 3				-	-	AM220CXVAFH/AZ
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
Performance	HP		HP	50	52	54
	TON		TON	39.81	41.40	42.99
	Capacity	Cooling	kW	140.0	145.6	151.2
			Btu/h	477,700	496,800	515,900
			US RT	39.81	41.40	42.99
		Heating	kW	154.0	156.8	170.1
			Btu/h	525,500	535,000	580,400
			US RT	43.79	44.59	48.37
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	70.0	72.8	75.6
		Max.	kW	182.0	189.3	196.6
Power	Power Input	Cooling	kW	35.01	37.24	32.13
		Heating	kW	32.11	34.46	32.40
	Current Input	Cooling	A	103.30	109.60	93.80
		Heating	A	93.70	100.60	94.60
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.00	3.91	4.71
			Btu/Wh	13.6	13.3	16.1
	COP	Heating	W/W	4.80	4.55	5.25
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 5
	Output		kW x n	(6.45 x 2) x 2	(6.45 x 2) x 2	(6.45x 1) x 1 + (6.45 x 2) x 2
	Model Name		-	(DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 2	(1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2
			fl oz x n	(37.2 x 2) x 2	(37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	5
	Air Flow Rate		m³/min (CFM)	353 x 2 (12,465 x 2)	353 x 2 (12,465 x 2)	201 x 1 + 302 x 1 + 330 x 1 (7,090 x 1 + 10,662 x 1 + 11,663 x 1)
			l/s	5,882 x 2	5,882 x 2	3,346 x 1 + 5,032 x 1 + 5,504 x 1
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2

2. Specification

DVM S2 (208~230V)

Model Name				AM500CXVAFH/AZ	AM520CXVAFH/AZ	AM540CXVAFH/AZ
	Outdoor unit module 1			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM120CXVAFH/AZ
	Outdoor unit module 2			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM200CXVAFH/AZ
	Outdoor unit module 3			-	-	AM220CXVAFH/AZ
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	14.0 x 2 (30.9 x 2)	14.0 x 2 (30.9 x 2)	7.0 x 1 + 10.5 x 2 (15.4 x 1 + 23.1 x 2)
Sound	Sound Pressure	Cooling	dB(A)	68.0	68.0	66.2
		Heating	dB(A)	70	70	69
	Sound Power		dB(A)	90	90	89
External Dimension	Net Weight		kg (lbs)	320 x 2 (705 x 2)	320 x 2 (705 x 2)	203 x 1 + 301 x 2 (448 x 1 + 664 x 2)
	Shipping Weight		kg (lbs)	336 x 2 (741 x 2)	336 x 2 (741 x 2)	217 x 1 + 317 x 2 (478 x 1 + 699 x 2)
	Net Dimensions (WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
			inch	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2
	Shipping Dimensions (WxHxD)		mm	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2
			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	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM560CXVAFH/AZ	AM580CXVAFH/AZ	AM600CXVAFH/AZ
Outdoor unit module 1				AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
Outdoor unit module 2				AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
Outdoor unit module 3				AM220CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
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
Performance	HP		HP	56	58	60
	TON		TON	44.59	46.18	47.77
	Capacity	Cooling	kW	156.8	162.4	168.0
			Btu/h	535,000	554,100	573,200
			US RT	44.59	46.18	47.77
		Heating	kW	176.4	182.7	189.0
			Btu/h	601,900	623,400	644,900
			US RT	50.16	51.95	53.74
Maximum number of connectable indoor units		EA	64	64	64	
Total capacity of the connected Indoor Units		Min.	kW	78.4	81.2	84.0
		Max.	kW	203.8	211.1	218.4
Power	Power Input	Cooling	kW	34.90	37.45	40.00
		Heating	kW	34.06	35.61	37.16
	Current Input	Cooling	A	101.90	110.00	118.10
		Heating	A	99.40	103.90	108.40
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.49	4.34	4.20
			Btu/Wh	15.3	14.8	14.3
	COP	Heating	W/W	5.18	5.13	5.09
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 5
	Output		kW x n	(6.45 x 1) x 1 + (6.45x2) x 2	(6.45x1) x 1 + (6.45 x 2) x 2	(6.45x 1) x 1 + (6.45 x 2) x 2
	Model Name		-	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	5	5	5
	Air Flow Rate		m³/min (CFM)	201 x 1 + 330 x 2 (7,090 x 1 + 11,663 x 2)	201 x 1 + 330 x 1 + 353 x 1 (7,090 x 1 + 11,663 x 1 + 12,465 x 1)	201 x 1 + 353 x 2 (7,090 x 1 + 12,465 x 2)
			l/s	3,346 x 1 + 5,504 x 2	3,346 x 1 + 5,504 x 1 + 5,882 x 1	3,346 x 1 + 5,882 x 2
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2

2. Specification

DVM S2 (208~230V)

Model Name				AM560CXVAFH/AZ	AM580CXVAFH/AZ	AM600CXVAFH/AZ
	Outdoorunit module 1			AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
	Outdoorunit module 2			AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoorunit module 3			AM220CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 10.5 x 2 (15.4 x 1 + 23.1 x 2)	7.0 x 1 + 10.5 x 1 + 14.0 x 1 (15.4 x 1 + 23.1 x 1 + 30.9 x 1)	7.0 x 1 + 14.0 x 2 (15.4 x 1 + 30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	66.8	68.0
			Heating	dB(A)	69	70
	Sound Power		dB(A)	90	90	91
External Dimension	Net Weight		kg (lbs)	203 x 1 + 301 x 2 (448 x 1 + 664 x 2)	203 x 1 + 301 x 1 + 320 x 1 (448 x 1 + 664 x 1 + 705 x 1)	203 x 1 + 320 x 2 (448 x 1 + 705 x 2)
	Shipping Weight		kg (lbs)	217 x 1 + 317 x 2 (478 x 1 + 699 x 2)	217 x 1 + 317 x 1 + 336 x 1 (478 x 1 + 699 x 1 + 741 x 1)	217 x 1 + 336 x 2 (478 x 1 + 741 x 2)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM620CXVAFH/AZ	AM640CXVAFH/AZ	AM660CXVAFH/AZ
Outdoor unit module 1				AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM220CXVAFH/AZ
Outdoor unit module 2				AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM220CXVAFH/AZ
Outdoor unit module 3				AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM220CXVAFH/AZ
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
Performance	HP		HP	62	64	66
	TON		TON	49.36	50.95	52.55
	Capacity	Cooling	kW	173.6	179.2	184.8
			Btu/h	592,300	611,500	630,600
			US RT	49.36	50.95	52.55
		Heating	kW	191.8	194.6	207.9
			Btu/h	654,400	664,000	709,400
			US RT	54.54	55.33	59.12
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	86.8	89.6	92.4
		Max.	kW	225.7	233.0	240.2
Power	Power Input	Cooling	kW	42.23	44.46	41.52
		Heating	kW	39.51	41.86	39.99
	Current Input	Cooling	A	124.40	130.70	121.20
		Heating	A	115.30	122.20	116.70
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.11	4.03	4.45
	Btu/Wh		14.0	13.8	15.2	
	COP	Heating	W/W	4.85	4.65	5.20
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 6
	Output		kW x n	(6.45 x 1) x 1 + (6.45 x 2) x 2	(6.45 x 1) x 1 + (6.45 x 2) x 2	(6.45 x 2) x 3
	Model Name		-	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 2	(DS4GT5066EV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 2) x 3
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	5	5	6
	Air Flow Rate		m³/min (CFM)	201 x 1 + 353 x 2 (7,090 x 1 + 12,465 x 2)	201 x 1 + 353 x 2 (7,090 x 1 + 12,465 x 2)	330 x 3 (11,663 x 3)
			l/s	3,346 x 1 + 5,882 x 2	3,346 x 1 + 5,882 x 2	5,504 x 3
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2	(620 x 2) x 3

2. Specification

DVM S2 (208~230V)

Model Name				AM620CXVAFH/AZ	AM640CXVAFH/AZ	AM660CXVAFH/AZ
	Outdoor unit module 1			AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoor unit module 2			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoor unit module 3			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 14.0 x 2 (15.4 x 1 + 30.9 x 2)	7.0 x 1 + 14.0 x 2 (15.4 x 1 + 30.9 x 2)	10.5 x 3 (23.1 x 3)
Sound	Sound Pressure	Cooling	dB(A)	69.0	69.0	66.8
		Heating	dB(A)	70	71	70
	Sound Power		dB(A)	91	91	91
External Dimension	Net Weight		kg (lbs)	203 x 1 + 320 x 2 (448 x 1 + 705 x 2)	203 x 1 + 320 x 2 (448 x 1 + 705 x 2)	301 x 3 (664 x 3)
	Shipping Weight		kg (lbs)	217 x 1 + 336 x 2 (478 x 1 + 741 x 2)	217 x 1 + 336 x 2 (478 x 1 + 741 x 2)	317 x 3 (699 x 3)
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 3
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 3
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 3
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM680CXVAFH/AZ	AM700CXVAFH/AZ	AM720CXVAFH/AZ
		Outdoor unit module 1		AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM220CXVAFH/AZ
		Outdoor unit module 2		AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
		Outdoor unit module 3		AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
		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
Performance	HP		HP	68	70	72
	TON		TON	54.14	55.73	57.32
	Capacity	Cooling	kW	190.4	196.0	201.6
			Btu/h	649,700	668,800	687,900
			US RT	54.14	55.73	57.32
		Heating	kW	214.2	217.0	223.3
			Btu/h	730,900	740,400	761,900
			US RT	60.91	61.70	63.49
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	95.2	98.0	100.8
		Max.	kW	247.5	254.8	262.1
Power	Power Input	Cooling	kW	44.07	46.30	48.85
		Heating	kW	41.54	43.89	45.44
	Current Input	Cooling	A	129.30	135.60	143.70
		Heating	A	121.20	128.10	132.60
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.32	4.23	4.13
			Btu/Wh	14.7	14.4	14.1
	COP	Heating	W/W	5.16	4.94	4.91
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(6.45 x 2) x 3	(6.45 x 2) x 3	(6.45 x 2) x 3
	Model Name		-	(DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 3	(1,100 x 2) x 3	(1,100 x 2) x 3
			fl oz x n	(37.2 x 2) x 3	(37.2 x 2) x 3	(37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	6	6	6
	Air Flow Rate		m³/min (CFM)	330 x 2 + 353 x 1 (11,663 x 2 + 12,465 x 1)	330 x 2 + 353 x 1 (11,663 x 2 + 12,465 x 1)	330 x 1 + 353 x 2 (11,663 x 1 + 12,465 x 2)
			l/s	5,504 x 2 + 5,882 x 1	5,504 x 2 + 5,882 x 1	5,504 x 1 + 5,882 x 2
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 3	(620 x 2) x 3	(620 x 2) x 3

2. Specification

DVM S2 (208~230V)

Model Name				AM680CXVAFH/AZ	AM700CXVAFH/AZ	AM720CXVAFH/AZ
	Outdoorunit module 1			AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoorunit module 2			AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
	Outdoorunit module 3			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	10.5 x 2 + 14.0 x 1 (23.1 x 2 + 30.9 x 1)	10.5 x 2 + 14.0 x 1 (23.1 x 2 + 30.9 x 1)	10.5 x 1 + 14.0 x 2 (23.1 x 1 + 30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	68.0	69.0
			Heating	dB(A)	70	71
	Sound Power		dB(A)	91	91	91
External Dimension	Net Weight		kg (lbs)	301 x 2 + 320 x 1 (664 x 2 + 705 x 1)	301 x 2 + 320 x 1 (664 x 2 + 705 x 1)	301 x 1 + 320 x 2 (664 x 1 + 705 x 2)
	ShippingWeight		kg (lbs)	317 x 2 + 336 x 1 (699 x 2 + 741 x 1)	317 x 2 + 336 x 1 (699 x 2 + 741 x 1)	317 x 1 + 336 x 2 (699 x 1 + 741 x 2)
	Net Dimensions(WxHxD)		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
			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
	ShippingDimensions(WxHxD)		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
			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 Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM740CXVAFH/AZ	AM760CXVAFH/AZ	AM780CXVAFH/AZ			
				Outdoor unit module 1			AM240CXVAFH/AZ	AM240CXVAFH/AZ	AM260CXVAFH/AZ
				Outdoor unit module 2			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
				Outdoor unit module 3			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
				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			
Performance	HP		HP	74	76	78			
	TON		TON	58.92	60.51	62.10			
	Capacity	Cooling	kW	207.2	212.8	218.4			
			Btu/h	707,000	726,100	745,200			
			US RT	58.92	60.51	62.10			
		Heating	kW	229.6	232.4	235.2			
			Btu/h	783,400	793,000	802,500			
			US RT	65.29	66.08	66.88			
Maximum number of connectable indoor units			EA	64	64	64			
Total capacity of the connected Indoor Units		Min.	kW	103.6	106.4	109.2			
		Max.	kW	269.4	276.6	283.9			
Power	Power Input	Cooling	kW	51.40	53.63	55.86			
		Heating	kW	46.99	49.34	51.69			
	Current Input	Cooling	A	151.80	158.10	164.40			
		Heating	A	137.10	144.00	150.90			
	Current	MCA	A	-	-	-			
		MFA	A	-	-	-			
Efficiency	EER	Cooling	W/W	4.03	3.97	3.91			
			Btu/Wh	13.8	13.5	13.3			
	COP	Heating	W/W	4.89	4.71	4.55			
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube			
	Material	Fin	-	Al	Al	Al			
		Tube	-	Cu	Cu	Cu			
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion			
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6			
	Output		kW x n	(6.45 x 2) x 3	(6.45 x 2) x 3	(6.45 x 2) x 3			
	Model Name		-	(DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 2) x 3			
	Oil	Type	-	PVE	PVE	PVE			
		Initial charge	cc x n	(1,100 x 2) x 3	(1,100 x 2) x 3	(1,100 x 2) x 3			
			fl oz x n	(37.2 x 2) x 3	(37.2 x 2) x 3	(37.2 x 2) x 3			
Fan	Type		-	Propeller	Propeller	Propeller			
	Discharged direction		-	Top	Top	Top			
	Quantity		EA	6	6	6			
	Air Flow Rate		m³/min (CFM)	353 x 3 (12,465 x 3)	353 x 3 (12,465 x 3)	353 x 3 (12,465 x 3)			
			l/s	5,882 x 3	5,882 x 3	5,882 x 3			
	External Static Pressure	Max.	mmAq	-	-	-			
			Pa	-	-	-			
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor			
	Output		W x n	(620 x 2) x 3	(620 x 2) x 3	(620 x 2) x 3			

2. Specification

DVM S2 (208~230V)

Model Name				AM740CXVAFH/AZ	AM760CXVAFH/AZ	AM780CXVAFH/AZ
	Outdoor unit module 1			AM240CXVAFH/AZ	AM240CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoor unit module 2			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoor unit module 3			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	14.0 x 3 (30.9 x 3)	14.0 x 3 (30.9 x 3)	14.0 x 3 (30.9 x 3)
Sound	Sound Pressure	Cooling	dB(A)	69.8	69.8	69.8
		Heating	dB(A)	71	71	72
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg (lbs)	320 x 3 (705 x 3)	320 x 3 (705 x 3)	320 x 3 (705 x 3)
	Shipping Weight		kg (lbs)	336 x 3 (741 x 3)	336 x 3 (741 x 3)	336 x 3 (741 x 3)
	Net Dimensions (WxHxD)		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
			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 (WxHxD)		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
			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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table 1DB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM800CXVAFH/AZ	AM820CXVAFH/AZ	AM840CXVAFH/AZ
Outdoor unit module 1				AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
Outdoor unit module 2				AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
Outdoor unit module 3				AM220CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
Outdoor unit module 4				AM240CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
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
Performance	HP		HP	80	82	84
	TON		TON	63.69	65.29	66.88
	Capacity	Cooling	kW	224.0	229.6	235.2
			Btu/h	764,300	783,400	802,500
			US RT	63.69	65.29	66.88
		Heating	kW	252.0	258.3	264.6
			Btu/h	859,900	881,400	902,900
			US RT	71.65	73.45	75.24
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	112.0	114.8	117.6
		Max.	kW	291.2	298.5	305.8
Power	Power Input	Cooling	kW	51.29	53.84	56.39
		Heating	kW	48.94	50.49	52.04
	Current Input	Cooling	A	150.40	158.50	166.60
		Heating	A	142.80	147.30	151.80
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.37	4.26	4.17
			Btu/Wh	14.9	14.6	14.2
	COP	Heating	W/W	5.15	5.12	5.08
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 7
	Output		kW x n	(6.45 x 1) x 1 + (6.45 x 2) x 3	(6.45 x 1) x 1 + (6.45 x 2) x 3	(6.45 x 1) x 1 + (6.45 x 2) x 3
	Model Name		-	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	7	7	7
	Air Flow Rate		m³/min (CFM)	201 x 1 + 330 x 2 + 353 x 1 (7,090 x 1 + 11,663 x 2 + 12,465 x 1)	201 x 1 + 330 x 1 + 353 x 2 (7,090 x 1 + 11,663 x 1 + 12,465 x 2)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)
			l/s	3,346 x 1 + 5,504 x 2 + 5,882 x 1	3,346 x 1 + 5,504 x 1 + 5,882 x 2	3,346 x 1 + 5,882 x 3
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3

2. Specification

DVM S2 (208~230V)

Model Name				AM800CXVAFH/AZ	AM820CXVAFH/AZ	AM840CXVAFH/AZ
Outdoor unit module 1				AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
Outdoor unit module 2				AM220CXVAFH/AZ	AM220CXVAFH/AZ	AM240CXVAFH/AZ
Outdoor unit module 3				AM220CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
Outdoor unit module 4				AM240CXVAFH/AZ	AM240CXVAFH/AZ	AM240CXVAFH/AZ
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 10.5 x 2 + 14.0 x 1 (15.4 x 1 + 23.1 x 2 + 30.9 x 1)	7.0 x 1 + 10.5 x 1 + 14.0 x 2 (15.4 x 1 + 23.1 x 1 + 30.9 x 2)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)
Sound	Sound Pressure	Cooling	dB(A)	69.0	69.8	70.4
		Heating	dB(A)	71	71	71
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg (lbs)	203 x 1 + 301 x 2 + 320 x 1 (448 x 1 + 664 x 2 + 705 x 1)	203 x 1 + 301 x 1 + 320 x 2 (448 x 1 + 664 x 1 + 705 x 2)	203 x 1 + 320 x 3 (448 x 1 + 705 x 3)
	Shipping Weight		kg (lbs)	217 x 1 + 317 x 2 + 336 x 1 (478 x 1 + 699 x 2 + 741 x 1)	217 x 1 + 317 x 1 + 336 x 2 (478 x 1 + 699 x 1 + 741 x 2)	217 x 1 + 336 x 3 (478 x 1 + 741 x 3)
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM860CXVAFH/AZ	AM880CXVAFH/AZ	AM900CXVAFH/AZ
Outdoor unit module 1				AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
Outdoor unit module 2				AM240CXVAFH/AZ	AM240CXVAFH/AZ	AM260CXVAFH/AZ
Outdoor unit module 3				AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
Outdoor unit module 4				AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
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
Performance	HP		HP	86	88	90
	TON		TON	68.47	70.06	71.65
	Capacity	Cooling	kW	240.8	246.4	252.0
			Btu/h	821,600	840,800	859,900
			US RT	68.47	70.06	71.65
		Heating	kW	267.4	270.2	273.0
			Btu/h	912,400	922,000	931,500
			US RT	76.03	76.83	77.63
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	120.4	123.2	126.0
		Max.	kW	313.0	320.3	327.6
Power	Power Input	Cooling	kW	58.62	60.85	63.08
		Heating	kW	54.39	56.74	59.09
	Current Input	Cooling	A	172.90	179.20	185.50
		Heating	A	158.70	165.60	172.50
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.11	4.05	3.99
			Btu/Wh	14.0	13.8	13.6
	COP	Heating	W/W	4.92	4.76	4.62
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 7
	Output		kW x n	(6.45 x 1) x 1 + (6.45 x 2) x 3	(6.45 x 1) x 1 + (6.45 x 2) x 3	(6.45 x 1) x 1 + (6.45 x 2) x 3
	Model Name		-	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 1) x 1 + (DS4GT5066EV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	7	7	7
	Air Flow Rate		m³/min (CFM)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)
			l/s	3,346 x 1 + 5,882 x 3	3,346 x 1 + 5,882 x 3	3,346 x 1 + 5,882 x 3
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3

2. Specification

DVM S2 (208~230V)

Model Name				AM860CXVAFH/AZ	AM880CXVAFH/AZ	AM900CXVAFH/AZ
	Outdoorunit module 1			AM120CXVAFH/AZ	AM120CXVAFH/AZ	AM120CXVAFH/AZ
	Outdoorunit module 2			AM240CXVAFH/AZ	AM240CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoorunit module 3			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoorunit module 4			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)	
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)
Sound	Sound Pressure	Cooling	dB(A)	70.4	70.4	70.4
		Heating	dB(A)	72	72	72
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg (lbs)	203 x 1 + 320 x 3 (448 x 1 + 705 x 3)	203 x 1 + 320 x 3 (448 x 1 + 705 x 3)	203 x 1 + 320 x 3 (448 x 1 + 705 x 3)
	Shipping Weight		kg (lbs)	217 x 1 + 336 x 3 (478 x 1 + 741 x 3)	217 x 1 + 336 x 3 (478 x 1 + 741 x 3)	217 x 1 + 336 x 3 (478 x 1 + 741 x 3)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + + (51 x 66-3/4 x 30-1/8) x 3
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM920CXVAFH/AZ	AM940CXVAFH/AZ	AM960CXVAFH/AZ			
				Outdoor unit module 1			AM160CXVAFH/AZ	AM160CXVAFH/AZ	AM220CXVAFH/AZ
				Outdoor unit module 2			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM220CXVAFH/AZ
				Outdoor unit module 3			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
				Outdoor unit module 4			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
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			
Performance	HP		HP	92	94	96			
	TON		TON	73.30	74.90	76.43			
	Capacity	Cooling	kW	257.8	263.4	268.8			
			Btu/h	879,600	898,800	917,200			
			US RT	73.30	74.90	76.43			
		Heating	kW	282.8	285.6	295.4			
			Btu/h	965,000	974,500	1,007,900			
			US RT	80.41	81.21	84.00			
Maximum number of connectable indoor units			EA	64	64	64			
Total capacity of the connected Indoor Units		Min.	kW	128.9	131.7	134.4			
		Max.	kW	335.1	342.4	349.4			
Power	Power Input	Cooling	kW	63.86	66.09	64.92			
		Heating	kW	58.85	61.20	61.12			
	Current Input	Cooling	A	188.00	194.30	190.40			
		Heating	A	171.80	178.70	178.40			
	Current	MCA	A	-	-	-			
		MFA	A	-	-	-			
Efficiency	EER	Cooling	W/W	4.04	3.99	4.14			
			Btu/Wh	13.8	13.6	14.1			
	COP	Heating	W/W	4.81	4.67	4.83			
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube			
	Material	Fin	-	Al	Al	Al			
		Tube	-	Cu	Cu	Cu			
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion			
Compressor	Type		-	Inverter Scroll x 8	Inverter Scroll x 8	Inverter Scroll x 8			
	Output		kW x n	(4.39 x 2) x 1 + (6.45 x 2) x 3	(4.39 x 2) x 1 + (6.45 x 2) x 3	(6.45 x 2) x 4			
	Model Name		-	(DS2GT7046EV* x 2) x 1 + (DS4GT5066EV* x 2) x 3	(DS2GT7046EV* x 2) x 1 + (DS4GT5066EV* x 2) x 3	(DS4GT5066EV* x 2) x 4			
	Oil	Type	-	PVE	PVE	PVE			
		Initial charge	cc x n	(900 x 2) x 1 + (1,100 x 2) x 3	(900 x 2) x 1 + (1,100 x 2) x 3	(1,100 x 2) x 4			
			fl oz x n	(30.4 x 2) x 1 + (37.2 x 2) x 3	(30.4 x 2) x 1 + (37.2 x 2) x 3	(37.2 x 2) x 4			
Fan	Type		-	Propeller	Propeller	Propeller			
	Discharge direction		-	Top	Top	Top			
	Quantity		EA	8	8	8			
	Air Flow Rate		m³/min (CFM)	299 x 1 + 353 x 3 (10,545 x 1 + 12,465 x 3)	299 x 1 + 353 x 3 (10,545 x 1 + 12,465 x 3)	330 x 2 + 353 x 2 (11,663 x 2 + 12,465 x 2)			
			l/s	4,976 x 1 + 5,882 x 3	4,976 x 1 + 5,882 x 3	5,504 x 2 + 5,882 x 2			
	External Static Pressure	Max.	mmAq	-	-	-			
			Pa	-	-	-			
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor			
	Output		W x n	(620 x 2) x 4	(620 x 2) x 4	(620 x 2) x 4			

2. Specification

DVM S2 (208~230V)

Model Name				AM920CXVAFH/AZ	AM940CXVAFH/AZ	AM960CXVAFH/AZ
	Outdoorunit module 1			AM160CXVAFH/AZ	AM160CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoorunit module 2			AM240CXVAFH/AZ	AM260CXVAFH/AZ	AM220CXVAFH/AZ
	Outdoorunit module 3			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
	Outdoorunit module 4			AM260CXVAFH/AZ	AM260CXVAFH/AZ	AM260CXVAFH/AZ
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	25.40 (1)	25.40 (1)	25.40 (1)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	8.0 x 1 + 14.0 x 3 (17.6 x 1 + 30.9 x 3)	8.0 x 1 + 14.0 x 3 (17.6 x 1 + 30.9 x 3)	10.5 x 2 + 14.0 x 2 (23.1 x 2 + 30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	70.2	69.8
			Heating	dB(A)	72	72
	Sound Power		dB(A)	92	92	93
External Dimension	Net Weight		kg (lbs)	257 x 1 + 320 x 3 (567 x 1 + 705 x 3)	257 x 1 + 320 x 3 (567 x 1 + 705 x 3)	301 x 2 + 320 x 2 (664 x 2 + 705 x 2)
	ShippingWeight		kg (lbs)	273 x 1 + 336 x 3 (602 x 1 + 741 x 3)	273 x 1 + 336 x 3 (602 x 1 + 741 x 3)	317 x 2 + 336 x 2 (699 x 2 + 741 x 2)
	Net Dimensions(WxHxD)		mm	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4
			inch	(51 x 66-3/4 x 30-1/8) x 4	(51 x 66-3/4 x 30-1/8) x 4	(51 x 66-3/4 x 30-1/8) x 4
	ShippingDimensions(WxHxD)		mm	(1,363 x 1,887 x 829) x 4	(1,363 x 1,887 x 829) x 4	(1,363 x 1,887 x 829) x 4
			inch	(53-11/16 x 74-5/16 x 32-11/16) x 4	(53-11/16 x 74-5/16 x 32-11/16) x 4	(53-11/16 x 74-5/16 x 32-11/16) x 4
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (208~230V)

Model Name				AM980CXVAFH/AZ	
				AM220CXVAFH/AZ	
				AM240CXVAFH/AZ	
				AM260CXVAFH/AZ	
				AM260CXVAFH/AZ	
Power Supply			Ø, #, V, Hz	3, 3, 208~230, 60	
Mode			-	HEAT PUMP	
Performance	HP		HP	98	
	TON		TON	78.02	
	Capacity	Cooling	kW	274.4	
			Btu/h	936,300	
			US RT	78.02	
			Heating	kW	301.7
		Btu/h		1,029,400	
		US RT		85.79	
Maximum number of connectable indoor units			EA	64	
Total capacity of the connected Indoor Units		Min.	kW	137.2	
		Max.	kW	356.7	
Power	Power Input	Cooling	kW	67.47	
		Heating	kW	62.67	
	Current Input	Cooling	A	198.50	
		Heating	A	182.90	
	Current	MCA	A	-	
		MFA	A	-	
Efficiency	EER	Cooling	W/W	4.07	
			Btu/Wh	13.9	
	COP	Heating	W/W	4.81	
Casing	Material	Body	-	GI Steel Plate	
		Base	-	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	
	Material	Fin	-	Al	
		Tube	-	Cu	
	Fin Treatment		-	Anti-corrosion	
Compressor	Type		-	Inverter Scroll x 8	
	Output		kW x n	(6.45 x 2) x 4	
	Model Name		-	(DS4GT5066EV* x 2) x 4	
	Oil	Type	-	PVE	
		Initial charge	cc x n	(1,100 x 2) x 4	
			fl oz x n	(37.2 x 2) x 4	
Fan	Type		-	Propeller	
	Discharge direction		-	Top	
	Quantity		EA	8	
	Air Flow Rate		m³/min (CFM)	330 x 1 + 353 x 3 (11,663 x 1 + 12,465 x 3)	
			l/s	5,504 x 1 + 5,882 x 3	
	External Static Pressure	Max.	mmAq	-	
			Pa	-	
Fan Motor	Type		-	BLDC Motor	
	Output		W x n	(620 x 2) x 4	

2. Specification

DVM S2 (208~230V)

Model Name				AM980CXVAFH/AZ	
	Outdoorunit module 1			AM220CXVAFH/AZ	
	Outdoorunit module 2			AM240CXVAFH/AZ	
	Outdoorunit module 3			AM260CXVAFH/AZ	
	Outdoorunit module 4			AM260CXVAFH/AZ	
Piping Connections	Liquid Pipe		Type	Braze connection	
			Φ, mm (inch)	25.40 (1)	
	Gas Pipe		Type	Braze connection	
			Φ, mm (inch)	53.98 (2-1/8)	
	Heat Insulation			-	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	
	Level difference (IDU in highestposition)	Max.	m (ft)	110 (361)	
Level difference (IDU-IDU)	Max.	m (ft)	50 (164)		
Wiring connections	Transmission Cable		Min.	mm²	0.75
			Remark	-	F1, F2
	Power supply intake			-	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	
	FactoryCharging		kg (lbs)	10.5 x 1 + 14.0 x 3 (23.1 x 1 + 30.9 x 3)	
Sound	Sound Pressure		Cooling	dB(A)	70.4
			Heating	dB(A)	72
	Sound Power			dB(A)	93
External Dimension	Net Weight		kg (lbs)	301 x 1 + 320 x 3 (664 x 1 + 705 x 3)	
	ShippingWeight		kg (lbs)	317 x 1 + 336 x 3 (699 x 1 + 741 x 3)	
	Net Dimensions(WxHxD)		mm	(1,295 x 1,695 x 765) x 4	
			inch	(51 x 66-3/4 x 30-1/8) x 4	
	ShippingDimensions(WxHxD)		mm	(1,363 x 1,887 x 829) x 4	
			inch	(53-11/16 x 74-5/16 x 32-11/16) x 4	
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM080CXVAJH/AZ	AM100CXVAJH/AZ	AM120CXVAJH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	8	10	12
	TON		TON	6.37	7.96	9.55
	Capacity	Cooling	kW	22.4	28.0	33.6
			Btu/h	76,400	95,500	114,600
			US RT	6.37	7.96	9.55
		Heating	kW	25.2	31.5	37.8
			Btu/h	86,000	107,500	129,000
			US RT	7.17	8.96	10.75
Maximum number of connectable indoor units			EA	14	18	21
Total capacity of the connected Indoor Units		Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Power Input	Cooling	kW	4.28	5.43	7.22
		Heating	kW	4.38	5.33	7.40
	Current Input	Cooling	A	6.30	7.95	10.55
		Heating	A	6.70	7.80	10.80
	Current	MCA	A	17.4	18.8	20.6
		MFA	A	20	25	25
Efficiency	EER	Cooling	W/W	5.23	5.16	4.65
			Btu/Wh	17.9	17.6	15.9
	COP	Heating	W/W	5.75	5.91	5.11
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW x n	4.39 x 1	6.67 x 1	6.67 x 1
	Model Name		-	DS2GR7046FV* x 1	DS4GR7066FV* x 1	DS4GR7066FV* x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
			fl oz x n	30.4 x 1	37.2 x 1	37.2 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	1	1	1
	Air Flow Rate		m³/min (CFM)	162 (5,709)	187 (6,603)	201 (7,090)
			l/s	2,694	3,116	3,346
	External Static Pressure	Max.	mmAq	11	11	8
			Pa	110	110	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x 1	630 x 1	630 x 1

2. Specification

DVM S2 (460V)

Model Name				AM080CXVAJH/AZ	AM100CXVAJH/AZ	AM120CXVAJH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		9.52 (3/8)	9.52 (3/8)	12.70 (1/2)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 (15.4)	7.0 (15.4)	7.0 (15.4)
Sound	Sound Pressure	Cooling	dB(A)	56.0	58.0	62.0
		Heating	dB(A)	58	61	63
	Sound Power		dB(A)	77	78	81
External Dimension	Net Weight		kg (lbs)	196 (432)	210 (463)	210 (463)
	Shipping Weight		kg (lbs)	210 (463)	224 (494)	224 (494)
	Net Dimensions (WxHxD)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
			inch	36-5/8 x 66-3/4 x 30-1/8	36-5/8 x 66-3/4 x 30-1/8	36-5/8 x 66-3/4 x 30-1/8
	Shipping Dimensions (WxHxD)		mm	998 x 1,887 x 829	998 x 1,887 x 829	998 x 1,887 x 829
			inch	39-5/16 x 74-5/16 x 32-11/16	39-5/16 x 74-5/16 x 32-11/16	39-5/16 x 74-5/16 x 32-11/16
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM140CXVAJH/AZ	AM160CXVAJH/AZ	AM180CXVAJH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	14	16	18
	TON		TON	11.37	12.80	14.33
	Capacity	Cooling	kW	40.0	45.0	50.4
			Btu/h	136,500	153,500	172,000
			US RT	11.37	12.80	14.33
		Heating	kW	45.0	50.4	56.7
			Btu/h	153,500	172,000	193,500
			US RT	12.80	14.33	16.12
Maximum number of connectable indoor units		EA	26	29	32	
Total capacity of the connected Indoor Units		Min.	kW	20.0	22.5	25.2
		Max.	kW	52.0	58.5	65.5
Power	Power Input	Cooling	kW	8.99	11.51	9.69
		Heating	kW	9.34	11.56	10.13
	Current Input	Cooling	A	12.90	16.10	14.15
		Heating	A	13.10	16.20	14.80
	Current	MCA	A	26.2	28.0	35.0
		MFA	A	35	35	50
Efficiency	EER	Cooling	W/W	4.45	3.91	5.20
			Btu/Wh	15.2	13.3	17.8
	COP	Heating	W/W	4.82	4.36	5.60
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 2
	Output		kW x n	6.67 x 1	8.93 x 1	6.67 x 2
	Model Name		-	DS4GR7066FV* x 1	DS4GM7090FV* x 1	DS4GR7066FV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 1	1,400 x 1	1,100 x 2
			fl oz x n	37.2 x 1	47.3 x 1	37.2 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min (CFM)	299 (10,545)	299 (10,545)	288 (10,161)
			l/s	4,976	4,976	4,795
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	80	80	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2

2. Specification

DVM S2 (460V)

Model Name				AM140CXVAJH/AZ	AM160CXVAJH/AZ	AM180CXVAJH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		12.70 (1/2)	12.70 (1/2)	15.88 (5/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	8.0 (17.6)	8.0 (17.6)	10.5 (23.1)
Sound	Sound Pressure	Cooling	dB(A)	59.5	59.5	59.5
		Heating	dB(A)	62	62	62
	Sound Power		dB(A)	82	82	82
External Dimension	Net Weight		kg (lbs)	237 (522)	246 (542)	309 (681)
	Shipping Weight		kg (lbs)	253 (558)	262 (578)	325 (717)
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
			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
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
			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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM200CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	20	22	24
	TON		TON	15.92	17.52	19.11
	Capacity	Cooling	kW	56.0	61.6	67.2
			Btu/h	191,100	210,200	229,300
			US RT	15.92	17.52	19.11
		Heating	kW	63.0	69.3	75.6
			Btu/h	215,000	236,500	258,000
			US RT	17.91	19.71	21.50
Maximum number of connectable indoor units			EA	36	40	43
Total capacity of the connected Indoor Units		Min.	kW	28.0	30.8	33.6
		Max.	kW	72.8	80.1	87.4
Power	Power Input	Cooling	kW	11.07	13.84	16.39
		Heating	kW	11.67	13.33	14.88
	Current Input	Cooling	A	16.15	20.20	24.25
		Heating	A	17.05	19.45	21.70
	Current	MCA	A	38.0	41.0	45.0
		MFA	A	50	50	50
Efficiency	EER	Cooling	W/W	5.06	4.45	4.10
			Btu/Wh	17.3	15.2	14.0
	COP	Heating	W/W	5.40	5.20	5.08
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	6.67 x 2	6.67 x 2	6.67 x 2
	Model Name		-	DS4GR7066FV* x 2	DS4GR7066FV* x 2	DS4GR7066FV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	1,100 x 2	1,100 x 2
			fl oz x n	37.2 x 2	37.2 x 2	37.2 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min (CFM)	302 (10,662)	330 (11,663)	353 (12,465)
			l/s	5,032	5,504	5,882
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	80	80	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	620 x 2

2. Specification

DVM S2 (460V)

Model Name				AM200CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	10.5 (23.1)	10.5 (23.1)	14.0 (30.9)
Sound	Sound Pressure	Cooling	dB(A)	60.0	62.0	65.0
		Heating	dB(A)	63	65	66
	Sound Power		dB(A)	83	86	87
External Dimension	Net Weight		kg (lbs)	309 (681)	309 (681)	328 (723)
	Shipping Weight		kg (lbs)	325 (717)	325 (717)	344 (758)
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
			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
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,363 x 1,887 x 829
			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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM260CXVAJH/AZ	AM280CXVAJH/AZ	AM300CXVAJH/AZ
	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			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	26	28	30
	TON		TON	20.70	22.35	23.88
	Capacity	Cooling	kW	72.8	78.6	84.0
			Btu/h	248,400	268,200	286,600
			US RT	20.70	22.35	23.88
		Heating	kW	78.4	78.4	94.5
			Btu/h	267,500	267,500	322,400
			US RT	22.29	22.29	26.87
Maximum number of connectable indoor units		EA	47	51	54	
Total capacity of the connected Indoor Units		Min.	kW	36.4	39.3	42.0
		Max.	kW	94.6	102.2	109.2
Power	Power Input	Cooling	kW	18.62	23.96	23.01
		Heating	kW	17.23	17.62	20.54
	Current Input	Cooling	A	27.40	34.50	33.10
		Heating	A	25.15	25.60	29.70
	Current	MCA	A	49.0	50.0	55.0
		MFA	A	63	63	63
Efficiency	EER	Cooling	W/W	3.91	3.28	3.65
			Btu/Wh	13.3	11.2	12.5
	COP	Heating	W/W	4.55	4.45	4.60
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
	Output		kW x n	6.67 x 2	6.67 x 2	8.93 x 2
	Model Name		-	DS4GR7066FV* x 2	DS4GR7066FV* x 2	DS4GM7090FV* x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,100 x 2	1,100 x 2	1,400 x 2
			fl oz x n	37.2 x 2	37.2 x 2	47.3 x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	2	2	2
	Air Flow Rate		m³/min (CFM)	353 (12,465)	353 (12,465)	416 (14,689)
			l/s	5,882	5,882	6,932
	External Static Pressure	Max.	mmAq	8	8	8
			Pa	80	80	80
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	620 x 2	620 x 2	630 x 2

2. Specification

DVM S2 (460V)

Model Name				AM260CXVAJH/AZ	AM280CXVAJH/AZ	AM300CXVAJH/AZ
	Outdoor unit module 1			-	-	-
	Outdoor unit module 2			-	-	-
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	14.0 (30.9)	14.0 (30.9)	15.5 (34.2)
Sound	Sound Pressure	Cooling	dB(A)	65.0	65.0	65.0
		Heating	dB(A)	67	67	68
	Sound Power		dB(A)	87	87	87
External Dimension	Net Weight		kg (lbs)	328 (723)	328 (723)	402 (886)
	Shipping Weight		kg (lbs)	344 (758)	344 (758)	428 (944)
	Net Dimensions (WxHxD)		mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,860 x 1,695 x 765
			inch	51 x 66-3/4 x 30-1/8	51 x 66-3/4 x 30-1/8	73-1/4 x 66-3/4 x 30-1/8
	Shipping Dimensions (WxHxD)		mm	1,363 x 1,887 x 829	1,363 x 1,887 x 829	1,928 x 1,887 x 829
			inch	53-11/16 x 74-5/16 x 32-11/16	53-11/16 x 74-5/16 x 32-11/16	75-15/16 x 74-5/16 x 32-11/16
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM320CXVAJH/AZ	AM340CXVAJH/AZ	AM360CXVAJH/AZ
Outdoor unit module 1				-	-	AM120CXVAJH/AZ
Outdoor unit module 2				-	-	AM240CXVAJH/AZ
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
Performance	HP		HP	32	34	36
	TON		TON	25.48	27.07	28.66
	Capacity	Cooling	kW	89.6	95.2	100.8
			Btu/h	305,700	324,800	343,900
			US RT	25.48	27.07	28.66
		Heating	kW	95.2	95.2	113.4
			Btu/h	324,800	324,800	386,900
			US RT	27.07	27.07	32.24
Maximum number of connectable indoor units			EA	58	61	64
Total capacity of the connected Indoor Units		Min.	kW	44.8	47.6	50.4
		Max.	kW	116.5	123.8	131.0
Power	Power Input	Cooling	kW	27.57	31.73	23.61
		Heating	kW	21.16	21.64	22.28
	Current Input	Cooling	A	39.50	45.30	34.80
		Heating	A	30.60	31.20	32.50
	Current	MCA	A	58.0	61.0	-
		MFA	A	75	75	-
Efficiency	EER	Cooling	W/W	3.25	3.00	4.27
			Btu/Wh	11.1	10.2	14.6
	COP	Heating	W/W	4.50	4.40	5.09
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 3
	Output		kW x n	8.93 x 2	8.93 x 2	(6.67 x 1) x 1 + (6.67 x 2) x 1
	Model Name		-	DS4GM7090FV* x 2	DS4GM7090FV* x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	1,400 x 2	1,400 x 2	(1,100 x 1) x 1 + (1,100 x 2) x 1
			fl oz x n	47.3 x 2	47.3 x 2	(37.2 x 1) x 1 + (37.2 x 2) x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	2	2	3
	Air Flow Rate		m³/min (CFM)	416 (14,689)	416 (14,689)	201 x 1 + 353 x 1 (7,090 x 1 + 12,465 x 1)
			l/s	6,932	6,932	3,346 x 1 + 5,882 x 1
	External Static Pressure	Max.	mmAq	8	8	-
			Pa	80	80	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x 2	630 x 2	(630 x 1) x 1 + (620 x 2) x 1

2. Specification

DVM S2 (460V)

Model Name				AM320CXVAJH/AZ	AM340CXVAJH/AZ	AM360CXVAJH/AZ
	Outdoor unit module 1			-	-	AM120CXVAJH/AZ
	Outdoor unit module 2			-	-	AM240CXVAJH/AZ
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		34.92 (1-3/8)	34.92 (1-3/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	15.5 (34.2)	15.5 (34.2)	7.0 x 1 + 14.0 x 1 (15.4 x 1 + 30.9 x 1)
Sound	Sound Pressure	Cooling	dB(A)	65.0	65.0	66.8
		Heating	dB(A)	68	68	68
	Sound Power		dB(A)	87	87	88
External Dimension	Net Weight		kg (lbs)	402 (886)	402 (886)	210 x 1 + 328 x 1 (463 x 1 + 723 x 1)
	Shipping Weight		kg (lbs)	428 (944)	428 (944)	224 x 1 + 344 x 1 (494 x 1 + 758 x 1)
	Net Dimensions (WxHxD)		mm	1,860 x 1,695 x 765	1,860 x 1,695 x 765	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1
			inch	73-1/4 x 66-3/4 x 30-1/8	73-1/4 x 66-3/4 x 30-1/8	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1
	Shipping Dimensions (WxHxD)		mm	1,928 x 1,887 x 829	1,928 x 1,887 x 829	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1
			inch	75-15/16 x 74-5/16 x 32-11/16	75-15/16 x 74-5/16 x 32-11/16	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1
Operating Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM380CXVAJH/AZ	AM400CXVAJH/AZ	AM420CXVAJH/AZ
Outdoor unit module 1				AM120CXVAJH/AZ	AM180CXVAJH/AZ	AM200CXVAJH/AZ
Outdoor unit module 2				AM260CXVAJH/AZ	AM220CXVAJH/AZ	AM220CXVAJH/AZ
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
Performance	HP		HP	38	40	42
	TON		TON	30.25	31.85	33.44
	Capacity	Cooling	kW	106.4	112.0	117.6
			Btu/h	363,100	382,200	401,300
			US RT	30.25	31.85	33.44
			Heating	kW	116.2	126.0
		Btu/h		396,500	429,900	451,400
		US RT		33.04	35.83	37.62
Maximum number of connectable indoor units		EA	64	64	64	
Total capacity of the connected Indoor Units		Min.	kW	53.2	56.0	58.8
		Max.	kW	138.3	145.6	152.9
Power	Power Input	Cooling	kW	25.84	23.53	24.91
		Heating	kW	24.63	23.46	25.00
	Current Input	Cooling	A	37.95	34.35	36.35
		Heating	A	35.95	34.25	36.50
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.12	4.76	4.72
			Btu/Wh	14.1	16.2	16.1
	COP	Heating	W/W	4.72	5.37	5.29
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 3	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 1	(6.67 x 2) x 2	(6.67 x 2) x 2
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 1	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 1	(1,100 x 2) x 2	(1,100 x 2) x 2
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 1	(37.2 x 2) x 2	(37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	3	4	4
	Air Flow Rate		m³/min (CFM)	201 x 1 + 353 x 1 (7,090 x 1 + 12,465 x 1)	288 x 1 + 330 x 1 (10,161 x 1 + 11,663 x 1)	302 x 1 + 330 x 1 (10,662 x 1 + 11,663 x 1)
			l/s	3,346 x 1 + 5,882 x 1	4,795 x 1 + 5,504 x 1	5,032 x 1 + 5,504 x 1
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 1	(620 x 2) x 2	(620 x 2) x 2

2. Specification

DVM S2 (460V)

Model Name				AM380CXVAJH/AZ	AM400CXVAJH/AZ	AM420CXVAJH/AZ
	Outdoor unit module 1			AM120CXVAJH/AZ	AM180CXVAJH/AZ	AM200CXVAJH/AZ
	Outdoor unit module 2			AM260CXVAJH/AZ	AM220CXVAJH/AZ	AM220CXVAJH/AZ
	Outdoor unit module 3			-	-	-
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 14.0 x 1 (15.4 x 1 + 30.9 x 1)	10.5 x 2 (23.1 x 2)	10.5 x 2 (23.1 x 2)
Sound	Sound Pressure	Cooling	dB(A)	66.8	63.9	64.1
		Heating	dB(A)	68	67	67
	Sound Power		dB(A)	88	87	88
External Dimension	Net Weight		kg (lbs)	210 x 1 + 328 x 1 (463 x 1 + 723 x 1)	309 x 2 (681 x 2)	309 x 2 (681 x 2)
	Shipping Weight		kg (lbs)	224 x 1 + 344 x 1 (494 x 1 + 758 x 1)	325 x 2 (717 x 2)	325 x 2 (717 x 2)
	Net Dimensions (WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 1	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 1	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2
	Shipping Dimensions (WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 1	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 1	(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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM440CXVAJH/AZ	AM460CXVAJH/AZ	AM480CXVAJH/AZ
Outdoor unit module 1				AM220CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
Outdoor unit module 2				AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
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
Performance	HP		HP	44	46	48
	TON		TON	35.03	36.62	38.22
	Capacity	Cooling	kW	123.2	128.8	134.4
			Btu/h	420,400	439,500	458,600
			US RT	35.03	36.62	38.22
			Heating	kW	138.6	144.9
		Btu/h		472,900	494,400	515,900
		US RT		39.41	41.20	42.99
Maximum number of connectable indoor units		EA	64	64	64	
Total capacity of the connected Indoor Units		Min.	kW	61.6	64.4	67.2
		Max.	kW	160.2	167.4	174.7
Power	Power Input	Cooling	kW	27.68	30.23	32.78
		Heating	kW	26.66	28.21	29.76
	Current Input	Cooling	A	40.40	44.45	48.50
		Heating	A	38.90	41.15	43.40
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.45	4.26	4.10
	Btu/Wh		15.2	14.5	14.0	
	COP	Heating	W/W	5.20	5.14	5.08
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 4
	Output		kW x n	(6.67 x 2) x 2	(6.67 x 2) x 2	(6.67 x 2) x 2
	Model Name		-	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 2	(1,100 x 2) x 2	(1,100 x 2) x 2
			fl oz x n	(37.2 x 2) x 2	(37.2 x 2) x 2	(37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	4
	Air Flow Rate		m³/min (CFM)	330 x 2 (11,663 x 2)	353 x 1 + 330 x 1 (12,465 x 1 + 11,663 x 1)	353 x 2 (12,465 x 2)
			l/s	5,504 x 2	5,882 x 1 + 5,504 x 1	5,882 x 2
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(620 x 2) x 2	(620 x 2) x 2

2. Specification

DVM S2 (460V)

Model Name				AM440CXVAJH/AZ	AM460CXVAJH/AZ	AM480CXVAJH/AZ
	Outdoorunit module 1			AM220CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 2			AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 3			-	-	-
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)	
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	10.5 x 2 (23.1 x 2)	14.0 x 1 + 10.5 x 1 (30.9 x 1 + 23.1 x 1)	14.0 x 2 (30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	65.0	66.8
			Heating	dB(A)	68	69
	Sound Power		dB(A)	89	90	90
External Dimension	Net Weight		kg (lbs)	309 x 2 (681 x 2)	328 x 1 + 309 x 1 (723 x 1 + 681 x 1)	328 x 2 (723 x 2)
	Shipping Weight		kg (lbs)	325 x 2 (717 x 2)	344 x 1 + 325 x 1 (758 x 1 + 717 x 1)	344 x 2 (758 x 2)
	Net Dimensions(WxHxD)		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
			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
	ShippingDimensions(WxHxD)		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
			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 Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM500CXVAJH/AZ	AM520CXVAJH/AZ	AM540CXVAJH/AZ
Outdoor unit module 1				AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM120CXVAJH/AZ
Outdoor unit module 2				AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM200CXVAJH/AZ
Outdoor unit module 3				-	-	AM220CXVAJH/AZ
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
Performance	HP		HP	50	52	54
	TON		TON	39.81	41.40	42.99
	Capacity	Cooling	kW	140.0	145.6	151.2
			Btu/h	477,700	496,800	515,900
			US RT	39.81	41.40	42.99
		Heating	kW	154.0	156.8	170.1
			Btu/h	525,500	535,000	580,400
			US RT	43.79	44.59	48.37
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	70.0	72.8	75.6
		Max.	kW	182.0	189.3	196.6
Power	Power Input	Cooling	kW	35.01	37.24	32.13
		Heating	kW	32.11	34.46	32.40
	Current Input	Cooling	A	51.65	54.80	46.90
		Heating	A	46.85	50.30	47.30
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.00	3.91	4.71
			Btu/Wh	13.6	13.3	16.1
	COP	Heating	W/W	4.80	4.55	5.25
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 4	Inverter Scroll x 4	Inverter Scroll x 5
	Output		kW x n	(6.67 x 2) x 2	(6.67 x 2) x 2	(6.67 x 1) x 1 + (6.67 x 2) x 2
	Model Name		-	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 2	(1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2
			fl oz x n	(37.2 x 2) x 2	(37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	4	4	5
	Air Flow Rate		m³/min (CFM)	353 x 2 (12,465 x 2)	353 x 2 (12,465 x 2)	201 x 1 + 302 x 1 + 330 x 1 (7,090 x 1 + 10,662 x 1 + 11,663 x 1)
			l/s	5,882 x 2	5,882 x 2	3,346 x 1 + 5,032 x 1 + 5,504 x 1
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 2	(620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2

2. Specification

DVM S2 (460V)

Model Name				AM500CXVAJH/AZ	AM520CXVAJH/AZ	AM540CXVAJH/AZ
	Outdoorunit module 1			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM120CXVAJH/AZ
	Outdoorunit module 2			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM200CXVAJH/AZ
	Outdoorunit module 3			-	-	AM220CXVAJH/AZ
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	14.0 x 2 (30.9 x 2)	14.0 x 2 (30.9 x 2)	7.0 x 1 + 10.5 x 2 (15.4 x 1 + 23.1 x 2)
Sound	Sound Pressure	Cooling	dB(A)	68.0	68.0	66.2
		Heating	dB(A)	70	70	69
	Sound Power		dB(A)	90	90	89
External Dimension	Net Weight		kg (lbs)	328 x 2 (723 x 2)	328 x 2 (723 x 2)	210 x 1 + 309 x 2 (463 x 1 + 681 x 2)
	Shipping Weight		kg (lbs)	344 x 2 (758 x 2)	344 x 2 (758 x 2)	224 x 1 + 325 x 2 (494 x 1 + 717 x 2)
	Net Dimensions(WxHxD)		mm	(1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
			inch	(51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2
	ShippingDimensions(WxHxD)		mm	(1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2
			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	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM560CXVAJH/AZ	AM580CXVAJH/AZ	AM600CXVAJH/AZ
Outdoor unit module 1				AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM120CXVAJH/AZ
Outdoor unit module 2				AM220CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
Outdoor unit module 3				AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
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
Performance	HP		HP	56	58	60
	TON		TON	44.59	46.18	47.77
	Capacity	Cooling	kW	156.8	162.4	168.0
			Btu/h	535,000	554,100	573,200
			US RT	44.59	46.18	47.77
		Heating	kW	176.4	182.7	189.0
			Btu/h	601,900	623,400	644,900
			US RT	50.16	51.95	53.74
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	78.4	81.2	84.0
		Max.	kW	203.8	211.1	218.4
Power	Power Input	Cooling	kW	34.90	37.45	40.00
		Heating	kW	34.06	35.61	37.16
	Current Input	Cooling	A	50.95	55.00	59.05
		Heating	A	49.70	51.95	54.20
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.49	4.34	4.20
			Btu/Wh	15.3	14.8	14.3
	COP	Heating	W/W	5.18	5.13	5.09
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 5
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 1) x 1 + (6.67 x 2) x 2
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	5	5	5
	Air Flow Rate		m³/min (CFM)	201 x 1 + 330 x 2 (7,090 x 1 + 11,663 x 2)	201 x 1 + 353 x 1 + 330 x 1 (7,090 x 1 + 12,465 x 1 + 11,663 x 1)	201 x 1 + 353 x 2 (7,090 x 1 + 12,465 x 2)
			l/s	3,346 x 1 + 5,504 x 2	3,346 x 1 + 5,882 x 1 + 5,504 x 1	3,346 x 1 + 5,882 x 2
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2

2. Specification

DVM S2 (460V)

Model Name				AM560CXVAJH/AZ	AM580CXVAJH/AZ	AM600CXVAJH/AZ
	Outdoorunit module 1			AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM120CXVAJH/AZ
	Outdoorunit module 2			AM220CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 3			AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	41.28 (1-5/8)	41.28 (1-5/8)	41.28 (1-5/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	7.0 x 1 + 10.5 x 2 (15.4 x 1 + 23.1 x 2)	7.0 x 1 + 14.0 x 1 + 10.5 x 1 (15.4 x 1 + 30.9 x 1 + 23.1 x 1)	7.0 x 1 + 14.0 x 2 (15.4 x 1 + 30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	66.8	69.0
			Heating	dB(A)	69	70
	Sound Power		dB(A)	90	90	91
External Dimension	Net Weight		kg (lbs)	210 x 1 + 309 x 2 (463 x 1 + 681 x 2)	210 x 1 + 328 x 1 + 309 x 1 (463 x 1 + 723 x 1 + 681 x 1)	210 x 1 + 328 x 2 (463 x 1 + 723 x 2)
	ShippingWeight		kg (lbs)	224 x 1 + 325 x 2 (494 x 1 + 717 x 2)	224 x 1 + 344 x 1 + 325 x 1 (494 x 1 + 758 x 1 + 717 x 1)	224 x 1 + 344 x 2 (494 x 1 + 758 x 2)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM620CXVAJH/AZ	AM640CXVAJH/AZ	AM660CXVAJH/AZ
Outdoor unit module 1				AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM180CXVAJH/AZ
Outdoor unit module 2				AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM220CXVAJH/AZ
Outdoor unit module 3				AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
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
Performance	HP		HP	62	64	66
	TON		TON	49.36	50.95	52.55
	Capacity	Cooling	kW	173.6	179.2	184.8
			Btu/h	592,300	611,500	630,600
			US RT	49.36	50.95	52.55
		Heating	kW	191.8	194.6	204.4
			Btu/h	654,400	664,000	697,400
			US RT	54.54	55.33	58.12
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	86.8	89.6	92.4
		Max.	kW	225.7	233.0	240.2
Power	Power Input	Cooling	kW	42.23	44.46	42.15
		Heating	kW	39.51	41.86	40.69
	Current Input	Cooling	A	62.20	65.35	61.75
		Heating	A	57.65	61.10	59.40
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.11	4.03	4.38
			Btu/Wh	14.0	13.8	15.0
	COP	Heating	W/W	4.85	4.65	5.02
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 5	Inverter Scroll x 5	Inverter Scroll x 6
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 1) x 1 + (6.67 x 2) x 2	(6.67 x 2) x 3
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 2	(DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 1) x 1 + (1,100 x 2) x 2	(1,100 x 2) x 3
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 1) x 1 + (37.2 x 2) x 2	(37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Quantity		EA	5	5	6
	Air Flow Rate		m³/min (CFM)	201 x 1 + 353 x 2 (7,090 x 1 + 12,465 x 2)	201 x 1 + 353 x 2 (7,090 x 1 + 12,465 x 2)	288 x 1 + 330 x 1 + 353 x 1 (10,161 x 1 + 11,663 x 1 + 12,465 x 1)
			l/s	3,346 x 1 + 5,882 x 2	3,346 x 1 + 5,882 x 2	4,795 x 1 + 5,504 x 1 + 5,882 x 1
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 2	(630 x 1) x 1 + (620 x 2) x 2	(620 x 2) x 3

2. Specification

DVM S2 (460V)

Model Name				AM620CXVAJH/AZ	AM640CXVAJH/AZ	AM660CXVAJH/AZ
	Outdoorunit module 1			AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM180CXVAJH/AZ
	Outdoorunit module 2			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM220CXVAJH/AZ
	Outdoorunit module 3			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 14.0 x 2 (15.4 x 1 + 30.9 x 2)	7.0 x 1 + 14.0 x 2 (15.4 x 1 + 30.9 x 2)	10.5 x 2 + 14.0 x 1 (23.1 x 2 + 30.9 x 1)
Sound	Sound Pressure		Cooling	dB(A)	69.0	67.5
			Heating	dB(A)	70	71
	Sound Power		dB(A)	91	91	90
External Dimension	Net Weight		kg (lbs)	210 x 1 + 328 x 2 (463 x 1 + 723 x 2)	210 x 1 + 328 x 2 (463 x 1 + 723 x 2)	309 x 2 + 328 x 1 (681 x 2 + 723 x 1)
	ShippingWeight		kg (lbs)	224 x 1 + 344 x 2 (494 x 1 + 758 x 2)	224 x 1 + 344 x 2 (494 x 1 + 758 x 2)	325 x 2 + 344 x 1 (717 x 2 + 758 x 1)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 2	(1,295 x 1,695 x 765) x 3
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 2	(51 x 66-3/4 x 30-1/8) x 3
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 2	(1,363 x 1,887 x 829) x 3
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 2	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB / Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM680CXVAJH/AZ	AM700CXVAJH/AZ	AM720CXVAJH/AZ
		Outdoor unit module 1		AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM220CXVAJH/AZ
		Outdoor unit module 2		AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
		Outdoor unit module 3		AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
		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
Performance	HP		HP	68	70	72
	TON		TON	54.14	55.73	57.32
	Capacity	Cooling	kW	190.4	196.0	201.6
			Btu/h	649,700	668,800	687,900
			US RT	54.14	55.73	57.32
			Heating	kW	214.2	217.0
		Btu/h		730,900	740,400	761,900
		US RT		60.91	61.70	63.49
Maximum number of connectable indoor units		EA	64	64	64	
Total capacity of the connected Indoor Units		Min.	kW	95.2	98.0	100.8
		Max.	kW	247.5	254.8	262.1
Power	Power Input	Cooling	kW	44.07	46.30	48.85
		Heating	kW	41.54	43.89	45.44
	Current Input	Cooling	A	64.65	67.80	71.85
		Heating	A	60.60	64.05	66.30
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.32	4.23	4.13
			Btu/Wh	14.7	14.4	14.1
	COP	Heating	W/W	5.16	4.94	4.91
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(6.67 x 2) x 3	(6.67 x 2) x 3	(6.67 x 2) x 3
	Model Name		-	(DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 3	(1,100 x 2) x 3	(1,100 x 2) x 3
			fl oz x n	(37.2 x 2) x 3	(37.2 x 2) x 3	(37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	6	6	6
	Air Flow Rate		m³/min (CFM)	330 x 2 + 353 x 1 (11,663 x 2 + 12,465 x 1)	330 x 2 + 353 x 1 (11,663 x 2 + 12,465 x 1)	330 x 1 + 353 x 2 (11,663 x 1 + 12,465 x 2)
			l/s	5,504 x 2 + 5,882 x 1	5,504 x 2 + 5,882 x 1	5,504 x 1 + 5,882 x 2
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 3	(620 x 2) x 3	(620 x 2) x 3

2. Specification

DVM S2 (460V)

Model Name				AM680CXVAJH/AZ	AM700CXVAJH/AZ	AM720CXVAJH/AZ
	Outdoorunit module 1			AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM220CXVAJH/AZ
	Outdoorunit module 2			AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 3			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoorunit module 4			-	-	-
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highestposition)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	10.5 x 2 + 14.0 x 1 (23.1 x 2 + 30.9 x 1)	10.5 x 2 + 14.0 x 1 (23.1 x 2 + 30.9 x 1)	10.5 x 1 + 14.0 x 2 (23.1 x 1 + 30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	68.0	69.0
			Heating	dB(A)	70	71
	Sound Power		dB(A)	91	91	91
External Dimension	Net Weight		kg (lbs)	309 x 2 + 328 x 1 (681 x 2 + 723 x 1)	309 x 2 + 328 x 1 (681 x 2 + 723 x 1)	309 x 1 + 328 x 2 (681 x 1 + 723 x 2)
	ShippingWeight		kg (lbs)	325 x 2 + 344 x 1 (717 x 2 + 758 x 1)	325 x 2 + 344 x 1 (717 x 2 + 758 x 1)	325 x 1 + 344 x 2 (717 x 1 + 758 x 2)
	Net Dimensions(WxHxD)		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
			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
	ShippingDimensions(WxHxD)		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
			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 Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table 1DB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM740CXVAJH/AZ	AM760CXVAJH/AZ	AM780CXVAJH/AZ
		Outdoor unit module 1		AM240CXVAJH/AZ	AM240CXVAJH/AZ	AM260CXVAJH/AZ
		Outdoor unit module 2		AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
		Outdoor unit module 3		AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
		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
Performance	HP		HP	74	76	78
	TON		TON	58.92	60.51	62.10
	Capacity	Cooling	kW	207.2	212.8	218.4
			Btu/h	707,000	726,100	745,200
			US RT	58.92	60.51	62.10
		Heating	kW	229.6	232.4	235.2
			Btu/h	783,400	793,000	802,500
			US RT	65.29	66.08	66.88
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	103.6	106.4	109.2
		Max.	kW	269.4	276.6	283.9
Power	Power Input	Cooling	kW	51.40	53.63	55.86
		Heating	kW	46.99	49.34	51.69
	Current Input	Cooling	A	75.90	79.05	82.20
		Heating	A	68.55	72.00	75.45
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.03	3.97	3.91
	Btu/Wh		13.8	13.5	13.3	
	COP	Heating	W/W	4.89	4.71	4.55
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 6	Inverter Scroll x 6	Inverter Scroll x 6
	Output		kW x n	(6.67 x 2) x 3	(6.67 x 2) x 3	(6.67 x 2) x 3
	Model Name		-	(DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 2) x 3	(1,100 x 2) x 3	(1,100 x 2) x 3
			fl oz x n	(37.2 x 2) x 3	(37.2 x 2) x 3	(37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	6	6	6
	Air Flow Rate		m³/min (CFM)	353 x 3 (12,465 x 3)	353 x 3 (12,465 x 3)	353 x 3 (12,465 x 3)
			l/s	5,882 x 3	5,882 x 3	5,882 x 3
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(620 x 2) x 3	(620 x 2) x 3	(620 x 2) x 3

2. Specification

DVM S2 (460V)

Model Name				AM740CXVAJH/AZ	AM760CXVAJH/AZ	AM780CXVAJH/AZ
	Outdoor unit module 1			AM240CXVAJH/AZ	AM240CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoor unit module 2			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoor unit module 3			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoor unit module 4			-	-	-
Piping Connections	Liquid Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe	Type		Braze connection	Braze connection	Braze connection
		Φ, mm (inch)		53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Piping length (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable	Min.	mm ²	0.75	0.75	0.75
		Remark	-	F1, F2	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	14.0 x 3 (30.9 x 3)	14.0 x 3 (30.9 x 3)	14.0 x 3 (30.9 x 3)
Sound	Sound Pressure	Cooling	dB(A)	69.8	69.8	69.8
		Heating	dB(A)	71	71	72
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg (lbs)	328 x 3 (723 x 3)	328 x 3 (723 x 3)	328 x 3 (723 x 3)
	Shipping Weight		kg (lbs)	344 x 3 (758 x 3)	344 x 3 (758 x 3)	344 x 3 (758 x 3)
	Net Dimensions (WxHxD)		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
			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 (WxHxD)		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
			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 Temp. Range	Cooling		°C (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		°C (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM800CXVAJH/AZ	AM820CXVAJH/AZ	AM840CXVAJH/AZ			
				Outdoor unit module 1			AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM120CXVAJH/AZ
				Outdoor unit module 2			AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
				Outdoor unit module 3			AM220CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
				Outdoor unit module 4			AM240CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60			
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP			
Performance	HP		HP	80	82	84			
	TON		TON	63.69	65.29	66.88			
	Capacity	Cooling	kW	224.0	229.6	235.2			
			Btu/h	764,300	783,400	802,500			
			US RT	63.69	65.29	66.88			
		Heating	kW	252.0	258.3	264.6			
			Btu/h	859,900	881,400	902,900			
			US RT	71.65	73.45	75.24			
Maximum number of connectable indoor units		EA	64	64	64				
Total capacity of the connected Indoor Units		Min.	kW	112.0	114.8	117.6			
		Max.	kW	291.2	298.5	305.8			
Power	Power Input	Cooling	kW	51.29	53.84	56.39			
		Heating	kW	48.94	50.49	52.04			
	Current Input	Cooling	A	75.20	79.25	83.30			
		Heating	A	71.40	73.65	75.90			
	Current	MCA	A	-	-	-			
		MFA	A	-	-	-			
Efficiency	EER	Cooling	W/W	4.37	4.26	4.17			
			Btu/Wh	14.9	14.6	14.2			
	COP	Heating	W/W	5.15	5.12	5.08			
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube			
	Material	Fin	-	Al	Al	Al			
		Tube	-	Cu	Cu	Cu			
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion			
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 7			
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3			
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3			
	Oil	Type	-	PVE	PVE	PVE			
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3			
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3			
Fan	Type		-	Propeller	Propeller	Propeller			
	Discharge direction		-	Top	Top	Top			
	Quantity		EA	7	7	7			
	Air Flow Rate		m³/min (CFM)	201 x 1 + 330 x 2 + 353 x 1 (7,090 x 1 + 11,663 x 2 + 12,465 x 1)	201 x 1 + 330 x 1 + 353 x 2 (7,090 x 1 + 11,663 x 1 + 12,465 x 2)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)			
			l/s	3,346 x 1 + 5,504 x 2 + 5,882 x 1	3,346 x 1 + 5,504 x 1 + 5,882 x 2	3,346 x 1 + 5,882 x 3			
	External Static Pressure	Max.	mmAq	-	-	-			
			Pa	-	-	-			
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor			
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3			

2. Specification

DVM S2 (460V)

Model Name				AM800CXVAJH/AZ	AM820CXVAJH/AZ	AM840CXVAJH/AZ
	Outdoorunit module 1			AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM120CXVAJH/AZ
	Outdoorunit module 2			AM220CXVAJH/AZ	AM220CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 3			AM220CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
	Outdoorunit module 4			AM240CXVAJH/AZ	AM240CXVAJH/AZ	AM240CXVAJH/AZ
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)	
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	7.0 x 1 + 10.5 x 2 + 14.0 x 1 (15.4 x 1 + 23.1 x 2 + 30.9 x 1)	7.0 x 1 + 10.5 x 1 + 14.0 x 2 (15.4 x 1 + 23.1 x 1 + 30.9 x 2)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)
Sound	Sound Pressure		Cooling	dB(A)	69.0	70.4
			Heating	dB(A)	71	71
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg (lbs)	210 x 1 + 309 x 2 + 328 x 1 (463 x 1 + 681 x 2 + 723 x 1)	210 x 1 + 309 x 1 + 328 x 2 (463 x 1 + 681 x 1 + 723 x 2)	210 x 1 + 328 x 3 (463 x 1 + 723 x 3)
	ShippingWeight		kg (lbs)	224 x 1 + 325 x 2 + 344 x 1 (494 x 1 + 717 x 2 + 758 x 1)	224 x 1 + 325 x 1 + 344 x 2 (494 x 1 + 717 x 1 + 758 x 2)	224 x 1 + 344 x 3 (494 x 1 + 758 x 3)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 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 values of multi combination are theoretical values based on sound results of individual installed units.
- These products contain R410A which is fluorinated greenhouse gas.
- If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM860CXVAJH/AZ	AM880CXVAJH/AZ	AM900CXVAJH/AZ
		Outdoor unit module 1		AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM120CXVAJH/AZ
		Outdoor unit module 2		AM240CXVAJH/AZ	AM240CXVAJH/AZ	AM260CXVAJH/AZ
		Outdoor unit module 3		AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
		Outdoor unit module 4		AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	HP		HP	86	88	90
	TON		TON	68.47	70.06	71.65
	Capacity	Cooling	kW	240.8	246.4	252.0
			Btu/h	821,600	840,800	859,900
			US RT	68.47	70.06	71.65
		Heating	kW	267.4	270.2	273.0
			Btu/h	912,400	922,000	931,500
			US RT	76.03	76.83	77.63
Maximum number of connectable indoor units			EA	64	64	64
Total capacity of the connected Indoor Units		Min.	kW	120.4	123.2	126.0
		Max.	kW	313.0	320.3	327.6
Power	Power Input	Cooling	kW	58.62	60.85	63.08
		Heating	kW	54.39	56.74	59.09
	Current Input	Cooling	A	86.45	89.60	92.75
		Heating	A	79.35	82.80	86.25
	Current	MCA	A	-	-	-
		MFA	A	-	-	-
Efficiency	EER	Cooling	W/W	4.11	4.05	3.99
			Btu/Wh	14.0	13.8	13.6
	COP	Heating	W/W	4.92	4.76	4.62
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 7
	Output		kW x n	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 1) x 1 + (6.67 x 2) x 3
	Model Name		-	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3
	Oil	Type	-	PVE	PVE	PVE
		Initial charge	cc x n	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 1) x 1 + (1,100 x 2) x 3
			fl oz x n	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 1) x 1 + (37.2 x 2) x 3
Fan	Type		-	Propeller	Propeller	Propeller
	Discharged direction		-	Top	Top	Top
	Quantity		EA	7	7	7
	Air Flow Rate		m³/min (CFM)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)	201 x 1 + 353 x 3 (7,090 x 1 + 12,465 x 3)
			l/s	3,346 x 1 + 5,882 x 3	3,346 x 1 + 5,882 x 3	3,346 x 1 + 5,882 x 3
	External Static Pressure	Max.	mmAq	-	-	-
			Pa	-	-	-
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3	(630 x 1) x 1 + (620 x 2) x 3

2. Specification

DVM S2 (460V)

Model Name				AM860CXVAJH/AZ	AM880CXVAJH/AZ	AM900CXVAJH/AZ
	Outdoorunit module 1			AM120CXVAJH/AZ	AM120CXVAJH/AZ	AM120CXVAJH/AZ
	Outdoorunit module 2			AM240CXVAJH/AZ	AM240CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoorunit module 3			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoorunit module 4			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	22.22 (7/8)	22.22 (7/8)	22.22 (7/8)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	Factory Charging		kg (lbs)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)	7.0 x 1 + 14.0 x 3 (15.4 x 1 + 30.9 x 3)
Sound	Sound Pressure		Cooling	dB(A)	70.4	70.4
			Heating	dB(A)	72	72
	Sound Power		dB(A)	92	92	92
External Dimension	Net Weight		kg (lbs)	210 x 1 + 328 x 3 (463 x 1 + 723 x 3)	210 x 1 + 328 x 3 (463 x 1 + 723 x 3)	210 x 1 + 328 x 3 (463 x 1 + 723 x 3)
	Shipping Weight		kg (lbs)	224 x 1 + 344 x 3 (494 x 1 + 758 x 3)	224 x 1 + 344 x 3 (494 x 1 + 758 x 3)	224 x 1 + 344 x 3 (494 x 1 + 758 x 3)
	Net Dimensions(WxHxD)		mm	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3	(930 x 1,695 x 765) x 1 + (1,295 x 1,695 x 765) x 3
			inch	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3	(36-5/8 x 66-3/4 x 30-1/8) x 1 + (51 x 66-3/4 x 30-1/8) x 3
	ShippingDimensions(WxHxD)		mm	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3	(998 x 1,887 x 829) x 1 + (1,363 x 1,887 x 829) x 3
			inch	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3	(39-5/16 x 74-5/16 x 32-11/16) x 1 + (53-11/16 x 74-5/16 x 32-11/16) x 3
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)



NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM920CXVAJH/AZ	AM940CXVAJH/AZ	AM960CXVAJH/AZ			
				Outdoor unit module 1			AM160CXVAJH/AZ	AM160CXVAJH/AZ	AM220CXVAJH/AZ
				Outdoor unit module 2			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM220CXVAJH/AZ
				Outdoor unit module 3			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
				Outdoor unit module 4			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	3, 3, 460, 60	3, 3, 460, 60			
Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP			
Performance	HP		HP	92	94	96			
	TON		TON	73.30	74.90	76.43			
	Capacity	Cooling	kW	257.8	263.4	268.8			
			Btu/h	879,600	898,800	917,200			
			US RT	73.30	74.90	76.43			
			Heating	kW	282.8	285.6	295.4		
		Btu/h		965,000	974,500	1,007,900			
		US RT		80.41	81.21	84.00			
Maximum number of connectable indoor units		EA	64	64	64				
Total capacity of the connected Indoor Units		Min.	kW	128.9	131.7	134.4			
		Max.	kW	335.1	342.4	349.4			
Power	Power Input	Cooling	kW	65.14	67.37	64.92			
		Heating	kW	60.90	63.25	61.12			
	Current Input	Cooling	A	95.15	98.30	95.20			
		Heating	A	88.20	91.65	89.20			
	Current	MCA	A	-	-	-			
		MFA	A	-	-	-			
Efficiency	EER	Cooling	W/W	3.96	3.91	4.14			
			Btu/Wh	13.5	13.3	14.1			
	COP	Heating	W/W	4.64	4.52	4.83			
Casing	Material	Body	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
		Base	-	GI Steel Plate	GI Steel Plate	GI Steel Plate			
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube			
	Material	Fin	-	Al	Al	Al			
		Tube	-	Cu	Cu	Cu			
	Fin Treatment		-	Anti-corrosion	Anti-corrosion	Anti-corrosion			
Compressor	Type		-	Inverter Scroll x 7	Inverter Scroll x 7	Inverter Scroll x 8			
	Output		kW x n	(8.93 x 1) x 1 + (6.67 x 2) x 3	(8.93 x 1) x 1 + (6.67 x 2) x 3	(6.67 x 2) x 4			
	Model Name		-	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GM7090FV* x 1) x 1 + (DS4GR7066FV* x 2) x 3	(DS4GR7066FV* x 2) x 4			
	Oil	Type	-	PVE	PVE	PVE			
		Initial charge	cc x n	(1,400 x 1) x 1 + (1,100 x 2) x 3	(1,400 x 1) x 1 + (1,100 x 2) x 3	(1,100 x 2) x 4			
			fl oz x n	(47.3 x 1) x 1 + (37.2 x 2) x 3	(47.3 x 1) x 1 + (37.2 x 2) x 3	(37.2 x 2) x 4			
Fan	Type		-	Propeller	Propeller	Propeller			
	Discharged direction		-	Top	Top	Top			
	Quantity		EA	8	8	8			
	Air Flow Rate		m³/min (CFM)	299 x 1 + 353 x 3 (10,545 x 1 + 12,465 x 3)	299 x 1 + 353 x 3 (10,545 x 1 + 12,465 x 3)	330 x 2 + 353 x 2 (11,663 x 2 + 12,465 x 2)			
			l/s	4,976 x 1 + 5,882 x 3	4,976 x 1 + 5,882 x 3	5,504 x 2 + 5,882 x 2			
	External Static Pressure	Max.	mmAq	-	-	-			
			Pa	-	-	-			
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor			
	Output		W x n	(620 x 2) x 4	(620 x 2) x 4	(620 x 2) x 4			

2. Specification

DVM S2 (460V)

Model Name				AM920CXVAJH/AZ	AM940CXVAJH/AZ	AM960CXVAJH/AZ
	Outdoorunit module 1			AM160CXVAJH/AZ	AM160CXVAJH/AZ	AM220CXVAJH/AZ
	Outdoorunit module 2			AM240CXVAJH/AZ	AM260CXVAJH/AZ	AM220CXVAJH/AZ
	Outdoorunit module 3			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
	Outdoorunit module 4			AM260CXVAJH/AZ	AM260CXVAJH/AZ	AM260CXVAJH/AZ
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	25.40 (1)	25.40 (1)	25.40 (1)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection
			Φ, mm (inch)	53.98 (2-1/8)	53.98 (2-1/8)	53.98 (2-1/8)
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
	Pipinglength (ODU-IDU)	Max. [Equiv.]	m (ft)	200[220] (656[722])	200[220] (656[722])	200[220] (656[722])
	Pipinglength (1st Branch-IDU)	Max.	m (ft)	90 (295)	90 (295)	90 (295)
	Total piping length (System)	Max.	m (ft)	1,000 (3,281)	1,000 (3,281)	1,000 (3,281)
	Level difference (ODU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
	Level difference (IDU in highest position)	Max.	m (ft)	110 (361)	110 (361)	110 (361)
Level difference (IDU-IDU)	Max.	m (ft)	50 (164)	50 (164)	50 (164)	
Wiring connections	Transmission Cable		Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Power supply intake		-	Both indoor and outdoor unit	Both indoor and outdoor unit	Both indoor and outdoor unit
Refrigerant	Type		-	R410A	R410A	R410A
	FactoryCharging		kg (lbs)	8.0 x 1 + 14.0 x 3 (17.6 x 1 + 30.9 x 3)	8.0 x 1 + 14.0 x 3 (17.6 x 1 + 30.9 x 3)	10.5 x 2 + 14.0 x 2 (23.1 x 2 + 30.9 x 2)
Sound	Sound Pressure		Cooling	dB(A)	70.2	70.2
			Heating	dB(A)	72	72
	Sound Power		dB(A)	92	92	93
External Dimension	Net Weight		kg (lbs)	246 x 1 + 328 x 3 (542 x 1 + 723 x 3)	246 x 1 + 328 x 3 (542 x 1 + 723 x 3)	309 x 2 + 328 x 2 (681 x 2 + 723 x 2)
	ShippingWeight		kg (lbs)	262 x 1 + 344 x 3 (578 x 1 + 758 x 3)	262 x 1 + 344 x 3 (578 x 1 + 758 x 3)	325 x 2 + 344 x 2 (717 x 2 + 758 x 2)
	Net Dimensions(WxHxD)		mm	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4	(1,295 x 1,695 x 765) x 4
			inch	(51 x 66-3/4 x 30-1/8) x 4	(51 x 66-3/4 x 30-1/8) x 4	(51 x 66-3/4 x 30-1/8) x 4
	ShippingDimensions(WxHxD)		mm	(1,363 x 1,887 x 829) x 4	(1,363 x 1,887 x 829) x 4	(1,363 x 1,887 x 829) x 4
			inch	(53-11/16 x 74-5/16 x 32-11/16) x 4	(53-11/16 x 74-5/16 x 32-11/16) x 4	(53-11/16 x 74-5/16 x 32-11/16) x 4
Operating Temp. Range	Cooling		℃ (°F)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)	-15 ~ 50 (5 ~ 122)
	Heating		℃ (°F)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)	-25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20μPa
- 5) Sound 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

2. Specification

DVM S2 (460V)

Model Name				AM980CXVAJH/AZ	
				AM220CXVAJH/AZ	
				AM240CXVAJH/AZ	
				AM260CXVAJH/AZ	
				AM260CXVAJH/AZ	
Power Supply			Ø, #, V, Hz	3, 3, 460, 60	
Mode			-	HEAT PUMP	
Performance	HP		HP	98	
	TON		TON	78.02	
	Capacity	Cooling	kW	274.4	
			Btu/h	936,300	
			US RT	78.02	
			Heating	kW	301.7
		Btu/h		1,029,400	
		US RT		85.79	
Maximum number of connectable indoor units			EA	64	
Total capacity of the connected Indoor Units		Min.	kW	137.2	
		Max.	kW	356.7	
Power	Power Input	Cooling	kW	67.47	
		Heating	kW	62.67	
	Current Input	Cooling	A	99.25	
		Heating	A	91.45	
	Current	MCA	A	-	
		MFA	A	-	
Efficiency	EER	Cooling	W/W	4.07	
			Btu/Wh	13.9	
	COP	Heating	W/W	4.81	
Casing	Material	Body	-	GI Steel Plate	
		Base	-	GI Steel Plate	
Heat Exchanger	Type		-	Fin & Tube	
	Material	Fin	-	Al	
		Tube	-	Cu	
	Fin Treatment		-	Anti-corrosion	
Compressor	Type		-	Inverter Scroll x 8	
	Output		kW x n	(6.67 x 2) x 4	
	Model Name		-	(DS4GR7066FV* x 2) x 4	
	Oil	Type	-	PVE	
		Initial charge	cc x n	(1,100 x 2) x 4	
			fl oz x n	(37.2 x 2) x 4	
Fan	Type		-	Propeller	
	Discharged direction		-	Top	
	Quantity		EA	8	
	Air Flow Rate		m³/min (CFM)	330 x 1 + 353 x 3 (11,663 x 1 + 12,465 x 3)	
			l/s	5,504 x 1 + 5,882 x 3	
	External Static Pressure	Max.	mmAq	-	
			Pa	-	
Fan Motor	Type		-	BLDC Motor	
	Output		W x n	(620 x 2) x 4	

2. Specification

DVM S2 (460V)

Model Name			AM980CXVAJH/AZ
Piping Connections	Outdoor unit module 1		AM220CXVAJH/AZ
	Outdoor unit module 2		AM240CXVAJH/AZ
	Outdoor unit module 3		AM260CXVAJH/AZ
	Outdoor unit module 4		AM260CXVAJH/AZ
	Liquid Pipe	Type	Braze connection
		Φ, mm (inch)	25.40 (1)
	Gas Pipe	Type	Braze connection
		Φ, mm (inch)	53.98 (2-1/8)
	Heat Insulation		- Both liquid and gas pipes
Piping Connections	Piping length (ODU-IDU)	Max. [Equiv.] m (ft)	200[220] (656[722])
	Piping length (1st Branch-IDU)	Max. m (ft)	90 (295)
	Total piping length (System)	Max. m (ft)	1,000 (3,281)
	Level difference (ODU in highest position)	Max. m (ft)	110 (361)
	Level difference (IDU in highest position)	Max. m (ft)	110 (361)
	Level difference (IDU-IDU)	Max. m (ft)	50 (164)
Wiring connections	Transmission Cable	Min. mm ²	0.75
		Remark	F1, F2
	Power supply intake		- Both indoor and outdoor unit
Refrigerant	Type		- R410A
	Factory Charging		kg (lbs) 10.5 x 1 + 14.0 x 3 (23.1 x 1 + 30.9 x 3)
Sound	Sound Pressure	Cooling dB(A)	70.4
		Heating dB(A)	72
	Sound Power dB(A)		93
External Dimension	Net Weight		kg (lbs) 309 x 1 + 328 x 3 (681 x 1 + 723 x 3)
	Shipping Weight		kg (lbs) 325 x 1 + 344 x 3 (717 x 1 + 758 x 3)
	Net Dimensions (WxHxD)	mm	(1,295 x 1,695 x 765) x 4
		inch	(51 x 66-3/4 x 30-1/8) x 4
	Shipping Dimensions (WxHxD)	mm	(1,363 x 1,887 x 829) x 4
		inch	(53-11/16 x 74-5/16 x 32-11/16) x 4
Operating Temp. Range	Cooling		°C (°F) -15 ~ 50 (5 ~ 122)
	Heating		°C (°F) -25 ~ 24 (-13 ~ 75)

NOTE

- Specification may be subject to change without prior notice.
- 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB / Heating : Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
- 2) Performance of Multiple Module Outdoor unit is weighted average of Single Module outdoor units.
- 3) Allowed combination ratio of the total rated indoor unit capacity over the rated outdoor unit capacity is 50~130%.
- 4) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment. / Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level, - Reference acoustic pressure 0 dB = 20uPa
- 5) 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
- 6) Sound values of multi combination are theoretical values based on sound results of individual installed units.
- 7) These products contain R410A which is fluorinated greenhouse gas.
- 8) If outdoor unit is located in a higher position than indoor unit, level difference is 110m or under.
 - (If the level difference is higher than 50m, make a decision by PDM kit installation Guide software whether the PDM kit should be installed or not.)
 - PDM kit: Pressure Drop Modulation kit,
 - When the outdoor unit is below the indoor unit & the level differences are 40m or more, contact your local dealer for more information.
- 9) External static pressure of the model installed as a combined module follows the external static pressure of each single unit.
- 10) 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.
- In case you want to know more information regarding capacity and correction, please refer to capacity table TDB on pvi.samsung.com site.

3. Electric Characteristics

DVM S2 (208~230V)

Capacity		Model Name	Power Supply		Voltage Range		Running Current [A]		Current [A]		ODU Fan Motor	
HP	kW		Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	MCA	MFA	kW	FLA [A]
8	22.4	AM080CXVAFH/AZ	60	208~230	187	253	12.60	12.80	28	40	0.63	4.6
10	28.0	AM100CXVAFH/AZ	60	208~230	187	253	15.90	15.60	34	50	0.63	4.6
12	33.6	AM120CXVAFH/AZ	60	208~230	187	253	21.10	21.60	37	50	0.63	4.6
14	40.0	AM140CXVAFH/AZ	60	208~230	187	253	25.80	23.50	50	63	1.24	8.4
16	45.0	AM160CXVAFH/AZ	60	208~230	187	253	29.90	27.80	52	63	1.24	8.4
18	50.4	AM180CXVAFH/AZ	60	208~230	187	253	28.30	29.60	60	75	1.24	8.4
20	56.0	AM200CXVAFH/AZ	60	208~230	187	253	32.30	34.10	64	75	1.24	8.4
22	61.6	AM220CXVAFH/AZ	60	208~230	187	253	40.40	38.90	68	75	1.24	8.4
24	67.2	AM240CXVAFH/AZ	60	208~230	187	253	48.50	43.40	71	80	1.24	8.4
26	72.8	AM260CXVAFH/AZ	60	208~230	187	253	54.80	50.30	73	80	1.24	8.4

DVM S2 (460V)

Capacity		Model Name	Power Supply		Voltage Range		Running Current [A]		Current [A]		ODU Fan Motor	
HP	kW		Hz	Voltage	Min. (-10%)	Max. (+10%)	Cooling	Heating	MCA	MFA	kW	FLA [A]
8	22.4	AM080CXVAJH/AZ	60	460	414	506	6.30	6.70	17.4	20	0.63	2.3
10	28.0	AM100CXVAJH/AZ	60	460	414	506	7.95	7.80	18.8	25	0.63	2.3
12	33.6	AM120CXVAJH/AZ	60	460	414	506	10.55	10.80	20.6	25	0.63	2.3
14	40.0	AM140CXVAJH/AZ	60	460	414	506	12.90	13.10	26.2	35	1.24	4.2
16	45.0	AM160CXVAJH/AZ	60	460	414	506	16.10	16.20	28.0	35	1.24	4.2
18	50.4	AM180CXVAJH/AZ	60	460	414	506	14.15	14.80	35.0	50	1.24	4.2
20	56.0	AM200CXVAJH/AZ	60	460	414	506	16.15	17.05	38.0	50	1.24	4.2
22	61.6	AM220CXVAJH/AZ	60	460	414	506	20.20	19.45	41.0	50	1.24	4.2
24	67.2	AM240CXVAJH/AZ	60	460	414	506	24.25	21.70	45.0	50	1.24	4.2
26	72.8	AM260CXVAJH/AZ	60	460	414	506	27.40	25.15	49.0	63	1.24	4.2
28	78.6	AM280CXVAJH/AZ	60	460	414	506	34.50	25.60	50.0	63	1.24	4.2
30	84.0	AM300CXVAJH/AZ	60	460	414	506	33.10	29.70	55.0	63	1.26	4.6
32	89.6	AM320CXVAJH/AZ	60	460	414	506	39.50	30.06	58.0	75	1.26	4.6
34	95.2	AM340CXVAJH/AZ	60	460	414	506	45.30	31.20	61.0	75	1.26	4.6

NOTE

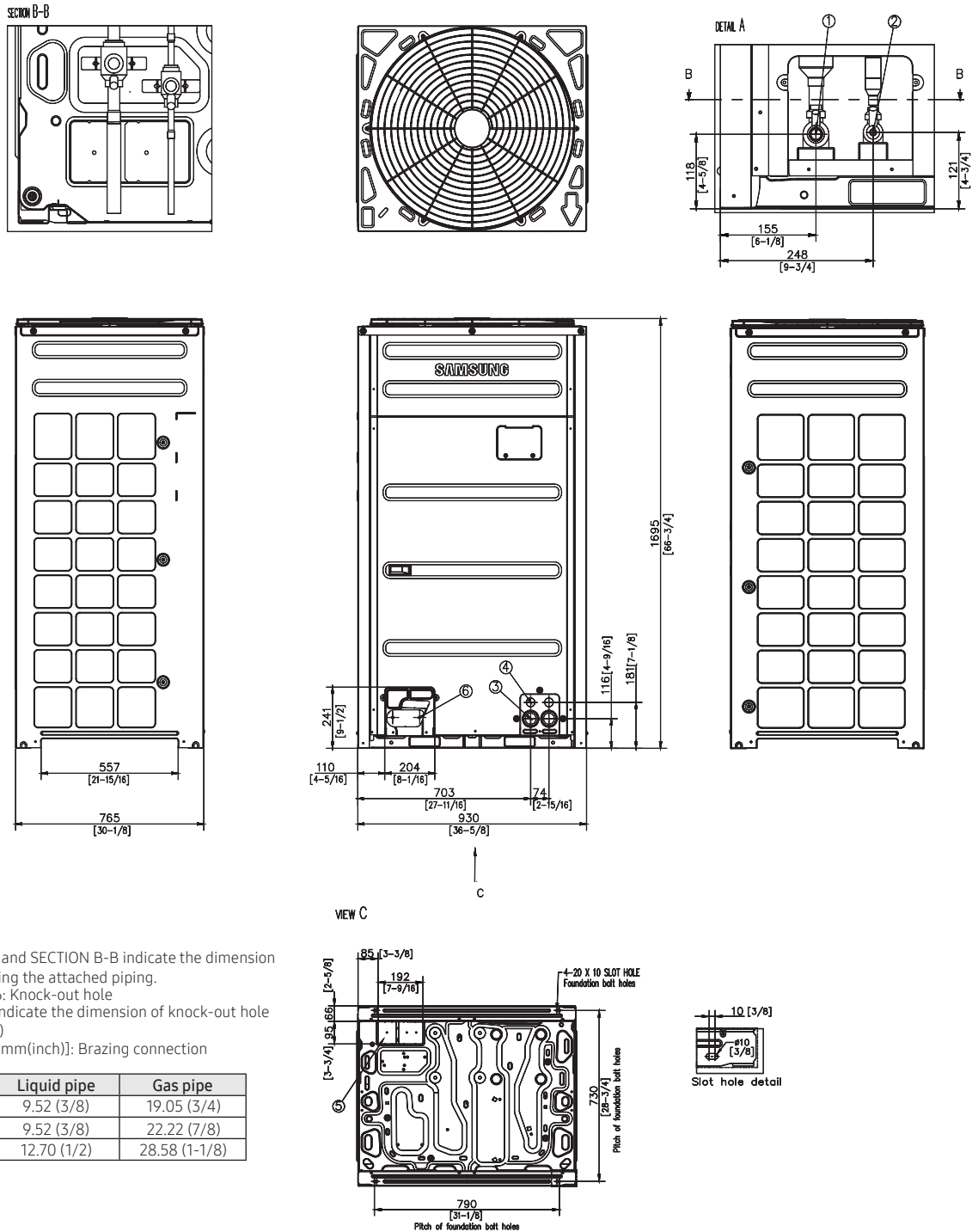
- MCA : Minimum Circuit Amperes
- MFA : maximum fuse Amperes
- FLA : Full Load Amperes

4. Dimensional Drawing

Outdoor unit

- AM080~120CXVAFH/AZ, AM080~120CXVAJH/AZ

Unit: mm (inches)



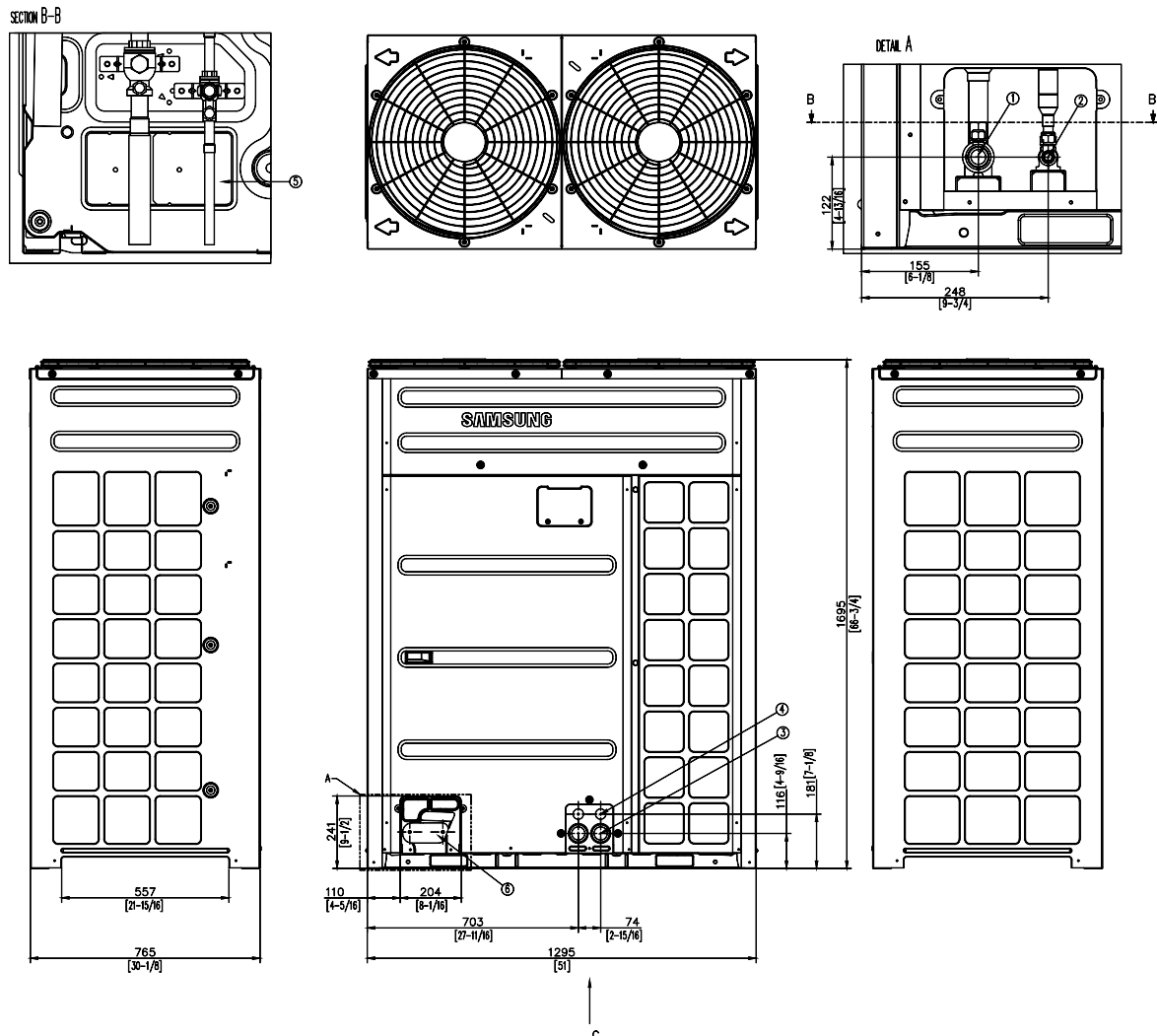
NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			

4. Dimensional Drawing

Outdoor unit

• AM140~260CXVAFH/AZ, AM140~280CXVAJH/AZ

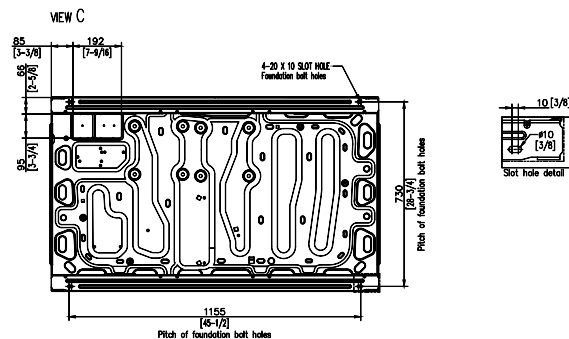
Unit: mm (inches)



NOTE

- Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
- Item 3-6: Knock-out hole
- View C indicate the dimension of knock-out hole (bottom)
- Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Gas pipe
14	12.70 (1/2)	28.58 (1-1/8)
16	12.70 (1/2)	28.58 (1-1/8)
18	15.88 (5/8)	28.58 (1-1/8)
20	15.88 (5/8)	28.58 (1-1/8)
22	15.88 (5/8)	28.58 (1-1/8)
24	15.88 (5/8)	34.92 (1-3/8)
26	19.05 (3/4)	34.92 (1-3/8)
28	19.05 (3/4)	34.92 (1-3/8)



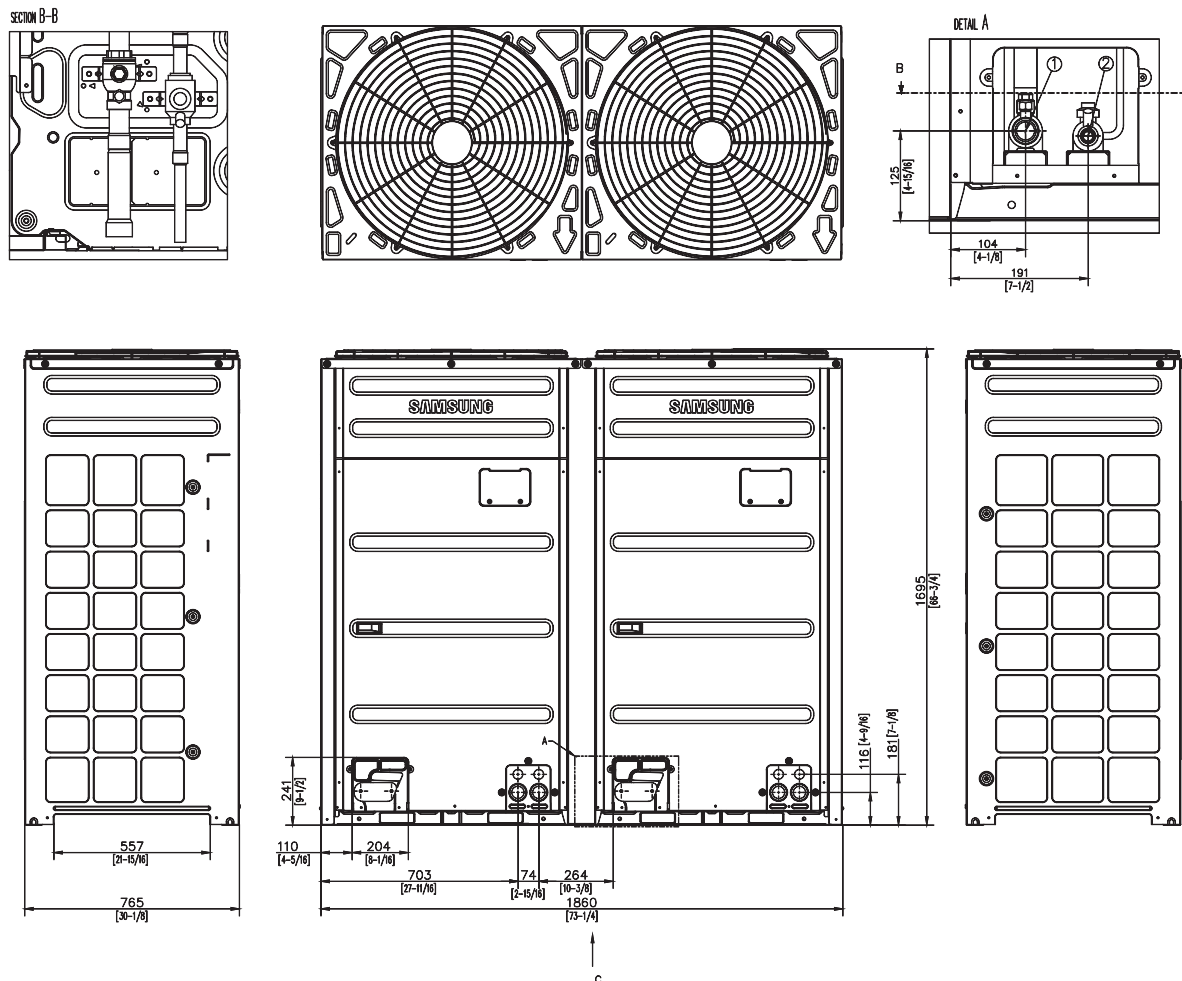
NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			

4. Dimensional Drawing

Outdoor unit

• AM300~340CXVAJH/AZ

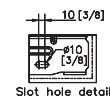
Unit: mm (inches)



NOTE

- 1 Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
- 2 Item 3-6: Knock-out hole
- 3 View C indicate the dimension of knock-out hole (bottom)
- 4 Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Gas pipe
30	19.05 (3/4)	34.92 (1-3/8)
32	19.05 (3/4)	34.92 (1-3/8)
34	19.05 (3/4)	34.92 (1-3/8)

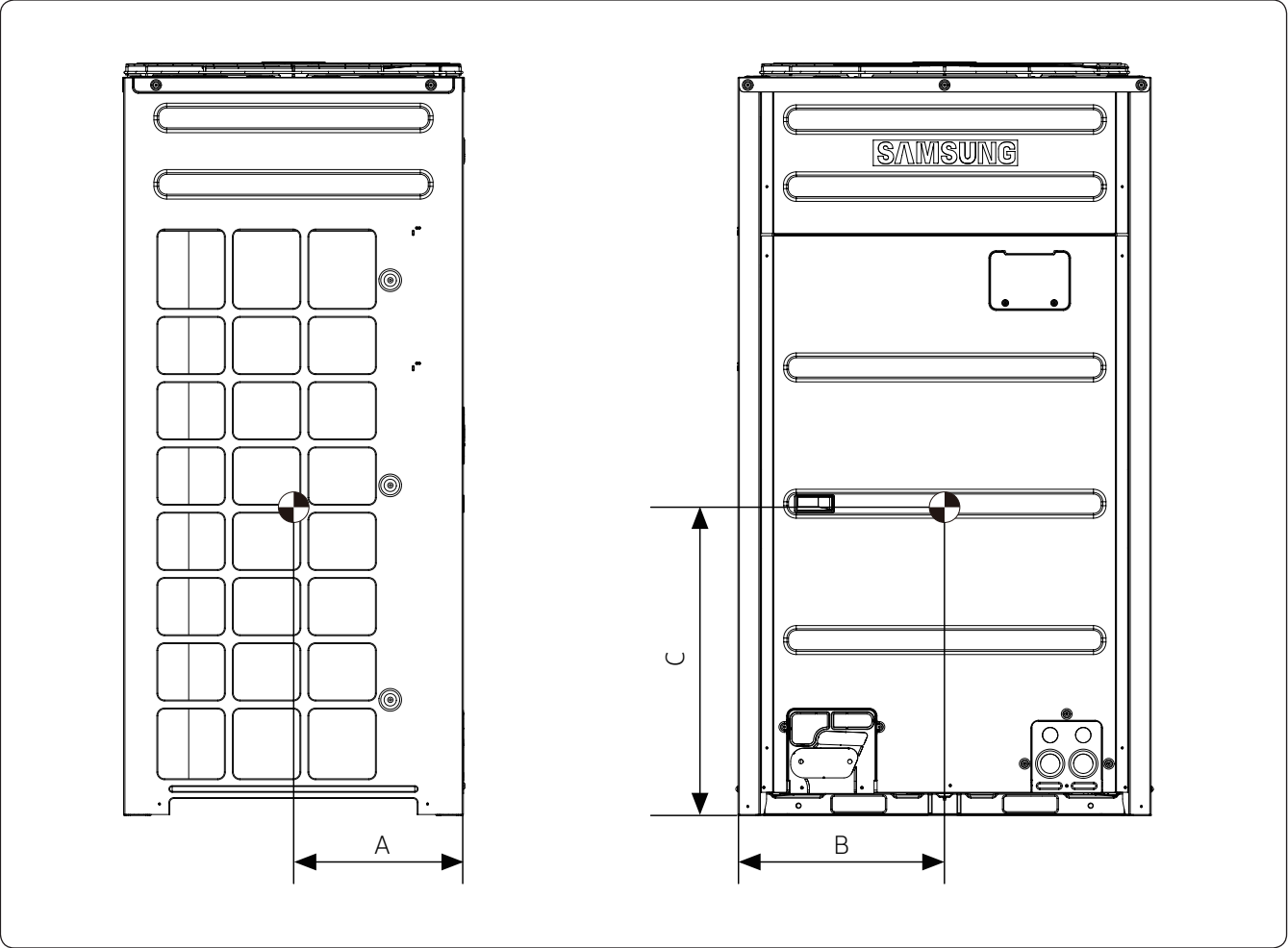


NO	Table of descriptions	Remark	NO	Table of descriptions	Remark
1	Gas Ref.pipe	See NOTE 4.	5	Knock-out Hole for Ref.Piping (bottom)	
2	Liquid Ref.pipe	See NOTE 4.	6	Knock-out Hole for Ref.Piping (front)	
3	Power wiring conduit	Ø44			
4	Communication wiring conduit	Ø34			

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

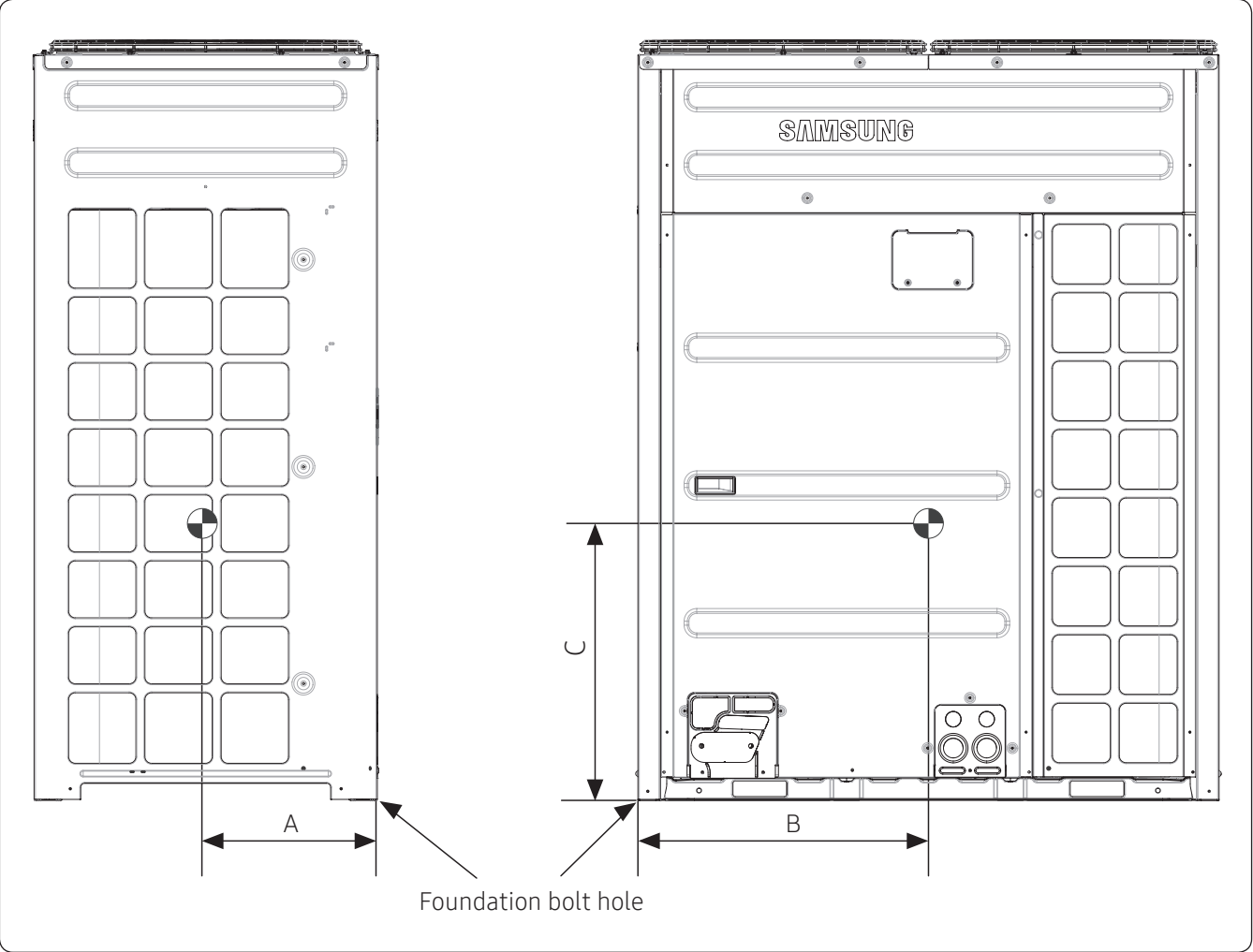


Model	A	B	C
AM080CXVA*H/AZ	358 [14 - 1/8]	463 [18 - 1/4]	715 [28 - 1/8]
AM100CXVA*H/AZ AM120CXVA*H/AZ	351 [13 - 13/16]	461 [18 - 1/8]	694 [27 - 5/16]

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

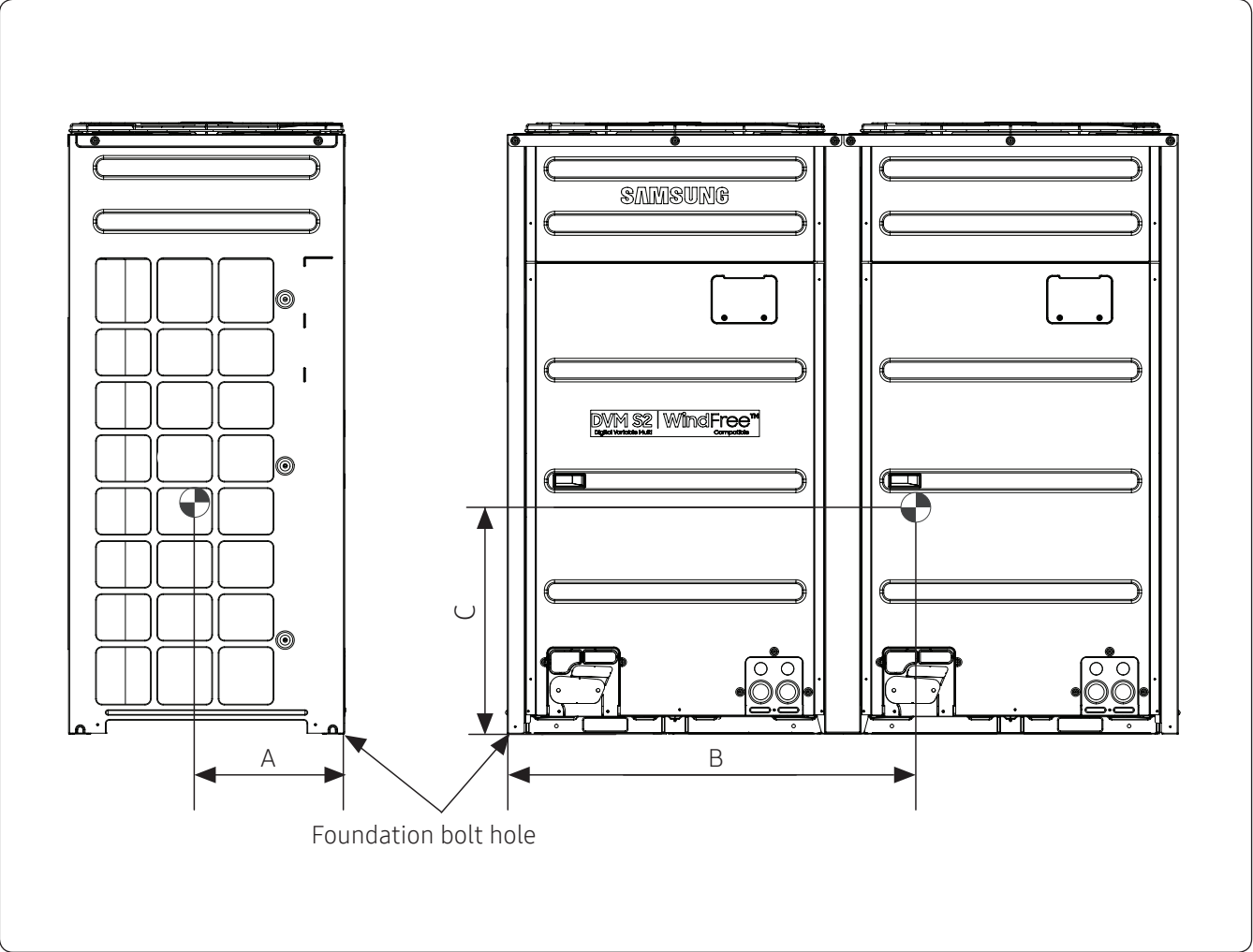


Model	A	B	C
AM140CXVA*H/AZ AM160CXVA*H/AZ	345 [13 - 9/16]	502 [19 - 3/4]	719 [28 - 5/16]
AM180CXVA*H/AZ AM200CXVA*H/AZ AM220CXVA*H/AZ AM240CXVA*H/AZ AM260CXVA*H/AZ AM280CXVAJH/AZ	324 [12 - 3/4]	520 [20 - 1/2]	678 [26 - 11/16]

5. Center of Gravity

Outdoor unit

Unit: mm (inches)

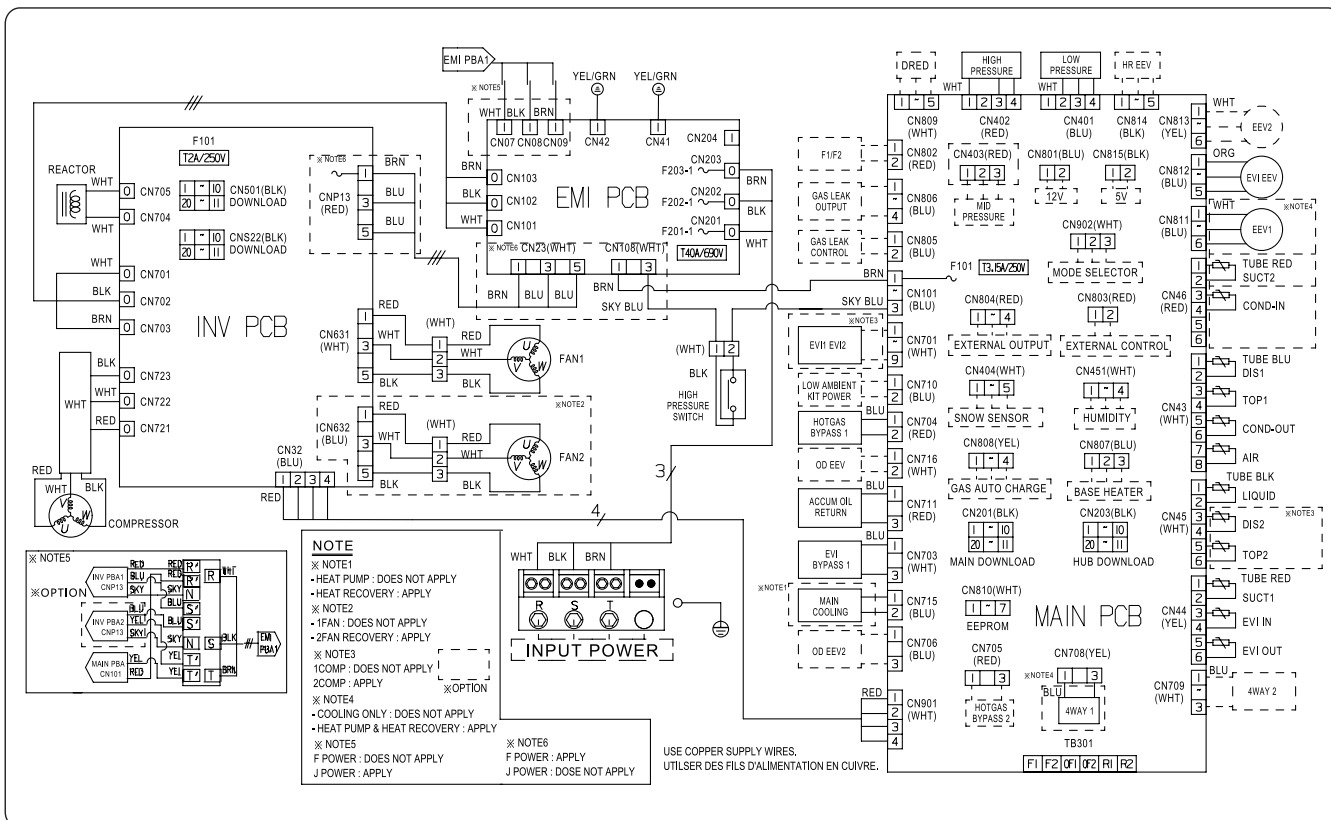


Model	A	B	C
AM300CXVAJH/AZ AM320CXVAJH/AZ AM340CXVAJH/AZ	350 [13 - 3/4]	1,130 [44 - 1/2]	688 [27 - 1/16]

6. Electrical Wiring Diagrams

Outdoor unit

AM080CXVAFH/AZ, AM080/100/120CXVAJH/AZ



INV PCB	Printed circuit board (inverter)	EVI-OUT(10K)	Thermistor (EVI-out_10kohm)	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
EMI PCB	Printed circuit board (emi)	EVI-IN(10K)	Thermistor (EVI-in_10kohm)	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
MAIN PCB	Printed circuit board (main)	SUCT1(10K)	Thermistor (Suction Temp.1_10Kohm)	ACCUM OIL RETURN V/V	Solenoid valve (Accumulator Oil Return)
COMPRESSOR	Motor (compressor)	SUCT2(10K)	Thermistor (Suction Temp.2_10Kohm)	4WAY1 V/V	Solenoid valve (4 Way valve1)
FAN1	Motor (fan1)	AIR(10K)	Thermistor (Ambient Temp._10Kohm)	MAIN COOLING	Solenoid valve (Main cooling)
EVI V/V1	Solenoid valve (EVI1)	COND(10K)	Thermistor (Cond Out Temp._10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
EVI V/V2	Solenoid valve (EVI2)	TOP1(200K)	Thermistor (Compressor Top 1_200Kohm)	F101	FUSE (INV PCB)
EVI EEV	Electronic expansion valve (EVI)	TOP2(200K)	Thermistor (Compressor Top 2_200Kohm)	690V/40A	FUSE (EMI PCB)
EEV1	Electronic expansion valve 1	DIS1(200K)	Thermistor (Discharge Temp.1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
EEV2	Electronic expansion valve 2	DIS2(200K)	Thermistor (Discharge Temp.2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
OD EEV V/V	Electronic expansion valve (Outdoor EEV)	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
SNOW SENSOR	SNOW SENSOR	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)		

NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- ⊕ Protective earth(screw), □ : connector, $\frac{N}{\text{wire}}$: The wire quantity

- ## Outdoor unit

Outdoor unit

NOTE

- ※ RESISTANCE VALUE AT 25°C(77°F)
- ※ NOTE1
- ※ HEAT PUMP: DOES NOT APPLY
- ※ HEAT RECOVERY: APPLY
- ※ NOTE2
- ※ COOLING ONLY: DOES NOT APPLY
- ※ HEAT PUMP & HEAT RECOVERY: APPLY
- ※ NOTE3
- ※ F-POWER: DOES NOT APPLY
- ※ J-POWER: APPLY
- ※ NOTE4
- ※ F-POWER: APPLY
- ※ J-POWER: DOES NOT APPLY

WIRING DIAGRAM

The diagram shows the following components and their connections:

- EMI PCBs:** EMI PCB 1 and EMI PCB 2, connected to the main power lines and ground.
- INV PCBs:** INV PCB 1 and INV PCB 2, connected to the compressors and fans.
- FAN PCB:** Connected to the fans (FAN 1, FAN 2).
- MAIN PCB:** The central control unit, connected to all other components.
- Compressors:** COMPRESSOR 1 and COMPRESSOR 2, connected to the INV PCBs.
- Fans:** FAN 1 and FAN 2, connected to the FAN PCB.
- Sensors:** Various sensors (e.g., CN101, CN102, CN103, CN104, CN105, CN106, CN107, CN108, CN109, CN110, CN111, CN112, CN113, CN114, CN115, CN116, CN117, CN118, CN119, CN120, CN121, CN122, CN123, CN124, CN125, CN126, CN127, CN128, CN129, CN130, CN131, CN132, CN133, CN134, CN135, CN136, CN137, CN138, CN139, CN140, CN141, CN142, CN143, CN144, CN145, CN146, CN147, CN148, CN149, CN150, CN151, CN152, CN153, CN154, CN155, CN156, CN157, CN158, CN159, CN160, CN161, CN162, CN163, CN164, CN165, CN166, CN167, CN168, CN169, CN170, CN171, CN172, CN173, CN174, CN175, CN176, CN177, CN178, CN179, CN180, CN181, CN182, CN183, CN184, CN185, CN186, CN187, CN188, CN189, CN190, CN191, CN192, CN193, CN194, CN195, CN196, CN197, CN198, CN199, CN200, CN201, CN202, CN203, CN204, CN205, CN206, CN207, CN208, CN209, CN210, CN211, CN212, CN213, CN214, CN215, CN216, CN217, CN218, CN219, CN220, CN221, CN222, CN223, CN224, CN225, CN226, CN227, CN228, CN229, CN230, CN231, CN232, CN233, CN234, CN235, CN236, CN237, CN238, CN239, CN240, CN241, CN242, CN243, CN244, CN245, CN246, CN247, CN248, CN249, CN250, CN251, CN252, CN253, CN254, CN255, CN256, CN257, CN258, CN259, CN260, CN261, CN262, CN263, CN264, CN265, CN266, CN267, CN268, CN269, CN270, CN271, CN272, CN273, CN274, CN275, CN276, CN277, CN278, CN279, CN280, CN281, CN282, CN283, CN284, CN285, CN286, CN287, CN288, CN289, CN290, CN291, CN292, CN293, CN294, CN295, CN296, CN297, CN298, CN299, CN300, CN301, CN302, CN303, CN304, CN305, CN306, CN307, CN308, CN309, CN310, CN311, CN312, CN313, CN314, CN315, CN316, CN317, CN318, CN319, CN320, CN321, CN322, CN323, CN324, CN325, CN326, CN327, CN328, CN329, CN330, CN331, CN332, CN333, CN334, CN335, CN336, CN337, CN338, CN339, CN340, CN341, CN342, CN343, CN344, CN345, CN346, CN347, CN348, CN349, CN350, CN351, CN352, CN353, CN354, CN355, CN356, CN357, CN358, CN359, CN360, CN361, CN362, CN363, CN364, CN365, CN366, CN367, CN368, CN369, CN370, CN371, CN372, CN373, CN374, CN375, CN376, CN377, CN378, CN379, CN380, CN381, CN382, CN383, CN384, CN385, CN386, CN387, CN388, CN389, CN390, CN391, CN392, CN393, CN394, CN395, CN396, CN397, CN398, CN399, CN400, CN401, CN402, CN403, CN404, CN405, CN406, CN407, CN408, CN409, CN410, CN411, CN412, CN413, CN414, CN415, CN416, CN417, CN418, CN419, CN420, CN421, CN422, CN423, CN424, CN425, CN426, CN427, CN428, CN429, CN430, CN431, CN432, CN433, CN434, CN435, CN436, CN437, CN438, CN439, CN440, CN441, CN442, CN443, CN444, CN445, CN446, CN447, CN448, CN449, CN450, CN451, CN452, CN453, CN454, CN455, CN456, CN457, CN458, CN459, CN460, CN461, CN462, CN463, CN464, CN465, CN466, CN467, CN468, CN469, CN470, CN471, CN472, CN473, CN474, CN475, CN476, CN477, CN478, CN479, CN480, CN481, CN482, CN483, CN484, CN485, CN486, CN487, CN488, CN489, CN490, CN491, CN492, CN493, CN494, CN495, CN496, CN497, CN498, CN499, CN500, CN501, CN502, CN503, CN504, CN505, CN506, CN507, CN508, CN509, CN510, CN511, CN512, CN513, CN514, CN515, CN516, CN517, CN518, CN519, CN520, CN521, CN522, CN523, CN524, CN525, CN526, CN527, CN528, CN529, CN530, CN531, CN532, CN533, CN534, CN535, CN536, CN537, CN538, CN539, CN540, CN541, CN542, CN543, CN544, CN545, CN546, CN547, CN548, CN549, CN550, CN551, CN552, CN553, CN554, CN555, CN556, CN557, CN558, CN559, CN560, CN561, CN562, CN563, CN564, CN565, CN566, CN567, CN568, CN569, CN570, CN571, CN572, CN573, CN574, CN575, CN576, CN577, CN578, CN579, CN580, CN581, CN582, CN583, CN584, CN585, CN586, CN587, CN588, CN589, CN590, CN591, CN592, CN593, CN594, CN595, CN596, CN597, CN598, CN599, CN600, CN601, CN602, CN603, CN604, CN605, CN606, CN607, CN608, CN609, CN610, CN611, CN612, CN613, CN614, CN615, CN616, CN617, CN618, CN619, CN620, CN621, CN622, CN623, CN624, CN625, CN626, CN627, CN628, CN629, CN630, CN631, CN632, CN633, CN634, CN635, CN636, CN637, CN638, CN639, CN640, CN641, CN642, CN643, CN644, CN645, CN646, CN647, CN648, CN649, CN650, CN651, CN652, CN653, CN654, CN655, CN656, CN657, CN658, CN659, CN660, CN661, CN662, CN663, CN664, CN665, CN666, CN667, CN668, CN669, CN670, CN671, CN672, CN673, CN674, CN675, CN676, CN677, CN678, CN679, CN680, CN681, CN682, CN683, CN684, CN685, CN686, CN687, CN688, CN689, CN690, CN691, CN692, CN693, CN694, CN695, CN696, CN697, CN698, CN699, CN700, CN701, CN702, CN703, CN704, CN705, CN706, CN707, CN708, CN709, CN710, CN711, CN712, CN713, CN714, CN715, CN716, CN717, CN718, CN719, CN720, CN721, CN722, CN723, CN724, CN725, CN726, CN727, CN728, CN729, CN730, CN731, CN732, CN733, CN734, CN735, CN736, CN737, CN738, CN739, CN740, CN741, CN742, CN743, CN744, CN745, CN746, CN747, CN748, CN749, CN750, CN751, CN752, CN753, CN754, CN755, CN756, CN757, CN758, CN759, CN760, CN761, CN762, CN763, CN764, CN765, CN766, CN767, CN768, CN769, CN770, CN771, CN772, CN773, CN774, CN775, CN776, CN777, CN778, CN779, CN780, CN781, CN782, CN783, CN784, CN785, CN786, CN787, CN788, CN789, CN790, CN791, CN792, CN793, CN794, CN795, CN796, CN797, CN798, CN799, CN800, CN801, CN802, CN803, CN804, CN805, CN806, CN807, CN808, CN809, CN810, CN811, CN812, CN813, CN814, CN815, CN816, CN81

 **NOTE**

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
-  Protective earth(screw),  : connector,  : The wire quantity

Outdoor unit

YEL/GRN ① CN41 ③ CN204 ①
YEL/GRN ① CN42 ③ CN108(WHT) F202-1 ①
① CN103 ③ CN203 ①
① CN102 ③ CN202 ①
① CN101 ③ CN201 ①

EMI PCB2

BRN ① CN103 ③ CN203 ①
BLK ① CN102 ③ CN202 ①
WHT ① CN101 ③ CN201 ①

EMI PCB1

BRN ① CN103 ③ CN203 ①
BLK ① CN102 ③ CN202 ①
WHT ① CN101 ③ CN201 ①

INV PCB2

BRN ① CN103 ③ CN203 ①
BLK ① CN102 ③ CN202 ①
WHT ① CN101 ③ CN201 ①

FAN PCB

BRN ① CN103 ③ CN203 ①
BLK ① CN102 ③ CN202 ①
WHT ① CN101 ③ CN201 ①

MAIN PCB

BRN ① CN103 ③ CN203 ①
BLK ① CN102 ③ CN202 ①
WHT ① CN101 ③ CN201 ①

INPUT POWER

USE COPPER SUPPLY WIRES, UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

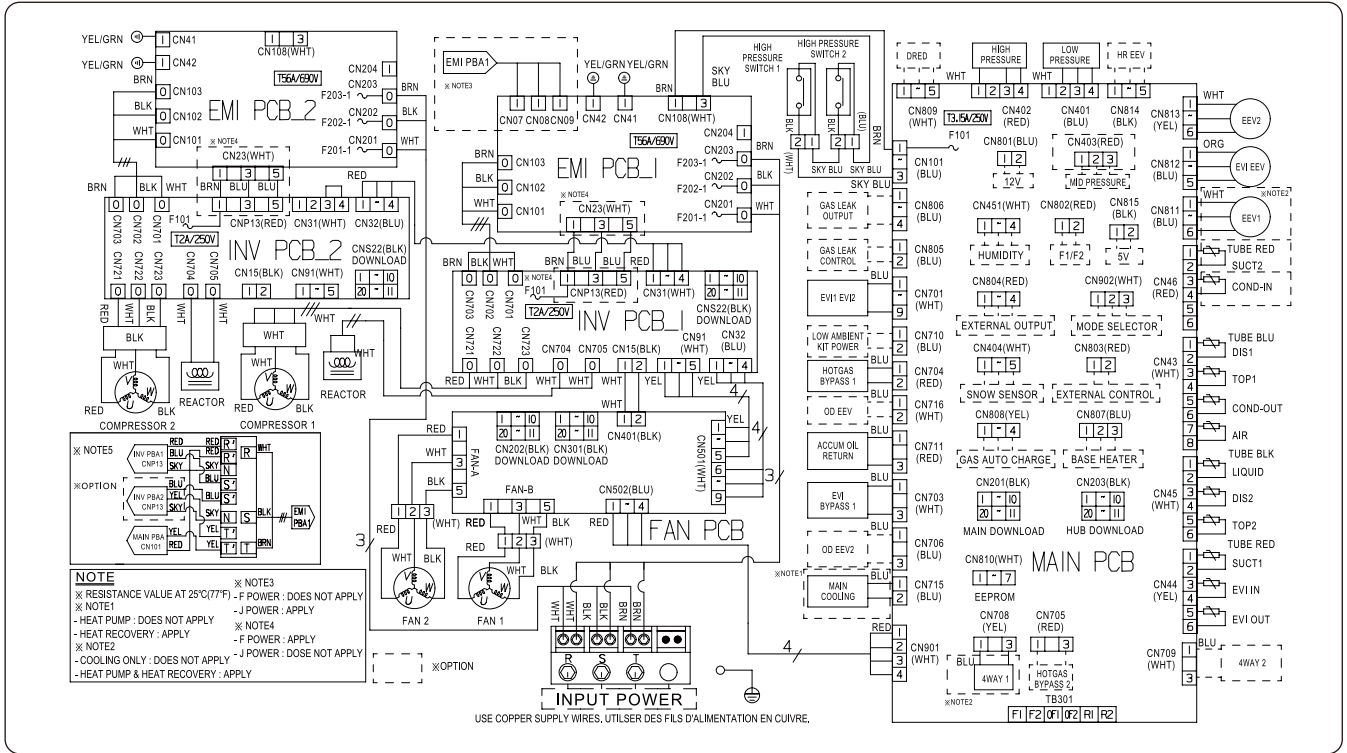
INV PCB1	Printed circuit board (inverter1)	EEV1	Electronic expansion valve 1	HOTGAS1 BYPASS V/V	Solenoid valve (Hot Gas Bypass1)
INV PCB2	Printed circuit board (inverter1)	EEV2	Electronic expansion valve 2	EVI BYPASS1 V/V	Solenoid valve (EVI BYPASS)
EMI PCB1	Printed circuit board (inverter2)	EVI-OUT(10K)	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)	MAIN COOLING	Solenoid valve (Main cooling)
FAN PCB	Printed circuit board (fan motor)	SUCT1(10K)	Thermistor (Suction Temp.2_10Kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Cond In Temp._10Kohm)	OD EEV V/V	Electronic expansion valve (Outdoor EEV)
COMPRESSOR1	Motor (compressor1)	COND IN(10K)	Thermistor (Ambient Temp._10Kohm)	F101	FUSE (INV PCB)
COMPRESSOR2	Motor (compressor2)	AIR(10K)	Thermistor (Cond Out Temp._10Kohm)	690V/56A	FUSE (EMI PCB)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Compressor Top 1_200Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
EVI V/V1	Solenoid valve (EVI1)	TOP2(200K)	Thermistor (Discharge Temp.1_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI V/V2	Solenoid valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.2_200Kohm)		
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Liquid Tube Temp._10Kohm)		
SNOW SENSOR	SNOW SENSOR	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)		

- 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

AM300/320/340CXVAJH/AZ



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 (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)	MAIN COOLING	Solenoid valve (Main cooling)
FAN PCB	Printed circuit board (emi2)	SUCT1(10K)	Thermistor (Suction Temp.1_10kohm)	HOTGAS2 BYPASS V/V	Solenoid valve (Hot Gas Bypass2)
FAN PCB	Printed circuit board (fan motor)	SUCT2(10K)	Thermistor (Suction Temp.2_10kohm)	OD EVV V/V	Electronic expansion valve (Outdoor EEV)
MAIN PCB	Printed circuit board (main)	SUCT2(10K)	Thermistor (Cond In Temp._10kohm)	F101	FUSE (INV PCB)
COMPRESSOR1	Motor (compressor1)	COND IN(10K)	Thermistor (Ambient Temp._10kohm)	690V/56A	FUSE (EMI PCB)
COMPRESSOR2	Motor (compressor2)	AIR(10K)	Thermistor (Cond Out Temp._10Kohm)	MODE SELECTOR	Connector (Remote switching cool/heat selector)
FAN1	Motor (fan1)	COND(10K)	Thermistor (Compressor Top 1_200Kohm)	EXTERNAL CONTROL	Connector (Output EXTERNAL CONTROL)
FAN2	Motor (fan2)	TOP1(200K)	Thermistor (Compressor Top 2_200Kohm)	EXTERNAL OUTPUT	Connector (Output EXTERNAL)
EVI V/V1	Solenoid valve (EVI1)	TOP2(200K)	Thermistor (Discharge Temp.1_200Kohm)		
EVI V/V2	Solenoid valve (EVI2)	DIS1(200K)	Thermistor (Discharge Temp.2_200Kohm)		
EVI EEV	Electronic expansion valve (EVI)	DIS2(200K)	Thermistor (Liquid Tube Temp._10Kohm)		
SNOW SENSOR	SNOW SENSOR	LIQUID(10K)	Thermistor (Liquid Tube Temp._10Kohm)		

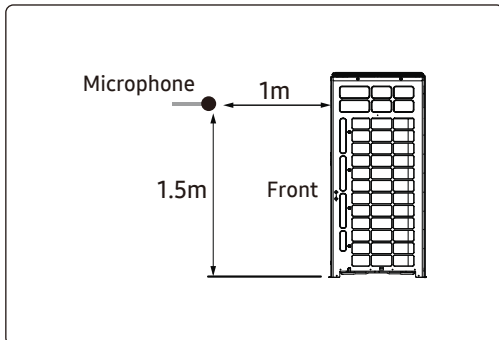
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK: black, RED: red, BLU: blue, WHT: white, YEL: yellow, BRN: brown, SKY: skyblue
- When operating, don't shortcircuit the protection device (High Pressure switch)
- For connection wiring indoor-outdoor transmission F1-F2, outdoor_outdoor transmission OF1-OF2, refer to the installation manual.
- ⊕: Protective earth(screw), □: connector, $\overline{\text{---}}$: The wire quantity

7. Sound Data

Sound Pressure level

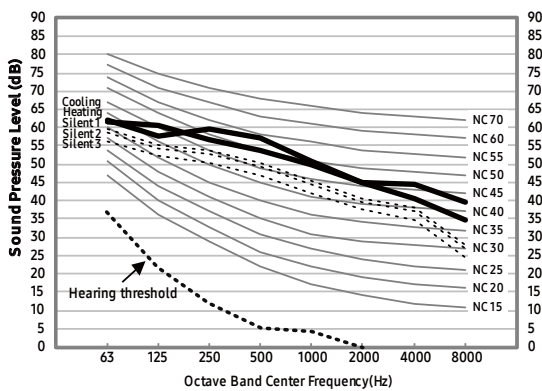
Unit: dB(A)



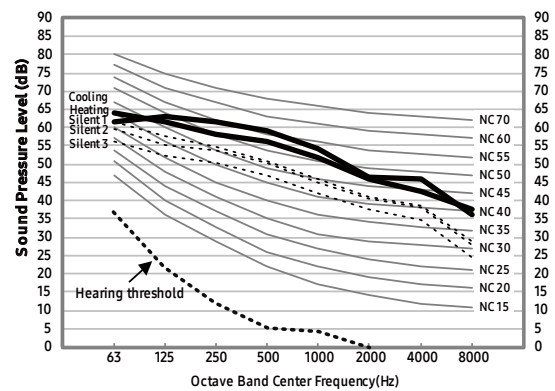
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM080CXVAFH/AZ	56	52	51	49	58
AM100CXVAFH/AZ	58	53	52	49	61
AM120CXVAFH/AZ	62	59	53	49	63
AM140CXVAFH/AZ	59.5	56	53	49	62

• NC Curve

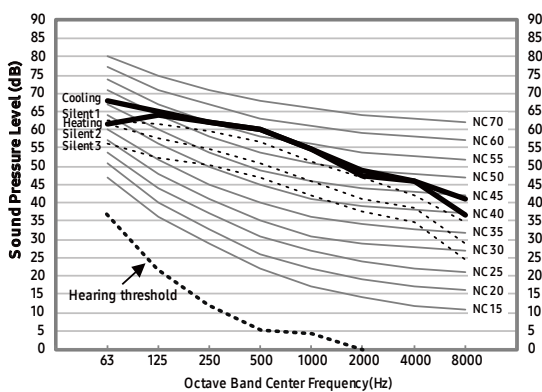
1) AM080CXVAFH/AZ



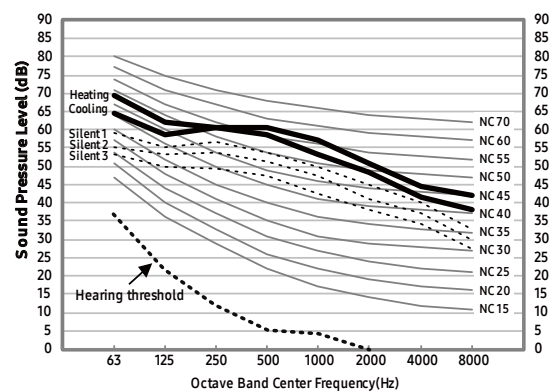
2) AM100CXVAFH/AZ



3) AM120CXVAFH/AZ



4) AM140CXVAFH/AZ

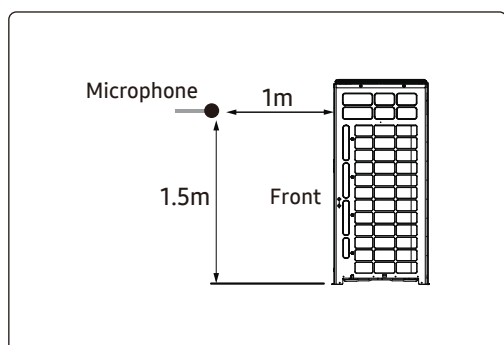


NOTE

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

7. Sound Data

Sound Pressure level

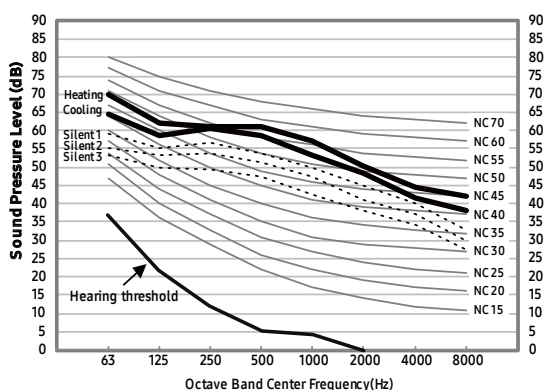


Unit: dB(A)

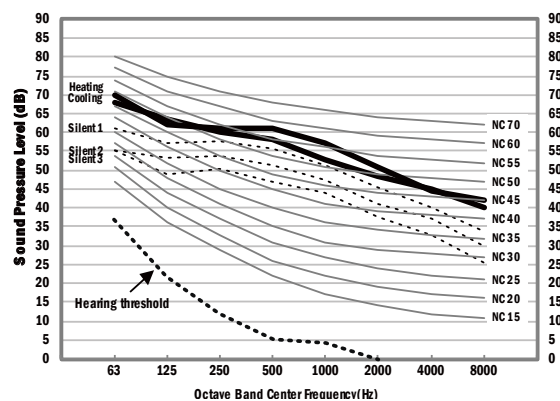
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM160CXVAFH/AZ	59.5	56	53	49	62
AM180CXVAFH/AZ	59.5	57	54	49	62
AM200CXVAFH/AZ	60	57	54	49	63
AM220CXVAFH/AZ	62	59	55	49	65

• NC Curve

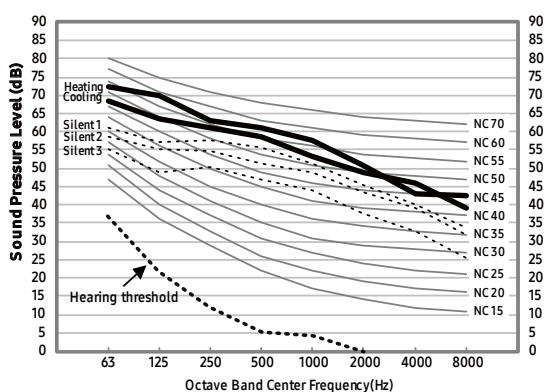
1) AM160CXVAFH/AZ



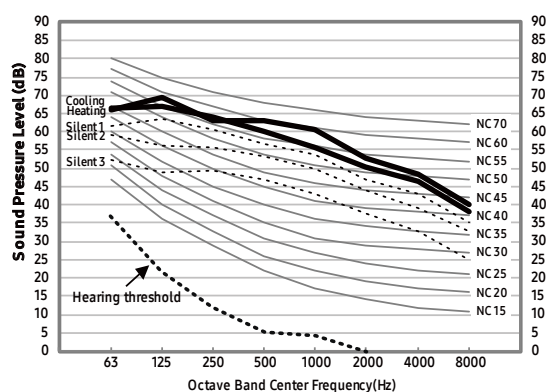
2) AM180CXVAFH/AZ



3) AM200CXVAFH/AZ



4) AM220CXVAFH/AZ



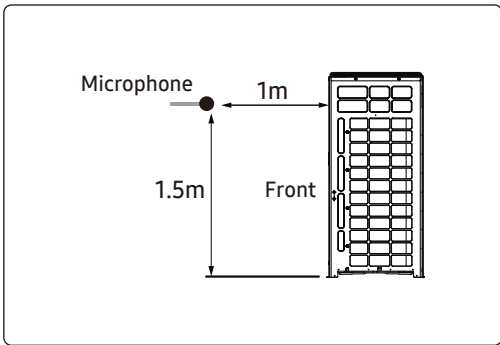
NOTE

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

7. Sound Data

Sound Pressure level

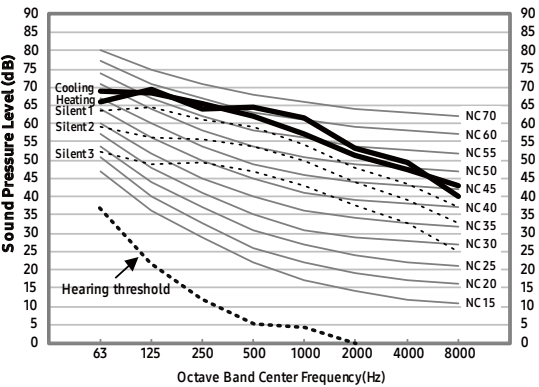
Unit: dB(A)



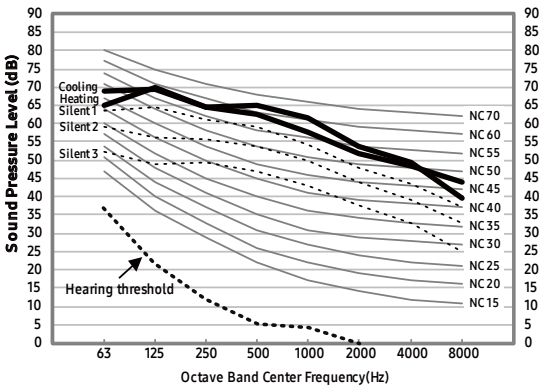
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM240CXVAFH/AZ	65	61	56	49	66
AM260CXVAFH/AZ	65	61	56	49	67

- NC Curve

1) AM240CXVAFH/AZ



2) AM260CXVAFH/AZ



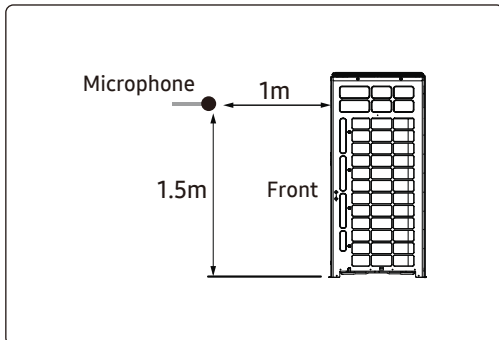
NOTE

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

7. Sound Data

Sound Pressure level

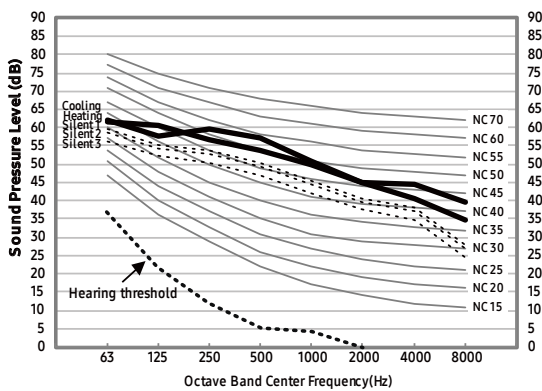
Unit: dB(A)



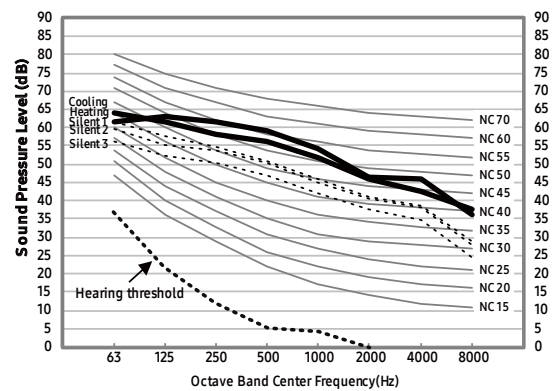
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM080CXVAJH/AZ	56	52	51	49	58
AM100CXVAJH/AZ	58	53	52	49	61
AM120CXVAJH/AZ	62	59	53	49	63
AM140CXVAJH/AZ	59.5	56	53	49	62

• NC Curve

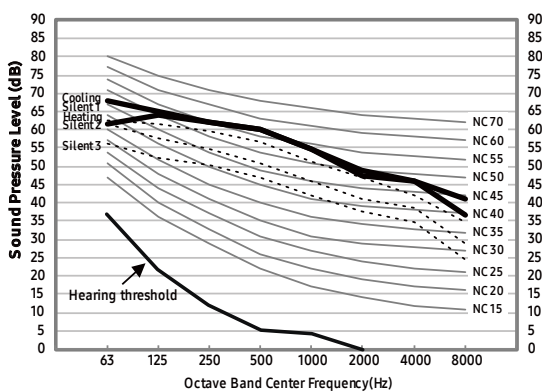
1) AM080CXVAJH/AZ



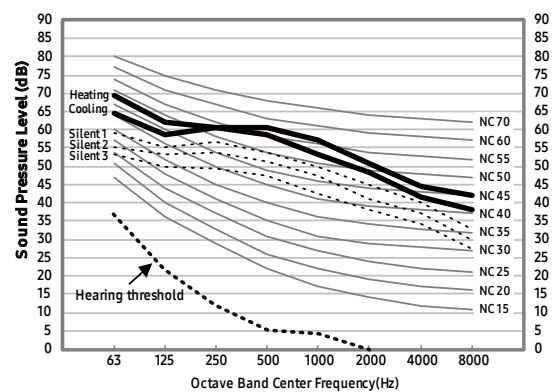
2) AM100CXVAJH/AZ



3) AM120CXVAJH/AZ



4) AM140CXVAJH/AZ

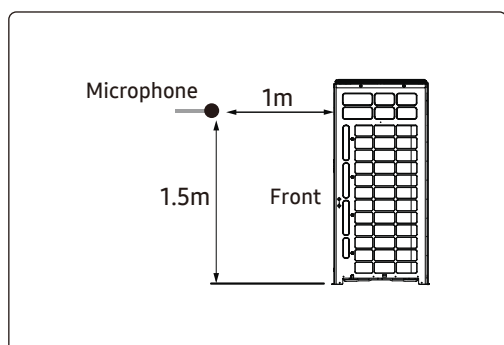


NOTE

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

7. Sound Data

Sound Pressure level

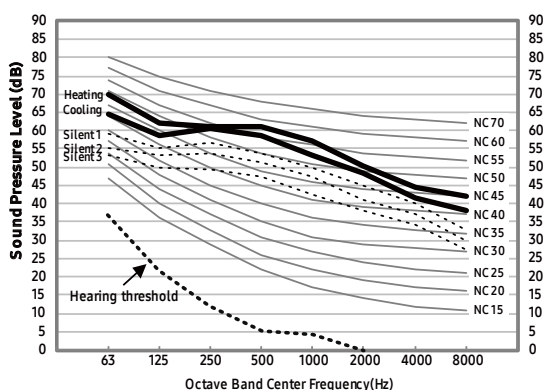


Unit: dB(A)

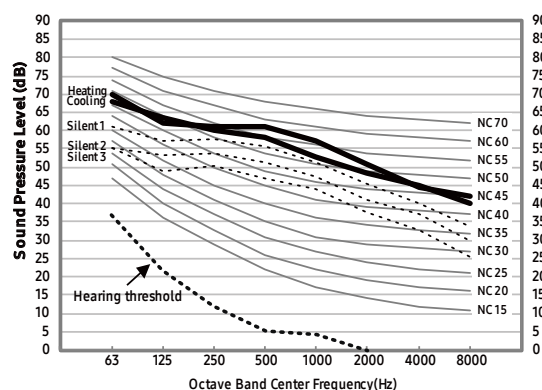
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM160CXVAJH/AZ	59.5	56	53	49	62
AM180CXVAJH/AZ	59.5	57	54	49	62
AM200CXVAJH/AZ	60	57	54	49	63
AM220CXVAJH/AZ	62	59	55	49	65

• NC Curve

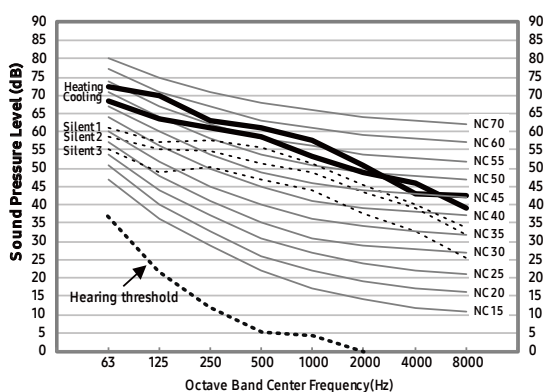
1) AM160CXVAJH/AZ



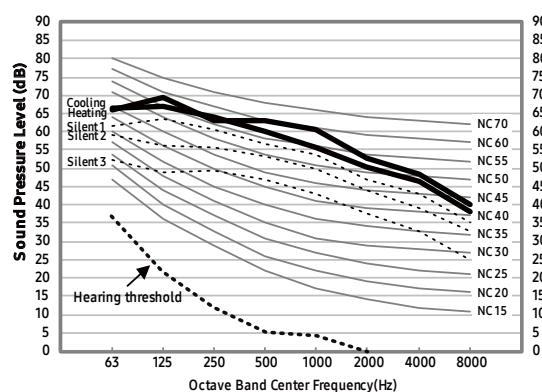
2) AM180CXVAJH/AZ



3) AM200CXVAJH/AZ



4) AM220CXVAJH/AZ



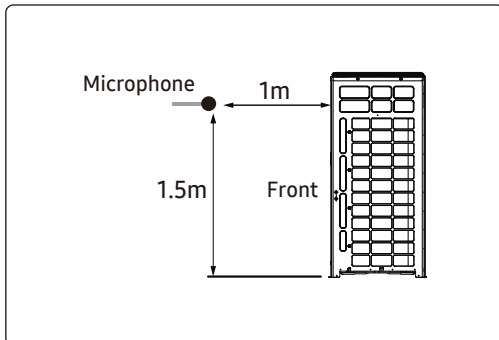
NOTE

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

7. Sound Data

Sound Pressure level

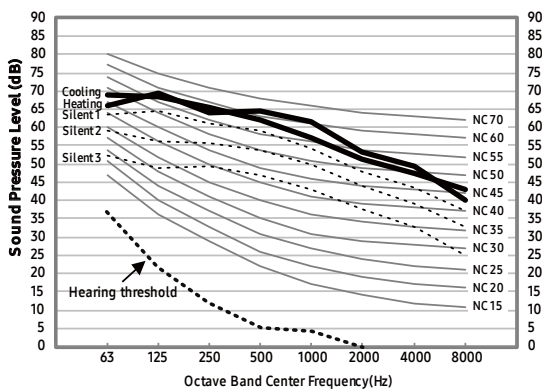
Unit: dB(A)



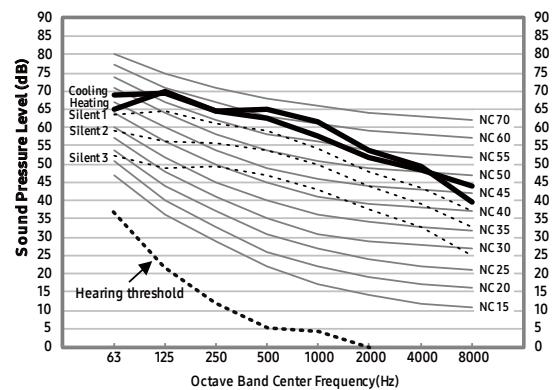
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM240CXVAFH/AZ	65	61	56	49	66
AM260CXVAFH/AZ	65	61	56	49	67
AM280CXVAJH/AZ	65	61	56	49	67
AM300CXVAJH/AZ	65	61	56	49	68

• NC Curve

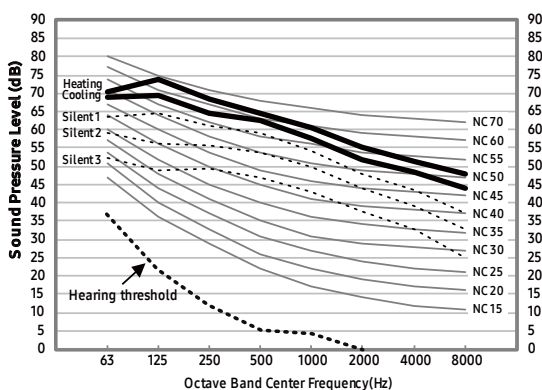
1) AM240CXVAJH/AZ



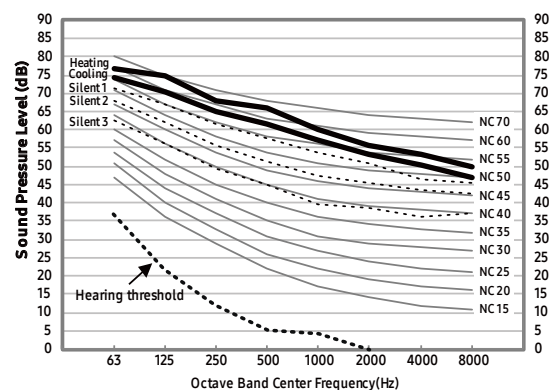
2) AM260CXVAJH/AZ



3) AM280CXVAJH/AZ



4) AM300CXVAJH/AZ

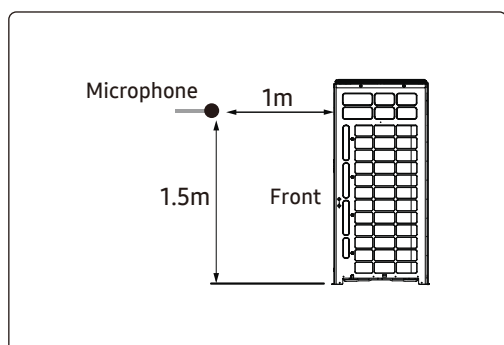


NOTE

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

7. Sound Data

Sound Pressure level

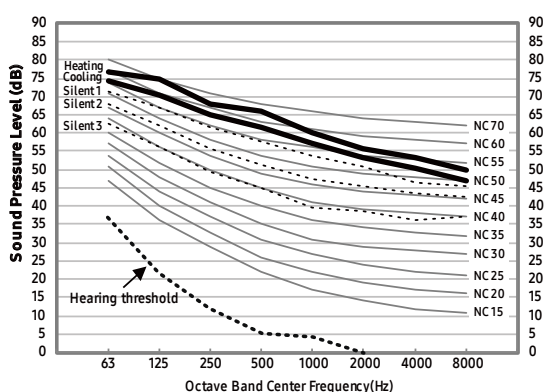


Unit: dB(A)

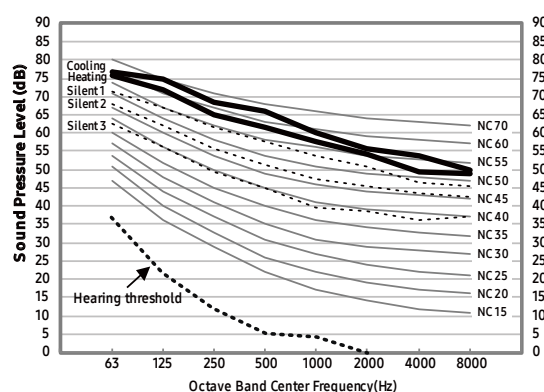
Model	Cooling	Silent1	Silent 2	Silent 3	Heating
AM320CXVAJH/AZ	65	61	56	49	68
AM340CXVAJH/AZ	65	61	56	49	68

• NC Curve

1) AM320CXVAJH/AZ



2) AM340CXVAJH/AZ



NOTE

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

7. Sound Data

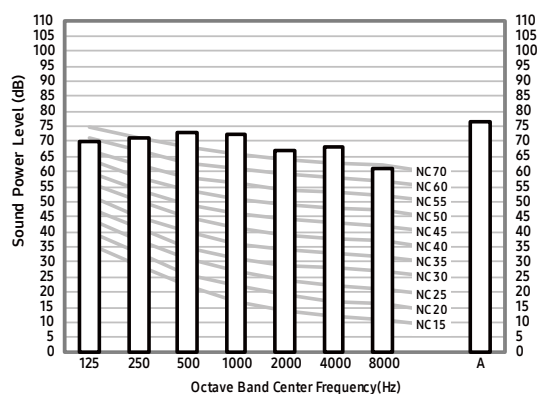
Sound Power level

Unit: dB(A)

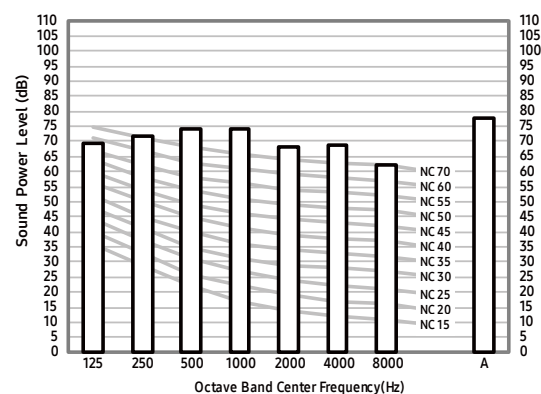
Model	Power
AM080CXVAFH/AZ	77
AM100CXVAFH/AZ	78
AM120CXVAFH/AZ	81
AM140CXVAFH/AZ	82

• NC Curve

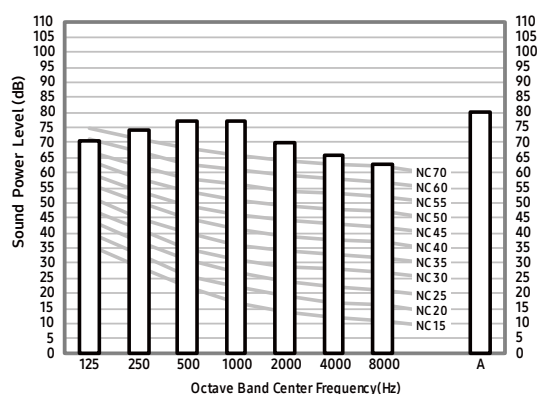
1) AM080CXVAFH/AZ



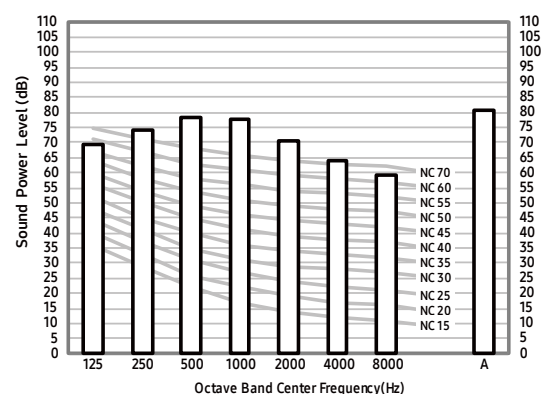
2) AM100CXVAFH/AZ



3) AM120CXVAFH/AZ



4) AM140CXVAFH/AZ



NOTE

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

7. Sound Data

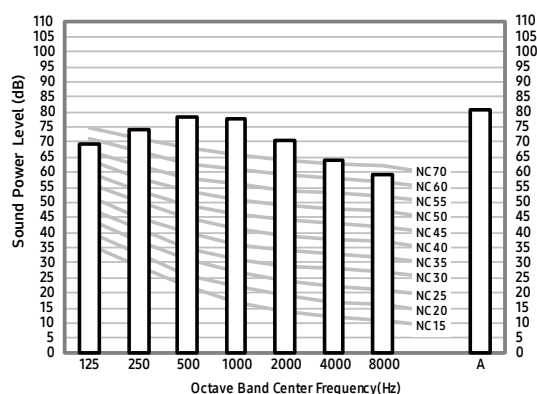
Sound Power level

Unit: dB(A)

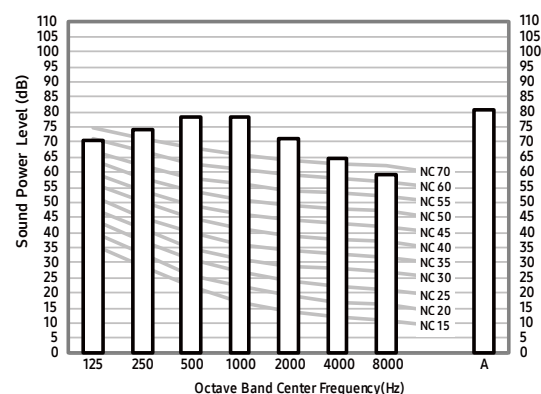
Model	Power
AM160CXVAFH/AZ	82
AM180CXVAFH/AZ	82
AM200CXVAFH/AZ	83
AM220CXVAFH/AZ	86

• NC Curve

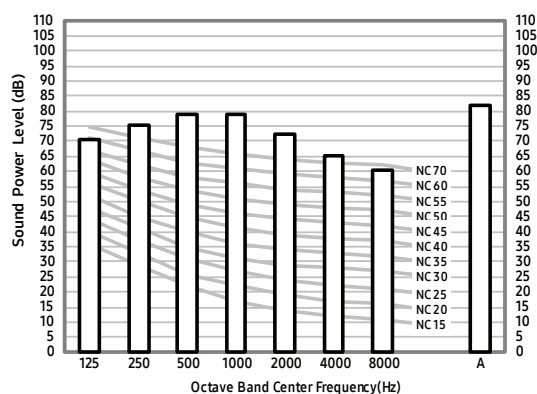
1) AM160CXVAFH/AZ



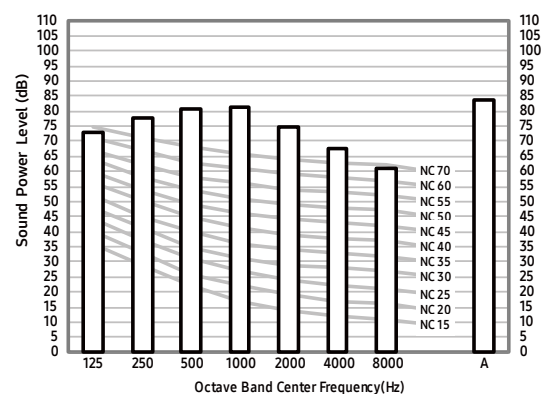
2) AM180CXVAFH/AZ



3) AM200CXVAFH/AZ



4) AM220CXVAFH/AZ



NOTE

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

7. Sound Data

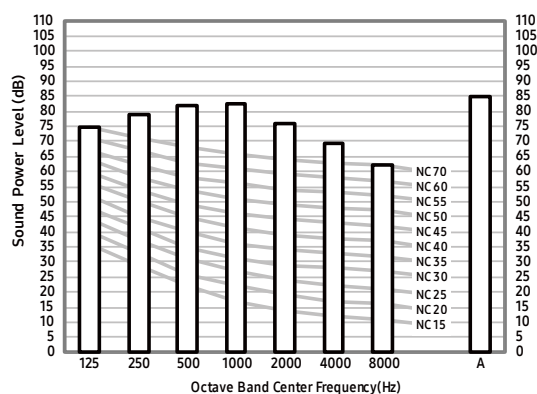
Sound Power level

Unit: dB(A)

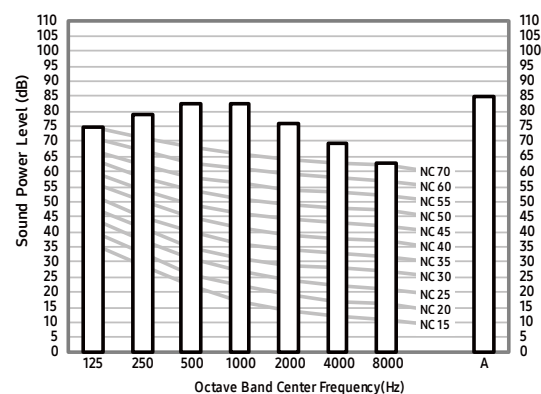
Model	Power
AM240CXVAFH/AZ	87
AM260CXVAFH/AZ	87

- NC Curve

1) AM240CXVAFH/AZ



2) AM260CXVAFH/AZ



NOTE

- 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.

7. Sound Data

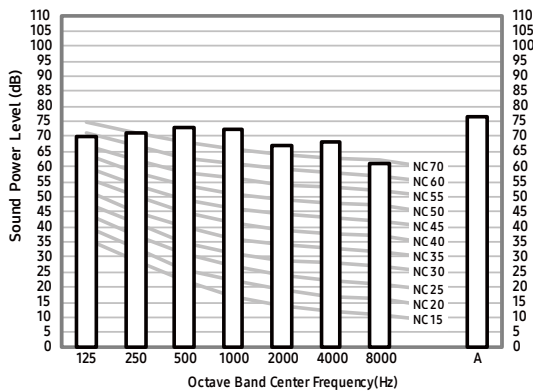
Sound Power level

Unit: dB(A)

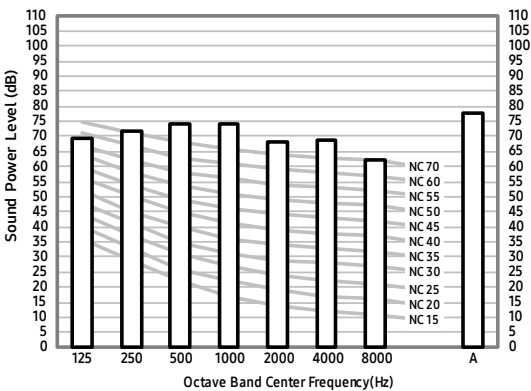
Model	Power
AM080CXVAJH/AZ	77
AM100CXVAJH/AZ	78
AM120CXVAJH/AZ	81
AM140CXVAJH/AZ	82

- NC Curve

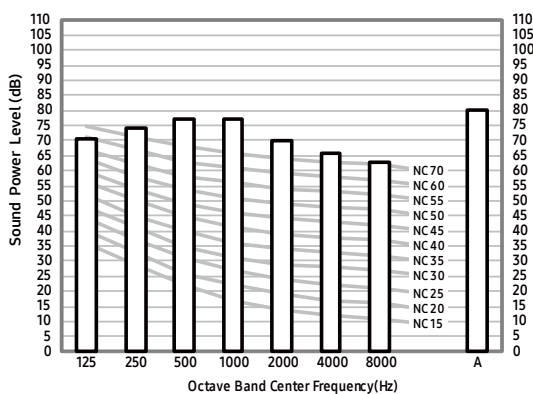
1) AM080CXVAJH/AZ



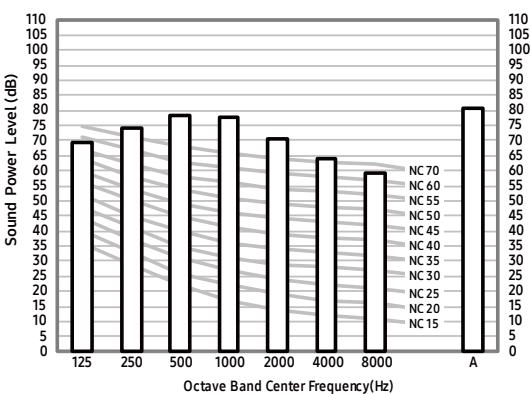
2) AM100CXVAJH/AZ



3) AM120CXVAJH/AZ



4) AM140CXVAJH/AZ



NOTE

- 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.

7. Sound Data

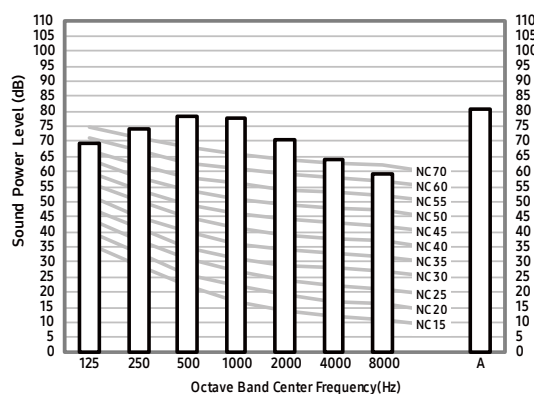
Sound Power level

Unit: dB(A)

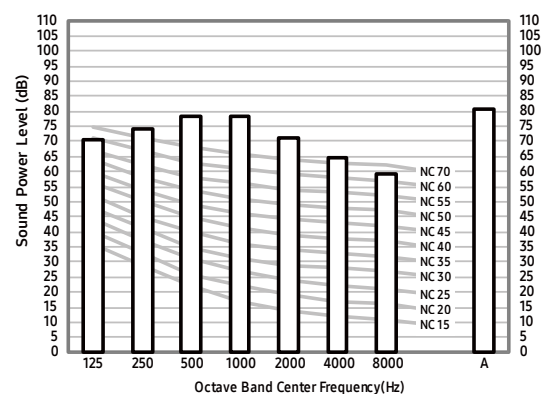
Model	Power
AM160CXVAJH/AZ	82
AM180CXVAJH/AZ	82
AM200CXVAJH/AZ	83
AM220CXVAJH/AZ	86

• NC Curve

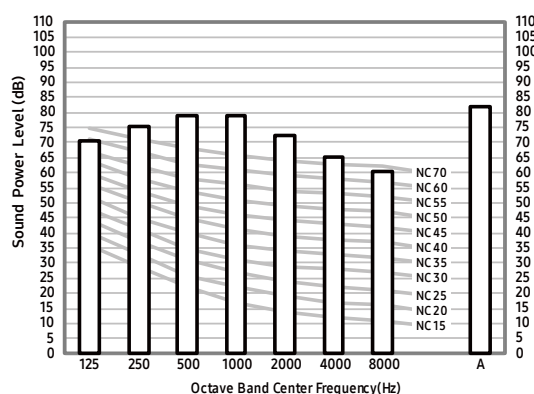
1) AM160CXVAJH/AZ



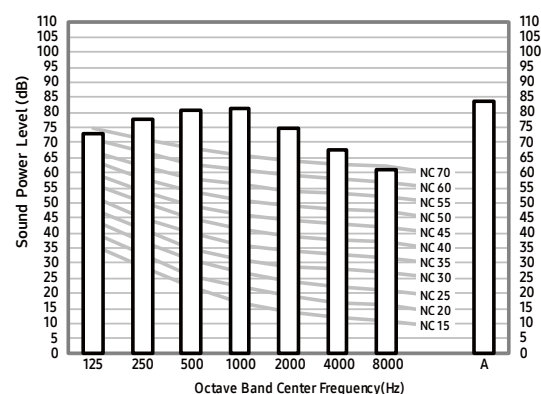
2) AM180CXVAJH/AZ



3) AM200CXVAJH/AZ



4) AM220CXVAJH/AZ



NOTE

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

7. Sound Data

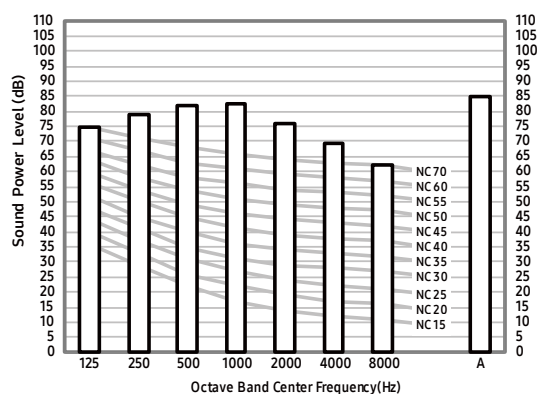
Sound Power level

Unit: dB(A)

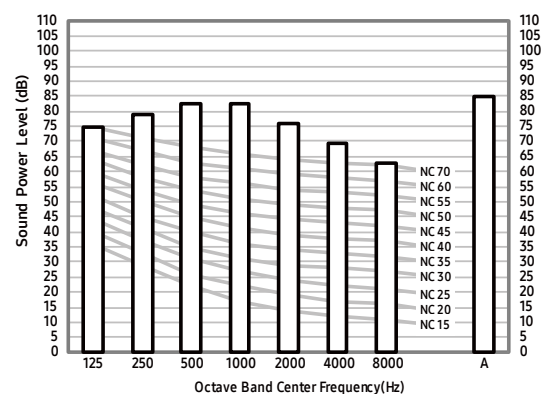
Model	Power
AM240CXVAJH/AZ	87
AM260CXVAJH/AZ	87
AM280CXVAJH/AZ	87
AM300CXVAJH/AZ	87

• NC Curve

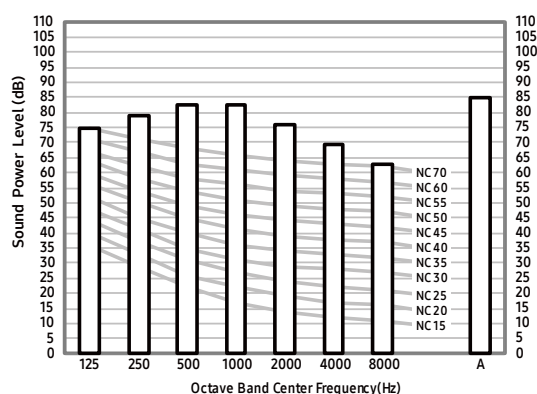
1) AM240CXVAJH/AZ



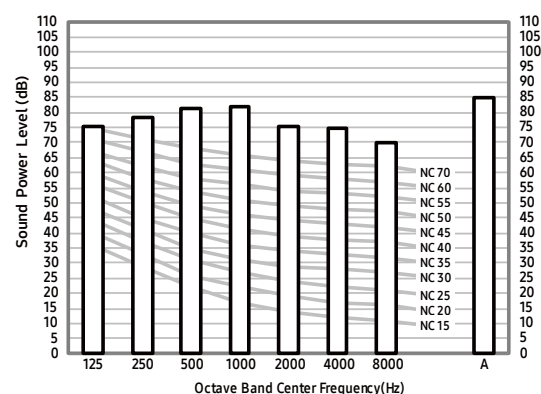
2) AM260CXVAJH/AZ



3) AM280CXVAJH/AZ



4) AM300CXVAJH/AZ



NOTE

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

7. Sound Data

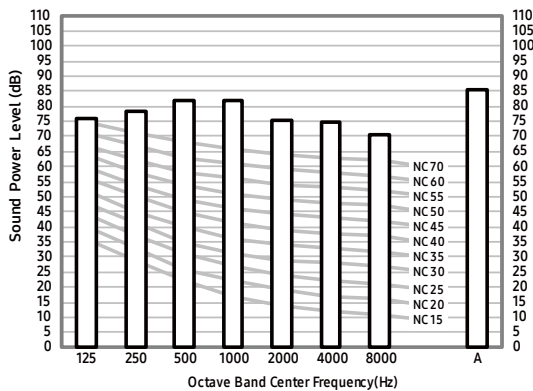
Sound Power level

Unit: dB(A)

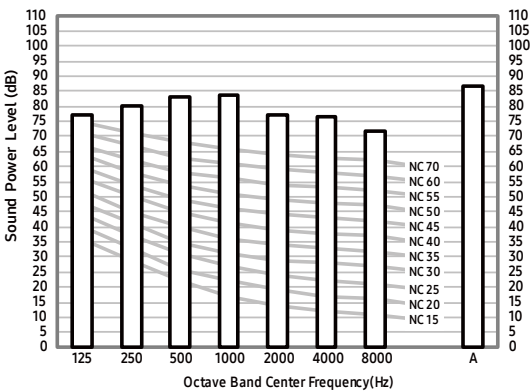
Model	Power
AM320CXVAJH/AZ	87
AM340CXVAJH/AZ	87

- NC Curve

1) AM320CXVAJH/AZ



2) AM340CXVAJH/AZ

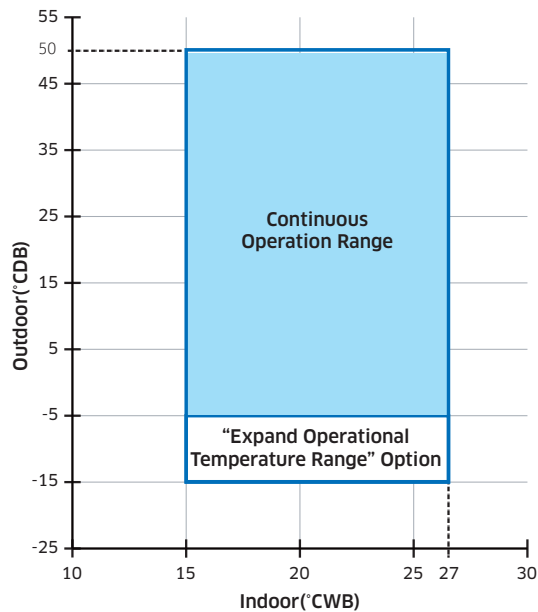


NOTE

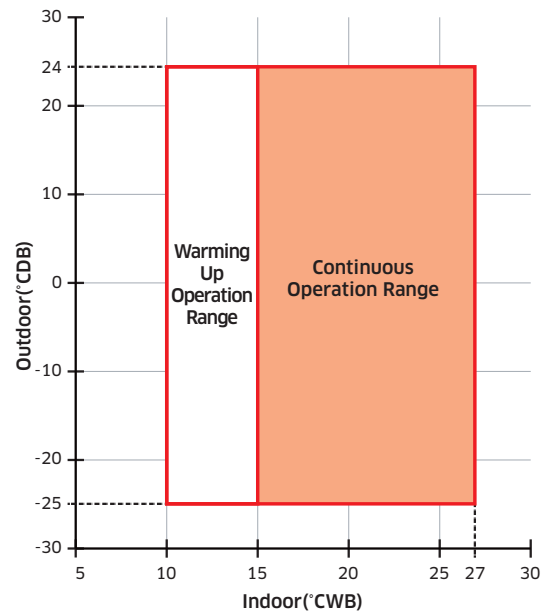
- Specifications may be subject to change without prior notice.
 - Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level.
 - Reference power : 1pW.
 - Measured according to ISO 3741.

8. Operation Range

Cooling



Heating



- (1) The operating range is shown in these figures
- (2) The assumed installation conditions are as follows
 - Outdoor units and indoor units combination
 - The Pipe length(including elbow) is 5m
 - 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 continuous operating is impossible due to a protection control

8. Operation Range

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 :

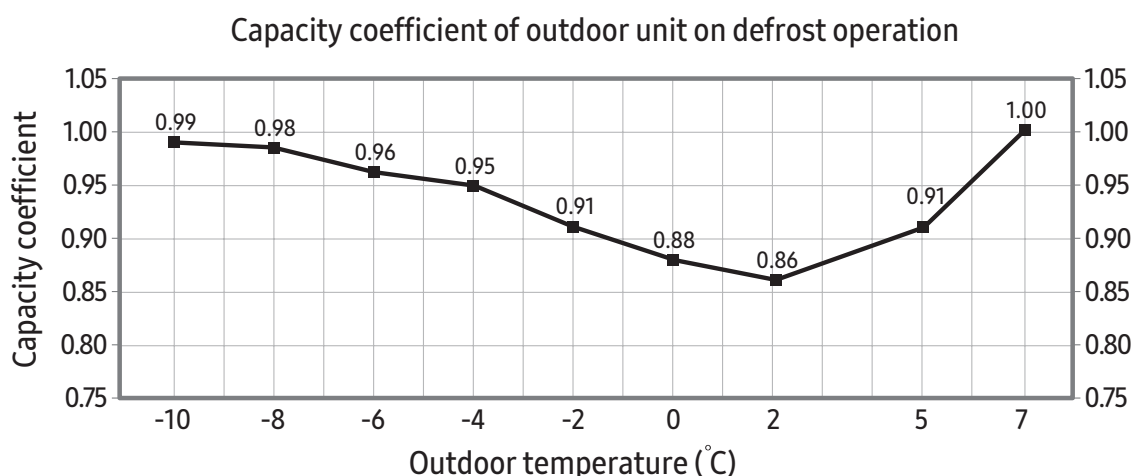
Formula : $A = B \times C$

Integrated heating capacity = A

Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

Outdoor temperature (°C, DB/WB)	-10/-10.4	-8/-8.5	-6/-6.5	-4/-4.6	-2/-2.7	0/-0.7	2/1.2	5/4.1	7/6
Capacity coefficient	0.99	0.98	0.96	0.95	0.91	0.88	0.86	0.91	1.00



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 or less.

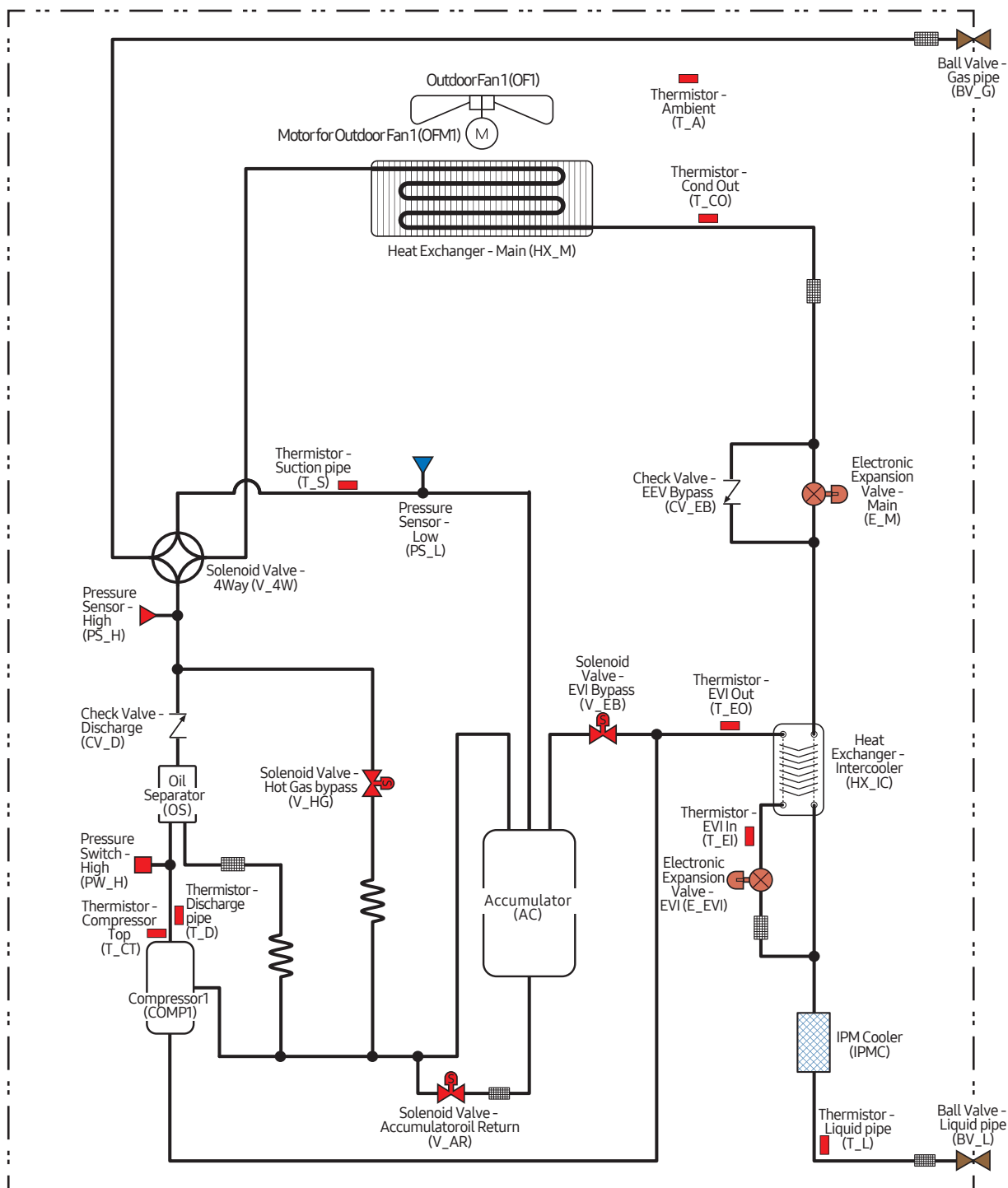
Since the outdoor temperature over 0 °C, the heating performance is the same before and after applying intelligence defrost operation

In outdoor conditions below 0 °C, frost conditions reflect the actual entering the defrost operation because heating performance is improved

9. Piping Diagram

Outdoor unit

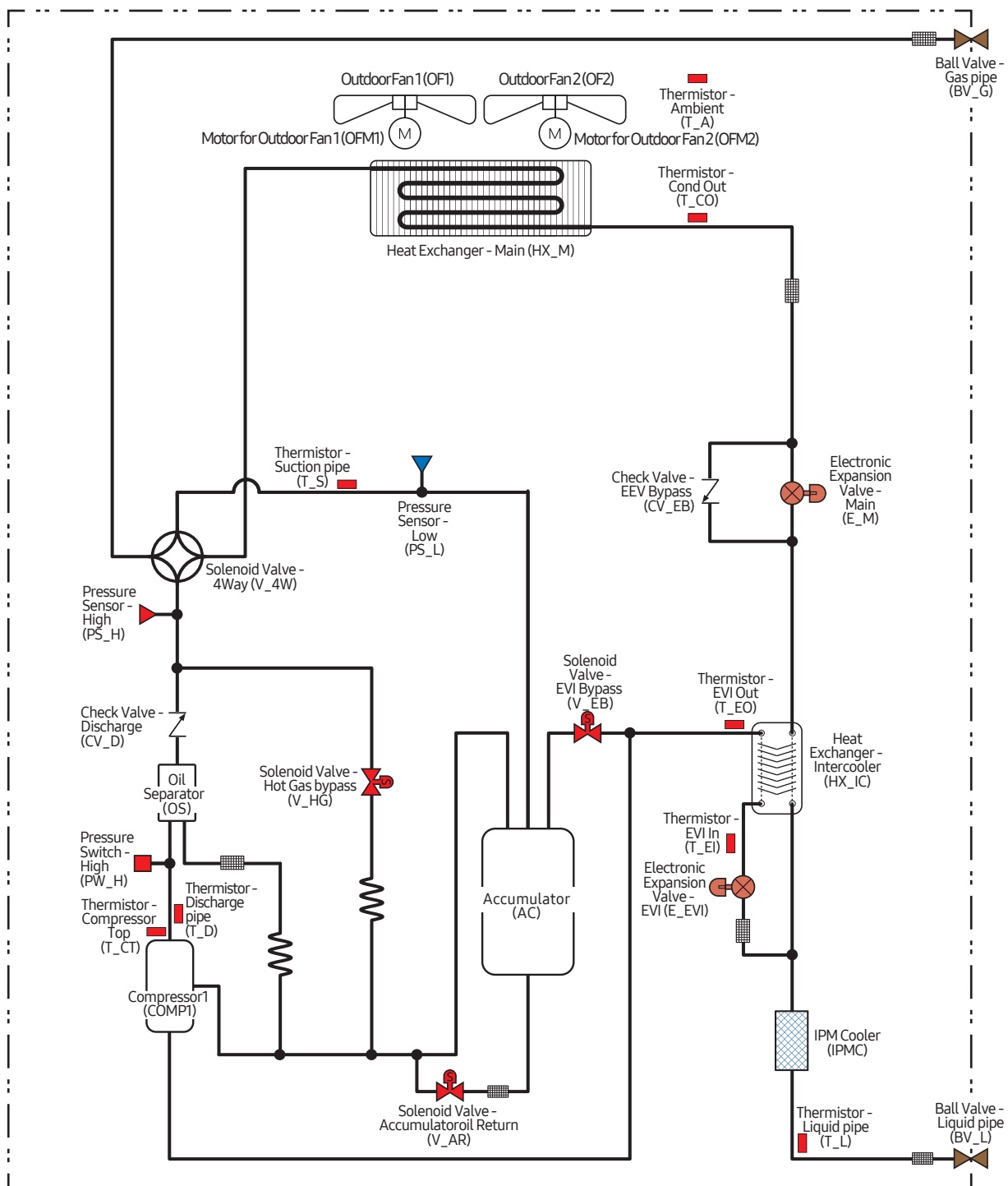
(1) AM080~120AXVAFH/AZ, AM080~120AXVAJH/AZ



9. Piping Diagram

Outdoor unit

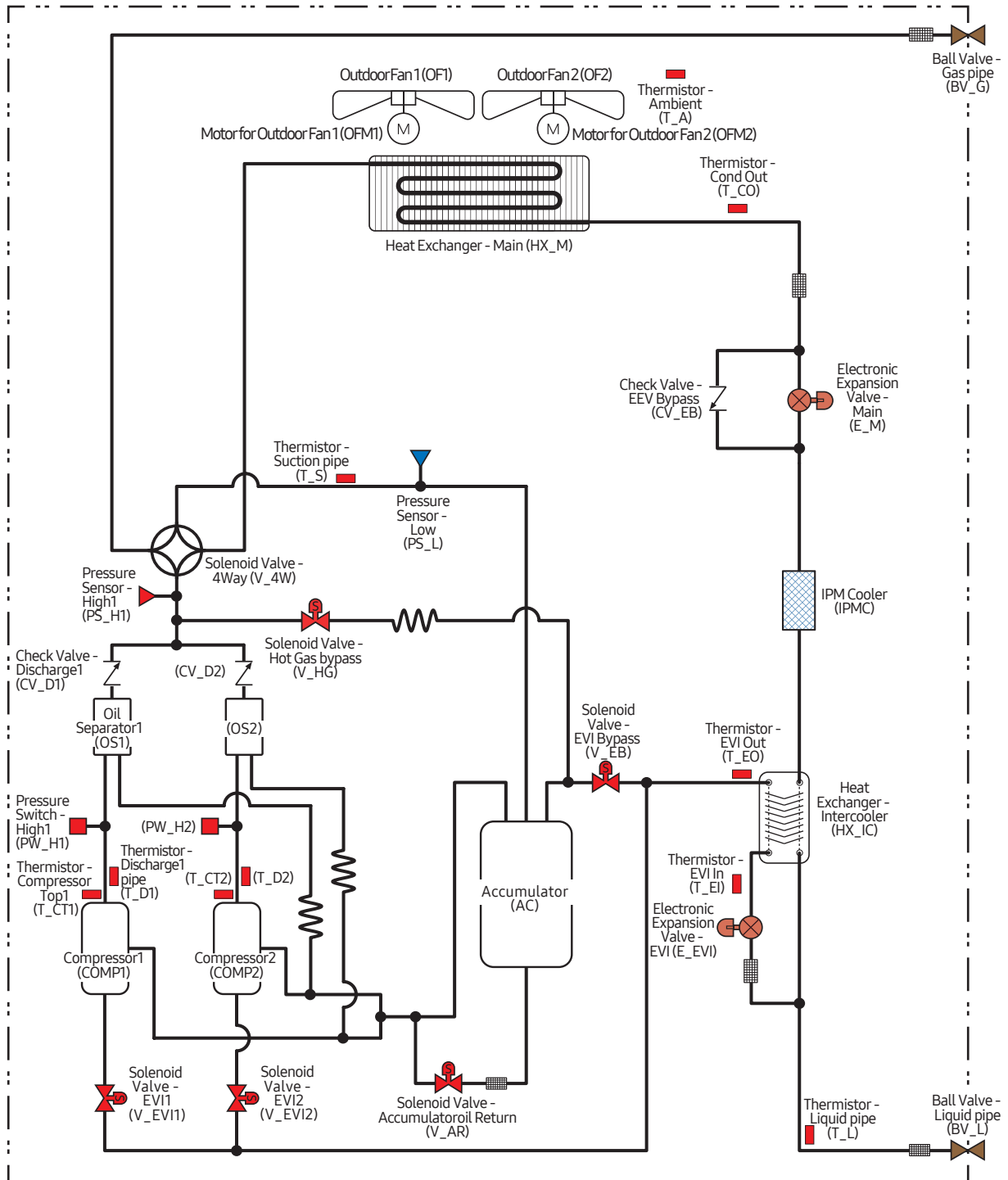
(2) AM140~160AXVAJH/AZ



9. Piping Diagram

Outdoor unit

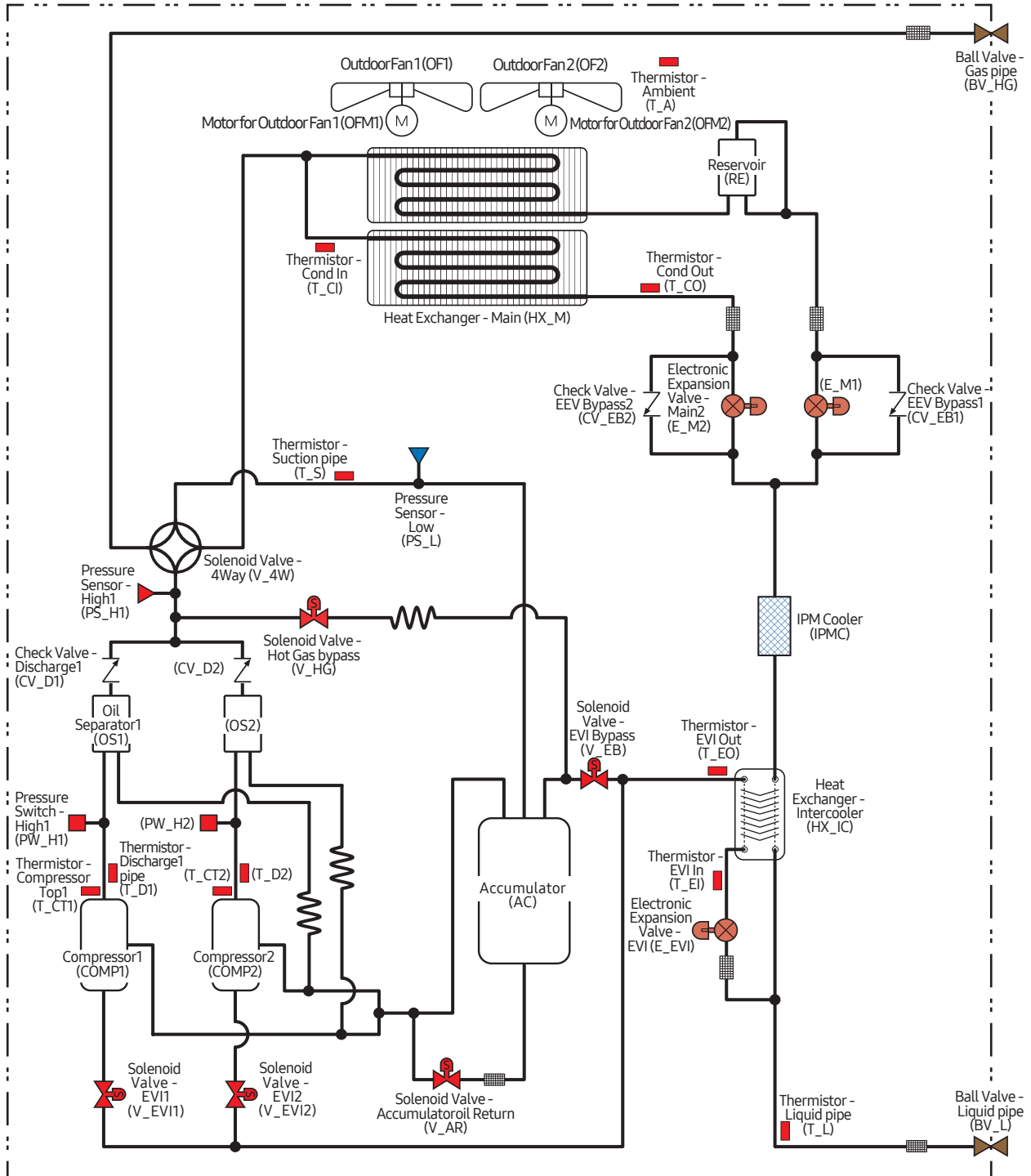
(3) AM140~220AXVAFH/AZ, AM180~220AXVAJH/AZ



9. Piping Diagram

Outdoor unit

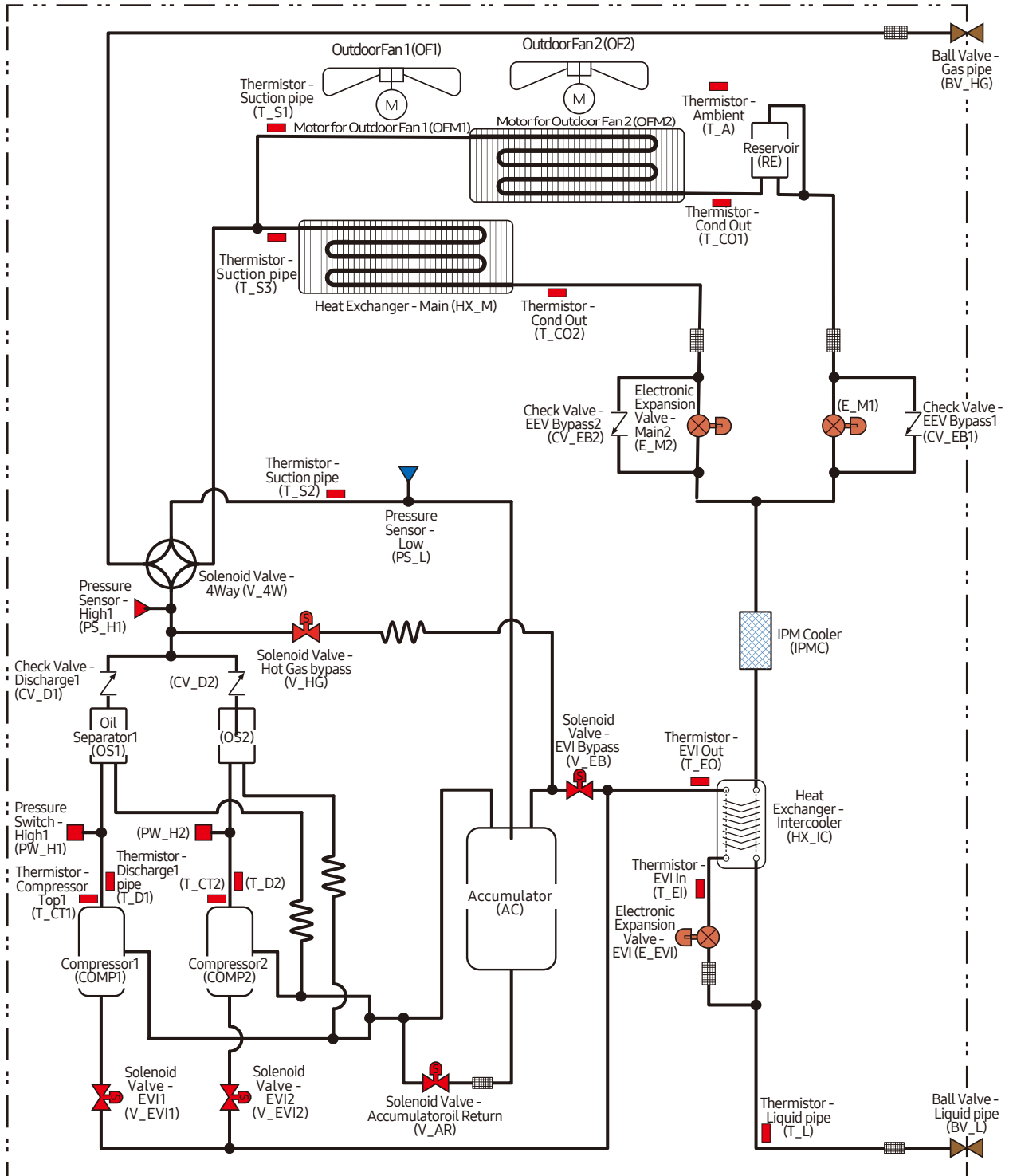
(4) AM240~260AXVAFH/AZ, AM240~280AXVAJH/AZ



9. Piping Diagram

Outdoor unit

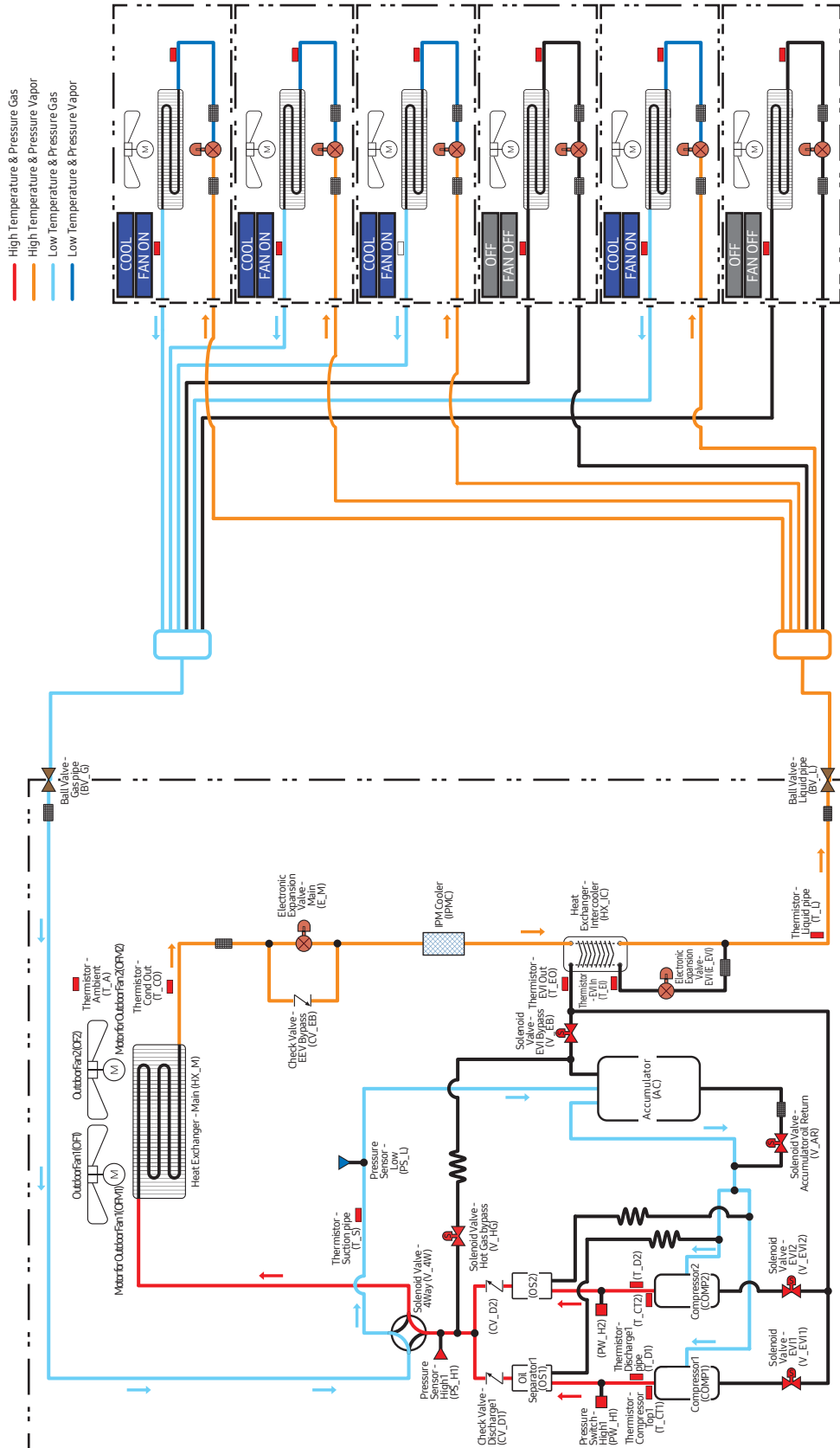
(5) AM300~340AXVAJH/AZ



9. Piping Diagram

Cooling System

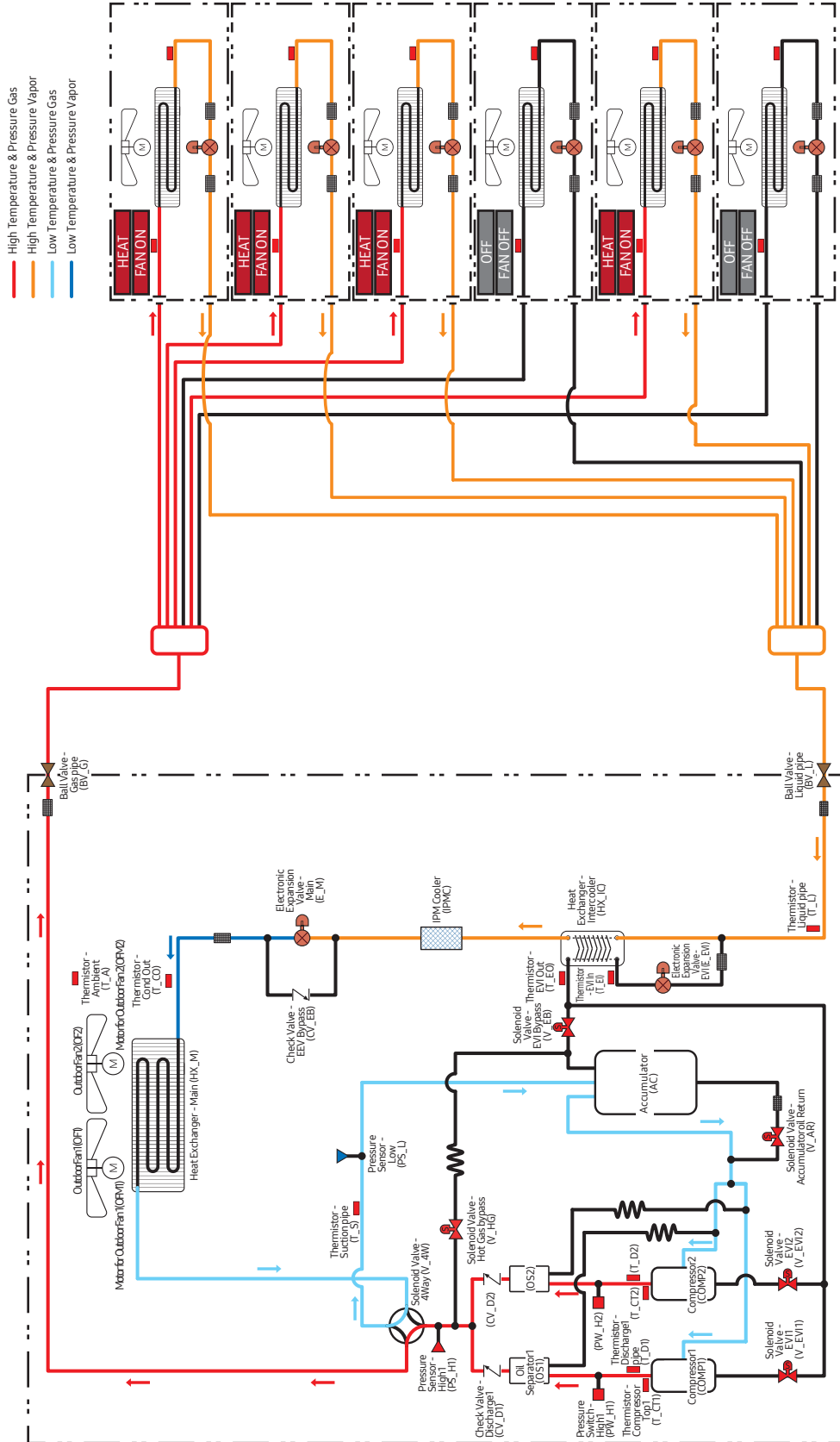
- 22HP with indoor units



9. Piping Diagram

Heating System

- 22HP with indoor units



10. Installation

Choosing the installation location

Outdoor unit location requirements

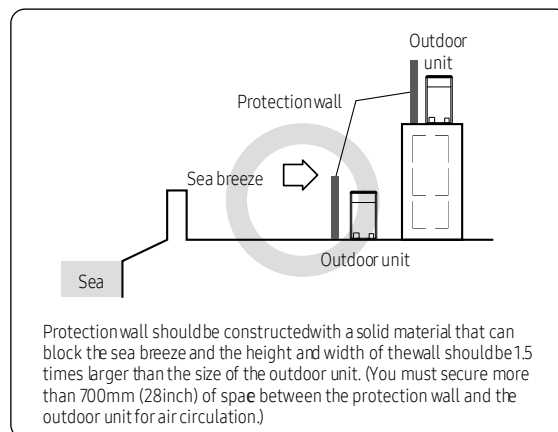
Decide the installation location, with the consideration of the following conditions, under user's approval.

- 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 sea breeze.
 - Even when it is inevitable to install the product in seashore, make sure that product is not directly



- 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

10. Installation

Choosing the installation location

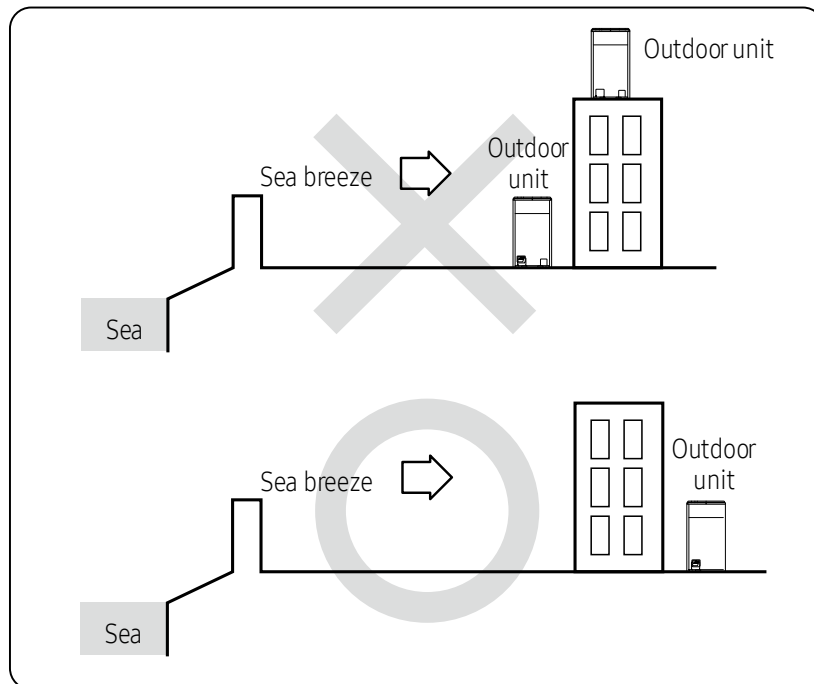
7 Check the condition of the product periodically.

- Check the installation site every 3 months and perform anticorrosion treatment 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 anticorrosion treatment 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.



⚠ 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.

10. Installation

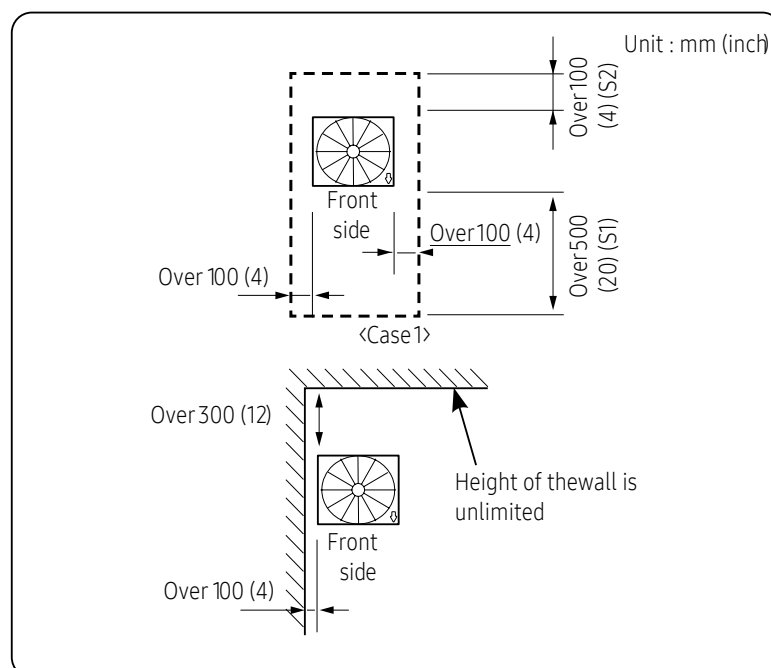
Choosing the installation location

- 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 installation specialty 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 may 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.

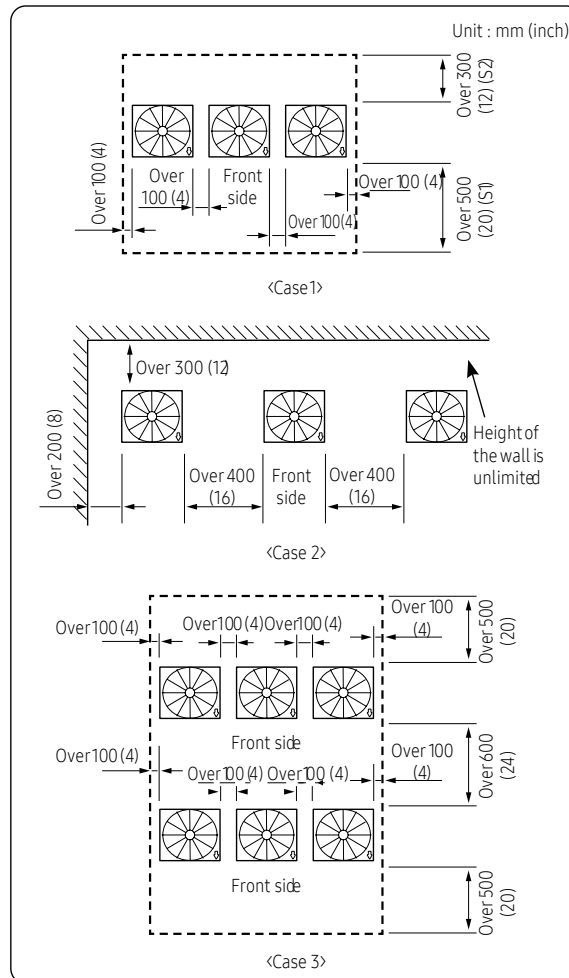
Single installation



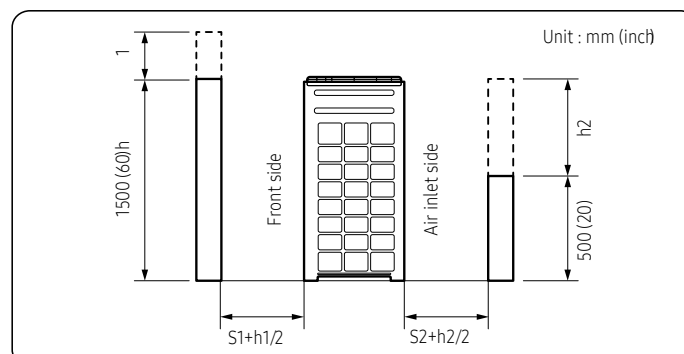
10. Installation

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 (h_1 , h_2), additional clearance $[(h_1)/2, (h_2)/2]$: Half of the exceeded height] should be added to the service space (S_1 , S_2).



10. Installation

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.

Installation manual (1)	Packing socket (1)
	

※ 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	
		MBH	kW
Y-Joint	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
	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	Specification	
		MBH	kW
Y-Joint (Only H/R)	MXJ-YA1500M	76 and below	22.4 and below
	MXJ-YA2500M	77~240	22.5 ~70.3
	MXJ-YA3100M	241~461	70.4 ~135.2
	MXJ-YA3800M	Over 461	Over 135.2
Distribution header	MXJ-HA2512M	154 and below (for 4 rooms)	45.0 and below (for 4 rooms)
	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 - Outdoor unit	MXJ-TA3819M	461 and below	135.2 and below
	MXJ-TA4422M	Over 461	Over 135.2
Y-Joint (Only H/R) - Outdoor unit	MXJ-TA3100M	461 and below	135.2 and below
	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.

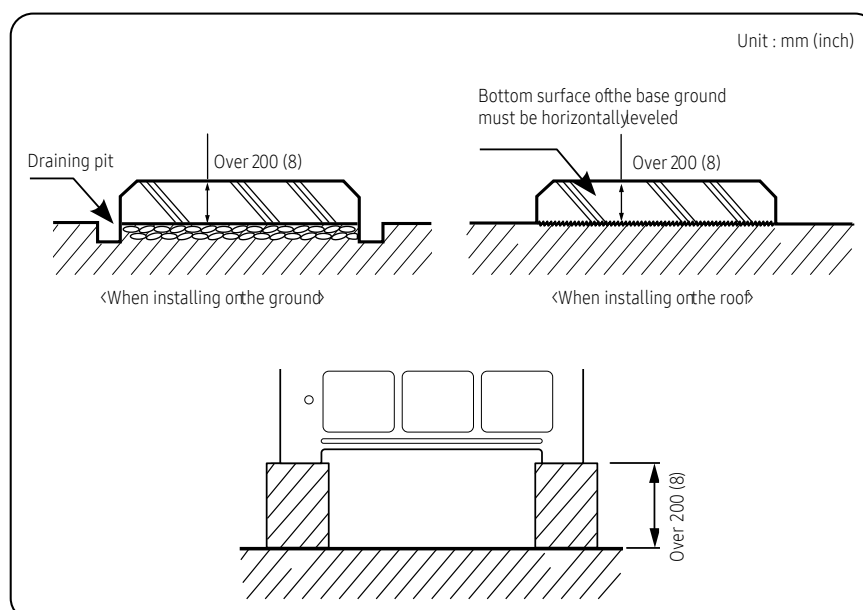
10. Installation

Outdoor unit installation

WARNING

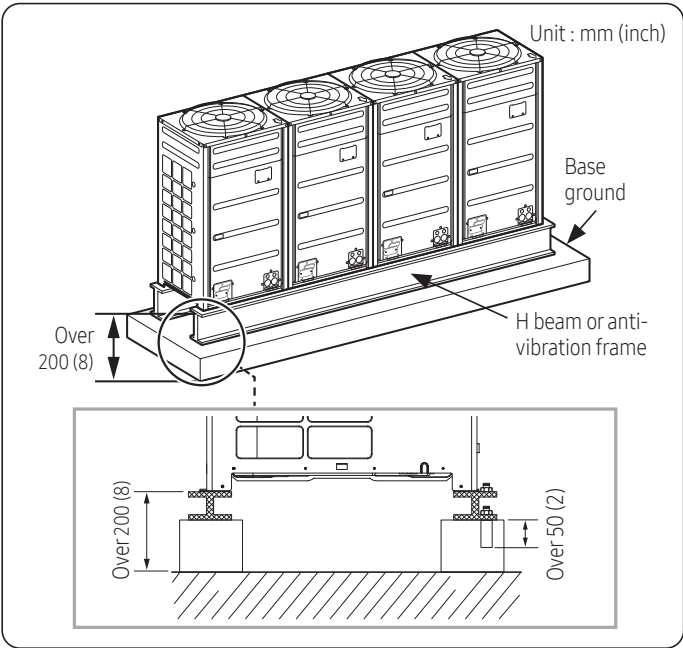
- Make sure to remove the wooden pallet before installing the outdoor unit. If you do not remove the wooden pallet, there is risk of fire during welding the pipes. If the outdoor unit is installed with wooden pallet on, and it was used for long period time, wooden palette may break and cause electrical 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

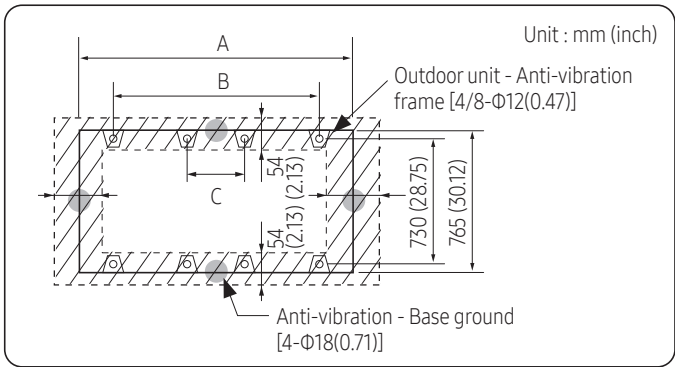


10. Installation

Outdoor unit installation



Outdoor unit base mount and anchor bolt position



Unit : mm (inch)

Classification	DVM S2 Small type	DVM S2 Large type	DVM S2 X-Large type
A	930 (36.6)	1295 (51)	1860 (73.2)
B	790 (31.1)	1155 (45.5)	1720 (67.7)
C	-	-	150 (5.9)

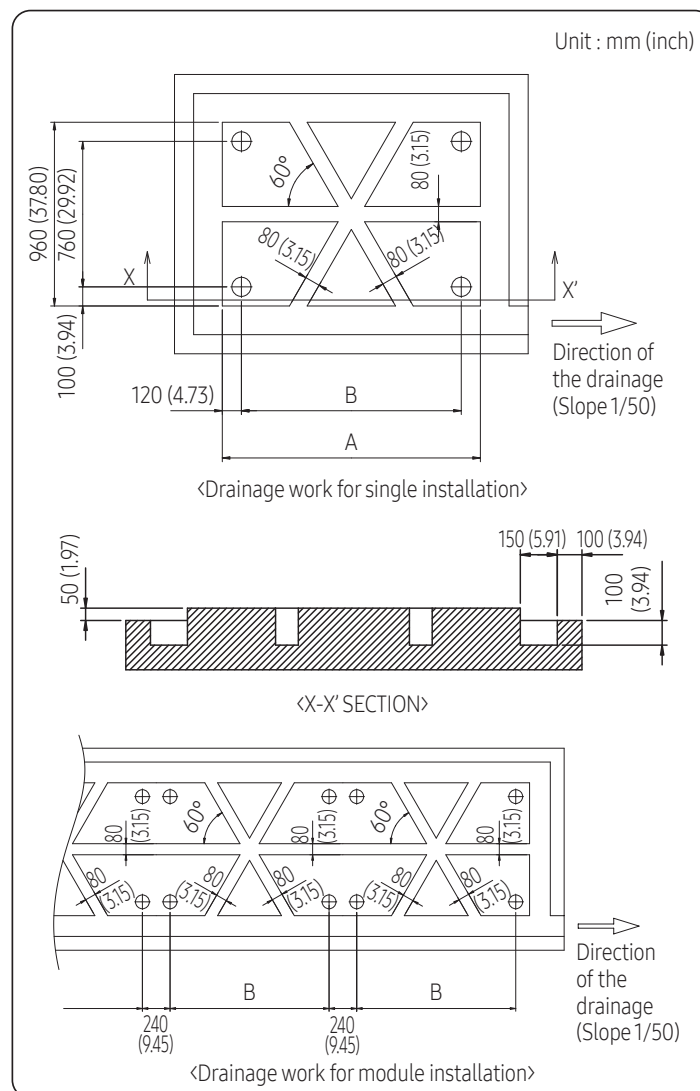
※ Refer to the blueprints in technical data book to make a holes for connecting the anti-vibration pad.

10. Installation

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)

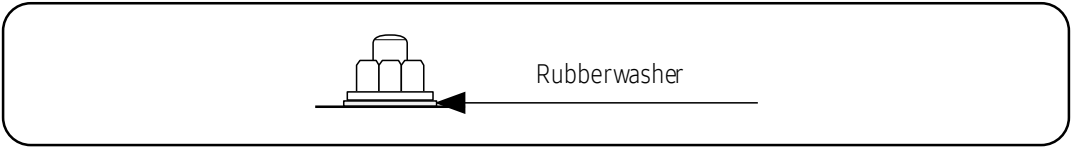
Classification	DVM S2 Small type	DVM S2 Large type	DVM S2 X-Large type
A	1030 (40.6)	1395 (54.9)	1960 (77.2)
B	790 (31.1)	1155 (45.5)	1720 (67.7)

10. Installation

Outdoor unit installation

⚠ CAUTION

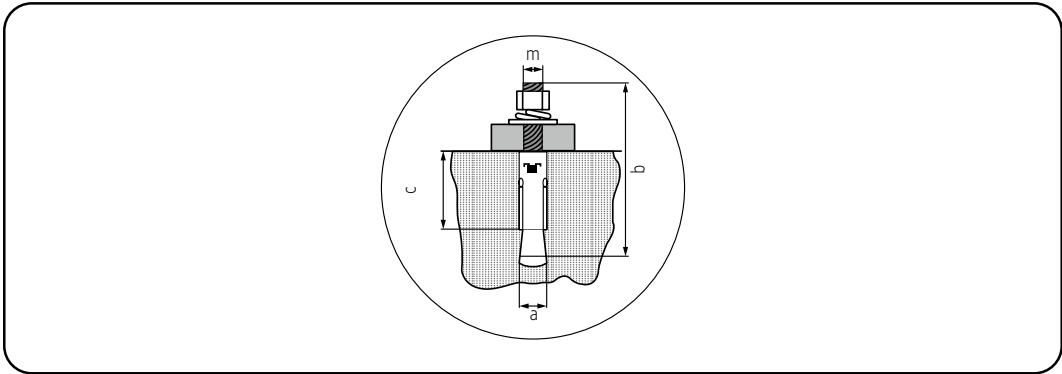
- Cautions regarding on connecting the anchor bolt
 - Tighten the rubber washer to prevent the bolt connection part of the outdoor unit from corroding.



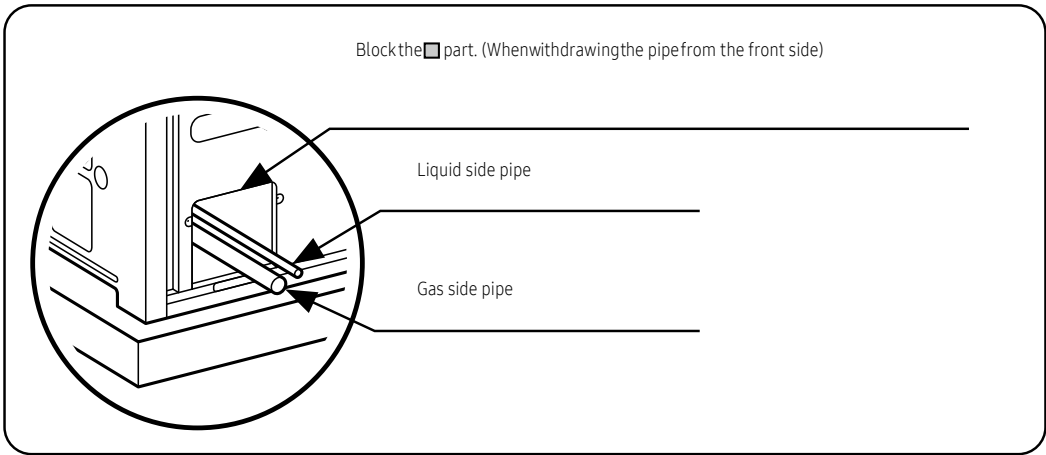
– Anchor specification

Size	Diameter of drill bit (a)	Anchor length (b)	Sleeve length (c)	Insert depth	Fastening torque
Ø10	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.



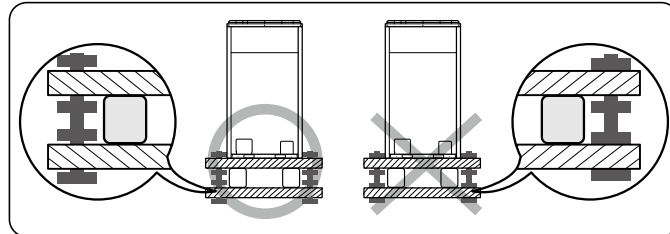
- Cautions regarding on connecting the pipe
 - If you install the outdoor unit on the rooftop, check the strength and make sure to waterproof the rooftop.
 - Construct draining pit around the base construction and pay attention to the drainage around the outdoor unit. (Condensation or defrost water may 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.



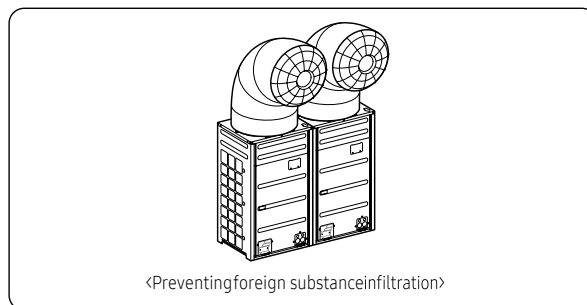
10. Installation

Outdoor unit installation

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



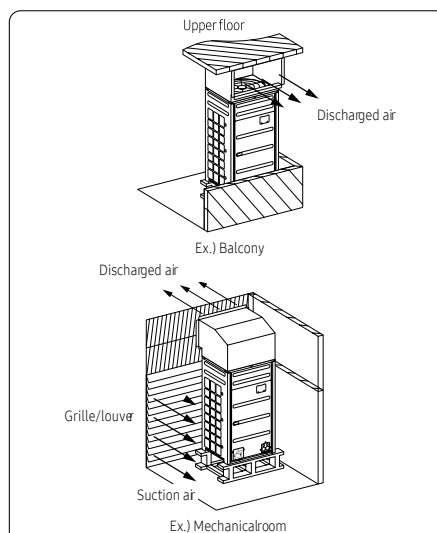
- After installing the anti-vibration frame, untighten the fixing part on the top and bottom part of the frame.
- Caution for installing discharge duct
 - Static pressure of the discharge duct should be within the standard specification when installing the duct.
 - If you remove the fan guard to install 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.

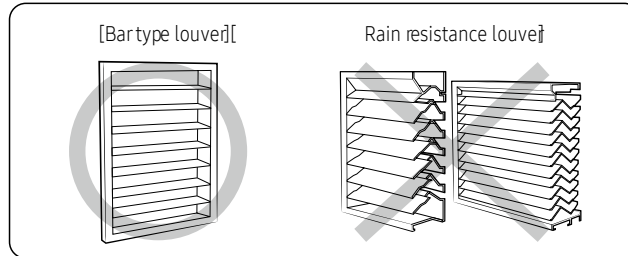


10. Installation

Outdoor unit installation

WARNING

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



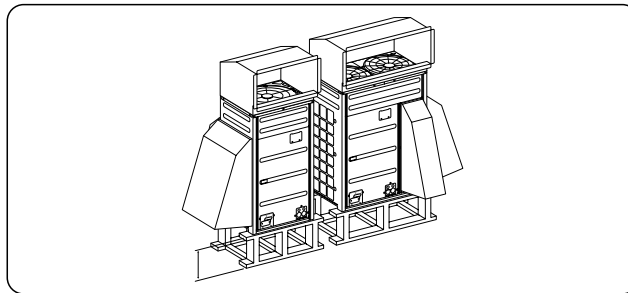
- Louver specifications.
 - Angle criteria : less than 20°
 - Opening ratio criteria : greater than 80%

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

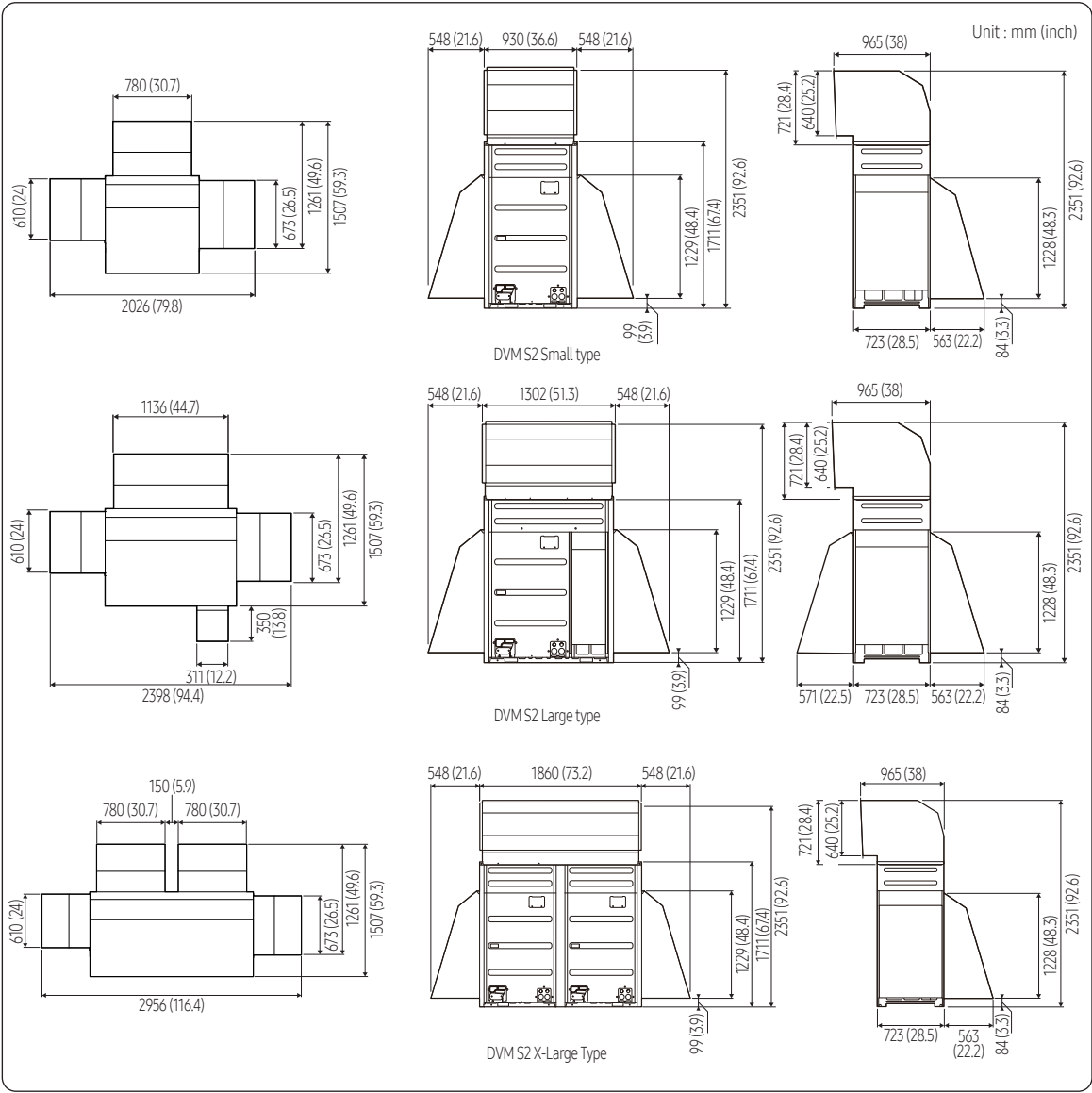
- In windy regions such as near sea shores, protection wall or wind protection duct must be installed for normal operation of the outdoor unit. (Refer to the illustration of the snow prevention duct, for installing the wind protection duct.)
- Install the wind prevention duct with the consideration of 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.

10. Installation

Outdoor unit installation



10. Installation

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

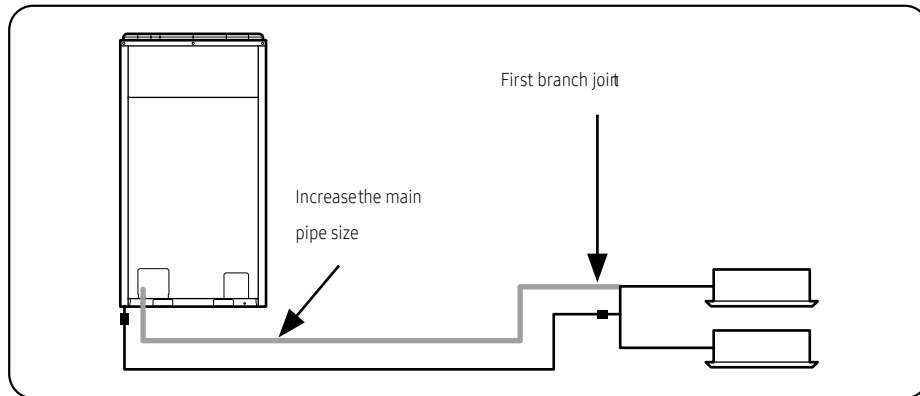
- The length of refrigerant pipe should be as short as possible and the height difference between an indoor and outdoor unit should be minimized.
- Piping work must be done within allowable piping length, height difference, and the allowable length after branching.
- The pressure of the R-410A is high. 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 pipe.
- Use tools and accessories that fit on R-410A only.

Tool	Installation process/ purpose		Compatibility with conventional tool
Pipe cutter	Refrigerant pipe installation	Pipe cutting	Compatible
Flaring tool		Pipe flaring	
Refrigerant machine oil		Apply refrigerant oil on flared part	Exclusive ether oil, ester oil, alkali benzene oil or synthetic oil
Torque wrench		Connect flare nut with pipe	Compatible
Pipe bender		Pipe bending	
Nitrogen gas	Air tightness test	Prevent oxidation within the pipe	
Welder		Pipe welding	
Manifold gage	Air tightness test ~ additional refrigerant charging	Vacuuming, charging refrigerant and checking operation	Compatible
Refrigerant charging hose			Need exclusive one since there is risk of refrigerant leakage or inflow of impurities
Vacuum pump	Pipe drying		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 use the flare nut equipped with the product.		

10. Installation

Refrigerant pipe installation

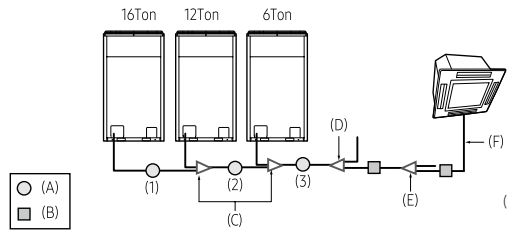
Selecting refrigerant pipe



- 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.

10. Installation

Refrigerant pipe installation



Ex.) 34 Ton

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

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) (Cooling)	Outdoor unit capacity (kW) (Cooling)	*Maximum pipe length within 295ft (90m)				*Maximum pipe length over 295ft (90m)			
		Liquid		Gas		Liquid		Gas	
		inch	mm	inch	mm	inch	mm	inch	mm
Capacity ≤ 85	Capacity ≤ 25	Ø3/8	Ø9.52	Ø3/4	Ø19.05	Ø1/2	Ø12.70	Ø7/8	Ø22.22
85 < Capacity ≤ 99	25 < Capacity ≤ 29			Ø7/8	Ø22.22			Ø1 note1)	Ø25.40 note1)
99 < Capacity ≤ 120	29 < Capacity ≤ 35	Ø1/2	Ø12.70	Ø1 1/8	Ø28.58	Ø5/8	Ø15.88	Ø11/8	Ø28.58
120 < Capacity ≤ 140	35 < Capacity ≤ 41							Ø1 1/4 note2)	Ø31.75 note2)
140 < Capacity ≤ 160	41 < Capacity ≤ 47							Ø1 3/8	Ø34.92
160 < Capacity ≤ 181	47 < Capacity ≤ 53							Ø1 1/2 note3)	Ø38.10 note3)
181 < Capacity ≤ 222	53 < Capacity ≤ 65	Ø5/8	Ø15.88	Ø1 3/8	Ø34.92	Ø7/8	Ø22.22	Ø1 5/8	Ø41.28
222 < Capacity ≤ 240	65 < Capacity ≤ 70							Ø1 5/8	Ø41.28
240 < Capacity ≤ 336	70 < Capacity ≤ 98	Ø3/4	Ø19.05	Ø1 5/8	Ø41.28	Ø7/8	Ø22.22	Ø1 5/8	Ø41.28
336 < Capacity ≤ 467	98 < Capacity ≤ 137							Ø1 5/8	Ø41.28
467 < Capacity ≤ 583	137 < Capacity ≤ 171							Ø1 5/8	Ø41.28

*Maximum pipe length : The pipe length between an outdoor unit and the farthest indoor unit.

Note1) If Ø1" (25.40mm) pipe is not available on site, use Ø1 1/8" (28.58mm) pipe.

Note2) If Ø1 1/4" (31.75mm) pipe is not available on site, use Ø1 3/8" (34.92mm) pipe.

Note3) If Ø1 1/2" (38.10mm) pipe is not available on site, use Ø1 5/8" (41.28mm) pipe.

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.

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 capacity (MBH)	Indoor unit capacity (kW)	Branch pipe length within 148ft (45m)				Branch pipe length between 148ft~295ft (45~90m)			
		Liquid		Gas		Liquid		Gas	
		inch	mm	inch	mm	inch	mm	inch	mm
Capacity < 19	Capacity < 5.7	Ø1/4	Ø6.35	Ø1/2	Ø12.70	Ø3/8	Ø9.52	Ø5/8	Ø15.88
19 ≤ Capacity < 55	5.7 ≤ Capacity < 16			Ø5/8	Ø15.88			Ø3/4	Ø19.05
55 ≤ Capacity < 79	16 ≤ Capacity < 23.2			Ø3/4	Ø19.05			Ø7/8	Ø22.22
79 ≤ Capacity < 115	23.2 ≤ Capacity < 33.6			Ø7/8	Ø22.22			Ø1 note1)	Ø25.40 note1)
115 ≤ Capacity < 133	33.6 ≤ Capacity < 39	Ø1/2	Ø12.70	Ø1 1/8	Ø28.58	Ø5/8	Ø15.88	Ø11/8	Ø28.58
133 ≤ Capacity < 150	39 ≤ Capacity < 44							Ø1 1/4 note2)	Ø31.75 note2)
150 ≤ Capacity < 172	44 ≤ Capacity < 50.4							Ø1 3/8	Ø34.92
172 ≤ Capacity < 229	50.4 ≤ Capacity < 67.2							Ø1 1/2 note3)	Ø38.10 note3)
230 ≤ Capacity < 248	67.2 ≤ Capacity < 72.8	Ø5/8	Ø15.88	Ø1 3/8	Ø34.92	Ø7/8	Ø22.22	Ø1 5/8	Ø41.28
248 ≤ Capacity < 344	72.8 ≤ Capacity < 100.8							Ø1 5/8	Ø41.28
344 ≤ Capacity < 392	100.8 ≤ Capacity < 115							Ø1 5/8	Ø41.28
392 ≤ Capacity < 592	115 ≤ Capacity < 173.6							Ø1 5/8	Ø41.28
592 ≤ Capacity < 676	173.6 ≤ Capacity < 198	Ø7/8	Ø22.22	Ø1 3/4 note4)	Ø44.45 note4)	Ø1 note1)	Ø25.40 note1)	Ø2 1/8	Ø53.98
676 ≤ Capacity < 860	198 ≤ Capacity < 252			Ø1 3/4 note4)	Ø44.45 note4)			Ø2 1/8	Ø53.98
860 ≤ Capacity	252 ≤ Capacity			Ø1 note1)	Ø25.40 note1)			Ø2 1/8	Ø53.98
860 ≤ Capacity	252 ≤ Capacity			Ø1 note1)	Ø25.40 note1)			Ø2 1/8	Ø53.98

Note1) If Ø1" (25.40mm) pipe is not available on site, use Ø1 1/8" (28.58mm) pipe.

Note2) If Ø1 1/4" (31.75mm) pipe is not available on site, use Ø1 3/8" (34.92mm) pipe.

Note3) If Ø1 1/2" (38.10mm) pipe is not available on site, use Ø1 5/8" (41.28mm) pipe.

Note4) If Ø1 3/4" (44.45mm) pipe is not available on site, use Ø2 1/8" (53.98mm) pipe.

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 unit capacity		Model name
	MBH	kW	
Y-joint for outdoor unit (C)	Capacity #578	Capacity #248	MXJ-TA3819M
	467 < Capacity	137 < Capacity	MXJ-TA4422M

First branch joint (D)

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

Classification	Outdoor unit capacity		Model name
	MBH	kW	
Y-joint (D)	Capacity #251	Capacity #52	MXJ-YA2512M
	Capacity #271	Capacity #58	MXJ-YA2812M
	Capacity #349	Capacity #81	MXJ-YA2815M
	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	Indoor unit capacity		Model name
	MBH	kW	
Y-joint (E)	Capacity < 55	Capacity < 16	MXJ-YA1509M
	55 ≤ Capacity < 133	16 ≤ Capacity < 39	MXJ-YA2512M
	133 ≤ Capacity < 172	39 ≤ Capacity < 50.4	MXJ-YA2812M
	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
Distribution header (E)	478 < Capacity	140 < Capacity	MXJ-YA4422M
	Capacity < 172 (for 4 rooms)	Capacity < 50.4 (for 4 rooms)	MXJ-HA2512M
	Capacity < 248 (for 8 rooms)	Capacity < 72.8 (for 8 rooms)	MXJ-HA3115M
	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		Liquid		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

If 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.

10. Installation

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) $\geq$ 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) $\geq$ 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 (mainpipe) size reduction" option.

- Length allowed to reduce the diameter of liquid pipe, A (equivalent length)

Capacity (HP)	Below 90 m				Over 90m			
	Pipe diameter		Max length (m)		Pipe diameter		Max length (m)	
	mm	inch	m	ft	mm	inch	m	ft
8	This capacity is not supported.							
10	This capacity is not supported.							
12	9.52	3/8	50	164	12.7	1/2	200	656
14	9.52	3/8	40	131	12.7	1/2	190	623
16	9.52	3/8	30	98	12.7	1/2	150	492
18	12.7	1/2	90	298	15.88	5/8	200	656
20	12.7	1/2	90	298	15.88	5/8	200	656
22	12.7	1/2	80	262	15.88	5/8	200	656
24	12.7	1/2	70	230	15.88	5/8	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	90	295	19.05	3/4	200	656
34	15.88	5/8	90	295	19.05	3/4	200	656
36	15.88	5/8	90	295	19.05	3/4	200	656
38	15.88	5/8	90	295	19.05	3/4	200	656
40	15.88	5/8	80	262	19.05	3/4	200	656
42	15.88	5/8	70	230	19.05	3/4	200	656
44	15.88	5/8	70	230	19.05	3/4	200	656
46	15.88	5/8	60	197	19.05	3/4	180	591
48	15.88	5/8	60	197	19.05	3/4	170	558
50	15.88	5/8	50	164	19.05	3/4	150	492
52	15.88	5/8	50	164	19.05	3/4	140	459

Capacity (HP)	Below 90 m				Over 90m			
	Pipe diameter		Max length (m)		Pipe diameter		Max length (m)	
	mm	inch	m	ft	mm	inch	m	ft
54	15.88	5/8	40	131	19.05	3/4	130	427
56	15.88	5/8	40	131	19.05	3/4	120	394
58	15.88	5/8	40	131	19.05	3/4	120	394
60	15.88	5/8	40	131	19.05	3/4	110	361
62	19.05	3/4	90	295	22.22	7/8	200	656
64	19.05	3/4	90	295	22.22	7/8	200	656
66	19.05	3/4	90	295	22.22	7/8	200	656
68	19.05	3/4	90	295	22.22	7/8	200	656
70	19.05	3/4	80	262	22.22	7/8	190	623
72	19.05	3/4	80	262	22.22	7/8	180	591
74	19.05	3/4	70	230	22.22	7/8	170	558
76	19.05	3/4	70	230	22.22	7/8	160	525
78	19.05	3/4	70	230	22.22	7/8	150	492
80	19.05	3/4	60	197	22.22	7/8	150	492
82	19.05	3/4	60	197	22.22	7/8	140	459
84	19.05	3/4	60	197	22.22	7/8	130	427
86	19.05	3/4	50	164	22.22	7/8	130	427
88	19.05	3/4	50	164	22.22	7/8	120	394
90	19.05	3/4	50	164	22.22	7/8	120	394
92	This capacity is not supported.							
94	This capacity is not supported.							
96	This capacity is not supported.							
98	This capacity is not supported.							

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

$$656\text{ft} \geq 460\text{ft} / \{ 1 - (65 * 0.0046) \} = 460\text{ft} / 0.701 = 656\text{ft}$$

Accordingly, the max. piping length of 460 ft (395 ft-long horizontal piping and 65 ft-long vertical piping) is allowable.

E.g. 2: For a site with 18 tons (SI units), max. piping length of 140 m (120 m-long horizontal piping and 20 m-long vertical piping) condition, allowable length A $\geq$ max. piping length / { 1 - (vertical piping length * 0.015) }

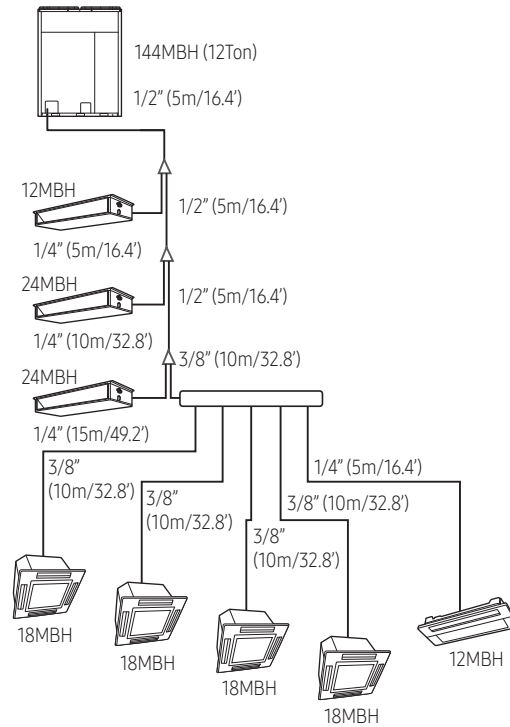
$$200\text{m} \geq 140\text{m} / \{ 1 - (20 * 0.015) \} = 140\text{m} / 0.7 = 200\text{m}$$

Accordingly, the max. piping length of 140m (120m-long horizontal piping and 20m-long vertical piping) is allowable.

10. Installation

Refrigerant pipe installation

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	AM080CXVAFH	AM100CXVAFH	AM120CXVAFH	AM140CXVAFH	AM160CXVAFH	AM180CXVAFH	AM200CXVAFH	AM220CXVAFH
Basic amount [lb(kg)]	15.4 (7.0)	15.4 (7.0)	15.4 (7.0)	17.6 (8.0)	17.6 (8.0)	23.1 (10.5)	23.1 (10.5)	23.1 (10.5)
Classification	AM240CXVAFH	AM260CXVAFH	AM080CXVAJH	AM100CXVAJH	AM120CXVAJH	AM140CXVAJH	AM160CXVAJH	AM180CXVAJH
Basic amount [lb(kg)]	30.9 (14.0)	30.9 (14.0)	15.4 (7.0)	15.4 (7.0)	15.4 (7.0)	17.6 (8.0)	17.6 (8.0)	23.1 (10.5)
Classification	AM200CXVAJH	AM220CXVAJH	AM240CXVAJH	AM260CXVAJH	AM280CXVAJH	AM300CXVAJH	AM320CXVAJH	AM340CXVAJH
Basic amount [lb(kg)]	23.1 (10.5)	23.1 (10.5)	30.9 (14.0)	30.9 (14.0)	30.9 (14.0)	34.2 (15.5)	34.2 (15.5)	34.2 (15.5)

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

Size of liquid pipe [mm (inch)]	Φ1/4 (Φ6.35)	Φ3/8 (Φ9.52)	Φ1/2 (Φ12.7)	Φ5/8 (Φ15.88)	Φ3/4 (Φ19.05)	Φ7/8 (Φ22.22)	Φ1 (Φ25.4)	Φ1 1/8 (Φ28.58)
Additional amount [lb/ft (kg/m)]	0.013 (0.02)	0.04 (0.06)	0.084 (0.125)	0.121 (0.18)	0.181 (0.27)	0.235 (0.35)	0.356 (0.53)	0.437 (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.

10. Installation

Refrigerant pipe installation

- Amount of additional refrigerant for each indoor unit (㉔)

Unit : lb(kg)

Capacity (MBH) Model	5	6	7	9	12	15	18	19	20	24	27	28	30	32	36	38	42	48	54	60	72	76	96
1way cassette (AM***F(N)N1DCH/**)			0.25 (0.55)	0.25 (0.55)	0.25 (0.55)		0.32 (0.71)			0.32 (0.71)													
2way cassette (AM***N2DCH/**)							0.31 (0.68)			0.47 (1.04)													
4way cassette S (600x600) (AM***NNDCH/**)	0.29 (0.64)		0.29 (0.64)	0.29 (0.64)	0.29 (0.64)		0.37 (0.82)		0.37 (0.82)														
4way cassette S (AM***F(N)N4DCH/**)				0.45 (0.99)	0.45 (0.99)		0.45 (0.99)			0.45 (0.99)			0.69 (1.52)		0.69 (1.52)			0.69 (1.52)					
4way cassette S (AM***JN4D(P)CH/**)		0.45 (0.99)											1.00 (2.20)					1.00 (2.20)					
360 cassette (AM***KN4DCH/**)				0.45 (0.99)	0.45 (0.99)		0.45 (0.99)			0.45 (0.99)			0.69 (1.52)		0.69 (1.52)			0.69 (1.52)					
Duct S (AM***MNDCH/**)			0.45 (0.99)	0.45 (0.99)	0.45 (0.99)	0.45 (0.99)	0.45 (0.99)																
Duct S (AM***ANHPKH/**)					0.45 (0.99)		0.45 (0.99)			0.45 (0.99)			0.68 (1.50)		0.84 (1.85)		0.84 (1.85)	0.84 (1.85)					
Duct S (AM***MNDCH/**)										0.68 (1.50)	0.68 (1.50)		0.68 (1.50)		0.84 (1.85)			0.84 (1.85)					
Slim duct (AM***FNLDCH/**)			0.35 (0.77)	0.35 (0.77)	0.35 (0.77)		0.45 (0.99)			0.45 (0.99)			0.42 (0.93)		0.42 (0.93)			0.62 (1.37)					
Slim duct (with drain pump) (AM***KNLDCH/**)			0.35 (0.77)	0.35 (0.77)	0.35 (0.77)		0.45 (0.99)			0.45 (0.99)			0.42 (0.93)		0.42 (0.93)			0.62 (1.37)					
MSP duct (AM***F(J)KNMDCH***) (AM***JNHDCH***)			0.37 (0.82)	0.37 (0.82)	0.37 (0.82)	0.37 (0.82)	0.54 (1.19)			0.47 (1.04)	0.47 (1.04)		0.47 (1.04)		0.68 (1.50)			0.68 (1.50)	0.91 (2.01)				
MSP duct (AM***NMPCH***)		0.37 (0.82)			0.68 (1.50)		0.68 (1.50)					0.68 (1.50)					0.68 (1.50)						
HSP duct (AM***FNHDCH/**)															0.68 (1.50)			0.68 (1.50)				118 (2.60)	118 (2.60)
Big duct (AM***JNHFKH/**)																			115 (2.54)		115 (2.54)		
OAP duct (AM***NE*CH/**)																		0.68 (1.50)			118 (2.60)		118 (2.60)

※ If there is no additional refrigerant value for the indoor unit in the above table, refer to the indoor unit installation manual.

- Amount of additional refrigerant for each indoor unit (㉕)

- 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 (㉕)
 - Amount of additional refrigerant for each indoor unit (㉔) = Σ (Amount of additional refrigerant for each connected indoor unit)

※ Refer to the table

- Total amount of additional refrigerant = ㉕+㉔
refrigerant(㉕+㉔) should not exceed 91.3kg (220.9lb)
360 cassette

※ 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
refrigerant(㉕+㉔) should not exceed 91.3kg (220.9lb)

10. Installation

Refrigerant pipe installation

- Example of refrigerant calculation for HP models

Classification	Size of liquid pipe [mm (inch)]	Length [m (ft)]	Unit amount of refrigerant [kg/m (lb/ft)]	Amount of additional refrigerant [kg (lb)]	Total amount of additional refrigerant [kg (lb)]
		①	②	①×②	Σ(①×②)
Liquid pipe (a)	Ø6.35(Ø1/4)	5 (114.80)	.02 (0.0130)	.7 (1.49)	a 5.575 (12.19)
	Ø9.52(Ø3/8)	50 (164.0)	0.06 (0.0403)	.0 (6.56)	
	Ø12.70 (Ø1/2)	5 (49.2)	0.125 (0.0841)	.875 (4.13)	

Classification	Model name of indoor unit	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)]
		①	②	①×②	Σ(①×②)
Indoor unit (b)	4way cassette (AM018RN4DCH)	40	.57 (1.26)	2.28 (4.92)	b 3.78 (8.22)
	LSP duct (AM024FNLDCH)	20	.45 (0.99)	0.90 (1.98)	
	LSP duct (AM012FNLDCH)	10	.35 (0.77)	0.35 (0.77)	
	1way cassette (AM012AN1PCH)	10	.25 (0.55)	0.25 (0.55)	

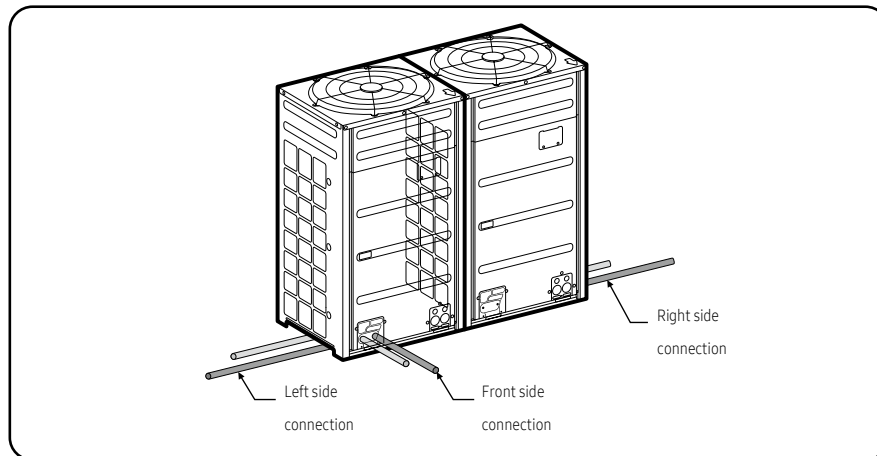
– Total amount of refrigerant (a + b) = 5.575 + 3.78 = 9.355(kg)
= 12.19 + 8.22 = 20.41(lb)

10. Installation

Refrigerant pipe installation

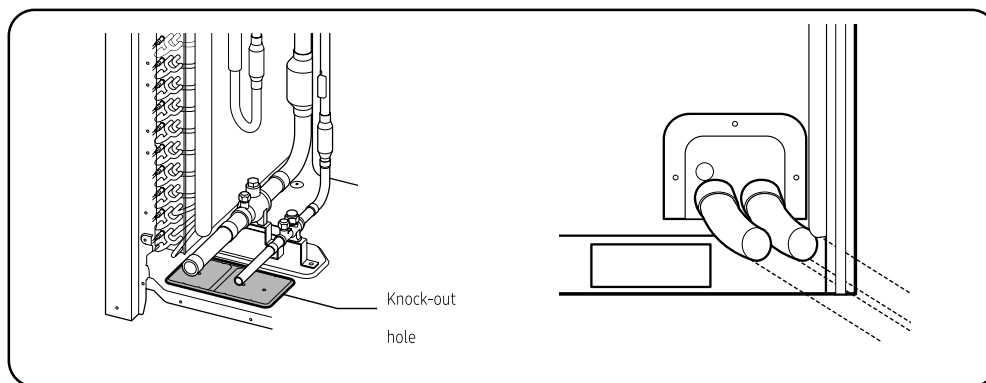
Pipe installation for an outdoor unit

- 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

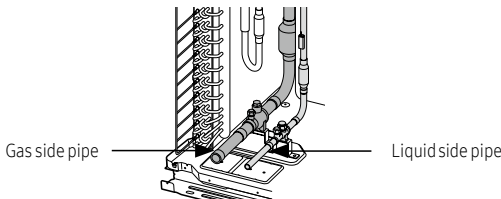
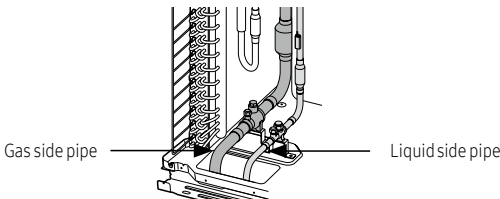
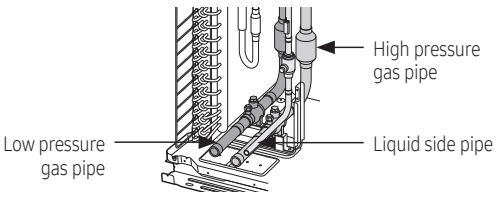
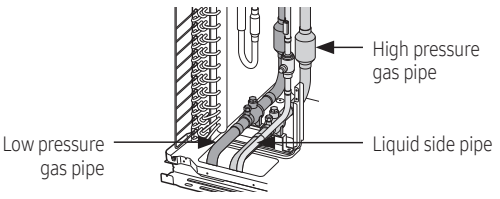


- Make sure to prevent any damages on the exterior of the outdoor unit.
- Remove all burrs around the knock-out hole and apply varnish on the cross section and edges of the knockout hole to prevent rust.
- Use a cable protection tube and bushing to prevent a cable from being damaged when passing through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

10. Installation

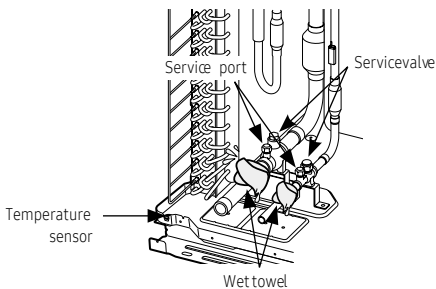
Refrigerant pipe installation

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
H/R	 High pressure gas pipe Low pressure gas pipe Liquid side pipe	 High pressure gas pipe Low pressure gas 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.

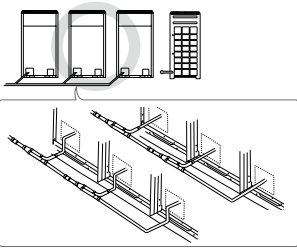
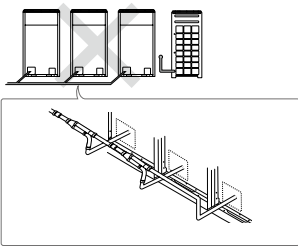
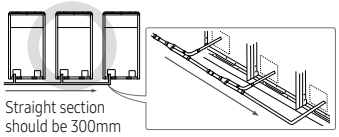
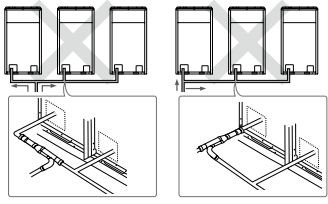
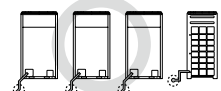
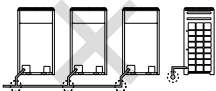
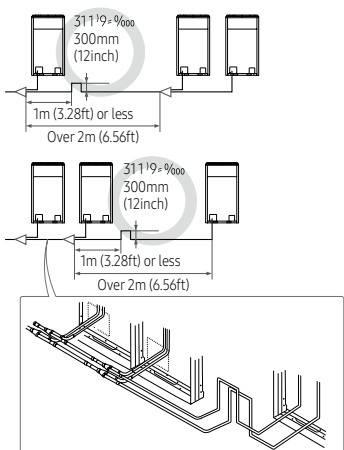
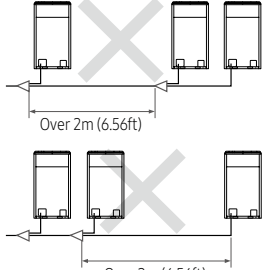


10. Installation

Refrigerant pipe installation

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.

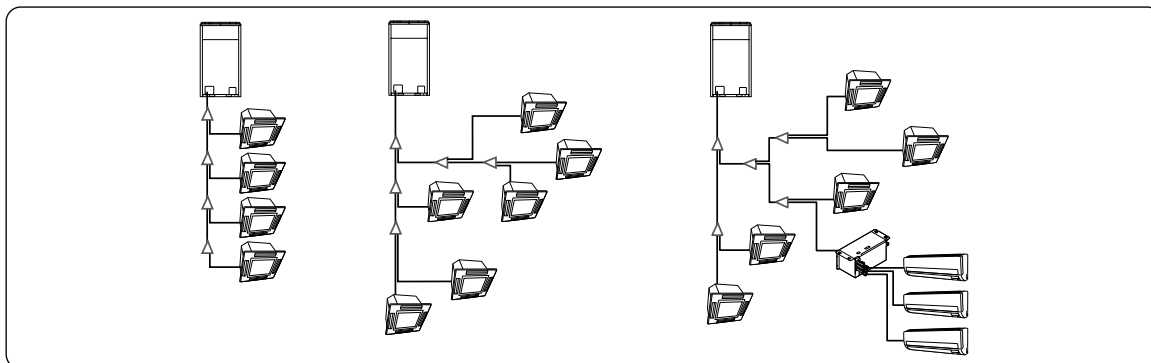
Caution	Correct installation	Incorrect installation
Refrigerant pipes should be connected at the same or lower level than the ones connected to the outdoor unit.		
Refrigerant pipes must be connected by the side of the product.	 Straight section should be 300mm (12inch) or more	
Branch joint between outdoor units must be installed horizontally.		
Install a vertical trap in following cases as shown in the figure : Case1. Pipe length between outdoor unit branches exceeds 2m(6.56ft). Case2. Pipe length between outdoor unit and its branch exceeds 2m(6.56ft).		

10. Installation

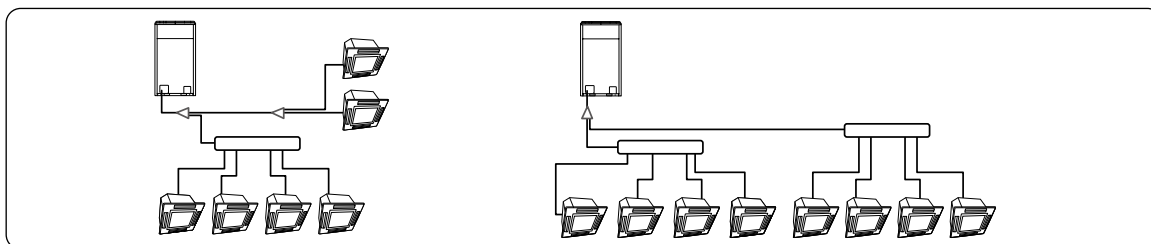
Refrigerant pipe installation

Examples of refrigerant pipe installation

1 Using Y-joint



2 Using distribution header

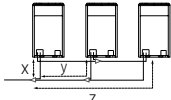


10. Installation

Refrigerant pipe installation

Allowable length of the refrigerant pipe and the installation examples

Classification	Single Installation	Module installation
Installing only with Y-joint		
Installing with Y-joint and distribution header		
Installing only with distribution header		

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

10. Installation

Refrigerant pipe installation

Classification				Example		Remarks
Maximum allowable length after branch joint	First branch joint ~ Farthest Indoor unit	Pipe length	45m (148') or less	Installing only with Y-joint	$b+c+d+e+f+g+p \leq 45\text{m (148')}$	-
				Installing with Y-joint and distribution header	$i+k \leq 45\text{m (148')}$	
				Installing only with distribution header	$i \leq 45\text{m (148')}$	
		45m~90m (148'~295') Note 1)	Required conditions must be satisfied			-

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

※ Please refer to the EEV Kit manual.

Note 1) Required condition

Classification	Condition	Example
First branch joint ~ Farthest Indoor unit	$45\text{m (148')} \leq b+c+d+e+f+g+p \leq 90\text{m (295')}$: branch pipes (b, c, d, e, f, g) size must be increased by 1 grade	
Total length of extended pipe	If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is not increased by 1 grade, $a+(b+c+d+e+f+g) \times 2 + h+i+j+k+l+m+n+p \leq 1000\text{m (3281')}$	
	If the size of pipe (main pipe), between the first branch joint and the outdoor unit, is increased by 1 grade, $(a+b+c+d+e+f+g) \times 2 + h+i+j+k+l+m+n+p \leq 1000\text{m (3281')}$	
Each Y-joint ~ Each indoor unit	$h, i, j, \dots, p \leq 45\text{m (148')}$	
Difference between the distance of the outdoor unit to the farthest indoor unit and nearest		
$\text{indoor unit} \leq 45\text{m (148')}, (a+b+c+d+e+f+g+p)-(a+h) \leq 45\text{m (148')}$		

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

10. Installation

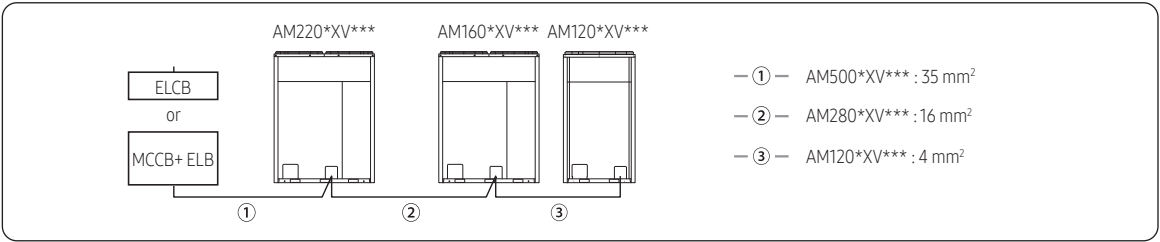
Electrical wiring work

Specification of the circuit breaker and power cable

Model	MCA	MFA
AM080CXVAFH	28.0	40
AM100CXVAFH	34.0	50
AM120CXVAFH	37.0	50
AM140CXVAFH	50.0	63
AM160CXVAFH	52.0	63
AM180CXVAFH	60.0	75
AM200CXVAFH	64.0	75
AM220CXVAFH	68.0	75
AM240CXVAFH	71.0	80
AM260CXVAFH	73.0	80

Model	MCA	MFA
AM080CXVAJH	17.4	20
AM100CXVAJH	18.8	25
AM120CXVAJH	20.6	25
AM140CXVAJH	26.2	35
AM160CXVAJH	28.0	35
AM180CXVAJH	35.0	50
AM200CXVAJH	38.0	50
AM220CXVAJH	41.0	50
AM240CXVAJH	45.0	50
AM260CXVAJH	49.0	63
AM280CXVAJH	50.0	63
AM300CXVAJH	55.0	63
AM320CXVAJH	58.0	75
AM340CXVAJH	61.0	75

- When installing outdoor units in module, select the power supply cable according to the sum of outdoor unit capacity. (Refer to the table for each model)
- Power Supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC:60245 IEC 66 / CENELEC: H07RN-F)
Ex.) AM500*XV***

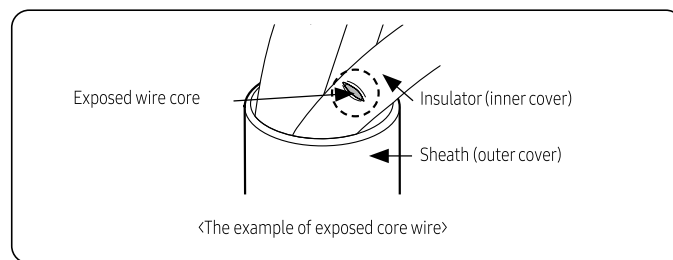


10. Installation

Electrical wiring work

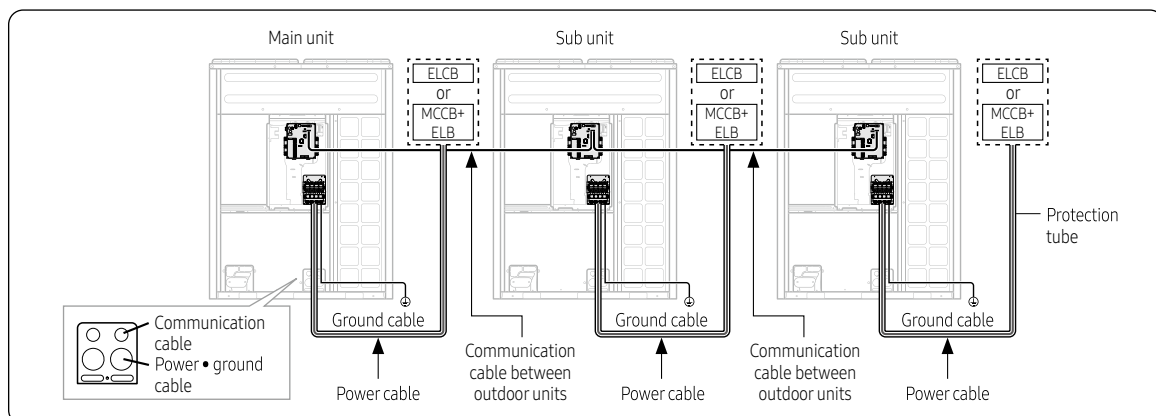
CAUTION

- 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.



10. Installation

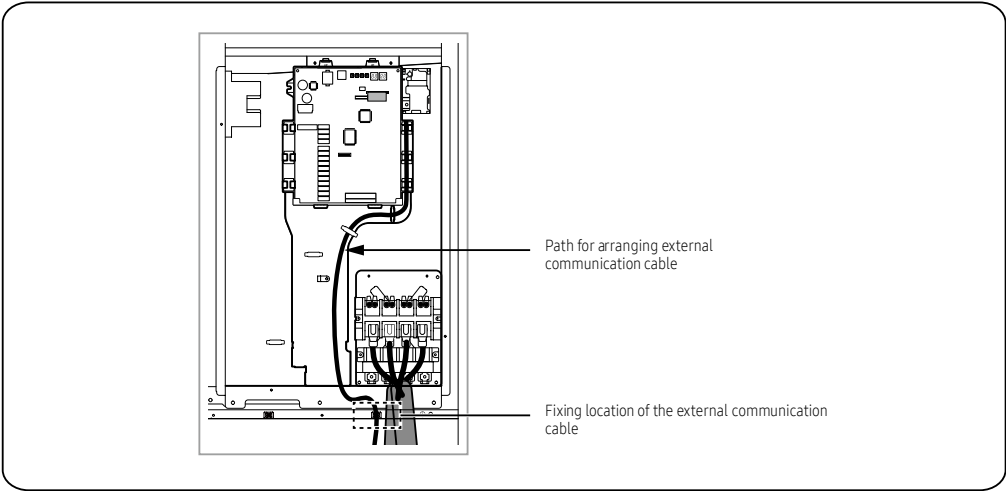
Electrical wiring work

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 G conduit	alvanized 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

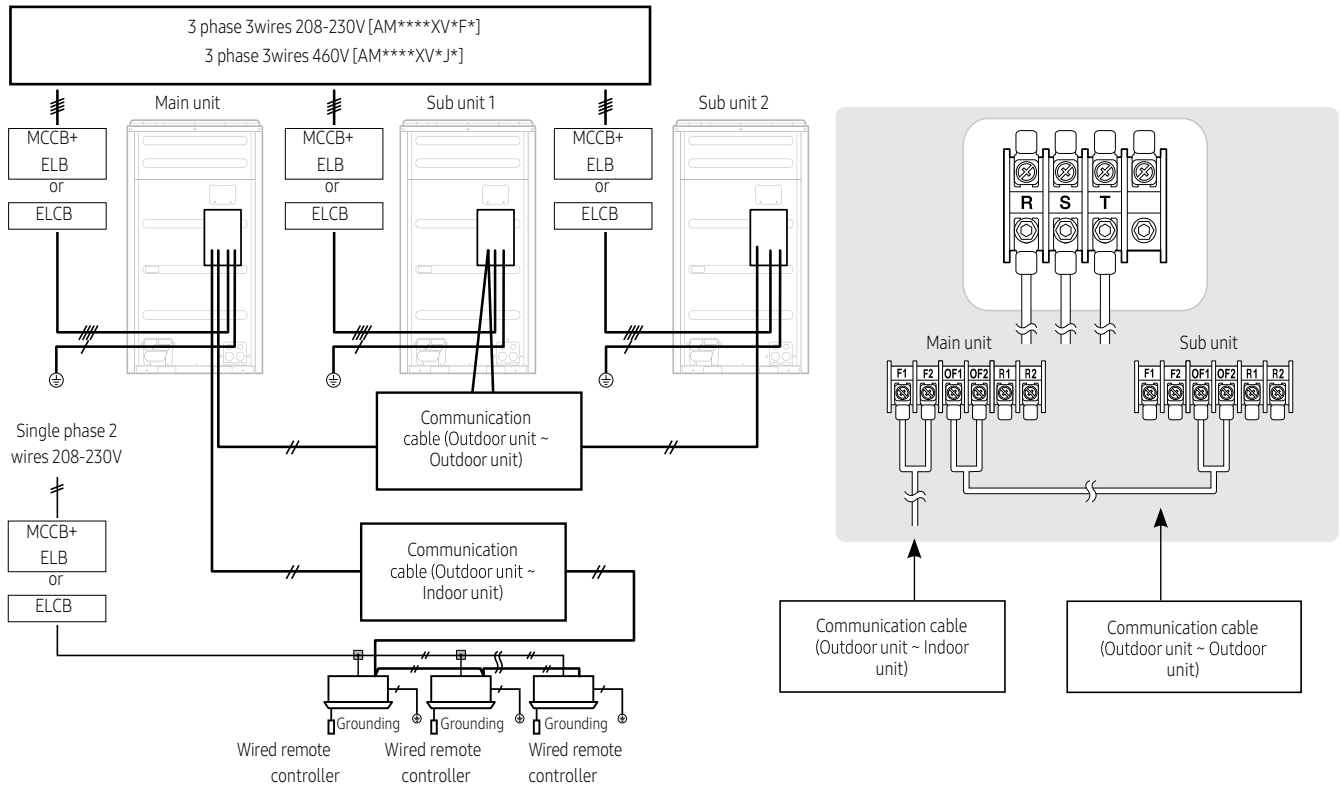
- Caution for perforating the knock-out hole
- Perforate a knock-out hole by punching it with a hammer
- After perforating the knock-out hole, apply rust resisting paint around the hole.
- When you need to pass the cables through the knock-out hole, remove burrs on the hole and protection the cable with 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.



10. Installation

Electrical wiring work

Power wiring diagram

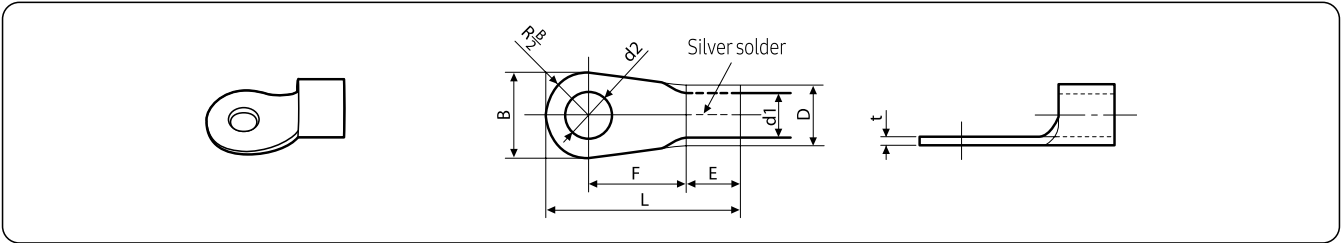


- Connect a power cable of the outdoor unit after checking that R-S-T (3 phase 3 wire) is properly connected.
 - Malfunction may occur if one or more of the wires among R-S-T phases (3 Phases - 3 Wires) are not connected properly.
(*Malfunction : Turing on/off, occurrence of error, consecutive reset)
 - 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.

Electrical wiring work

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 [mm ² (inch ²)]		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)
B	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)
E	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)

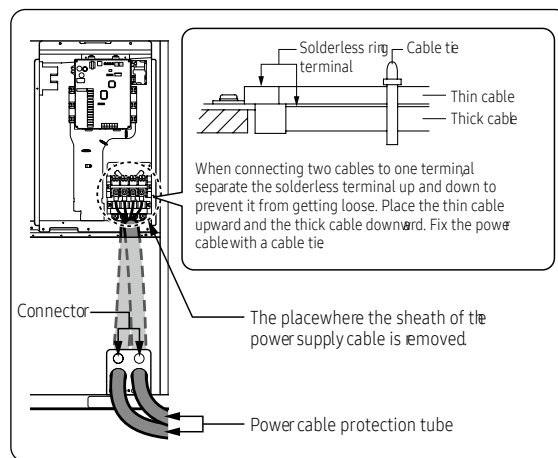
10. Installation

Electrical wiring work

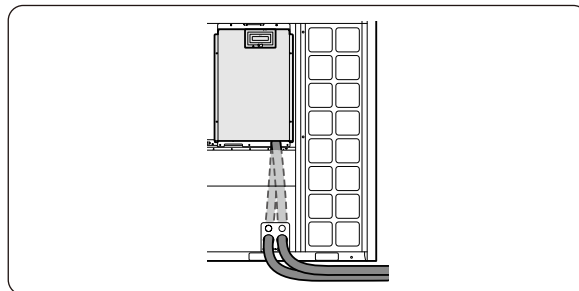
Connecting the power terminal

- 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	Tightening torque for terminal		Remarks
	N·m	bf·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	5.5~7.3	4.1~5.4	3 phase 208~230V / 460V power cable

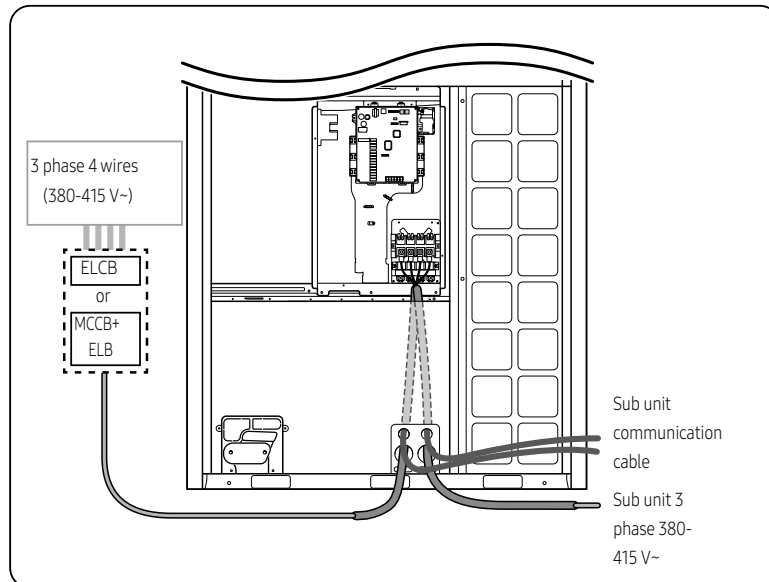
CAUTION

- 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.

10. Installation

Electrical wiring work

Fixing the power cable



CAUTION

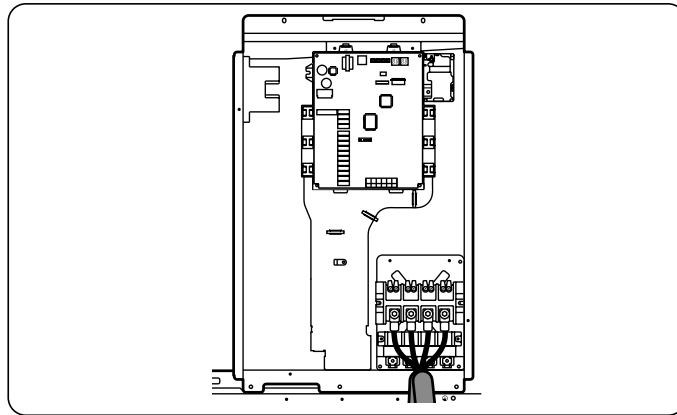
- Do not let the power cable come into contact with the pipes inside the outdoor unit. If the power supply cable touches the pipes, the vibration of the compressor is transferred to the pipes and can damage the power supply cables or pipes, creating the danger of fire or explosion.
- Make sure that the 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.

10. Installation

Electrical wiring work

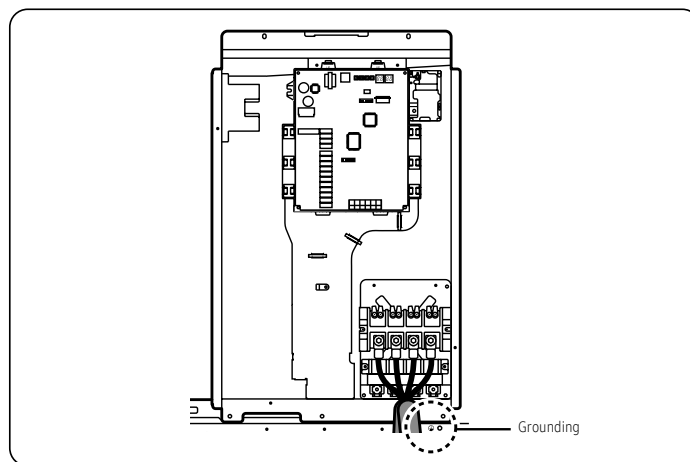
Connect the ring terminal of 3 phase cable

- 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.



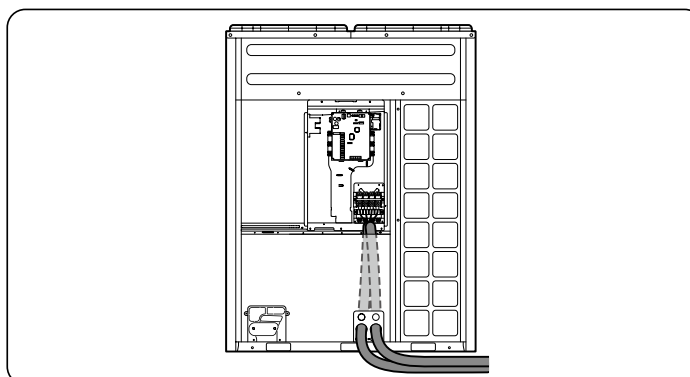
Fixing the ground cable

- 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.

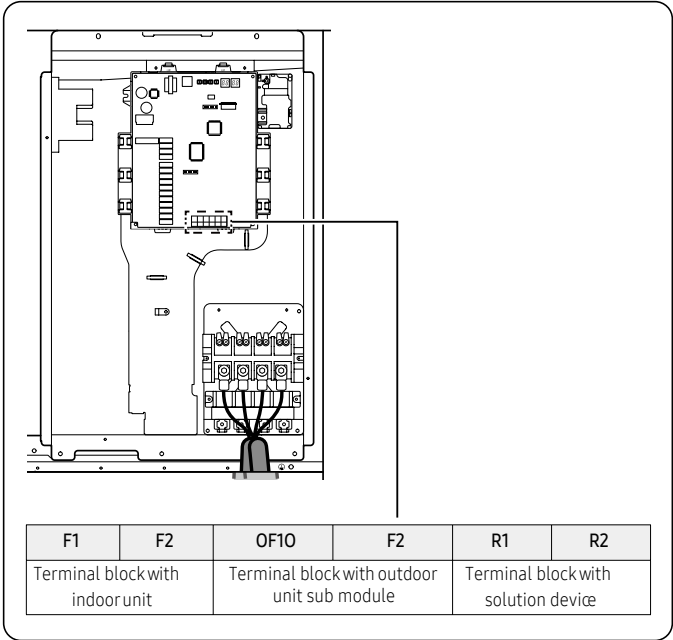


10. Installation

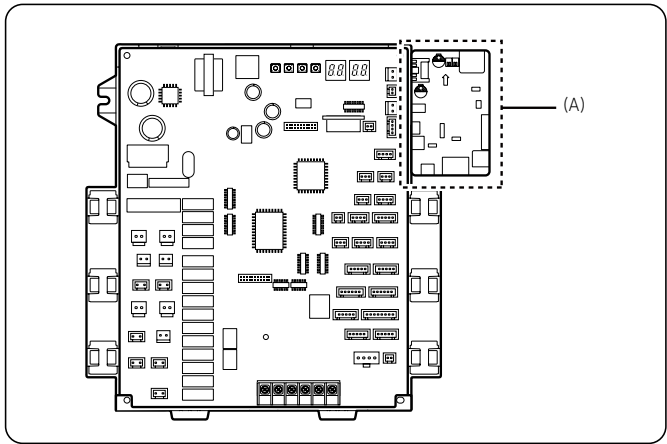
Electrical wiring work

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.



2022.09
Ver.1.1

Samsung Electronics Co., LTD.

Head Office (Suwon Korea) 129, Samsung-Ro, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 16677
Website : www.samsung.com, <http://partnerhub.samsung.com> Email : airconditioner@samsung.com
Images and data in this book may subject to change without prior notice.